

CATALOGUE 2012

DC FAN

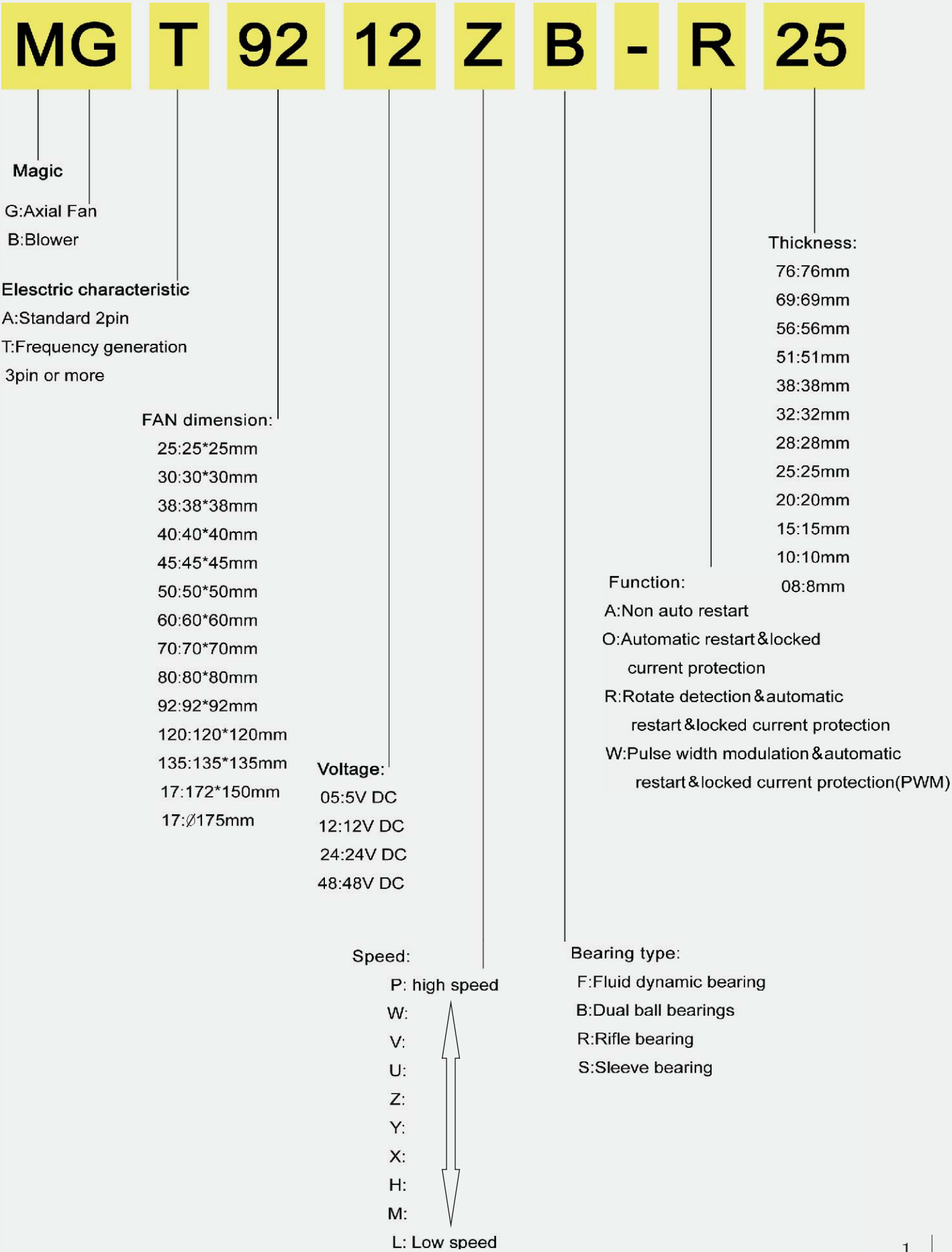


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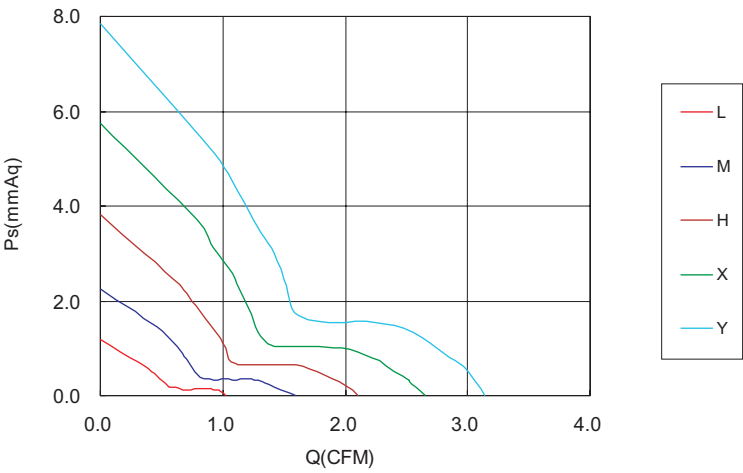
Description Of Model Number



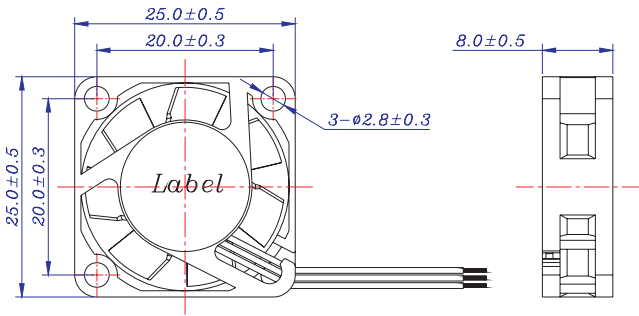
25x25x08mm series

Bearing Type	☐ 2 Ball	☒ Sleeve	☐ Rifle	☒ FDB
Speed Control	☒ Voltage	☐ Temperature	☐ PWM	
	☐ ±5% Speed tolerance		☒ ±15% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☒ Class II	☐ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446

Protechnic Products

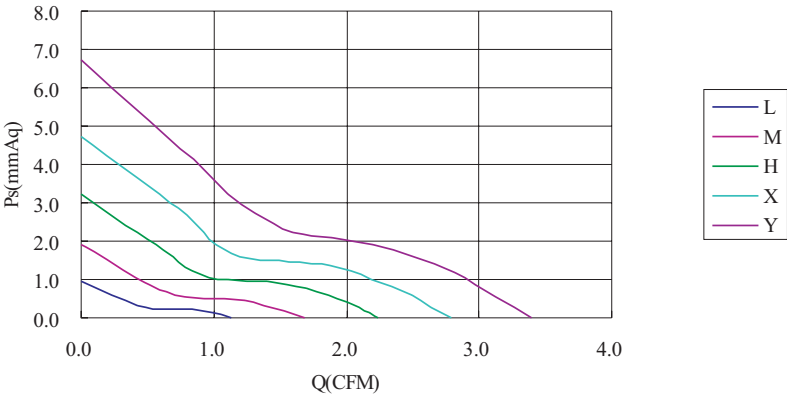
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)2505LF-(2)08	5	0.029	1.02	1.18	0.046	5,000	0.07	0.35	10.5	5
MG(1)2505MF-(2)08	5	0.045	1.60	2.26	0.102	7,000	0.10	0.48	17.5	5
MG(1)2505HF-(2)08	5	0.060	2.11	3.83	0.151	9,000	0.17	0.83	22.6	5
MG(1)2505XF-(2)08	5	0.075	2.66	5.75	0.226	11,000	0.21	1.05	29.2	5
MG(1)2505LS-(2)08	5	0.029	1.02	1.18	0.046	5,000	0.07	0.35	10.5	5
MG(1)2505MS-(2)08	5	0.045	1.60	2.26	0.102	7,000	0.10	0.48	17.5	5
MG(1)2505HS-(2)08	5	0.060	2.11	3.83	0.151	9,000	0.17	0.83	22.6	5
MG(1)2512MF-(2)08	12	0.045	1.60	2.26	0.102	7,000	0.07	0.78	17.5	5
MG(1)2512HF-(2)08	12	0.060	2.11	3.83	0.151	9,000	0.08	0.96	22.6	5
MG(1)2512XF-(2)08	12	0.075	2.66	5.75	0.226	11,000	0.13	1.56	29.2	5
MG(1)2512MS-(2)08	12	0.045	1.60	2.26	0.102	7,000	0.07	0.78	17.5	5
MG(1)2512HS-(2)08	12	0.060	2.11	3.83	0.151	9,000	0.08	0.96	22.6	5

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

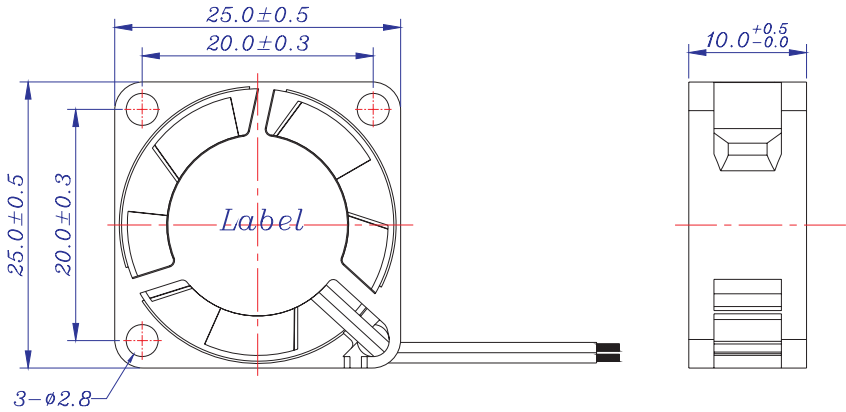
25x25x10mm series

Bearing Type	☒ 2 Ball	☒ Sleeve	☐ Rifle	☒ FDB
Speed Control	☒ Voltage	☐ Temperature	☐ PWM	
	☐ ±5% Speed tolerance	☒ ±15% Speed tolerance		
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



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Protechnic Products

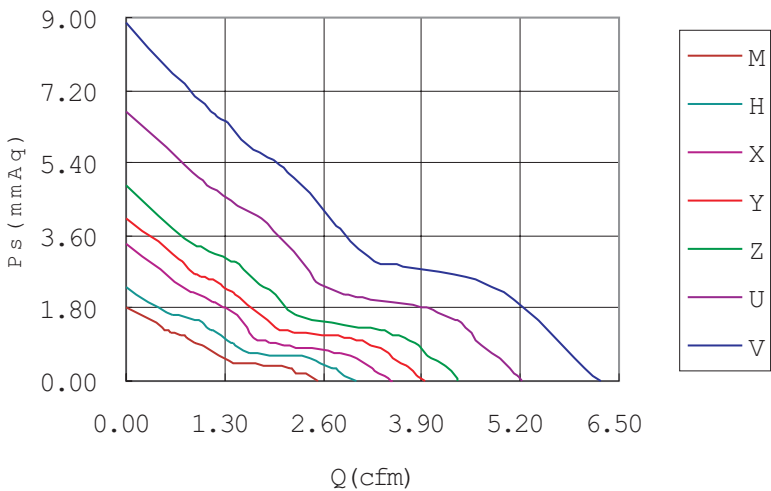
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)2505LS-(2)10	5	0.032	1.13	0.97	0.038	5,000	0.05	0.25	8.1	6
MG(1)2505MS-(2)10	5	0.048	1.68	1.91	0.075	7,000	0.08	0.40	13.5	6
MG(1)2505HS-(2)10	5	0.063	2.24	3.25	0.128	9,000	0.12	0.60	18.7	6
MG(1)2505LF-(2)10	5	0.032	1.13	0.97	0.038	5,000	0.05	0.25	8.1	6
MG(1)2505MF-(2)10	5	0.048	1.68	1.91	0.075	7,000	0.08	0.40	13.5	6
MG(1)2505HF-(2)10	5	0.063	2.24	3.25	0.128	9,000	0.12	0.60	18.7	6
MG(1)2505XF-(2)10	5	0.079	2.79	4.73	0.186	11,000	0.15	0.75	25.3	6
MG(1)2505LB-(2)10	5	0.032	1.13	0.97	0.038	5,000	0.05	0.25	8.1	6
MG(1)2505MB-(2)10	5	0.048	1.68	1.91	0.075	7,000	0.08	0.40	13.5	6
MG(1)2505HB-(2)10	5	0.063	2.24	3.25	0.128	9,000	0.12	0.60	18.7	6
MG(1)2505XB-(2)10	5	0.079	2.79	4.73	0.186	11,000	0.15	0.75	25.3	6
MG(1)2505YB-(2)10	5	0.096	3.39	6.71	0.264	13,000	0.18	0.90	30.0	6
MG(1)2512LS-(2)10	12	0.032	1.13	0.97	0.038	5,000	0.04	0.48	8.1	6
MG(1)2512MS-(2)10	12	0.048	1.68	1.91	0.075	7,000	0.05	0.60	13.5	6
MG(1)2512HS-(2)10	12	0.063	2.24	3.25	0.128	9,000	0.07	0.84	20.1	6
MG(1)2512LF-(2)10	12	0.032	1.13	0.97	0.038	5,000	0.04	0.48	8.1	6
MG(1)2512MF-(2)10	12	0.048	1.68	1.91	0.075	7,000	0.05	0.60	13.5	6
MG(1)2512HF-(2)10	12	0.063	2.24	3.25	0.128	9,000	0.07	0.84	20.1	6
MG(1)2512XF-(2)10	12	0.079	2.79	4.73	0.186	11,000	0.08	0.96	25.3	6
MG(1)2512LB-(2)10	12	0.032	1.13	0.97	0.038	5,000	0.04	0.48	8.1	6
MG(1)2512MB-(2)10	12	0.048	1.68	1.91	0.075	7,000	0.05	0.60	13.5	6
MG(1)2512HB-(2)10	12	0.063	2.24	3.25	0.128	9,000	0.07	0.84	18.7	6
MG(1)2512XB-(2)10	12	0.079	2.79	4.73	0.186	11,000	0.08	0.96	25.3	6
MG(1)2512YB-(2)10	12	0.096	3.39	6.71	0.264	13,000	0.13	1.56	30.0	6

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
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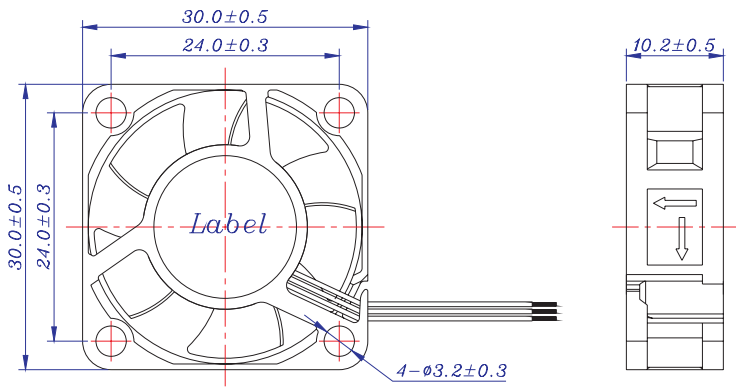
30x30x10mm series B

Bearing Type	☒ 2 Ball	☒ Sleeve	☐ Rifle	☒ FDB
Speed Control	☒ Voltage	☐ Temperature	☐ PWM	
	☐ ±5% Speed tolerance		☒ ±15% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

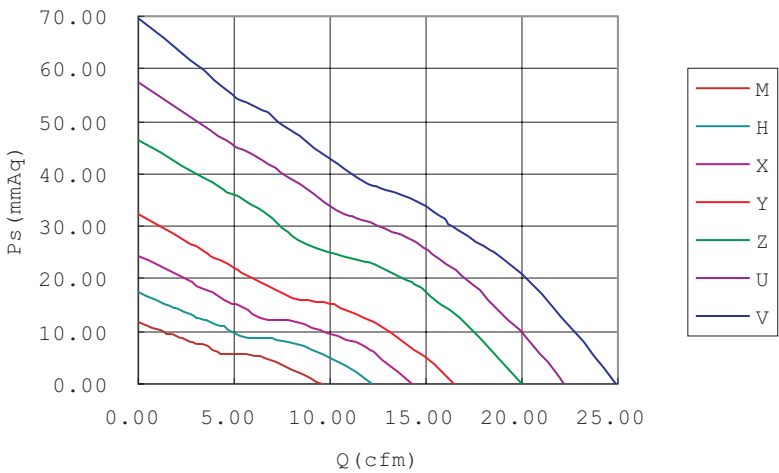
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)3005MF-(2)10	5	0.072	2.54	1.85	0.073	6,000	0.07	0.35	12.9	8
MG(1)3005HF-(2)10	5	0.086	3.05	2.34	0.092	7,000	0.09	0.45	19.8	8
MG(1)3005XF-(2)10	5	0.099	3.51	3.37	0.133	8,000	0.11	0.55	20.8	8
MG(1)3005YF-(2)10	5	0.112	3.95	4.05	0.159	9,000	0.14	0.70	26.3	8
MG(1)3005ZF-(2)10	5	0.124	4.37	4.83	0.190	10,000	0.20	1.00	30.0	8
MG(1)3005MB-(2)10	5	0.072	2.54	1.85	0.073	6,000	0.07	0.35	12.9	8
MG(1)3005HB-(2)10	5	0.086	3.05	2.34	0.092	7,000	0.09	0.45	19.8	8
MG(1)3005XB-(2)10	5	0.099	3.51	3.37	0.133	8,000	0.11	0.55	20.8	8
MG(1)3005YB-(2)10	5	0.112	3.95	4.05	0.159	9,000	0.14	0.70	26.3	8
MG(1)3005ZB-(2)10	5	0.124	4.37	4.83	0.190	10,000	0.20	1.00	30.0	8
MG(1)3005UB-(2)10	5	0.147	5.22	6.64	0.261	12,000	0.33	1.65	32.7	8
MG(1)3005MS-(2)10	5	0.072	2.54	1.85	0.073	6,000	0.07	0.35	12.9	8
MG(1)3005HS-(2)10	5	0.086	3.05	2.34	0.092	7,000	0.09	0.45	19.8	8
MG(1)3005XS-(2)10	5	0.099	3.51	3.37	0.133	8,000	0.11	0.55	20.8	8
MG(1)3005YS-(2)10	5	0.112	3.95	4.05	0.159	9,000	0.14	0.70	26.3	8
MG(1)3012XF-(2)10	12	0.099	3.51	3.37	0.133	8,000	0.06	0.72	20.8	8
MG(1)3012YF-(2)10	12	0.112	3.95	4.05	0.159	9,000	0.07	0.84	26.3	8
MG(1)3012ZF-(2)10	12	0.124	4.37	4.83	0.190	10,000	0.10	1.20	30.0	8
MG(1)3012XB-(2)10	12	0.099	3.51	3.37	0.133	8,000	0.06	0.72	20.8	8
MG(1)3012YB-(2)10	12	0.112	3.95	4.05	0.159	9,000	0.07	0.84	26.3	8
MG(1)3012ZB-(2)10	12	0.124	4.37	4.83	0.190	10,000	0.10	1.20	30.0	8
MG(1)3012UB-(2)10	12	0.147	5.22	6.64	0.261	12,000	0.12	1.44	32.7	8
MG(1)3012VB-(2)10	12	0.177	6.25	8.85	0.348	14,000	0.15	1.80	38.8	8
MG(1)3012XS-(2)10	12	0.099	3.51	3.37	0.133	8,000	0.06	0.72	20.8	8
MG(1)3012YS-(2)10	12	0.112	3.95	4.05	0.159	9,000	0.07	0.84	26.3	8

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
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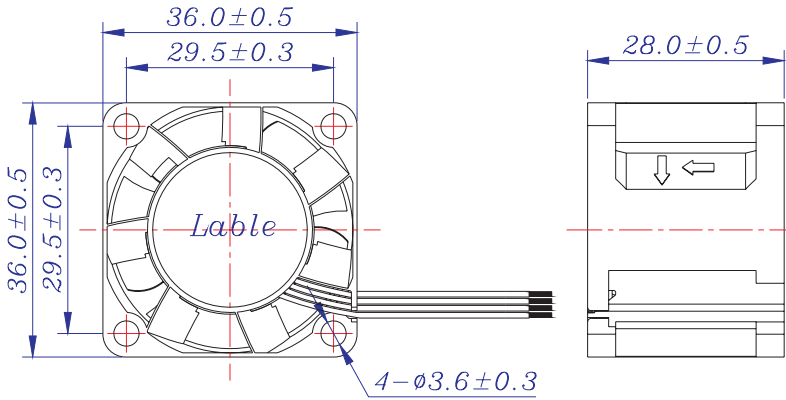
36x36x28mm series

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

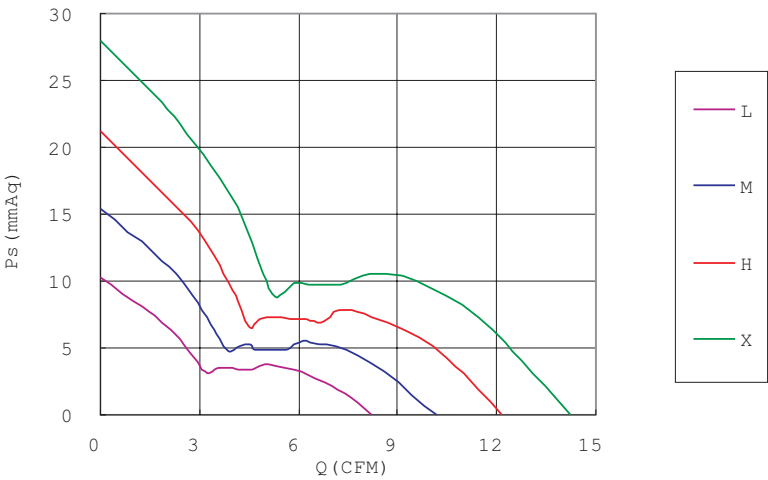
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)3612MB-(2)28	12	0.271	9.55	11.84	0.466	9,000	0.15	1.80	39.8	42
MG(1)3612HB-(2)28	12	0.345	12.18	17.40	0.685	11,000	0.20	2.40	45.6	42
MG(1)3612XB-(2)28	12	0.403	14.22	24.40	0.961	13,000	0.30	3.60	49.3	42
MG(1)3612YB-(2)28	12	0.467	16.48	32.20	1.268	15,000	0.40	4.80	53.2	42
MG(1)3612ZB-(2)28	12	0.567	20.03	46.60	1.835	18,000	0.60	7.20	58.8	42
MG(1)3612UB-(2)28	12	0.629	22.20	57.40	2.260	20,000	0.90	10.80	61.8	42
MG(1)3612VB-(2)28	12	0.705	24.88	69.50	2.736	22,000	1.20	14.40	63.2	42
MG(1)3624MB-(2)28	24	0.271	9.55	11.84	0.466	9,000	0.11	2.64	39.8	42
MG(1)3624HB-(2)28	24	0.345	12.18	17.40	0.685	11,000	0.16	3.84	45.6	42
MG(1)3624XB-(2)28	24	0.403	14.22	24.40	0.961	13,000	0.25	6.00	49.3	42

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
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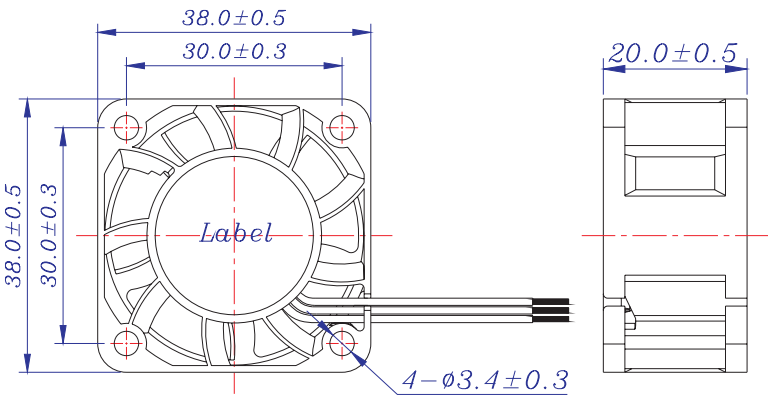
38x38x20mm series B

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

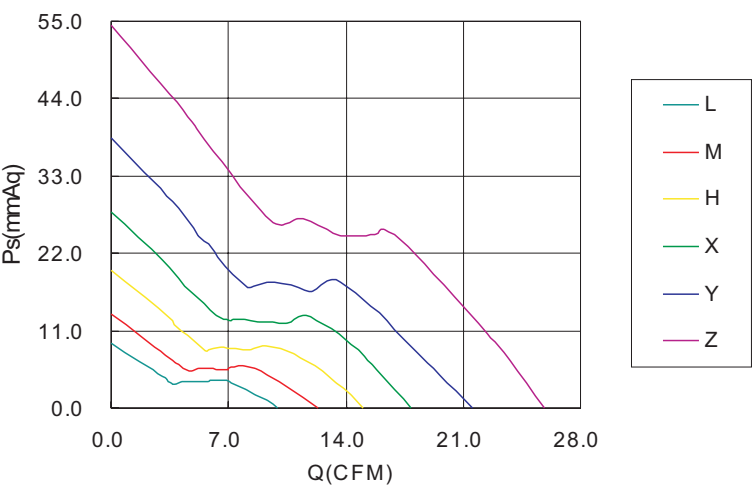
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)3812LB-(2)20	12	0.233	8.22	10.29	0.405	9,000	0.16	1.92	38.2	35
MG(1)3812MB-(2)20	12	0.288	10.17	15.45	0.608	11,000	0.22	2.64	43.3	35
MG(1)3812HB-(2)20	12	0.345	12.17	21.20	0.835	13,000	0.30	3.60	47.0	35
MG(1)3812XB-(2)20	12	0.403	14.21	28.00	1.102	15,000	0.40	4.80	50.5	35
MG(1)3824LB-(2)20	24	0.233	8.22	10.29	0.405	9,000	0.10	2.40	38.2	35
MG(1)3824MB-(2)20	24	0.288	10.17	15.45	0.608	11,000	0.15	3.60	43.3	35
MG(1)3824HB-(2)20	24	0.345	12.17	21.20	0.835	13,000	0.22	5.28	47.0	35
MG(1)3824XB-(2)20	24	0.403	14.21	28.00	1.102	15,000	0.33	7.92	50.5	35

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

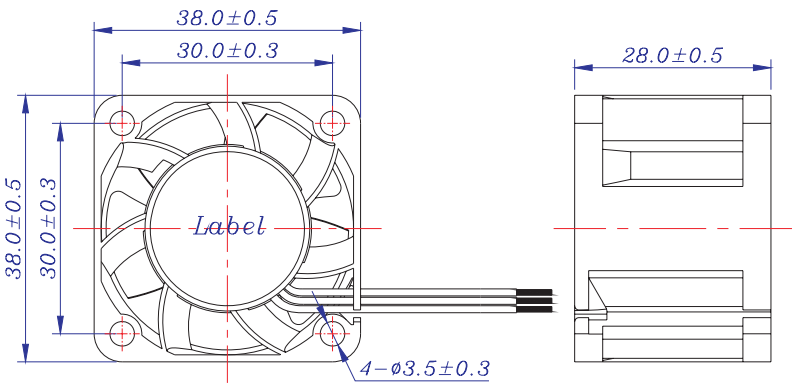
38x38x28mm series B

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

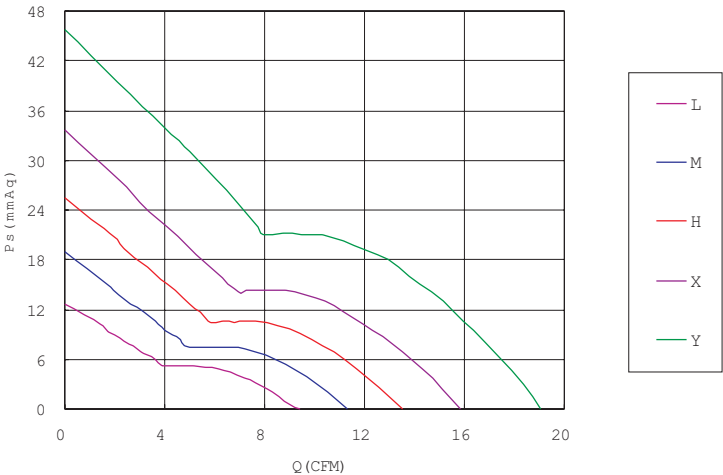
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)3812LB-(2)28	12	0.281	9.91	9.14	0.360	7,500	0.16	1.92	40.4	43
MG(1) 3812MB-(2)28	12	0.351	12.38	13.32	0.524	9,000	0.20	2.40	45.9	43
MG(1) 3812HB-(2)28	12	0.426	15.05	19.50	0.768	11,000	0.28	3.36	50.0	43
MG(1) 3812XB-(2)28	12	0.507	17.91	27.90	1.098	13,000	0.50	6.00	55.1	43
MG(1)3812YB-(2)28	12	0.611	21.56	38.50	1.516	15,000	0.60	7.20	58.4	43
MG(1)3812ZB-(2)28	12	0.731	25.82	54.50	2.146	18,000	1.00	12.00	63.5	43
MG(1)3824LB-(2)28	24	0.281	9.91	9.14	0.360	7,500	0.11	2.64	40.4	43
MG(1)3824MB-(2)28	24	0.351	12.38	13.32	0.524	9,000	0.15	3.60	45.9	43
MG(1)3824HB-(2)28	24	0.426	15.05	19.50	0.768	11,000	0.18	4.32	50.0	43
MG(1)3824XB-(2)28	24	0.507	17.91	27.90	1.098	13,000	0.25	6.00	55.1	43

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

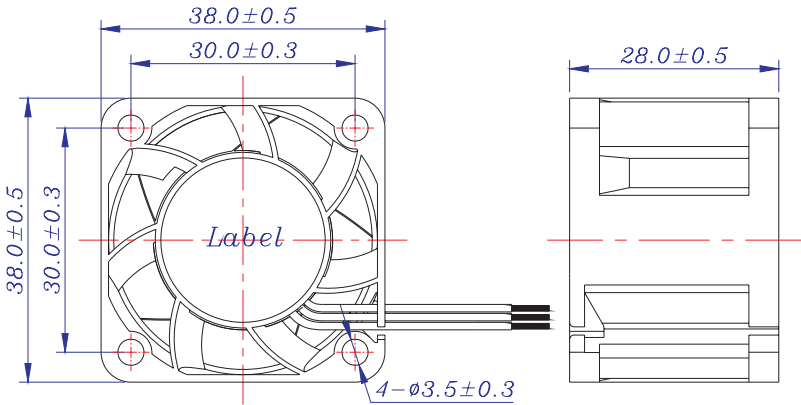
38x38x28mm series C

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

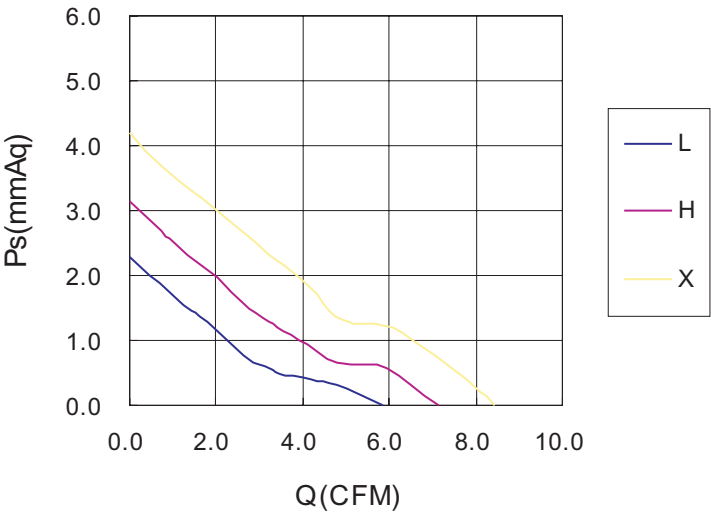
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)3812LB-(2)28	12	0.267	9.41	12.74	0.502	9,000	0.16	1.92	34.4	43
MG(1)3812MB-(2)28	12	0.321	11.34	18.90	0.744	11,000	0.20	2.40	39.8	43
MG(1)3812HB-(2)28	12	0.384	13.54	25.50	1.004	13,000	0.28	3.36	44.6	43
MG(1)3812XB-(2)28	12	0.449	15.84	33.60	1.323	15,000	0.50	6.00	48.6	43
MG(1)3812YB-(2)28	12	0.540	19.07	45.70	1.799	18,000	0.60	7.20	53.0	43
MG(1)3824LB-(2)28	24	0.267	9.41	12.74	0.502	9,000	0.11	2.64	34.4	43
MG(1)3824MB-(2)28	24	0.321	11.34	18.90	0.744	11,000	0.15	3.60	39.8	43
MG(1)3824HB-(2)28	24	0.384	13.54	25.50	1.004	13,000	0.18	4.32	44.6	43
MG(1)3824XB-(2)28	24	0.449	15.84	33.60	1.323	15,000	0.25	6.00	48.6	43

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

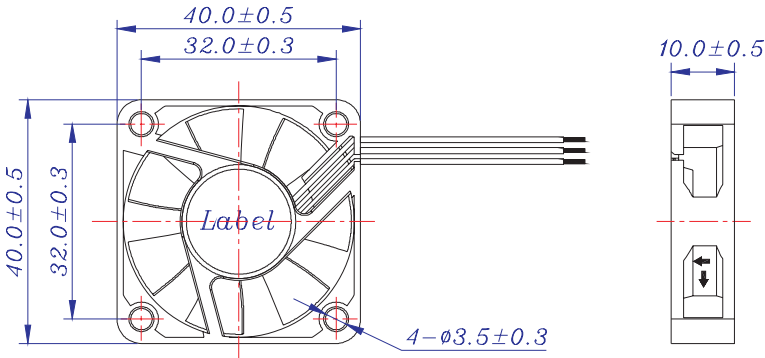
40x40x10mm series B

Bearing Type	☐ 2 Ball	☒ Sleeve	☐ Rifle	☒ FDB
Speed Control	☒ Voltage	☐ Temperature	☐ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446

Protechnic Products

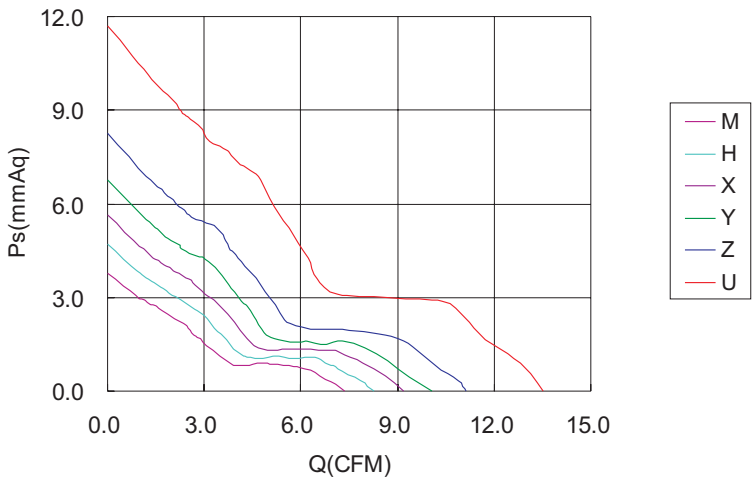
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)4005LF-(2)10	5	0.166	5.85	2.29	0.090	4,600	0.15	0.75	19.8	12
MG(1)4005HF-(2)10	5	0.203	7.15	3.13	0.123	5,500	0.25	1.25	25.9	12
MG(1)4005XF-(2)10	5	0.239	8.43	4.21	0.166	6,400	0.30	1.50	30.4	12
MG(1)4012LF-(2)10	12	0.166	5.85	2.29	0.090	4,600	0.08	0.96	19.8	12
MG(1)4012HF-(2)10	12	0.203	7.15	3.13	0.123	5,500	0.11	1.32	25.9	12
MG(1)4012XF-(2)10	12	0.239	8.43	4.21	0.166	6,400	0.13	1.56	30.4	12

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

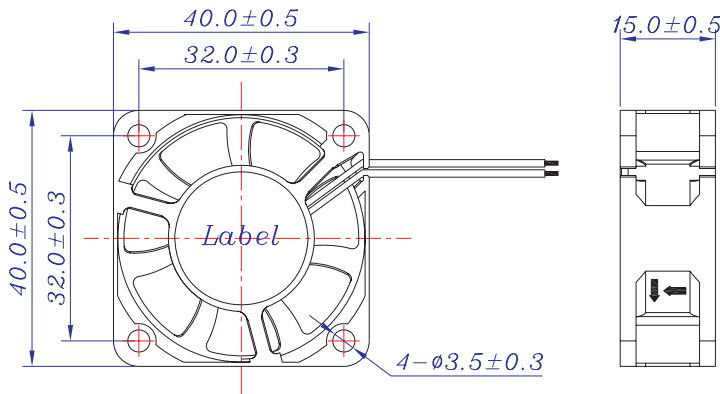
40x40x15mm series B

Bearing Type	☒ 2 Ball	☒ Sleeve	☐ Rifle	☒ FDB
Speed Control	☒ Voltage	☐ Temperature	☐ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)4005MF-(2)15	5	0.209	7.35	3.79	0.150	5,400	0.20	1.00	26.1	19
MG(1)4005HF-(2)15	5	0.235	8.27	4.72	0.187	6,000	0.26	1.30	27.3	19
MG(1)4005XF-(2)15	5	0.261	9.18	5.63	0.223	6,600	0.30	1.50	30.3	19
MG(1)4005YF-(2)15	5	0.286	10.08	6.77	0.268	7,200	0.36	1.80	32.8	19
MG(1)4005MS-(2)15	5	0.209	7.35	3.79	0.150	5,400	0.20	1.00	26.1	19
MG(1)4005HS-(2)15	5	0.235	8.27	4.72	0.187	6,000	0.26	1.30	27.3	19
MG(1)4005XS-(2)15	5	0.261	9.18	5.63	0.223	6,600	0.30	1.50	30.3	19
MG(1)4005YS-(2)15	5	0.286	10.08	6.77	0.268	7,200	0.36	1.80	32.8	19
MG(1)4005MB-(2)15	5	0.209	7.35	3.79	0.150	5,400	0.20	1.00	26.1	19
MG(1)4005HB-(2)15	5	0.235	8.27	4.72	0.187	6,000	0.26	1.30	27.3	19
MG(1)4005XB-(2)15	5	0.261	9.18	5.63	0.223	6,600	0.30	1.50	30.3	19
MG(1)4005YB-(2)15	5	0.286	10.08	6.77	0.268	7,200	0.36	1.80	32.8	19
MG(1)4012MF-(2)15	12	0.209	7.35	3.79	0.150	5,400	0.10	1.20	26.1	19
MG(1)4012HF-(2)15	12	0.235	8.27	4.72	0.187	6,000	0.11	1.32	27.3	19
MG(1)4012XF-(2)15	12	0.261	9.18	5.63	0.223	6,600	0.13	1.56	30.3	19
MG(1)4012YF-(2)15	12	0.286	10.08	6.77	0.268	7,200	0.15	1.80	32.8	19
MG(1)4012MS-(2)15	12	0.209	7.35	3.79	0.150	5,400	0.10	1.20	26.1	19
MG(1)4012HS-(2)15	12	0.235	8.27	4.72	0.187	6,000	0.11	1.32	27.3	19
MG(1)4012XS-(2)15	12	0.261	9.18	5.63	0.223	6,600	0.13	1.56	30.3	19
MG(1)4012YS-(2)15	12	0.286	10.08	6.77	0.268	7,200	0.15	1.80	32.8	19
MG(1)4012ZS-(2)15	12	0.317	11.14	8.27	0.327	8,000	0.20	2.40	35.3	19
MG(1)4012MB-(2)15	12	0.209	7.35	3.79	0.150	5,400	0.10	1.20	26.1	19
MG(1)4012HB-(2)15	12	0.235	8.27	4.72	0.187	6,000	0.11	1.32	27.3	19
MG(1)4012XB-(2)15	12	0.261	9.18	5.63	0.223	6,600	0.13	1.56	30.3	19
MG(1)4012YB-(2)15	12	0.286	10.08	6.77	0.268	7,200	0.15	1.80	32.8	19
MG(1)4012ZB-(2)15	12	0.317	11.14	8.27	0.327	8,000	0.20	2.40	35.3	19
MG(1)4012UB-(2)15	12	0.384	13.53	11.69	0.462	9,500	0.30	3.60	41.5	19
MG(1)4024MF-(2)15	24	0.209	7.35	3.79	0.150	5,400	0.08	1.92	26.1	19
MG(1)4024HF-(2)15	24	0.235	8.27	4.72	0.187	6,000	0.09	2.16	27.3	19
MG(1)4024XF-(2)15	24	0.261	9.18	5.63	0.223	6,600	0.10	2.40	30.3	19
MG(1)4024MS-(2)15	24	0.209	7.35	3.79	0.150	5,400	0.08	1.92	26.1	19
MG(1)4024HS-(2)15	24	0.235	8.27	4.72	0.187	6,000	0.09	2.16	27.3	19
MG(1)4024XS-(2)15	24	0.261	9.18	5.63	0.223	6,600	0.10	2.40	30.3	19
MG(1)4024YS-(2)15	24	0.286	10.08	6.77	0.268	7,200	0.11	2.64	32.8	19
MG(1)4024ZS-(2)15	24	0.317	11.14	8.27	0.327	8,000	0.13	3.12	35.3	19

Remarks:

(1)-Electric Characteristics:

A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.

(2)-Function:

A: None Automatic Restart;

O: Automatic Restart & Locked Current Protection;

R: Rotate Detection Automatic Restart & Locked Current Protection;

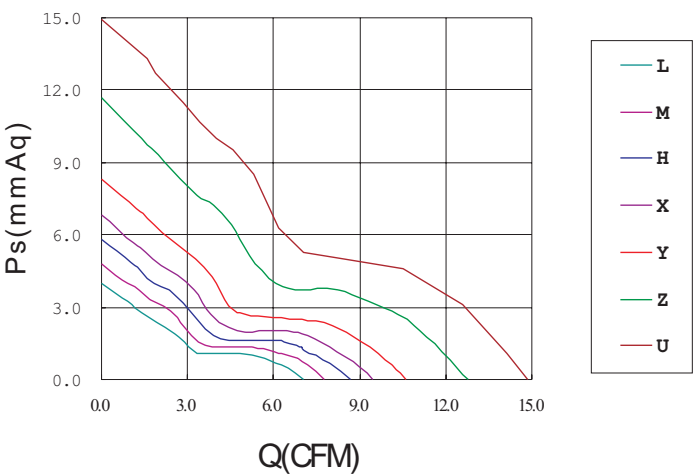
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;

The spec is for reference only, it's subject to change without any prior notice

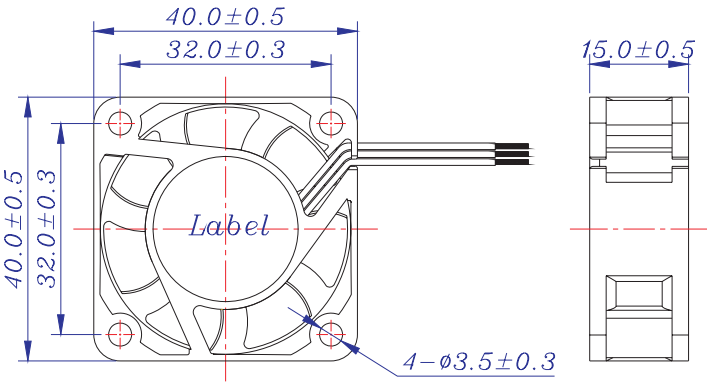
40x40x15mm series C

Bearing Type	☒ 2 Ball	☐ Sleeve	☒ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446

Protechnic Products

Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)4005LB-(2)15	5	0.199	7.04	3.97	0.156	5,400	0.18	0.90	25.8	22
MG(1)4005MB-(2)15	5	0.220	7.78	4.82	0.190	6,000	0.20	1.00	30.8	22
MG(1)4005HB-(2)15	5	0.246	8.70	5.80	0.228	6,600	0.26	1.30	32.5	22
MG(1)4005XB-(2)15	5	0.268	9.46	6.80	0.268	7,200	0.30	1.50	33.2	22
MG(1)4005YB-(2)15	5	0.300	10.60	8.32	0.328	8,000	0.36	1.80	36.5	22
MG(1)4005LR-(2)15	5	0.199	7.04	3.97	0.156	5,400	0.18	0.90	25.8	22
MG(1)4005MR-(2)15	5	0.220	7.78	4.82	0.190	6,000	0.20	1.00	30.8	22
MG(1)4005HR-(2)15	5	0.246	8.70	5.80	0.228	6,600	0.26	1.30	32.5	22
MG(1)4005XR-(2)15	5	0.268	9.46	6.80	0.268	7,200	0.30	1.50	33.2	22
MG(1)4005YR-(2)15	5	0.300	10.60	8.32	0.328	8,000	0.36	1.80	36.5	22
MG(1)4012LB-(2)15	12	0.199	7.04	3.97	0.156	5,400	0.09	1.08	25.8	22
MG(1)4012MB-(2)15	12	0.220	7.78	4.82	0.190	6,000	0.10	1.20	30.8	22
MG(1)4012HB-(2)15	12	0.246	8.70	5.80	0.228	6,600	0.11	1.32	32.5	22
MG(1)4012XB-(2)15	12	0.268	9.46	6.80	0.268	7,200	0.13	1.56	33.2	22
MG(1)4012YB-(2)15	12	0.300	10.60	8.32	0.328	8,000	0.15	1.80	36.5	22
MG(1)4012ZB-(2)15	12	0.361	12.75	11.66	0.460	9,500	0.20	2.40	40.2	22
MG(1)4012UB-(2)15	12	0.420	14.84	14.90	0.587	11,000	0.30	3.60	47.8	22
MG(1)4012LR-(2)15	12	0.199	7.04	3.97	0.156	5,400	0.09	1.08	25.8	22
MG(1)4012MR-(2)15	12	0.220	7.78	4.82	0.190	6,000	0.10	1.20	30.8	22
MG(1)4012HR-(2)15	12	0.246	8.70	5.80	0.228	6,600	0.11	1.32	32.5	22
MG(1)4012XR-(2)15	12	0.268	9.46	6.80	0.268	7,200	0.13	1.56	33.2	22
MG(1)4012YR-(2)15	12	0.300	10.60	8.32	0.328	8,000	0.15	1.80	36.5	22
MG(1)4012ZR-(2)15	12	0.361	12.75	11.66	0.460	9,500	0.20	2.40	40.2	22
MG(1)4024LB-(2)15	24	0.199	7.04	3.97	0.156	5,400	0.07	1.68	25.8	22
MG(1)4024MB-(2)15	24	0.220	7.78	4.82	0.190	6,000	0.08	1.92	30.8	22
MG(1)4024HB-(2)15	24	0.246	8.70	5.80	0.228	6,600	0.09	2.16	32.5	22
MG(1)4024XB-(2)15	24	0.268	9.46	6.80	0.268	7,200	0.10	2.40	33.2	22
MG(1)4024YB-(2)15	24	0.300	10.60	8.32	0.328	8,000	0.11	2.64	36.5	22
MG(1)4024ZB-(2)15	24	0.361	12.75	11.66	0.460	9,500	0.13	3.12	40.2	22
MG(1)4024UB-(2)15	24	0.420	14.84	14.90	0.587	11,000	0.17	4.08	47.8	22
MG(1)4024LR-(2)15	24	0.199	7.04	3.97	0.156	5,400	0.07	1.68	25.8	22
MG(1)4024MR-(2)15	24	0.220	7.78	4.82	0.190	6,000	0.08	1.92	30.8	22
MG(1)4024HR-(2)15	24	0.246	8.70	5.80	0.228	6,600	0.09	2.16	32.5	22
MG(1)4024XR-(2)15	24	0.268	9.46	6.80	0.268	7,200	0.10	2.40	33.2	22
MG(1)4024YR-(2)15	24	0.300	10.60	8.32	0.328	8,000	0.11	2.64	36.5	22
MG(1)4024ZR-(2)15	24	0.361	12.75	11.66	0.460	9,500	0.13	3.12	40.2	22

Remarks:

(1)-Electric Characteristics:

A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.

(2)-Function:

A: None Automatic Restart;

O: Automatic Restart & Locked Current Protection;

R: Rotate Detection Automatic Restart & Locked Current Protection;

S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;

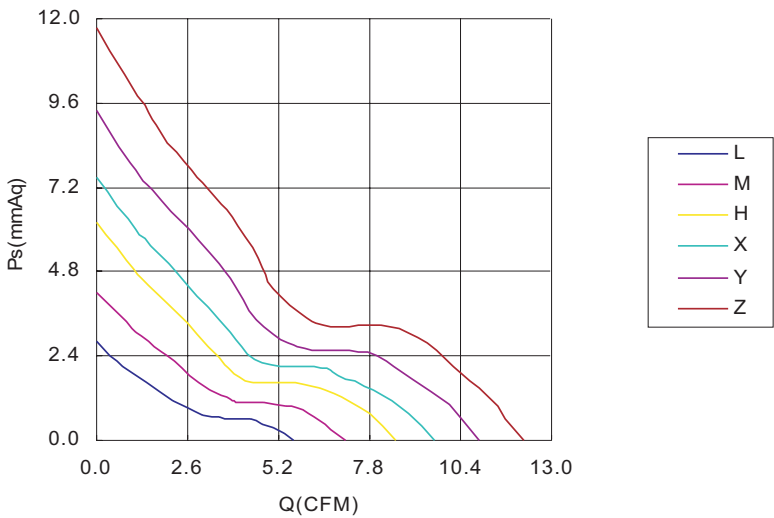
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).

The spec is for reference only, it's subject to change without any prior notice

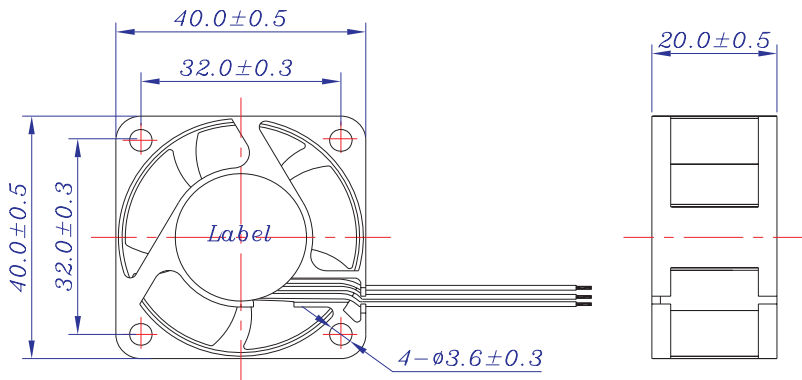
40x40x20mm series B

Bearing Type	☒ 2 Ball	☐ Sleeve	☒ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☐ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446

Protechnic Products

Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)4005LB-(2)20	5	0.159	5.63	2.83	0.111	4,800	0.22	1.10	25.7	26
MG(1)4005MB-(2)20	5	0.202	7.12	4.21	0.166	6,000	0.28	1.40	27.7	26
MG(1)4005HB-(2)20	5	0.242	8.55	6.19	0.244	7,200	0.32	1.60	31.6	26
MG(1)4005XB-(2)20	5	0.273	9.65	7.50	0.295	8,000	0.43	2.15	33.8	26
MG(1)4012LB-(2)20	12	0.159	5.63	2.83	0.111	4,800	0.09	1.08	25.7	26
MG(1)4012MB-(2)20	12	0.202	7.12	4.21	0.166	6,000	0.11	1.32	27.7	26
MG(1)4012HB-(2)20	12	0.242	8.55	6.19	0.244	7,200	0.13	1.56	31.6	26
MG(1)4012XB-(2)20	12	0.273	9.65	7.50	0.295	8,000	0.15	1.80	33.8	26
MG(1)4012YB-(2)20	12	0.310	10.94	9.38	0.369	9,000	0.18	2.16	36.6	26
MG(1)4012ZB-(2)20	12	0.346	12.20	11.74	0.462	10,000	0.22	2.64	39.3	26
MG(1)4024LB-(2)20	24	0.159	5.63	2.83	0.111	4,800	0.07	1.68	25.7	26
MG(1)4024MB-(2)20	24	0.202	7.12	4.21	0.166	6,000	0.09	2.16	27.7	26
MG(1)4024HB-(2)20	24	0.242	8.55	6.19	0.244	7,200	0.11	2.64	31.6	26
MG(1)4024XB-(2)20	24	0.273	9.65	7.50	0.295	8,000	0.13	3.12	33.8	26
MG(1)4024YB-(2)20	24	0.310	10.94	9.38	0.369	9,000	0.14	3.36	36.6	26

Remarks:

(1)-Electric Characteristics:

A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.

(2)-Function:

A: None Automatic Restart;

O: Automatic Restart & Locked Current Protection;

R: Rotate Detection Automatic Restart & Locked Current Protection;

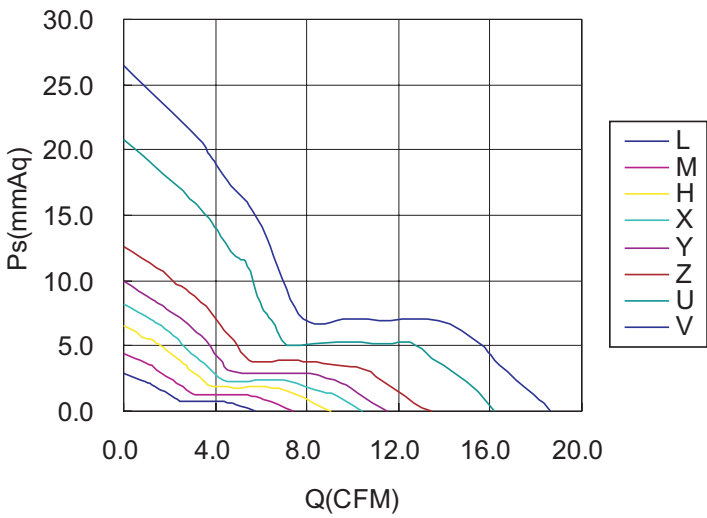
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;

The spec is for reference only, it's subject to change without any prior notice

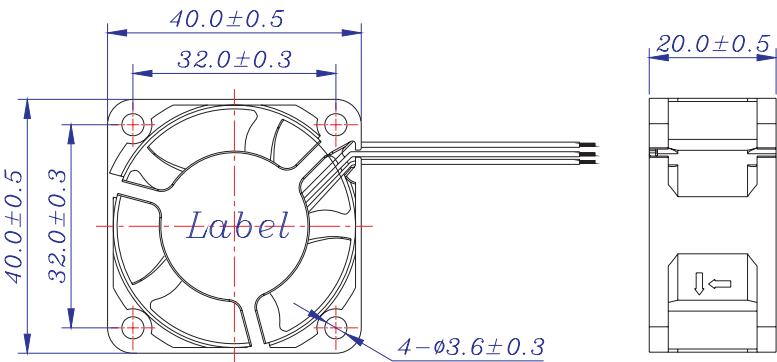
40x40x20mm series D

Bearing Type	☒ 2 Ball	☐ Sleeve	☒ Rifle	☒ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446

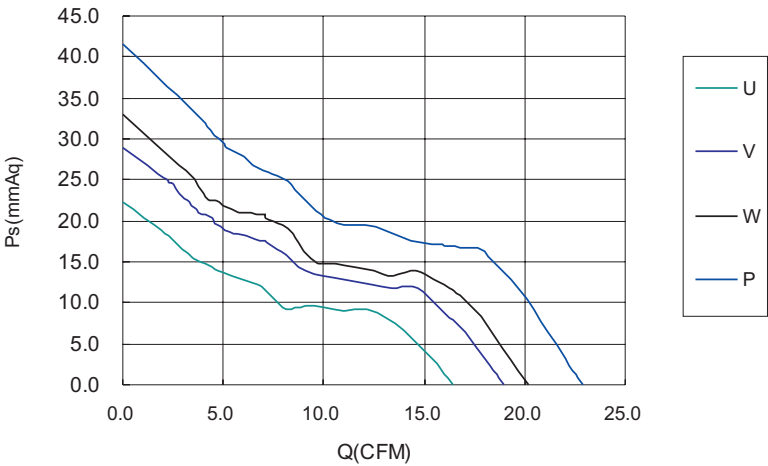
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)4005LF-(2)20	5	0.164	5.78	2.86	0.113	4,800	0.22	1.10	20.2	30
MG(1)4005MF-(2)20	5	0.211	7.44	4.42	0.174	6,000	0.28	1.40	25.9	30
MG(1)4005HF-(2)20	5	0.257	9.06	6.50	0.256	7,200	0.32	1.60	30.1	30
MG(1)4005LR-(2)20	5	0.164	5.78	2.86	0.113	4,800	0.22	1.10	20.3	31
MG(1)4005MR-(2)20	5	0.211	7.44	4.42	0.174	6,000	0.28	1.40	24.9	31
MG(1)4005HR-(2)20	5	0.257	9.06	6.50	0.256	7,200	0.32	1.60	30.5	31
MG(1)4005LB-(2)20	5	0.164	5.78	2.86	0.113	4,800	0.22	1.10	20.3	32
MG(1)4005MB-(2)20	5	0.211	7.44	4.42	0.174	6,000	0.28	1.40	26.3	32
MG(1)4005HB-(2)20	5	0.257	9.06	6.50	0.256	7,200	0.32	1.60	31.3	32
MG(1)4005XB-(2)20	5	0.296	10.46	8.25	0.325	8,000	0.43	2.15	33.7	32
MG(1)4012MF-(2)20	12	0.164	5.78	2.86	0.113	4,800	0.11	1.32	20.2	30
MG(1)4012HF-(2)20	12	0.211	7.44	4.42	0.174	6,000	0.13	1.56	25.9	30
MG(1)4012XF-(2)20	12	0.257	9.06	6.50	0.256	7,200	0.15	1.80	30.1	30
MG(1)4012MR-(2)20	12	0.164	5.78	2.86	0.113	4,800	0.11	1.32	20.3	31
MG(1)4012HR-(2)20	12	0.211	7.44	4.42	0.174	6,000	0.13	1.56	24.9	31
MG(1)4012XR-(2)20	12	0.257	9.06	6.50	0.256	7,200	0.15	1.80	30.5	31
MG(1)4012YR-(2)20	12	0.296	10.46	8.25	0.325	8,000	0.18	2.16	33.9	31
MG(1)4012LB-(2)20	12	0.164	5.78	2.86	0.113	4,800	0.09	1.08	20.3	32
MG(1)4012MB-(2)20	12	0.211	7.44	4.42	0.174	6,000	0.11	1.32	26.3	32
MG(1)4012HB-(2)20	12	0.257	9.06	6.50	0.256	7,200	0.13	1.56	31.3	32
MG(1)4012XB-(2)20	12	0.296	10.46	8.25	0.325	8,000	0.15	1.80	33.7	32
MG(1)4012YB-(2)20	12	0.327	11.54	9.90	0.390	9,000	0.18	2.16	37.8	32
MG(1)4012ZB-(2)20	12	0.380	13.42	12.58	0.495	10,000	0.22	2.64	39.5	32
MG(1)4012UB-(2)20	12	0.458	16.16	20.80	0.819	13,000	0.30	3.60	46.0	32
MG(1)4024LF-(2)20	24	0.164	5.78	2.86	0.113	4,800	0.07	1.68	20.2	30
MG(1)4024MF-(2)20	24	0.211	7.44	4.42	0.174	6,000	0.09	2.16	25.9	30
MG(1)4024HF-(2)20	24	0.257	9.06	6.50	0.256	7,200	0.11	2.64	30.1	30
MG(1)4024LR-(2)20	24	0.164	5.78	2.86	0.113	4,800	0.07	1.68	20.3	31
MG(1)4024MR-(2)20	24	0.211	7.44	4.42	0.174	6,000	0.09	2.16	24.9	31
MG(1)4024HR-(2)20	24	0.257	9.06	6.50	0.256	7,200	0.11	2.64	30.5	31
MG(1)4024LB-(2)20	24	0.164	5.78	2.86	0.113	4,800	0.07	1.68	20.3	32
MG(1)4024MB-(2)20	24	0.211	7.44	4.42	0.174	6,000	0.09	2.16	26.3	32
MG(1)4024HB-(2)20	24	0.257	9.06	6.50	0.256	7,200	0.11	2.64	31.3	32
MG(1)4024XB-(2)20	24	0.296	10.46	8.25	0.325	8,000	0.13	3.12	33.7	32
MG(1)4024YB-(2)20	24	0.327	11.54	9.90	0.390	9,000	0.14	3.36	37.8	32
MG(1)4024ZB-(2)20	24	0.380	13.42	12.58	0.495	10,000	0.16	3.84	39.5	32

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

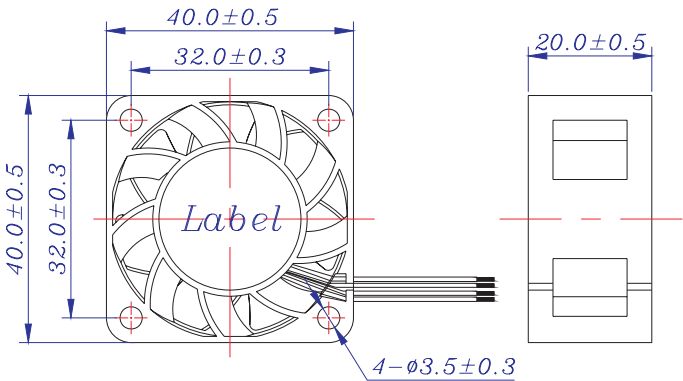
40x40x20mm series E

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

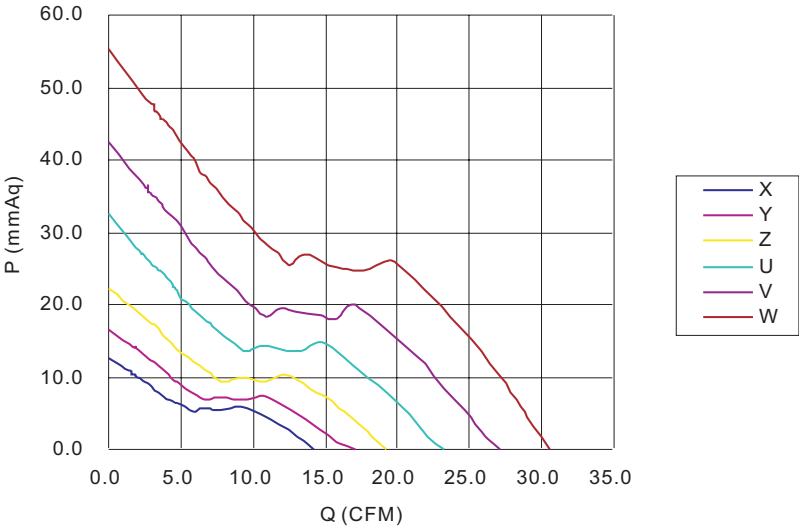
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)4012UB-(2)20	12	0.465	16.43	22.20	0.874	13,000	0.30	3.60	51.3	40.5
MG(1)4012VB-(2)20	12	0.538	18.98	28.90	1.138	15,000	0.50	6.00	55.1	40.5
MG(1)4012WB-(2)20	12	0.571	20.16	33.10	1.303	16,000	0.60	7.20	56.5	40.5
MG(1)4012PB-(2)20	12	0.648	22.86	41.60	1.638	18,000	0.80	9.60	59.2	40.5

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

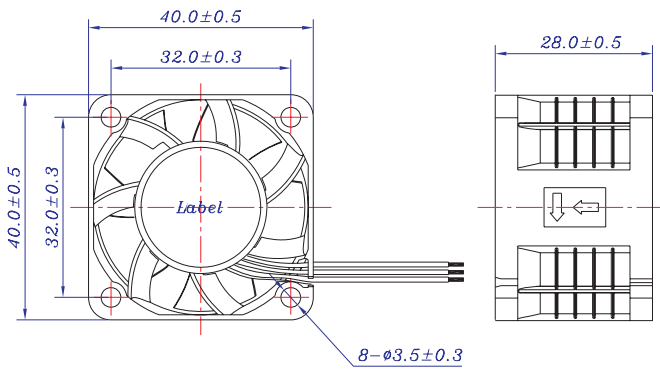
40x40x28mm series B

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

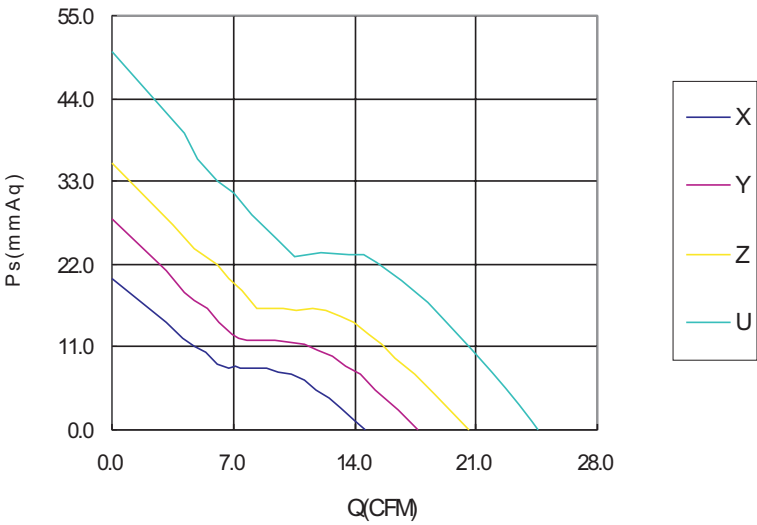
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)4012XB-(2)28	12	0.402	14.18	12.60	0.496	8,000	0.25	3.00	41.1	45
MG(1)4012YB-(2)28	12	0.484	17.10	16.60	0.654	9,500	0.38	4.56	46.4	45
MG(1)4012ZB-(2)28	12	0.546	19.27	22.30	0.878	11,000	0.40	4.80	50.0	45
MG(1)4012UB-(2)28	12	0.657	23.20	32.50	1.280	13,000	0.55	6.60	55.3	45
MG(1)4012VB-(2)28	12	0.767	27.09	42.50	1.673	15,000	0.80	9.60	59.1	45
MG(1)4012WB-(2)28	12	0.921	32.50	61.50	2.420	18,000	1.20	14.40	64.4	45
MG(1)4024XB-(2)28	24	0.402	14.18	12.60	0.496	8,000	0.12	2.88	41.1	45
MG(1)4024YB-(2)28	24	0.484	17.10	16.60	0.654	9,500	0.15	3.60	46.4	45
MG(1)4024ZB-(2)28	24	0.546	19.27	22.30	0.878	11,000	0.20	4.80	50.0	45
MG(1)4024UB-(2)28	24	0.657	23.20	32.50	1.280	13,000	0.30	7.20	55.3	45

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

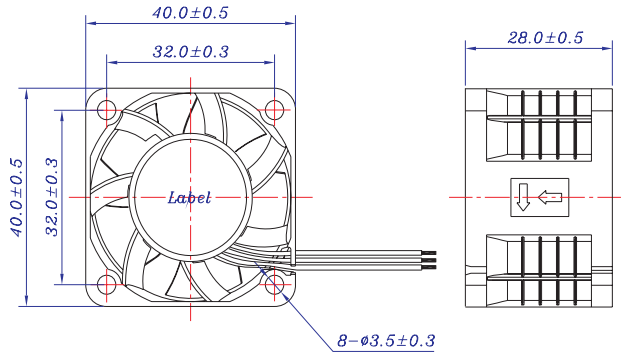
40x40x28mm series C

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

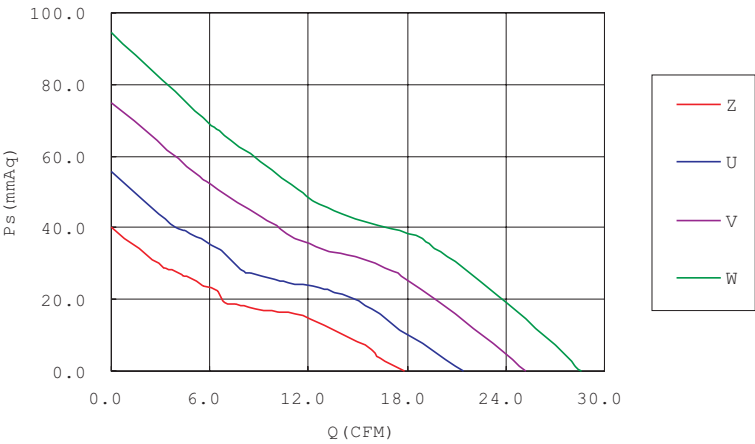
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)4012XB-(2)28	12	0.415	14.65	20.20	0.795	11,000	0.25	3.00	41.1	45
MG(1)4012YB-(2)28	12	0.501	17.69	28.00	1.102	13,000	0.38	4.56	45.6	45
MG(1)4012ZB-(2)28	12	0.582	20.55	35.40	1.394	15,000	0.40	4.80	49.8	45
MG(1)4012UB-(2)28	12	0.696	24.56	50.90	2.004	18,000	0.55	6.60	53.8	45

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

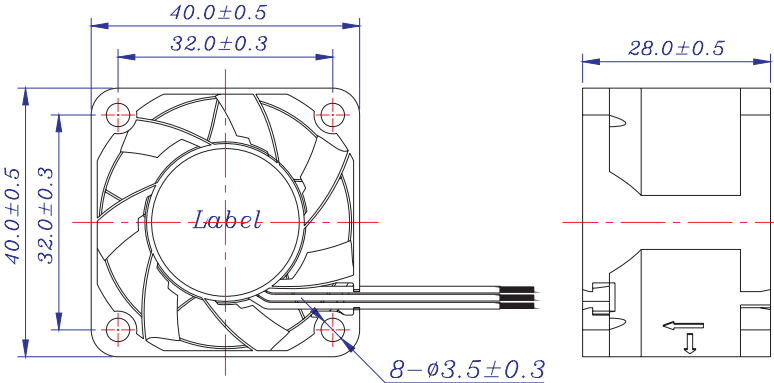
40x40x28mm series D

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

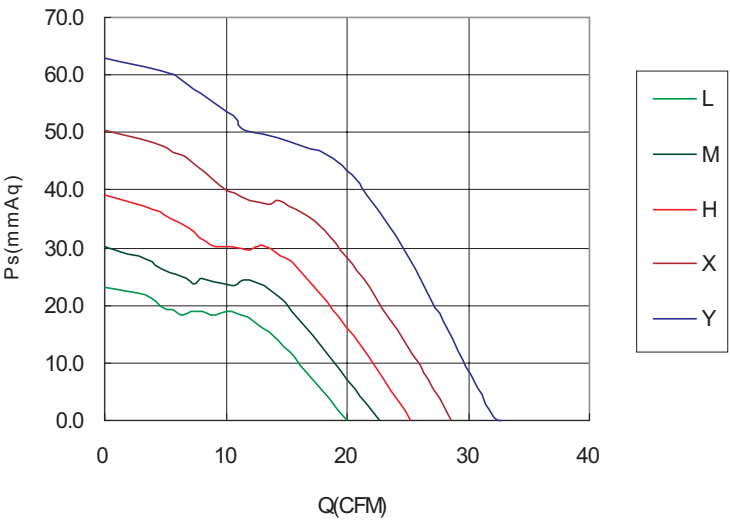
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)4012ZB-(2)28	12	0.506	17.86	40.20	1.583	15,000	0.40	4.80	47.4	82
MG(1)4012UB-(2)28	12	0.607	21.44	55.90	2.201	18,000	0.55	6.60	51.1	82
MG(1)4012VB-(2)28	12	0.714	25.22	74.70	2.941	21,000	0.80	9.60	56.5	82
MG(1)4012WB-(2)28	12	0.809	28.57	94.40	3.717	24,000	1.20	14.40	60.2	82
MG(1)4024ZB-(2)28	24	0.506	17.86	40.20	1.583	15,000	0.20	4.80	47.4	82
MG(1)4024UB-(2)28	24	0.607	21.44	55.90	2.201	18,000	0.30	7.20	51.1	82

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

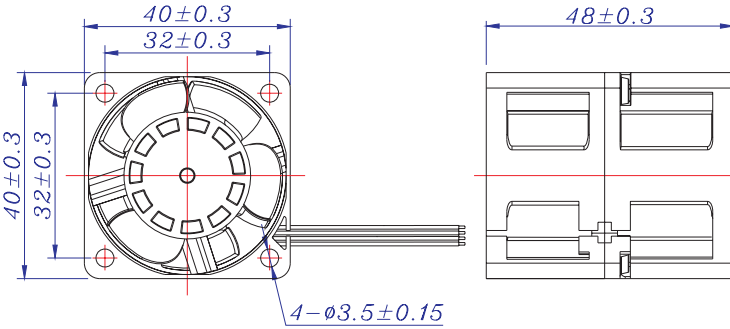
40x40x48mm series

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance	☒ ±10% Speed tolerance		
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

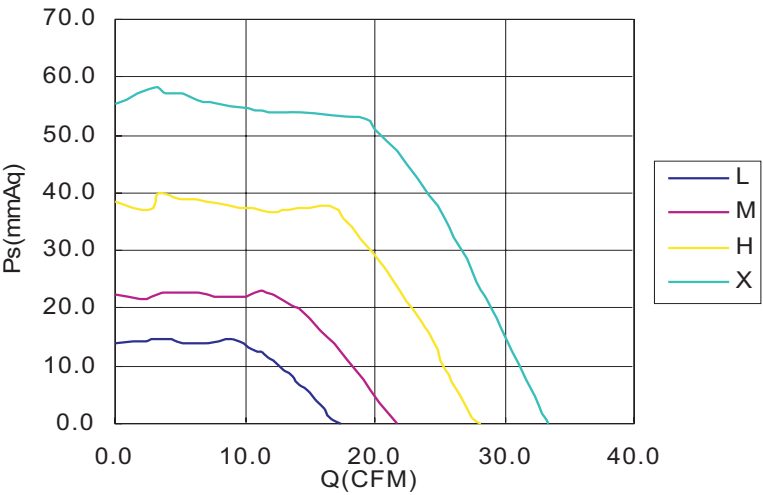
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)4012LB-(2)48	12	0.560	20.06	23.20	0.920	11,000/10,000	0.60	7.20	54.2	88
MG(1)4012MB-(2)48	12	0.640	22.65	30.20	1.190	12,500/11,500	0.75	9.00	57.2	88
MG(1)4012HB-(2)48	12	0.710	25.24	39.10	1.540	14,000/12,500	0.95	11.40	59.4	88
MG(1)4012XB-(2)48	12	0.800	28.54	50.40	1.980	16,000/13,500	1.40	16.80	64.2	88
MG(1)4012YB-(2)48	12	0.930	32.81	62.80	2.470	18,000/15,500	2.00	24.00	66.0	88

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

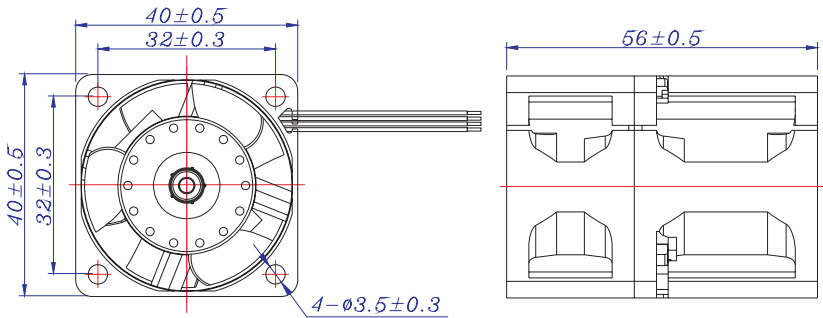
40x40x56mm series A

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446

Protechnic Products

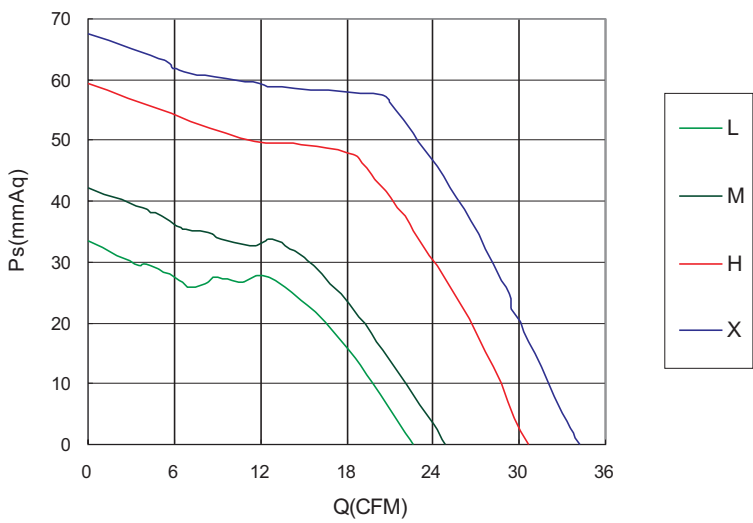
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)4012LB-(2)56	12	0.491	17.32	14.10	0.555	8,000	0.90	10.80	51.1	112
MG(1)4012MB-(2)56	12	0.615	21.72	22.20	0.874	10,000	1.20	14.40	58.1	112
MG(1)4012HB-(2)56	12	0.800	28.24	38.60	1.520	13,000	1.50	18.00	63.8	112
MG(1)4012XB-(2)56	12	0.946	33.40	55.40	2.181	15,000	2.00	24.00	70.1	112

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

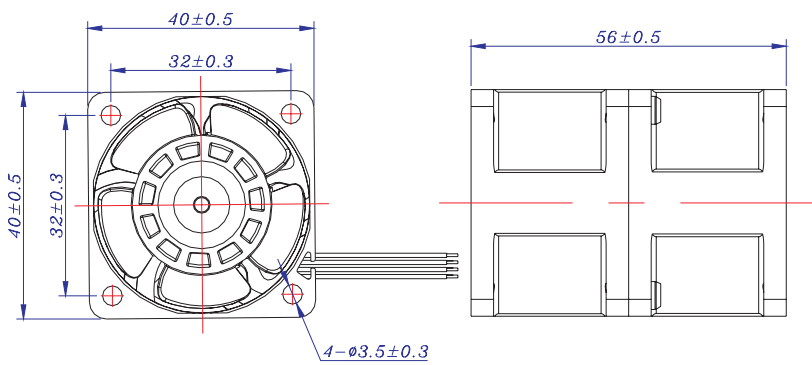
40x40x56mm series B

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446

Protechnic Products

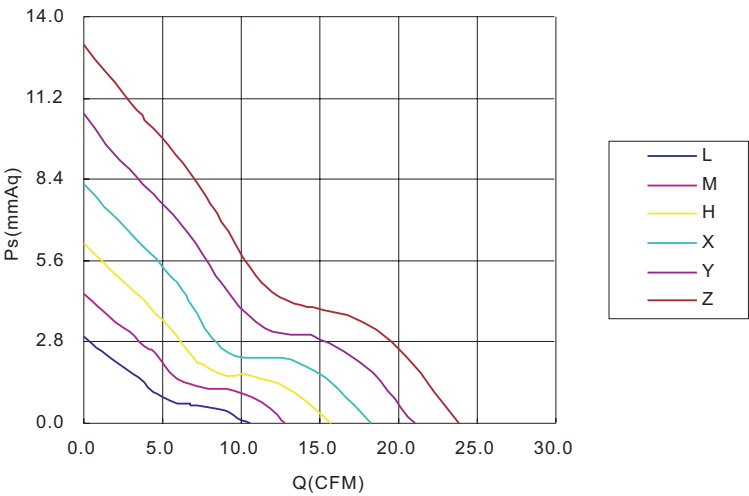
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)4012LB-(2)56	12	0.640	22.60	33.60	1.320	14,000/11,000	0.90	10.80	57.0	95
MG(1)4012MB-(2)56	12	0.700	24.90	42.30	1.660	16,000/11,500	1.20	14.40	59.5	95
MG(1)T4012HB-(2)56	12	0.860	30.60	59.50	2.340	18,500/15,500	1.50	18.00	63.5	95
MG(1)T4012XB-(2)56	12	0.970	34.20	67.60	2.660	20,000/17,500	2.00	24.00	67.8	95

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

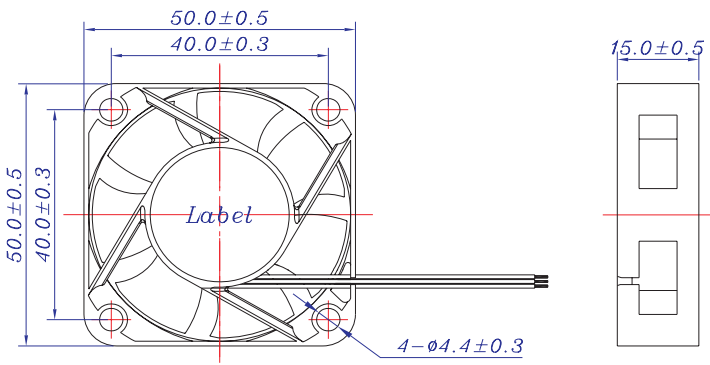
50x50x15mm series

Bearing Type	☒ 2 Ball	☐ Sleeve	☒ Rifle	☒ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

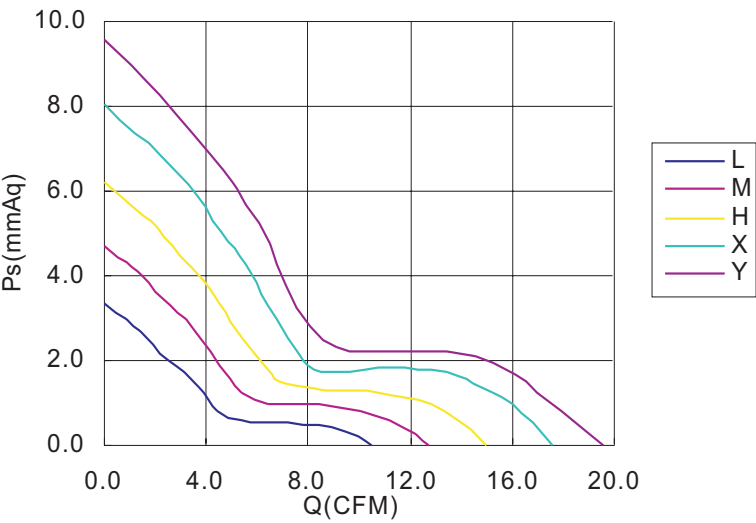
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)5005LR-(2)15	5	0.300	10.58	2.97	0.117	4,000	0.17	0.85	26.5	29
MG(1) 5005MR-(2)15	5	0.363	12.82	4.47	0.176	5,000	0.25	1.25	29.7	29
MG(1) 5005HR-(2)15	5	0.444	15.68	6.23	0.245	6,000	0.33	1.65	33.5	29
MG(1) 5005XR-(2)15	5	0.519	18.31	8.26	0.325	7,000	0.50	2.50	37.6	29
MG(1)5005LB-(2)15	5	0.300	10.58	2.97	0.117	4,000	0.17	0.85	27.4	29
MG(1) 5005MB-(2)15	5	0.363	12.82	4.47	0.176	5,000	0.25	1.25	31.0	29
MG(1) 5005HB-(2)15	5	0.444	15.68	6.23	0.245	6,000	0.33	1.65	34.7	29
MG(1) 5005XB-(2)15	5	0.519	18.31	8.26	0.325	7,000	0.50	2.50	38.9	29
MG(1)5012LR-(2)15	12	0.300	10.58	2.97	0.117	4,000	0.07	0.84	26.5	29
MG(1) 5012MR-(2)15	12	0.363	12.82	4.47	0.176	5,000	0.10	1.20	29.7	29
MG(1) 5012HR-(2)15	12	0.444	15.68	6.23	0.245	6,000	0.14	1.68	33.5	29
MG(1) 5012XR-(2)15	12	0.519	18.31	8.26	0.325	7,000	0.20	2.40	37.6	29
MG(1) 5012YR-(2)15	12	0.595	21.02	10.66	0.420	8,000	0.26	3.12	41.4	29
MG(1)5012LB-(2)15	12	0.300	10.58	2.97	0.117	4,000	0.07	0.84	27.4	29
MG(1) 5012MB-(2)15	12	0.363	12.82	4.47	0.176	5,000	0.10	1.20	31.0	29
MG(1) 5012HB-(2)15	12	0.444	15.68	6.23	0.245	6,000	0.14	1.68	34.7	29
MG(1) 5012XB-(2)15	12	0.519	18.31	8.26	0.325	7,000	0.20	2.40	38.9	29
MG(1) 5012YB-(2)15	12	0.595	21.02	10.66	0.420	8,000	0.26	3.12	42.7	29
MG(1) 5012ZB-(2)15	12	0.675	23.84	13.02	0.513	9,000	0.35	4.20	45.3	29

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
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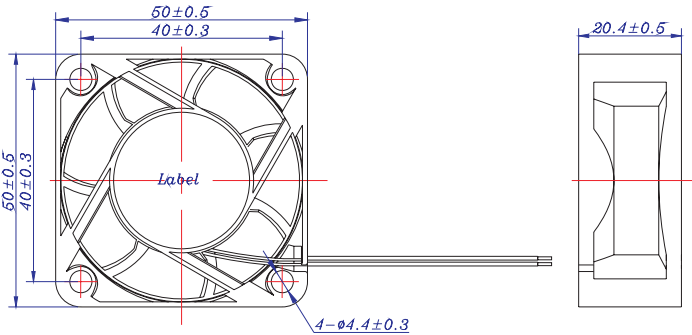
50x50x20mm series A

Bearing Type	☒ 2 Ball	☐ Sleeve	☒ Rifle	☒ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☐ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446

Protechnic Products

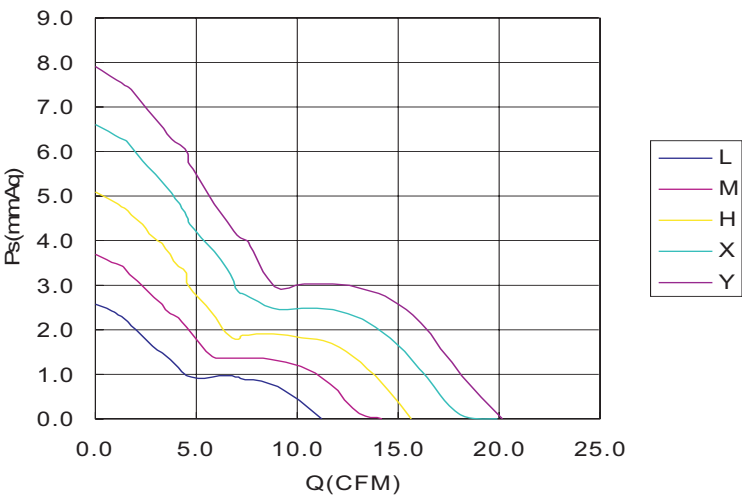
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)5012LF-(2)20	12	0.297	10.49	3.35	0.132	4,000	0.09	1.08	27.7	57
MG(1)5012MF-(2)20	12	0.360	12.71	4.72	0.186	4,800	0.12	1.44	31.0	57
MG(1)5012HF-(2)20	12	0.425	15.01	6.21	0.244	5,600	0.18	2.16	34.2	57
MG(1)5012XF-(2)20	12	0.497	17.56	8.04	0.317	6,400	0.24	2.88	38.7	57
MG(1)5012YF-(2)20	12	0.553	19.53	9.58	0.377	7,000	0.30	3.60	41.5	57
MG(1)5012LR-(2)20	12	0.297	10.49	3.35	0.132	4,000	0.09	1.08	28.5	53
MG(1)5012MR-(2)20	12	0.360	12.71	4.72	0.186	4,800	0.12	1.44	32.5	53
MG(1)5012HR-(2)20	12	0.425	15.01	6.21	0.244	5,600	0.18	2.16	35.9	53
MG(1)5012XR-(2)20	12	0.497	17.56	8.04	0.317	6,400	0.24	2.88	39.6	53
MG(1)5012YR-(2)20	12	0.553	19.53	9.58	0.377	7,000	0.30	3.60	42.8	53
MG(1)5012LB-(2)20	12	0.297	10.49	3.35	0.132	4,000	0.09	1.08	28.6	56
MG(1)5012MB-(2)20	12	0.360	12.71	4.72	0.186	4,800	0.12	1.44	33.2	56
MG(1)5012HB-(2)20	12	0.425	15.01	6.21	0.244	5,600	0.18	2.16	36.8	56
MG(1)5012XB-(2)20	12	0.497	17.56	8.04	0.317	6,400	0.24	2.88	41.2	56
MG(1)5012YB-(2)20	12	0.553	19.53	9.58	0.377	7,000	0.30	3.60	43.4	56
MG(1)5024LF-(2)20	24	0.297	10.49	3.35	0.132	4,000	0.06	1.44	27.7	57
MG(1)5024MF-(2)20	24	0.360	12.71	4.72	0.186	4,800	0.08	1.92	31.0	57
MG(1)5024HF-(2)20	24	0.425	15.01	6.21	0.244	5,600	0.10	2.40	34.2	57
MG(1)5024XF-(2)20	24	0.497	17.56	8.04	0.317	6,400	0.15	3.60	38.7	57
MG(1)5024YF-(2)20	24	0.553	19.53	9.58	0.377	7,000	0.20	4.80	41.5	57
MG(1)5024LR-(2)20	24	0.297	10.49	3.35	0.132	4,000	0.06	1.44	28.5	53
MG(1)5024MR-(2)20	24	0.360	12.71	4.72	0.186	4,800	0.08	1.92	32.5	53
MG(1)5024HR-(2)20	24	0.425	15.01	6.21	0.244	5,600	0.10	2.40	35.9	53
MG(1)5024XR-(2)20	24	0.497	17.56	8.04	0.317	6,400	0.15	3.60	39.6	53
MG(1)5024YR-(2)20	24	0.553	19.53	9.58	0.377	7,000	0.20	4.80	42.8	53
MG(1)5024LB-(2)20	24	0.297	10.49	3.35	0.132	4,000	0.06	1.44	28.6	56
MG(1)5024MB-(2)20	24	0.360	12.71	4.72	0.186	4,800	0.08	1.92	33.2	56
MG(1)5024HB-(2)20	24	0.425	15.01	6.21	0.244	5,600	0.10	2.40	36.8	56
MG(1)5024XB-(2)20	24	0.497	17.56	8.04	0.317	6,400	0.15	3.60	41.2	56
MG(1)5024YB-(2)20	24	0.553	19.53	9.58	0.377	7,000	0.20	4.80	43.4	56

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

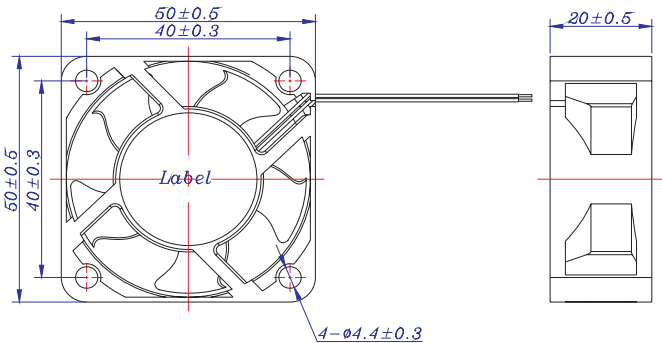
50x50x20mm series B

Bearing Type	☒ 2 Ball	☐ Sleeve	☒ Rifle	☒ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

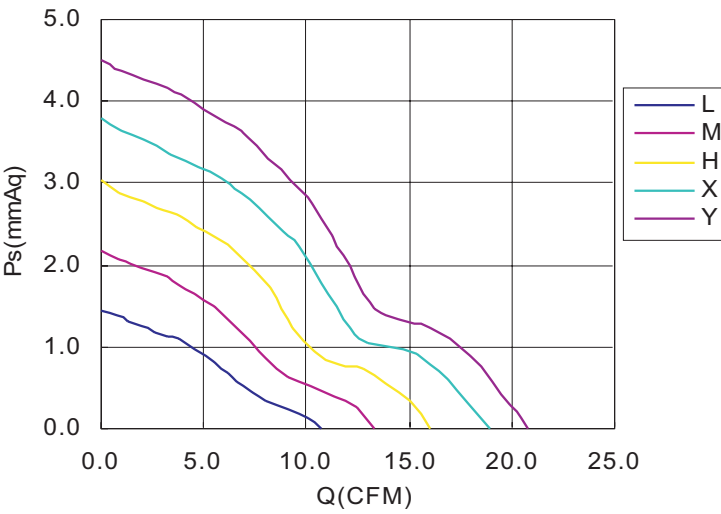
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)5012LF-(2)20	12	0.318	11.24	2.57	0.101	4,000	0.09	1.08	26.0	42
MG(1)5012MF-(2)20	12	0.402	14.19	3.70	0.146	4,800	0.12	1.44	28.8	42
MG(1)5012HF-(2)20	12	0.444	15.67	5.09	0.200	5,600	0.18	2.16	31.9	42
MG(1)5012XF-(2)20	12	0.565	19.93	6.61	0.260	6,400	0.24	2.88	35.2	42
MG(1)5012YF-(2)20	12	0.571	20.14	7.91	0.311	7,000	0.30	3.60	37.4	42
MG(1)5012LR-(2)20	12	0.318	11.24	2.57	0.101	4,000	0.09	1.08	26.2	42
MG(1)5012MR-(2)20	12	0.402	14.19	3.70	0.146	4,800	0.12	1.44	29.0	42
MG(1)5012HR-(2)20	12	0.444	15.67	5.09	0.200	5,600	0.18	2.16	32.1	42
MG(1)5012XR-(2)20	12	0.565	19.93	6.61	0.260	6,400	0.24	2.88	35.4	42
MG(1)5012YR-(2)20	12	0.571	20.14	7.91	0.311	7,000	0.30	3.60	37.6	42
MG(1)5012LB-(2)20	12	0.318	11.24	2.57	0.101	4,000	0.09	1.08	26.4	42
MG(1)5012MB-(2)20	12	0.402	14.19	3.70	0.146	4,800	0.12	1.44	29.2	42
MG(1)5012HB-(2)20	12	0.444	15.67	5.09	0.200	5,600	0.18	2.16	32.3	42
MG(1)5012XB-(2)20	12	0.565	19.93	6.61	0.260	6,400	0.24	2.88	35.6	42
MG(1)5012YB-(2)20	12	0.571	20.14	7.91	0.311	7,000	0.30	3.60	37.8	42
MG(1)5024LF-(2)20	24	0.318	11.24	2.57	0.101	4,000	0.06	1.44	26.0	42
MG(1)5024MF-(2)20	24	0.402	14.19	3.70	0.146	4,800	0.08	1.92	28.8	42
MG(1)5024HF-(2)20	24	0.444	15.67	5.09	0.200	5,600	0.10	2.40	31.9	42
MG(1)5024XF-(2)20	24	0.565	19.93	6.61	0.260	6,400	0.15	3.60	35.2	42
MG(1)5024YF-(2)20	24	0.571	20.14	7.91	0.311	7,000	0.20	4.80	37.4	42
MG(1)5024LR-(2)20	24	0.318	11.24	2.57	0.101	4,000	0.06	1.44	26.2	42
MG(1)5024MR-(2)20	24	0.402	14.19	3.70	0.146	4,800	0.08	1.92	29.0	42
MG(1)5024HR-(2)20	24	0.444	15.67	5.09	0.200	5,600	0.10	2.40	32.1	42
MG(1)5024XR-(2)20	24	0.565	19.93	6.61	0.260	6,400	0.15	3.60	35.4	42
MG(1)5024YR-(2)20	24	0.571	20.14	7.91	0.311	7,000	0.20	4.80	37.6	42
MG(1)5024LB-(2)20	24	0.318	11.24	2.57	0.101	4,000	0.06	1.44	26.4	42
MG(1)5024MB-(2)20	24	0.402	14.19	3.70	0.146	4,800	0.08	1.92	29.2	42
MG(1)5024HB-(2)20	24	0.444	15.67	5.09	0.200	5,600	0.10	2.40	32.3	42
MG(1)5024XB-(2)20	24	0.565	19.93	6.61	0.260	6,400	0.15	3.60	35.6	42
MG(1)5024YB-(2)20	24	0.571	20.14	7.91	0.311	7,000	0.20	4.80	37.8	42

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

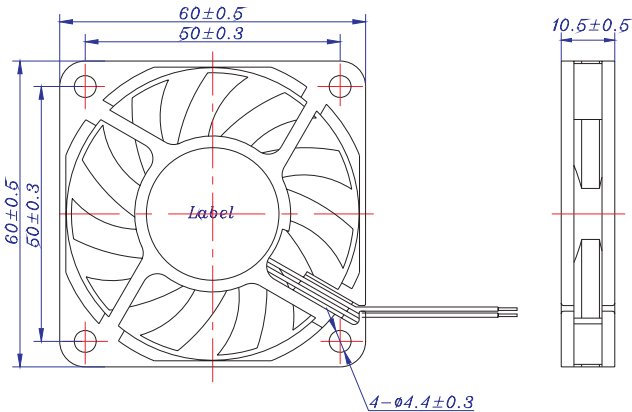
60x60x10mm series A

Bearing Type	☒ 2 Ball	☐ Sleeve	☒ Rifle	☒ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

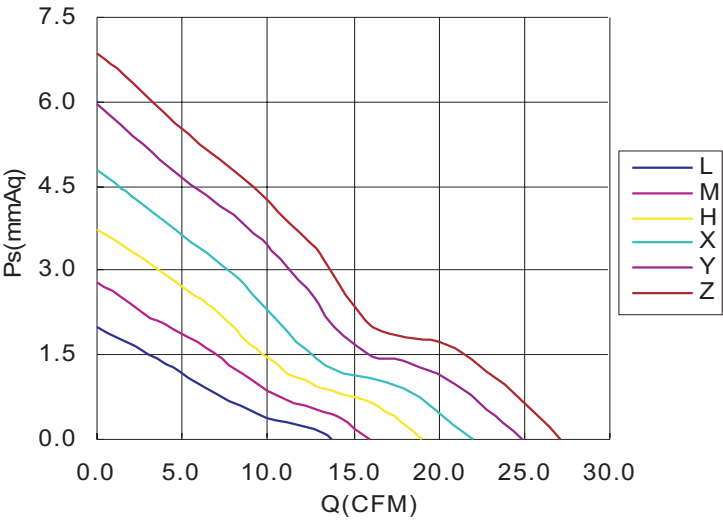
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)6005LR-(2)10	5	0.304	10.74	1.45	0.057	3,000	0.16	0.80	26.7	30
MG(1)6005MR-(2)10	5	0.376	13.27	2.18	0.086	3,600	0.25	1.25	29.8	30
MG(1)6005HR-(2)10	5	0.452	15.97	3.03	0.119	4,200	0.35	1.75	33.5	30
MG(1)6005LB-(2)10	5	0.304	10.74	1.45	0.057	3,000	0.16	0.80	27.1	29
MG(1)6005MB-(2)10	5	0.376	13.27	2.18	0.086	3,600	0.25	1.25	30.2	29
MG(1)6005HB-(2)10	5	0.452	15.97	3.03	0.119	4,200	0.35	1.75	33.9	29
MG(1)6012LR-(2)10	12	0.304	10.74	1.45	0.057	3,000	0.09	1.08	26.7	30
MG(1)6012MR-(2)10	12	0.376	13.27	2.18	0.086	3,600	0.12	1.44	29.8	30
MG(1)6012HR-(2)10	12	0.452	15.97	3.03	0.119	4,200	0.17	2.04	33.5	30
MG(1)6012XR-(2)10	12	0.537	18.96	3.80	0.150	4,800	0.23	2.76	37.0	30
MG(1)6012YR-(2)10	12	0.588	20.76	4.51	0.178	5,400	0.30	3.60	40.2	30
MG(1)6012LB-(2)10	12	0.304	10.74	1.45	0.057	3,000	0.09	1.08	27.1	29
MG(1)6012MB-(2)10	12	0.376	13.27	2.18	0.086	3,600	0.12	1.44	30.2	29
MG(1)6012HB-(2)10	12	0.452	15.97	3.03	0.119	4,200	0.17	2.04	33.9	29
MG(1)6012XB-(2)10	12	0.537	18.96	3.80	0.150	4,800	0.23	2.76	37.2	29
MG(1)6012YB-(2)10	12	0.588	20.76	4.51	0.178	5,400	0.30	3.60	40.3	29
MG(1)6024LR-(2)10	24	0.304	10.74	1.45	0.057	3,000	0.08	1.92	26.7	30
MG(1)6024MR-(2)10	24	0.376	13.27	2.18	0.086	3,600	0.11	2.64	29.8	30
MG(1)6024HR-(2)10	24	0.452	15.97	3.03	0.119	4,200	0.13	3.12	33.5	30
MG(1)6024XR-(2)10	24	0.537	18.96	3.80	0.150	4,800	0.19	4.56	37.0	30
MG(1)6024YR-(2)10	24	0.588	20.76	4.51	0.178	5,400	0.22	5.28	40.2	30
MG(1)6024LB-(2)10	24	0.304	10.74	1.45	0.057	3,000	0.08	1.92	27.1	29
MG(1)6024MB-(2)10	24	0.376	13.27	2.18	0.086	3,600	0.11	2.64	30.2	29
MG(1)6024HB-(2)10	24	0.452	15.97	3.03	0.119	4,200	0.13	3.12	33.9	29
MG(1)6024XB-(2)10	24	0.537	18.96	3.80	0.150	4,800	0.19	4.56	37.2	29
MG(1)6024YB-(2)10	24	0.588	20.76	4.51	0.178	5,400	0.22	5.28	40.3	29

Remarks:
(1)-Electric Characteristics:
 A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
 A: None Automatic Restart;
 O: Automatic Restart & Locked Current Protection;
 R: Rotate Detection Automatic Restart & Locked Current Protection;
 S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
 W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
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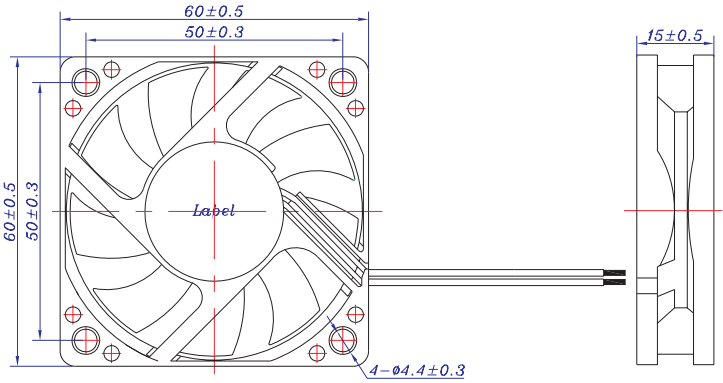
60x60x15mm series

Bearing Type	☒ 2 Ball	☐ Sleeve	☒ Rifle	☐ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

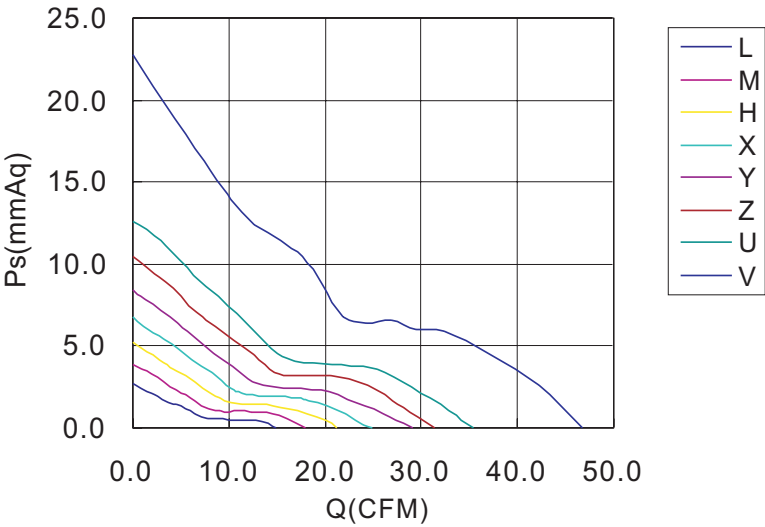
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)6012LR-(2)15	12	0.391	13.80	2.00	0.079	3,000	0.12	1.44	27.1	38
MG(1)6012MR-(2)15	12	0.454	16.03	2.78	0.109	3,600	0.18	2.16	30.1	38
MG(1)6012HR-(2)15	12	0.537	18.96	3.74	0.147	4,200	0.23	2.76	34.3	38
MG(1)6012XR-(2)15	12	0.623	22.00	4.77	0.188	4,800	0.27	3.24	37.8	38
MG(1)6012YR-(2)15	12	0.704	24.86	5.97	0.235	5,400	0.37	4.44	41.3	38
MG(1)6012ZR-(2)15	12	0.767	27.09	6.85	0.270	5,800	0.43	5.16	42.6	38
MG(1)6012LB-(2)15	12	0.391	13.80	2.00	0.079	3,000	0.12	1.44	27.6	39
MG(1)6012MB-(2)15	12	0.454	16.03	2.78	0.109	3,600	0.18	2.16	30.9	39
MG(1)6012HB-(2)15	12	0.537	18.96	3.74	0.147	4,200	0.23	2.76	35.0	39
MG(1)6012XB-(2)15	12	0.623	22.00	4.77	0.188	4,800	0.27	3.24	38.0	39
MG(1)6012YB-(2)15	12	0.704	24.86	5.97	0.235	5,400	0.37	4.44	41.7	39
MG(1)6012ZB-(2)15	12	0.767	27.09	6.85	0.270	5,800	0.43	5.16	43.0	39
MG(1)6024LR-(2)15	24	0.391	13.80	2.00	0.079	3,000	0.10	2.40	27.1	38
MG(1)6024MR-(2)15	24	0.454	16.03	2.78	0.109	3,600	0.13	3.12	30.1	38
MG(1)6024HR-(2)15	24	0.537	18.96	3.74	0.147	4,200	0.16	3.84	34.3	38
MG(1)6024XR-(2)15	24	0.623	22.00	4.77	0.188	4,800	0.21	5.04	37.8	38
MG(1)6024YR-(2)15	24	0.704	24.86	5.97	0.235	5,400	0.26	6.24	41.3	38
MG(1)6024ZR-(2)15	24	0.767	27.09	6.85	0.270	5,800	0.30	7.20	42.6	38
MG(1)6024LB-(2)15	24	0.391	13.80	2.00	0.079	3,000	0.10	2.40	27.6	39
MG(1)6024MB-(2)15	24	0.454	16.03	2.78	0.109	3,600	0.13	3.12	30.9	39
MG(1)6024HB-(2)15	24	0.537	18.96	3.74	0.147	4,200	0.16	3.84	35.0	39
MG(1)6024XB-(2)15	24	0.623	22.00	4.77	0.188	4,800	0.21	5.04	38.0	39
MG(1)6024YB-(2)15	24	0.704	24.86	5.97	0.235	5,400	0.26	6.24	41.7	39
MG(1)6024ZB-(2)15	24	0.767	27.09	6.85	0.270	5,800	0.30	7.20	43.0	39

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

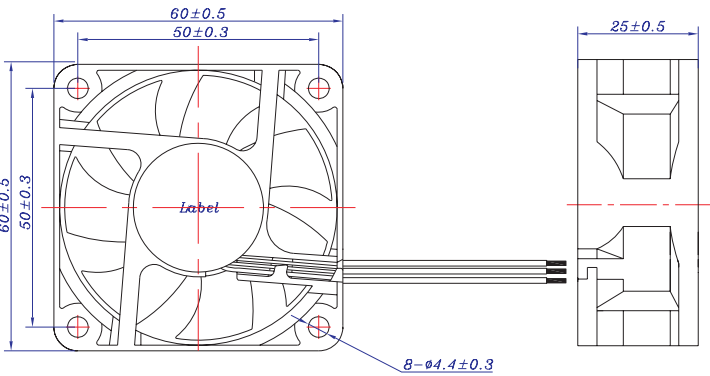
60x60x25mm series A

Bearing Type	☒ 2 Ball	☒ Sleeve	☒ Rifle	☒ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)6005LR-(2)25	5	0.421	14.87	2.69	0.106	3,000	0.22	1.10	25.8	63
MG(1)6005MR-(2)25	5	0.509	17.96	3.86	0.152	3,600	0.30	1.50	27.6	63
MG(1)6005HR-(2)25	5	0.601	21.20	5.20	0.205	4,200	0.38	1.90	30.7	63
MG(1)6005LB-(2)25	5	0.421	14.87	2.69	0.106	3,000	0.22	1.10	25.9	59
MG(1)6005MB-(2)25	5	0.509	17.96	3.86	0.152	3,600	0.30	1.50	28.0	59
MG(1)6005HB-(2)25	5	0.601	21.20	5.20	0.205	4,200	0.38	1.90	31.1	59
MG(1)6012LR-(2)25	12	0.421	14.87	2.69	0.106	3,000	0.11	1.32	25.8	63
MG(1)6012MR-(2)25	12	0.509	17.96	3.86	0.152	3,600	0.13	1.56	27.6	63
MG(1)6012HR-(2)25	12	0.601	21.20	5.20	0.205	4,200	0.17	2.04	30.7	63
MG(1)6012XR-(2)25	12	0.706	24.93	6.81	0.268	4,800	0.20	2.40	34.1	63
MG(1)6012YR-(2)25	12	0.826	29.16	8.41	0.331	5,400	0.26	3.12	36.6	63
MG(1)6012ZR-(2)25	12	0.889	31.38	10.47	0.412	6,000	0.31	3.72	39.7	63
MG(1)6012UR-(2)25	12	1.006	35.50	12.60	0.496	6,800	0.38	4.56	42.8	63
MG(1)6012LB-(2)25	12	0.421	14.87	2.69	0.106	3,000	0.11	1.32	25.9	59
MG(1)6012MB-(2)25	12	0.509	17.96	3.86	0.152	3,600	0.13	1.56	28.0	59
MG(1)6012HB-(2)25	12	0.601	21.20	5.20	0.205	4,200	0.17	2.04	31.1	59
MG(1)6012XB-(2)25	12	0.706	24.93	6.81	0.268	4,800	0.20	2.40	34.2	59
MG(1)6012YB-(2)25	12	0.826	29.16	8.41	0.331	5,400	0.26	3.12	37.0	59
MG(1)6012ZB-(2)25	12	0.889	31.38	10.47	0.412	6,000	0.31	3.72	39.8	59
MG(1)6012UB-(2)25	12	1.006	35.50	12.60	0.496	6,800	0.38	4.56	43.1	59
MG(1)6012VB-(2)25	12	1.326	46.81	22.80	0.898	9,000	0.90	10.80	53.4	59
MG(1)6024LR-(2)25	24	0.421	14.87	2.69	0.106	3,000	0.09	2.16	25.8	63
MG(1)6024MR-(2)25	24	0.509	17.96	3.86	0.152	3,600	0.12	2.88	27.6	63
MG(1)6024HR-(2)25	24	0.601	21.20	5.20	0.205	4,200	0.14	3.36	30.7	63
MG(1)6024XR-(2)25	24	0.706	24.93	6.81	0.268	4,800	0.17	4.08	34.1	63
MG(1)6024YR-(2)25	24	0.826	29.16	8.41	0.331	5,400	0.20	4.80	36.6	63
MG(1)6024ZR-(2)25	24	0.889	31.38	10.47	0.412	6,000	0.22	5.28	39.7	63
MG(1)6024UR-(2)25	24	1.006	35.50	12.60	0.496	6,800	0.29	6.96	42.8	63
MG(1)6024LB-(2)25	24	0.421	14.87	2.69	0.106	3,000	0.09	2.16	25.9	59
MG(1)6024MB-(2)25	24	0.509	17.96	3.86	0.152	3,600	0.12	2.88	28.0	59
MG(1)6024HB-(2)25	24	0.601	21.20	5.20	0.205	4,200	0.14	3.36	31.1	59
MG(1)6024XB-(2)25	24	0.706	24.93	6.81	0.268	4,800	0.17	4.08	34.2	59
MG(1)6024YB-(2)25	24	0.826	29.16	8.41	0.331	5,400	0.20	4.80	37.0	59
MG(1)6024ZB-(2)25	24	0.889	31.38	10.47	0.412	6,000	0.22	5.28	39.8	59
MG(1)6024UB-(2)25	24	1.006	35.50	12.60	0.496	6,800	0.29	6.96	43.1	59

Remarks:

(1)-Electric Characteristics:

A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.

(2)-Function:

A: None Automatic Restart;

O: Automatic Restart & Locked Current Protection;

R: Rotate Detection Automatic Restart & Locked Current Protection;

S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;

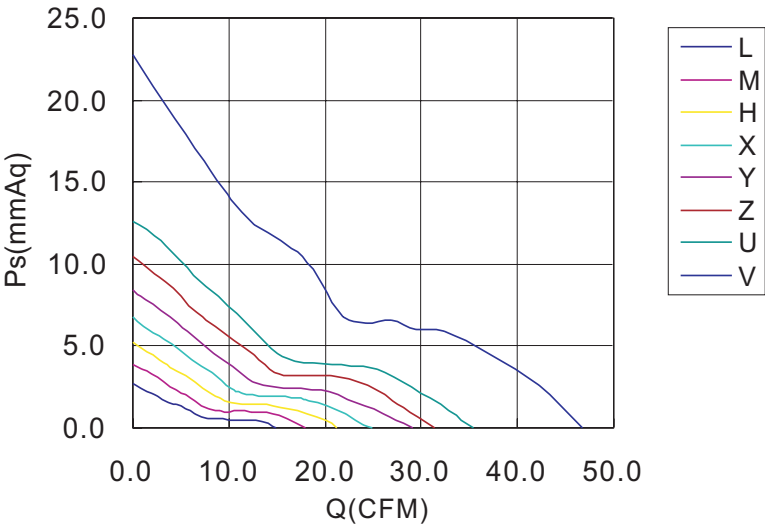
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).

The spec is for reference only, it's subject to change without any prior notice

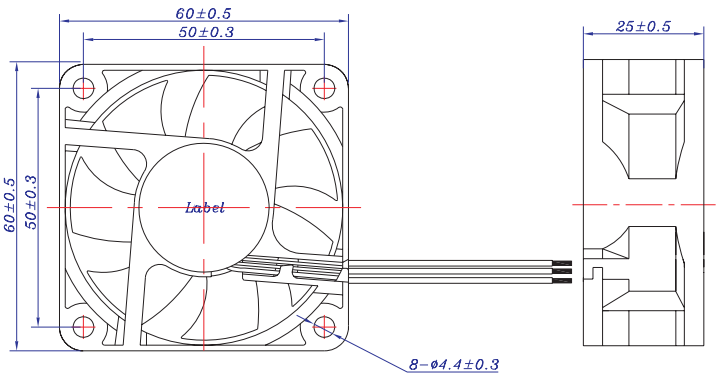
60x60x25mm series A

Bearing Type	☒ 2 Ball	☒ Sleeve	☒ Rifle	☒ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)6005LF-(2)25	5	0.421	14.87	2.69	0.106	3,000	0.22	1.10	25.5	59
MG(1)6005MF-(2)25	5	0.509	17.96	3.86	0.152	3,600	0.30	1.50	27.0	59
MG(1)6005HF-(2)25	5	0.601	21.20	5.20	0.205	4,200	0.38	1.90	30.2	59
MG(1)6012LF-(2)25	12	0.421	14.87	2.69	0.106	3,000	0.11	1.32	25.5	59
MG(1)6012MF-(2)25	12	0.509	17.96	3.86	0.152	3,600	0.13	1.56	27.0	59
MG(1)6012HF-(2)25	12	0.601	21.20	5.20	0.205	4,200	0.17	2.04	30.2	59
MG(1)6012XF-(2)25	12	0.706	24.93	6.81	0.268	4,800	0.20	2.40	33.6	59
MG(1)6012YF-(2)25	12	0.826	29.16	8.41	0.331	5,400	0.26	3.12	36.5	59
MG(1)6012ZF-(2)25	12	0.889	31.38	10.47	0.412	6,000	0.31	3.72	39.1	59
MG(1)6012UF-(2)25	12	1.006	35.50	12.60	0.496	6,800	0.38	4.56	42.6	59
MG(1)6024LF-(2)25	24	0.421	14.87	2.69	0.106	3,000	0.09	2.16	25.5	59
MG(1)6024MF-(2)25	24	0.509	17.96	3.86	0.152	3,600	0.12	2.88	27.0	59
MG(1)6024HF-(2)25	24	0.601	21.20	5.20	0.205	4,200	0.14	3.36	30.2	59
MG(1)6024XF-(2)25	24	0.706	24.93	6.81	0.268	4,800	0.17	4.08	33.6	59
MG(1)6024YF-(2)25	24	0.826	29.16	8.41	0.331	5,400	0.20	4.80	36.5	59
MG(1)6024ZF-(2)25	24	0.889	31.38	10.47	0.412	6,000	0.22	5.28	39.1	59
MG(1)6024UF-(2)25	24	1.006	35.50	12.60	0.496	6,800	0.29	6.96	42.6	59
MG(1)6048HF-(2)25	48	0.601	21.20	5.20	0.205	4,200	0.05	2.40	30.2	59
MG(1)6048XF-(2)25	48	0.706	24.93	6.81	0.268	4,800	0.08	3.84	33.6	59
MG(1)6048YF-(2)25	48	0.826	29.16	8.41	0.331	5,400	0.12	5.76	36.5	59
MG(1)6048ZF-(2)25	48	0.889	31.38	10.47	0.412	6,000	0.18	8.64	39.1	59
MG(1)6048HR-(2)25	48	0.601	21.20	5.20	0.205	4,200	0.05	2.40	30.7	63
MG(1)6048XR-(2)25	48	0.706	24.93	6.81	0.268	4,800	0.08	3.84	34.1	63
MG(1)6048YR-(2)25	48	0.826	29.16	8.41	0.331	5,400	0.12	5.76	36.6	63
MG(1)6048ZR-(2)25	48	0.889	31.38	10.47	0.412	6,000	0.18	8.64	39.7	63
MG(1)6048HB-(2)25	48	0.601	21.20	5.20	0.205	4,200	0.05	2.40	31.1	59
MG(1)6048XB-(2)25	48	0.706	24.93	6.81	0.268	4,800	0.08	3.84	34.2	59
MG(1)6048YB-(2)25	48	0.826	29.16	8.41	0.331	5,400	0.12	5.76	37.0	59
MG(1)6048ZB-(2)25	48	0.889	31.38	10.47	0.412	6,000	0.18	8.64	39.8	59
MG(1)6048UB-(2)25	48	1.006	35.50	12.60	0.496	6,800	0.25	12.00	42.6	59

Remarks:

(1)-Electric Characteristics:

A: Standard 2-Pin; **T:** Frequency Generation 3-Pin or more.

(2)-Function:

A: None Automatic Restart;

O: Automatic Restart & Locked Current Protection;

R: Rotate Detection Automatic Restart & Locked Current Protection;

S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;

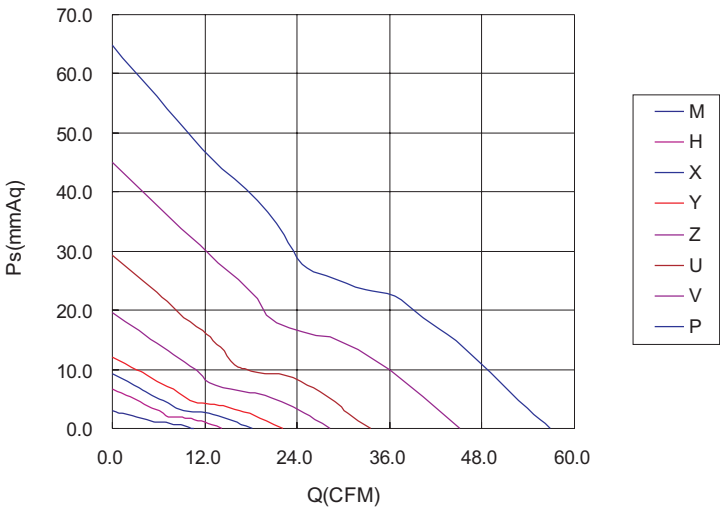
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).

The spec is for reference only, it's subject to change without any prior notice

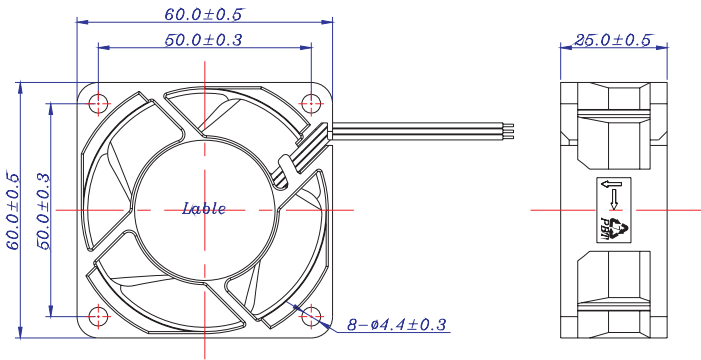
60x60x25mm series B

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446

Protechnic Products

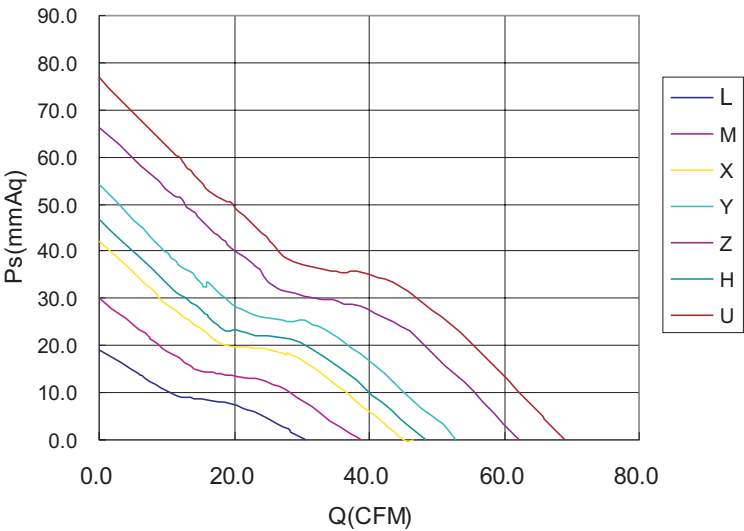
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)6012MB-(2)25	12	0.299	10.57	2.95	0.116	4,000	0.13	1.56	28.3	88
MG(1)6012HB-(2)25	12	0.402	14.19	6.69	0.263	5,200	0.17	2.04	32.8	88
MG(1)6012XB-(2)25	12	0.513	18.10	9.25	0.364	6,500	0.20	2.40	37.5	88
MG(1)6012YB-(2)25	12	0.627	22.15	12.16	0.479	8,000	0.26	3.12	43.6	88
MG(1)6012ZB-(2)25	12	0.799	28.21	19.60	0.772	10,000	0.31	3.72	48.4	88
MG(1)6012UB-(2)25	12	0.950	33.53	29.20	1.150	12,000	0.38	4.56	52.7	88
MG(1)6012VB-(2)25	12	1.280	45.20	45.00	1.772	16,000	0.90	10.80	60.1	88
MG(1)6012PB-(2)25	12	1.609	56.81	64.90	2.555	20,000	1.56	18.72	65.3	88

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

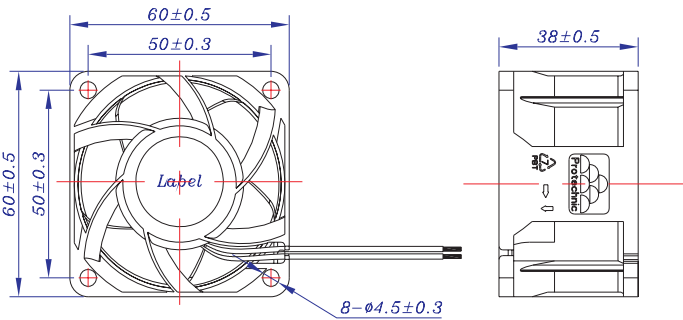
60x60x38mm series B

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

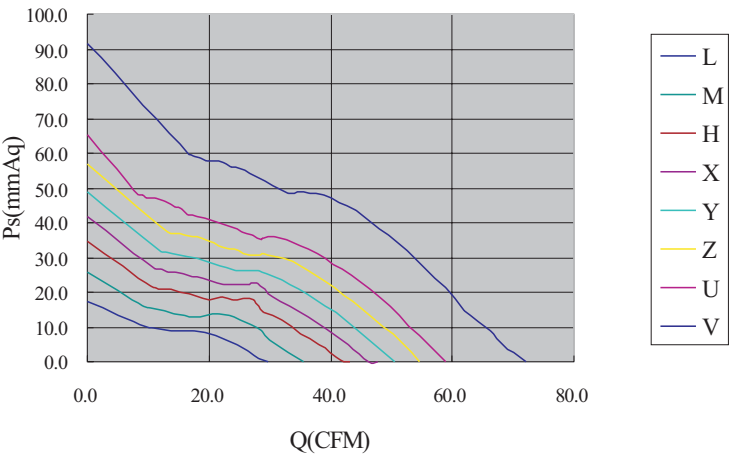
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)6012LB-(2)38	12	0.866	30.58	19.00	0.748	8,000	0.35	4.20	44.0	118
MG(1)6012MB-(2)38	12	1.101	38.87	30.10	1.185	10,000	0.50	6.00	50.3	118
MG(1)6012HB-(2)38	12	1.290	45.54	37.70	1.484	12,000	0.75	9.00	52.4	118
MG(1)6012XB-(2)38	12	1.397	49.34	46.80	1.843	13,000	0.95	11.40	54.5	118
MG(1)6012YB-(2)38	12	1.505	53.13	50.00	1.969	14,000	1.20	14.40	55.3	118
MG(1)6012ZB-(2)38	12	1.728	61.00	66.20	2.606	16,000	1.50	18.00	58.8	118
MG(1)6012UB-(2)38	12	1.943	68.62	77.50	3.051	18,000	1.80	21.60	62.0	118
MG(1)6024LB-(2)38	24	0.866	30.58	19.00	0.748	8,000	0.18	4.32	44.0	118
MG(1)6024MB-(2)38	24	1.101	38.87	30.10	1.185	10,000	0.25	6.00	50.3	118
MG(1)6024HB-(2)38	24	1.290	45.54	37.70	1.484	12,000	0.38	9.12	52.4	118
MG(1)6024XB-(2)38	24	1.397	49.34	46.80	1.843	13,000	0.50	12.00	54.5	118
MG(1)6024YB-(2)38	24	1.505	53.13	50.00	1.969	14,000	0.60	14.40	55.3	118
MG(1)6024ZB-(2)38	24	1.728	61.00	66.20	2.606	16,000	0.75	18.00	58.8	118
MG(1)6024UB-(2)38	24	1.943	68.62	77.50	3.051	18,000	1.00	24.00	62.0	118
MG(1)6048LB-(2)38	48	0.866	30.58	19.00	0.748	8,000	0.13	6.24	44.0	118
MG(1)6048MB-(2)38	48	1.101	38.87	30.10	1.185	10,000	0.16	7.68	50.3	118
MG(1)6048HB-(2)38	48	1.290	45.54	37.70	1.484	12,000	0.22	10.56	52.4	118
MG(1)6048XB-(2)38	48	1.397	49.34	46.80	1.843	13,000	0.27	12.96	54.5	118
MG(1)6048YB-(2)38	48	1.505	53.13	50.00	1.969	14,000	0.36	17.28	55.3	118
MG(1)6048ZB-(2)38	48	1.728	61.00	66.20	2.606	16,000	0.40	19.20	58.8	118
MG(1)6048UB-(2)38	48	1.943	68.62	77.50	3.051	18,000	0.50	24.00	62.0	118

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

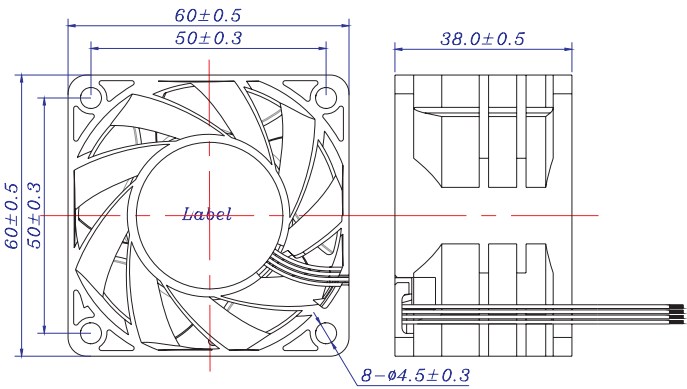
60x60x38mm series C

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☒ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☒ Class II	☐ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

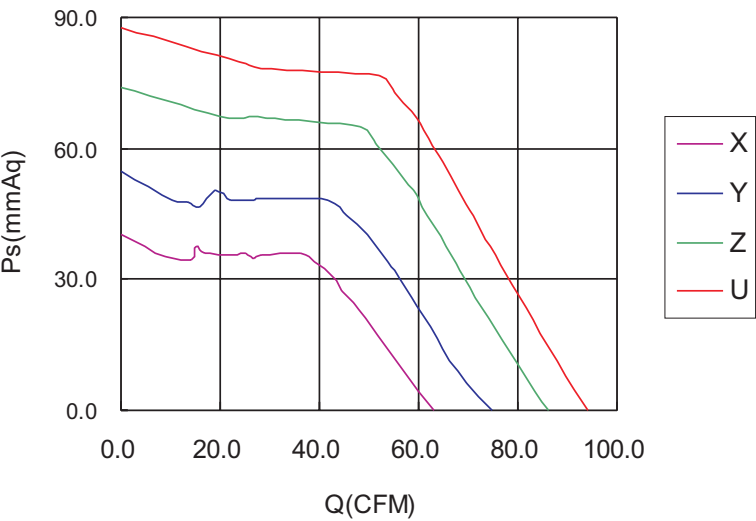
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)6012LB-(2)38	12	0.838	29.60	17.50	0.688	7,000	0.35	4.20	47.0	120
MG(1)6012MB-(2)38	12	1.009	35.62	26.00	1.023	8,500	0.50	6.00	52.3	120
MG(1)6012HB-(2)38	12	1.224	43.22	34.80	1.370	10,000	0.75	9.00	56.5	120
MG(1)6012XB-(2)38	12	1.353	47.77	41.90	1.649	11,000	0.95	11.40	59.9	120
MG(1)6012YB-(2)38	12	1.435	50.66	49.00	1.929	12,000	1.20	14.40	60.6	120
MG(1)6012ZB-(2)38	12	1.548	54.65	57.00	2.244	13,000	1.50	18.00	62.2	120
MG(1)6012UB-(2)38	12	1.671	59.00	65.20	2.566	14,000	1.80	21.60	65.5	120
MG(1)6012VB-(2)38	12	2.042	72.10	91.70	3.610	16,800	3.30	39.60	68.5	120

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

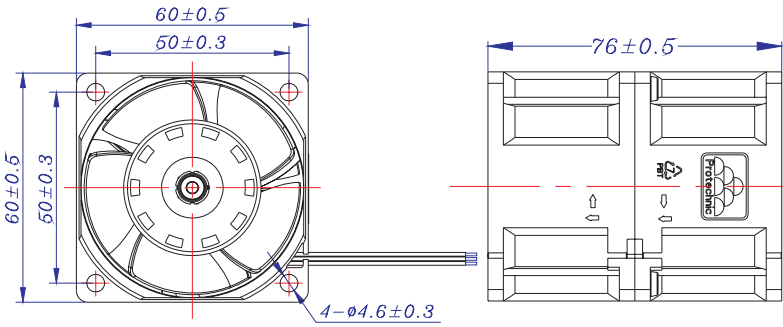
60x60x76mm series

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance	☒ ±10% Speed tolerance		
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)6012XB-(2)76	12	1.791	63.21	40.40	1.591	9,000/10,000	2.60	31.20	67.9	247
MG(1)6012YB-(2)76	12	2.120	74.82	54.60	2.150	10,000/11,500	3.30	39.60	72.8	247
MG(1)6012ZB-(2)76	12	2.443	86.25	74.10	2.917	12,000/12,500	4.20	50.40	74.6	247
MG(1)6012UB-(2)76	12	2.667	94.15	87.50	3.445	13,000/13,500	5.00	60.00	76.8	247

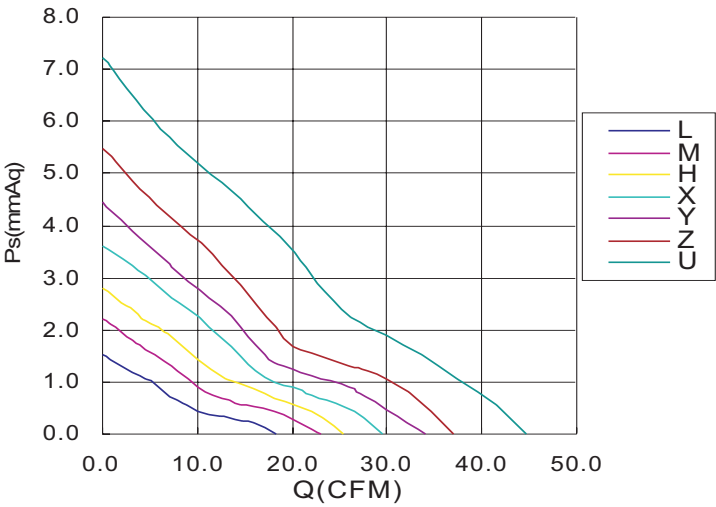
Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

70x70x15mm series

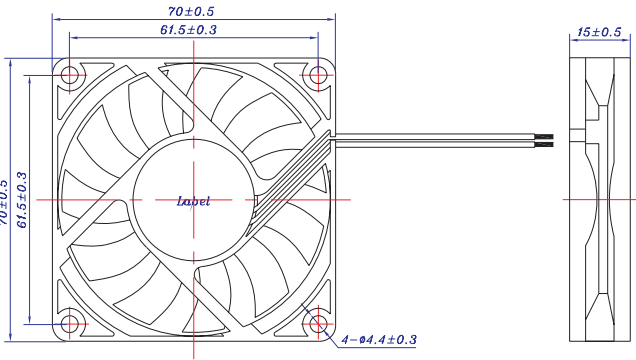
Bearing Type	☒ 2 Ball	☐ Sleeve	☒ Rifle	☒ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	



AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

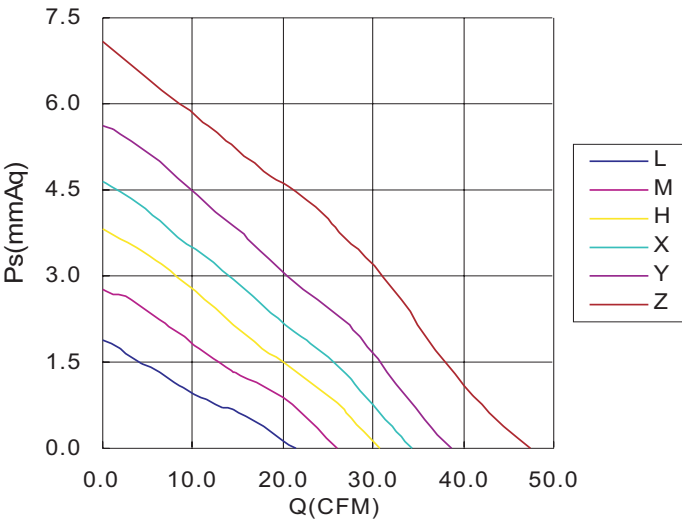
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)7012LR-(2)15	12	0.518	18.27	1.52	0.060	2,200	0.10	1.20	25.5	50
MG(1)7012MR-(2)15	12	0.650	22.94	2.22	0.087	2,600	0.13	1.56	27.6	50
MG(1)7012HR-(2)15	12	0.736	25.98	2.91	0.115	3,000	0.17	2.04	30.3	50
MG(1)7012XR-(2)15	12	0.835	29.46	3.61	0.142	3,400	0.22	2.64	33.1	50
MG(1)7012YR-(2)15	12	0.964	34.02	4.45	0.175	3,800	0.28	3.36	36.0	50
MG(1)7012ZR-(2)15	12	1.049	37.02	5.48	0.216	4,200	0.41	4.92	38.6	50
MG(1)7012UR-(2)15	12	1.267	44.71	7.22	0.284	5,000	0.58	6.96	43.2	50
MG(1)7012LB-(2)15	12	0.518	18.27	1.52	0.060	2,200	0.10	1.20	26.1	50
MG(1)7012MB-(2)15	12	0.650	22.94	2.22	0.087	2,600	0.13	1.56	29.7	50
MG(1)7012HB-(2)15	12	0.736	25.98	2.91	0.115	3,000	0.17	2.04	30.4	50
MG(1)7012XB-(2)15	12	0.835	29.46	3.61	0.142	3,400	0.22	2.04	34.7	50
MG(1)7012YB-(2)15	12	0.964	34.02	4.45	0.175	3,800	0.28	2.04	36.1	50
MG(1)7012ZB-(2)15	12	1.049	37.02	5.48	0.216	4,200	0.41	2.04	38.7	50
MG(1)7012UB-(2)15	12	1.267	44.71	7.22	0.284	5,000	0.58	2.04	43.9	50
MG(1)7024LR-(2)15	24	0.518	18.27	1.52	0.060	2,200	0.10	2.40	25.5	50
MG(1)7024MR-(2)15	24	0.650	22.94	2.22	0.087	2,600	0.13	3.12	27.6	50
MG(1)7024HR-(2)15	24	0.736	25.98	2.91	0.115	3,000	0.16	3.84	30.3	50
MG(1)7024XR-(2)15	24	0.835	29.46	3.61	0.142	3,400	0.18	4.32	33.1	50
MG(1)7024YR-(2)15	24	0.964	34.02	4.45	0.175	3,800	0.21	5.04	36.0	50
MG(1)7024ZR-(2)15	24	1.049	37.02	5.48	0.216	4,200	0.25	6.00	38.6	50
MG(1)7024LB-(2)15	24	0.518	18.27	1.52	0.060	2,200	0.10	2.40	26.1	50
MG(1)7024MB-(2)15	24	0.650	22.94	2.22	0.087	2,600	0.13	3.12	29.7	50
MG(1)7024HB-(2)15	24	0.736	25.98	2.91	0.115	3,000	0.16	3.84	30.4	50
MG(1)7024XB-(2)15	24	0.835	29.46	3.61	0.142	3,400	0.18	4.32	34.7	50
MG(1)7024YB-(2)15	24	0.964	34.02	4.45	0.175	3,800	0.21	5.04	36.1	50
MG(1)7024ZB-(2)15	24	1.049	37.02	5.48	0.216	4,200	0.25	6.00	38.7	50

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

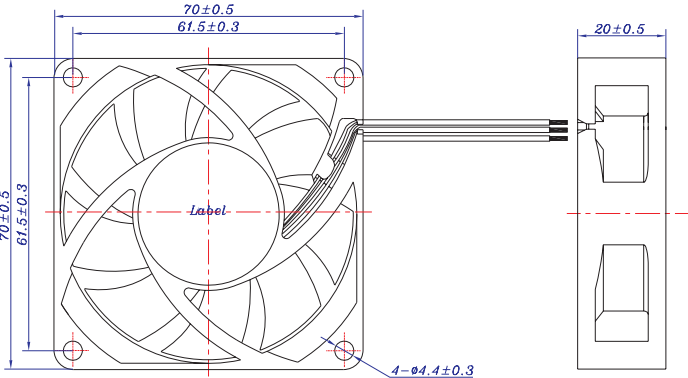
70x70x20mm series

Bearing Type	☒ 2 Ball	☐ Sleeve	☒ Rifle	☒ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)7012LF-(2)20	12	0.604	21.33	1.87	0.074	2,500	0.14	1.68	27.4	68
MG(1)7012MF-(2)20	12	0.736	25.97	2.76	0.109	3,000	0.19	2.28	30.5	68
MG(1)7012HF-(2)20	12	0.870	30.70	3.81	0.150	3,500	0.27	3.24	34.0	68
MG(1)7012XF-(2)20	12	0.971	34.28	4.51	0.178	3,900	0.36	4.32	37.3	68
MG(1)7012YF-(2)20	12	1.096	38.69	5.63	0.222	4,300	0.43	5.16	39.7	68
MG(1)7012ZF-(2)20	12	1.346	47.51	7.09	0.279	5,400	0.63	7.56	46.4	68
MG(1)7012LR-(2)20	12	0.604	21.33	1.87	0.074	2,500	0.14	1.68	27.5	67
MG(1)7012MR-(2)20	12	0.736	25.97	2.76	0.109	3,000	0.19	2.28	30.7	67
MG(1)7012HR-(2)20	12	0.870	30.70	3.81	0.150	3,500	0.27	3.24	35.1	67
MG(1)7012XR-(2)20	12	0.971	34.28	4.51	0.178	3,900	0.36	4.32	37.9	67
MG(1)7012YR-(2)20	12	1.096	38.69	5.63	0.222	4,300	0.43	5.16	40.1	67
MG(1)7012ZR-(2)20	12	1.346	47.51	7.09	0.279	5,400	0.63	7.56	46.7	67
MG(1)7012LB-(2)20	12	0.604	21.33	1.87	0.074	2,500	0.14	1.68	27.6	66
MG(1)7012MB-(2)20	12	0.736	25.97	2.76	0.109	3,000	0.19	2.28	31.5	66
MG(1)7012HB-(2)20	12	0.870	30.70	3.81	0.150	3,500	0.27	3.24	35.3	66
MG(1)7012XB-(2)20	12	0.971	34.28	4.51	0.178	3,900	0.36	4.32	38.0	66
MG(1)7012YB-(2)20	12	1.096	38.69	5.63	0.222	4,300	0.43	5.16	40.8	66
MG(1)7012ZB-(2)20	12	1.346	47.51	7.09	0.279	5,400	0.63	7.56	47.0	66
MG(1)7024LF-(2)20	24	0.604	21.33	1.87	0.074	2,500	0.08	1.92	27.4	68
MG(1)7024MF-(2)20	24	0.736	25.97	2.76	0.109	3,000	0.11	2.64	30.5	68
MG(1)7024HF-(2)20	24	0.870	30.70	3.81	0.150	3,500	0.16	3.84	34.0	68
MG(1)7024XF-(2)20	24	0.971	34.28	4.51	0.178	3,900	0.20	4.80	37.3	68
MG(1)7024YF-(2)20	24	1.096	38.69	5.63	0.222	4,300	0.24	5.76	39.7	68
MG(1)7024LR-(2)20	24	0.604	21.33	1.87	0.074	2,500	0.08	1.92	27.5	67
MG(1)7024MR-(2)20	24	0.736	25.97	2.76	0.109	3,000	0.11	2.64	30.7	67
MG(1)7024HR-(2)20	24	0.870	30.70	3.81	0.150	3,500	0.16	3.84	35.1	67
MG(1)7024XR-(2)20	24	0.971	34.28	4.51	0.178	3,900	0.20	4.80	37.9	67
MG(1)7024YR-(2)20	24	1.096	38.69	5.63	0.222	4,300	0.24	5.76	40.1	67
MG(1)7024LB-(2)20	24	0.604	21.33	1.87	0.074	2,500	0.08	1.92	27.6	66
MG(1)7024MB-(2)20	24	0.736	25.97	2.76	0.109	3,000	0.11	2.64	31.5	66
MG(1)7024HB-(2)20	24	0.870	30.70	3.81	0.150	3,500	0.16	3.84	35.3	66
MG(1)7024XB-(2)20	24	0.971	34.28	4.51	0.178	3,900	0.20	4.80	38.0	66
MG(1)7024YB-(2)20	24	1.096	38.69	5.63	0.222	4,300	0.24	5.76	40.8	66

Remarks:

(1)-Electric Characteristics:

A: Standard 2-Pin; **T:** Frequency Generation 3-Pin or more.

(2)-Function:

A: None Automatic Restart;

O: Automatic Restart & Locked Current Protection;

R: Rotate Detection Automatic Restart & Locked Current Protection;

S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;

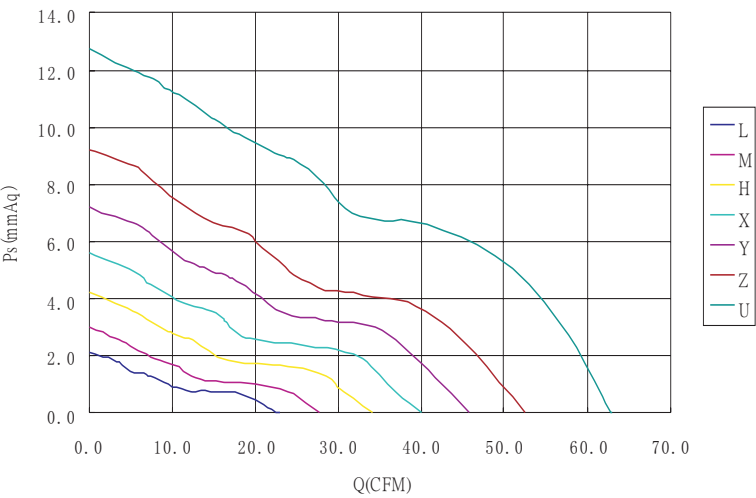
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).

The spec is for reference only, it's subject to change without any prior notice

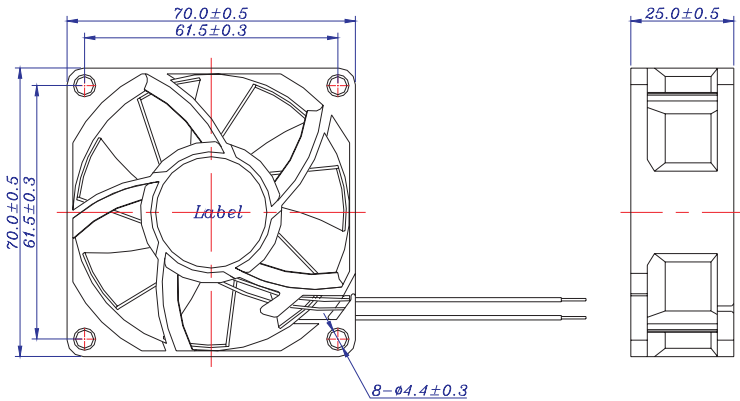
70x70x25mm series C

Bearing Type	☒ 2 Ball	☐ Sleeve	☒ Rifle	☐ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

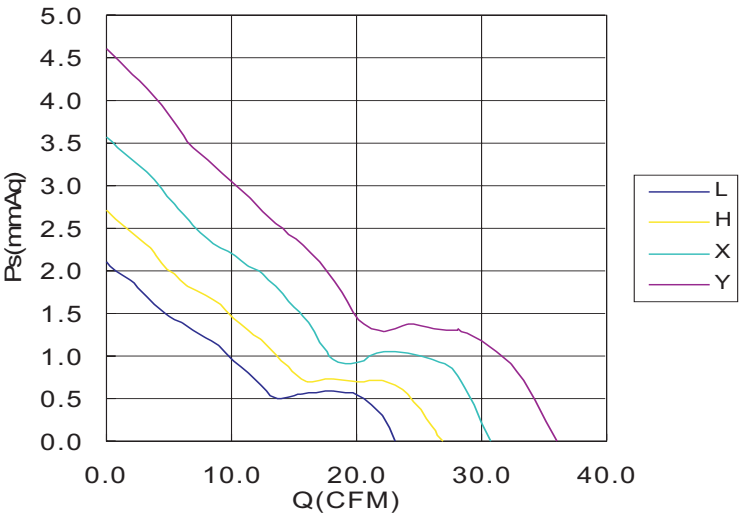
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)7012LR-(2)25	12	0.651	22.99	2.16	0.085	2,500	0.12	1.44	24.8	70
MG(1)7012MR-(2)25	12	0.786	27.73	3.01	0.119	3,000	0.17	2.04	31.0	70
MG(1)7012HR-(2)25	12	0.965	34.08	4.24	0.167	3,600	0.22	2.64	35.4	70
MG(1)7012XR-(2)25	12	1.131	39.92	5.63	0.222	4,200	0.30	3.60	39.2	70
MG(1)7012YR-(2)25	12	1.294	45.67	7.21	0.284	4,800	0.39	4.68	43.3	70
MG(1)7012ZR-(2)25	12	1.485	52.42	9.20	0.362	5,400	0.43	5.16	46.6	70
MG(1)7012UR-(2)25	12	1.786	63.03	12.73	0.501	6,500	0.76	9.12	51.9	70
MG(1)7012LB-(2)25	12	0.651	22.99	2.16	0.085	2,500	0.12	1.44	25.0	72
MG(1)7012MB-(2)25	12	0.786	27.73	3.01	0.119	3,000	0.17	2.04	31.2	72
MG(1)7012HB-(2)25	12	0.965	34.08	4.24	0.167	3,600	0.22	2.64	35.6	72
MG(1)7012XB-(2)25	12	1.131	39.92	5.63	0.222	4,200	0.30	3.60	39.4	72
MG(1)7012YB-(2)25	12	1.294	45.67	7.21	0.284	4,800	0.39	4.68	43.5	72
MG(1)7012ZB-(2)25	12	1.485	52.42	9.20	0.362	5,400	0.43	5.16	46.8	72
MG(1)7012UB-(2)25	12	1.786	63.03	12.73	0.501	6,500	0.76	9.12	52.1	72
MG(1)7024LR-(2)25	24	0.651	22.99	2.16	0.085	2,500	0.09	2.16	24.8	70
MG(1)7024MR-(2)25	24	0.786	27.73	3.01	0.119	3,000	0.11	2.64	31.0	70
MG(1)7024HR-(2)25	24	0.965	34.08	4.24	0.167	3,600	0.13	3.12	35.4	70
MG(1)7024XR-(2)25	24	1.131	39.92	5.63	0.222	4,200	0.16	3.84	39.2	70
MG(1)7024YR-(2)25	24	1.294	45.67	7.21	0.284	4,800	0.20	4.80	43.3	70
MG(1)7024ZR-(2)25	24	1.485	52.42	9.20	0.362	5,400	0.25	6.00	46.6	70
MG(1)7024UR-(2)25	24	1.786	63.03	12.73	0.501	6,500	0.45	10.80	51.9	70
MG(1)7024LB-(2)25	24	0.651	22.99	2.16	0.085	2,500	0.09	2.16	25.0	72
MG(1)7024MB-(2)25	24	0.786	27.73	3.01	0.119	3,000	0.11	2.64	31.2	72
MG(1)7024HB-(2)25	24	0.965	34.08	4.24	0.167	3,600	0.13	3.12	35.6	72
MG(1)7024XB-(2)25	24	1.131	39.92	5.63	0.222	4,200	0.16	3.84	39.4	72
MG(1)7024YB-(2)25	24	1.294	45.67	7.21	0.284	4,800	0.20	4.80	43.5	72
MG(1)7024ZB-(2)25	24	1.485	52.42	9.20	0.362	5,400	0.25	6.00	46.8	72
MG(1)7024UB-(2)25	24	1.786	63.03	12.73	0.501	6,500	0.45	10.80	52.1	72

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

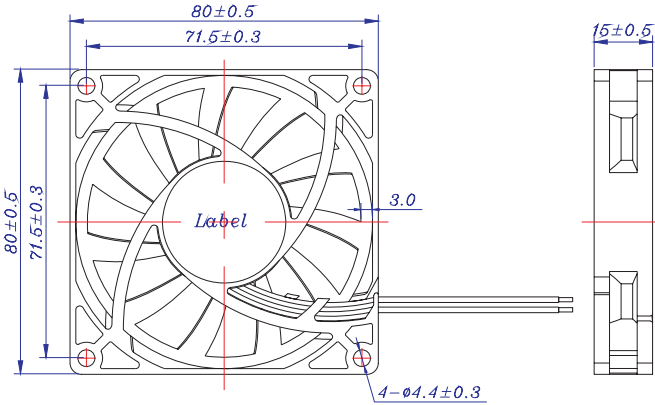
80x80x15mm series B

Bearing Type	☐ 2 Ball	☐ Sleeve	☐ Rifle	☒ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

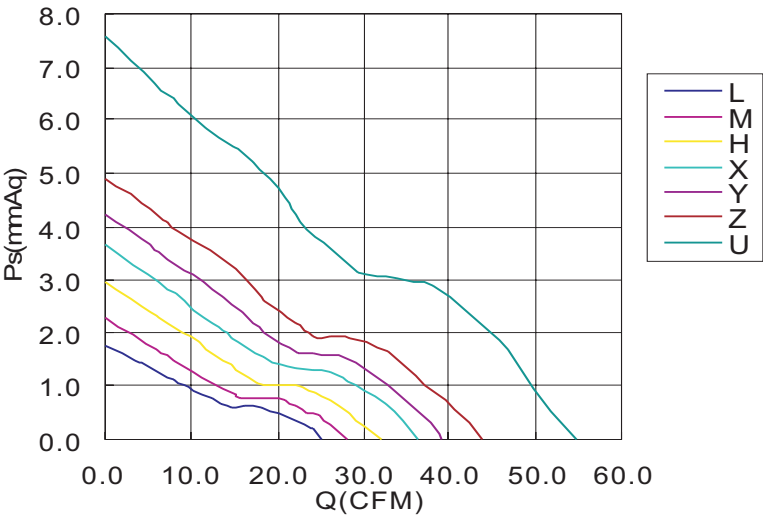
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)8012LF-(2)15	12	0.652	23.00	2.10	0.083	2,600	0.10	1.20	29.6	55
MG(1)8012HF-(2)15	12	0.762	26.90	2.70	0.106	3,000	0.18	2.16	32.7	55
MG(1)8012XF-(2)15	12	0.872	30.78	3.57	0.141	3,500	0.23	2.76	36.2	55
MG(1)8012YF-(2)15	12	1.019	35.96	4.61	0.181	4,000	0.28	3.36	39.3	55

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

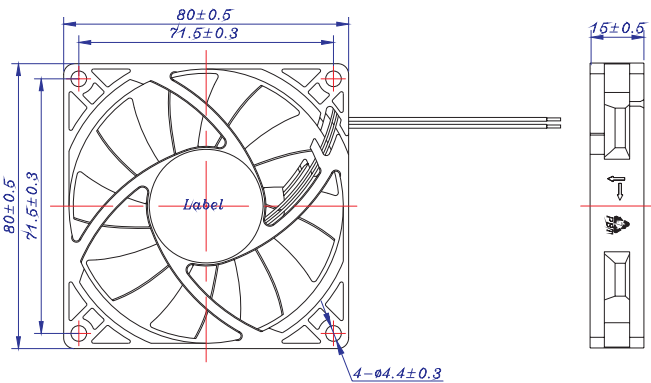
80x80x15mm series C

Bearing Type	☒ 2 Ball	☐ Sleeve	☒ Rifle	☒ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446

Protechnic Products

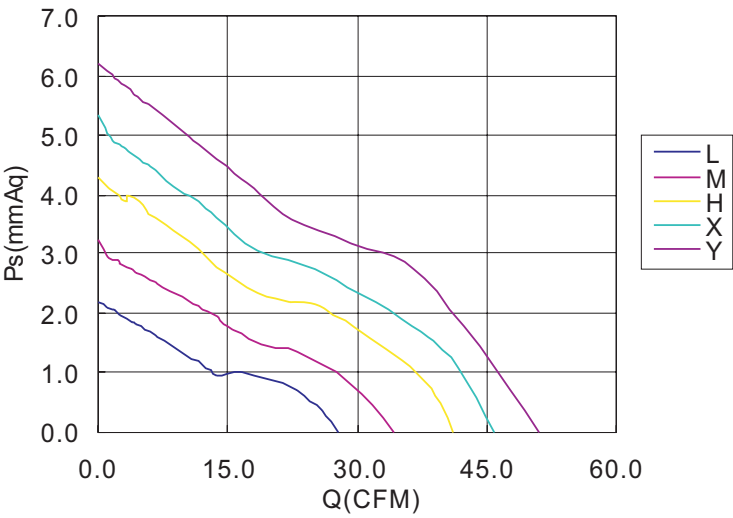
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)8012LB-(2)15	12	0.710	25.07	1.77	0.070	2,400	0.10	1.20	26.1	55
MG(1)8012MB-(2)15	12	0.802	28.31	2.37	0.093	2,700	0.13	1.56	29.6	55
MG(1)8012HB-(2)15	12	0.914	32.27	2.93	0.115	3,000	0.18	2.16	32.8	55
MG(1)8012XB-(2)15	12	1.031	36.40	3.67	0.145	3,400	0.23	2.76	35.8	55
MG(1)8012YB-(2)15	12	1.111	39.22	4.24	0.167	3,700	0.28	3.36	38.1	55
MG(1)8012ZB-(2)15	12	1.236	43.61	4.90	0.193	4,000	0.35	4.20	39.9	55
MG(1)8012UB-(2)15	12	1.548	54.65	7.57	0.298	5,000	0.50	6.00	46.0	55
MG(1)8012LR-(2)15	12	0.710	25.07	1.77	0.070	2,400	0.10	1.20	25.9	55
MG(1)8012MR-(2)15	12	0.802	28.31	2.37	0.093	2,700	0.13	1.56	29.4	55
MG(1)8012HR-(2)15	12	0.914	32.27	2.93	0.115	3,000	0.18	2.16	32.6	55
MG(1)8012XR-(2)15	12	1.031	36.40	3.67	0.145	3,400	0.23	2.76	35.6	55
MG(1)8012YR-(2)15	12	1.111	39.22	4.24	0.167	3,700	0.28	3.36	37.9	55
MG(1)8012ZR-(2)15	12	1.236	43.61	4.90	0.193	4,000	0.35	4.20	39.7	55
MG(1)8012UR-(2)15	12	1.548	54.65	7.57	0.298	5,000	0.50	6.00	45.8	55
MG(1)8012LF-(2)15	12	0.710	25.07	1.77	0.070	2,400	0.10	1.20	25.7	55
MG(1)8012MF-(2)15	12	0.802	28.31	2.37	0.093	2,700	0.13	1.56	29.2	55
MG(1)8012HF-(2)15	12	0.914	32.27	2.93	0.115	3,000	0.18	2.16	32.4	55
MG(1)8012XF-(2)15	12	1.031	36.40	3.67	0.145	3,400	0.23	2.76	35.4	55
MG(1)8012YF-(2)15	12	1.111	39.22	4.24	0.167	3,700	0.28	3.36	37.7	55
MG(1)8012ZF-(2)15	12	1.236	43.61	4.90	0.193	4,000	0.35	4.20	39.5	55
MG(1)8012UF-(2)15	12	1.548	54.65	7.57	0.298	5,000	0.50	6.00	45.6	55
MG(1)8024LB-(2)15	24	0.710	25.07	1.77	0.070	2,400	0.08	1.92	26.1	55
MG(1)8024MB-(2)15	24	0.802	28.31	2.37	0.093	2,700	0.10	2.40	29.6	55
MG(1)8024HB-(2)15	24	0.914	32.27	2.93	0.115	3,000	0.12	2.88	32.8	55
MG(1)8024XB-(2)15	24	1.031	36.40	3.67	0.145	3,400	0.16	3.84	35.8	55
MG(1)8024YB-(2)15	24	1.111	39.22	4.24	0.167	3,700	0.19	4.56	38.1	55
MG(1)8024ZB-(2)15	24	1.236	43.61	4.90	0.193	4,000	0.23	5.52	39.9	55
MG(1)8024LR-(2)15	24	0.710	25.07	1.77	0.070	2,400	0.08	1.92	25.9	55
MG(1)8024MR-(2)15	24	0.802	28.31	2.37	0.093	2,700	0.10	2.40	29.4	55
MG(1)8024HR-(2)15	24	0.914	32.27	2.93	0.115	3,000	0.12	2.88	32.6	55
MG(1)8024XR-(2)15	24	1.031	36.40	3.67	0.145	3,400	0.16	3.84	35.6	55
MG(1)8024YR-(2)15	24	1.111	39.22	4.24	0.167	3,700	0.19	4.56	37.9	55
MG(1)8024ZR-(2)15	24	1.236	43.61	4.90	0.193	4,000	0.23	5.52	39.7	55
MG(1)8024LF-(2)15	24	0.710	25.07	1.77	0.070	2,400	0.08	1.92	25.7	55
MG(1)8024MF-(2)15	24	0.802	28.31	2.37	0.093	2,700	0.10	2.40	29.2	55
MG(1)8024HF-(2)15	24	0.914	32.27	2.93	0.115	3,000	0.12	2.88	32.4	55
MG(1)8024XF-(2)15	24	1.031	36.40	3.67	0.145	3,400	0.16	3.84	35.4	55
MG(1)8024YF-(2)15	24	1.111	39.22	4.24	0.167	3,700	0.19	4.56	37.7	55
MG(1)8024ZF-(2)15	24	1.236	43.61	4.90	0.193	4,000	0.23	5.52	39.5	55

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

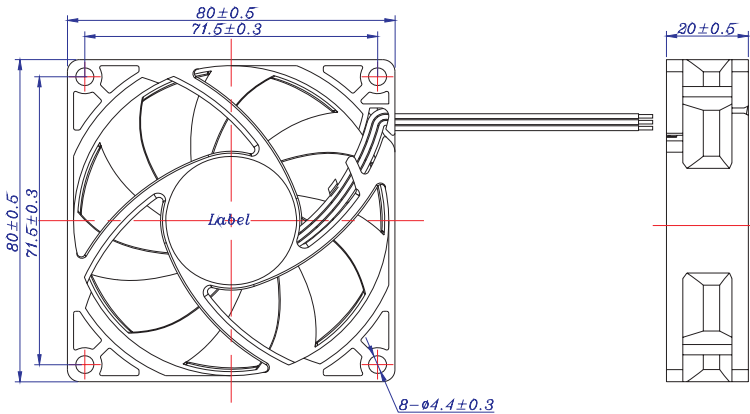
80x80x20mm series B

Bearing Type	☒ 2 Ball	☐ Sleeve	☒ Rifle	☒ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

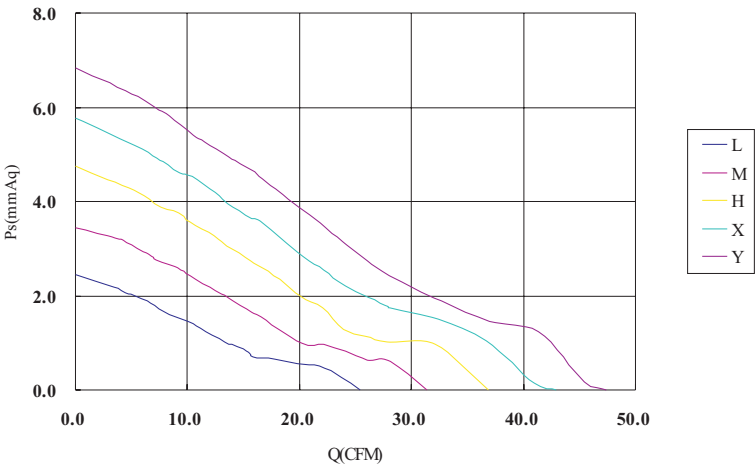
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)8012LF-(2)20	12	0.831	29.32	2.20	0.087	2,500	0.15	1.80	28.0	70
MG(1)8012MF-(2)20	12	0.971	34.27	3.22	0.127	3,000	0.21	2.52	31.4	70
MG(1)8012HF-(2)20	12	1.169	41.27	4.28	0.169	3,500	0.27	3.24	35.3	70
MG(1)8012XF-(2)20	12	1.301	45.91	5.35	0.211	3,900	0.36	4.32	37.8	70
MG(1)8012YF-(2)20	12	1.448	51.12	6.22	0.245	4,300	0.48	5.76	40.9	70
MG(1)8012LR-(2)20	12	0.831	29.32	2.20	0.087	2,500	0.15	1.80	28.1	70
MG(1)8012MR-(2)20	12	0.971	34.27	3.22	0.127	3,000	0.21	2.52	31.5	70
MG(1)8012HR-(2)20	12	1.169	41.27	4.28	0.169	3,500	0.27	3.24	35.4	70
MG(1)8012XR-(2)20	12	1.301	45.91	5.35	0.211	3,900	0.36	4.32	37.9	70
MG(1)8012YR-(2)20	12	1.448	51.12	6.22	0.245	4,300	0.48	5.76	41.0	70
MG(1)8012LB-(2)20	12	0.831	29.32	2.20	0.087	2,500	0.15	1.80	28.3	70
MG(1)8012MB-(2)20	12	0.971	34.27	3.22	0.127	3,000	0.21	2.52	31.7	70
MG(1)8012HB-(2)20	12	1.169	41.27	4.28	0.169	3,500	0.27	3.24	35.6	70
MG(1)8012XB-(2)20	12	1.301	45.91	5.35	0.211	3,900	0.36	4.32	38.1	70
MG(1)8012YB-(2)20	12	1.448	51.12	6.22	0.245	4,300	0.48	5.76	41.1	70
MG(1)8024LF-(2)20	24	0.831	29.32	2.20	0.087	2,500	0.10	2.40	28.0	70
MG(1)8024MF-(2)20	24	0.971	34.27	3.22	0.127	3,000	0.13	3.12	31.4	70
MG(1)8024HF-(2)20	24	1.169	41.27	4.28	0.169	3,500	0.19	4.56	35.3	70
MG(1)8024XF-(2)20	24	1.301	45.91	5.35	0.211	3,900	0.21	5.04	37.8	70
MG(1)8024YF-(2)20	24	1.448	51.12	6.22	0.245	4,300	0.28	6.72	40.9	70
MG(1)8024LR-(2)20	24	0.831	29.32	2.20	0.087	2,500	0.10	2.40	28.1	70
MG(1)8024MR-(2)20	24	0.971	34.27	3.22	0.127	3,000	0.13	3.12	31.5	70
MG(1)8024HR-(2)20	24	1.169	41.27	4.28	0.169	3,500	0.19	4.56	35.4	70
MG(1)8024XR-(2)20	24	1.301	45.91	5.35	0.211	3,900	0.21	5.04	37.9	70
MG(1)8024YR-(2)20	24	1.448	51.12	6.22	0.245	4,300	0.28	6.72	41.0	70
MG(1)8024LB-(2)20	24	0.831	29.32	2.20	0.087	2,500	0.10	2.40	28.3	70
MG(1)8024MB-(2)20	24	0.971	34.27	3.22	0.127	3,000	0.13	3.12	31.7	70
MG(1)8024HB-(2)20	24	1.169	41.27	4.28	0.169	3,500	0.19	4.56	35.6	70
MG(1)8024XB-(2)20	24	1.301	45.91	5.35	0.211	3,900	0.21	5.04	38.1	70
MG(1)8024YB-(2)20	24	1.448	51.12	6.22	0.245	4,300	0.28	6.72	41.1	70

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

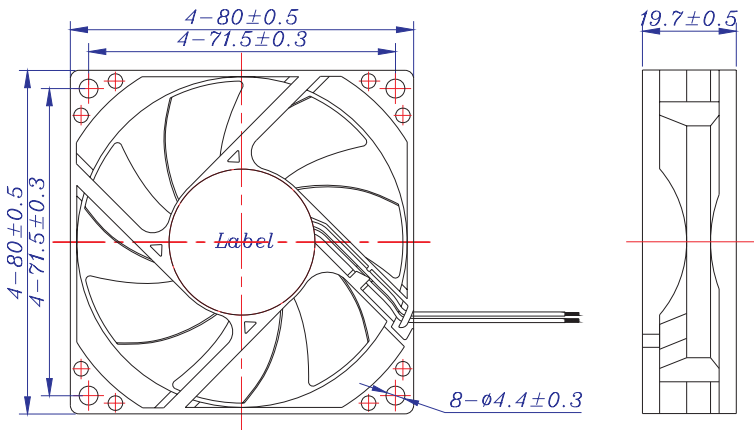
80x80x20mm series C

Bearing Type	☐ 2 Ball	☐ Sleeve	☒ Rifle	☐ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446

Protechnic Products

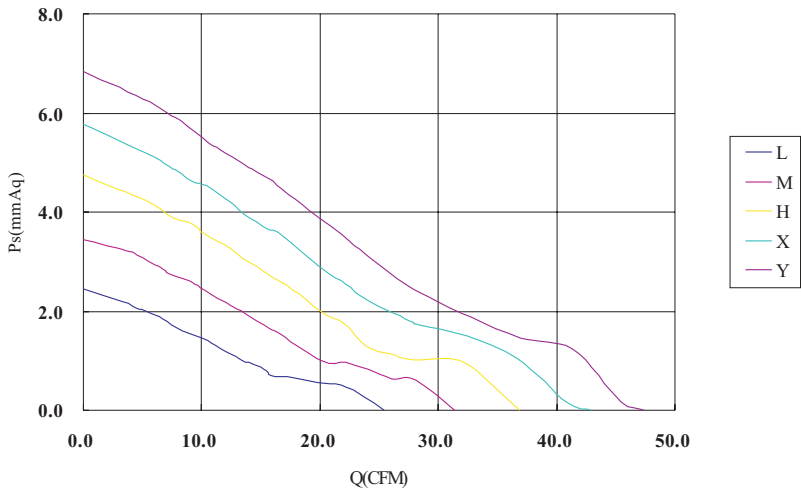
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)8012LR-(2)20	12	0.721	25.44	2.45	0.096	2,500	0.15	1.80	29.2	64
MG(1)8012MR-(2)20	12	0.890	31.41	3.45	0.136	3,000	0.21	2.52	33.6	64
MG(1)8012HR-(2)20	12	1.044	36.87	4.76	0.187	3,500	0.27	3.24	38.1	64
MG(1)8012XR-(2)20	12	1.215	42.90	5.78	0.228	3,900	0.36	4.32	40.8	64
MG(1)8012YR-(2)20	12	1.342	47.36	6.84	0.269	4,300	0.48	5.76	43.7	64
MG(1)8024LR-(2)20	24	0.721	25.44	2.45	0.096	2,500	0.10	2.40	29.2	64
MG(1)8024MR-(2)20	24	0.890	31.41	3.45	0.136	3,000	0.13	3.12	33.6	64
MG(1)8024HR-(2)20	24	1.044	36.87	4.76	0.187	3,500	0.19	4.56	38.1	64
MG(1)8024XR-(2)20	24	1.215	42.90	5.78	0.228	3,900	0.21	5.04	40.8	64
MG(1)8024YR-(2)20	24	1.342	47.36	6.84	0.269	4,300	0.28	6.72	43.7	64

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

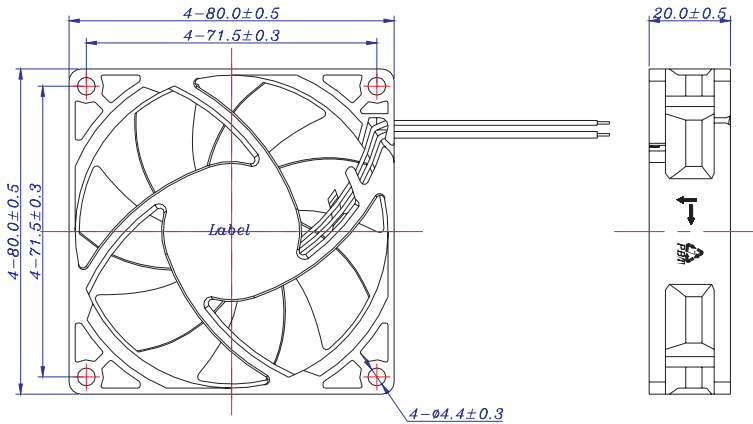
80x80x20mm series D

Bearing Type	☐ 2 Ball	☐ Sleeve	☒ Rifle	☐ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

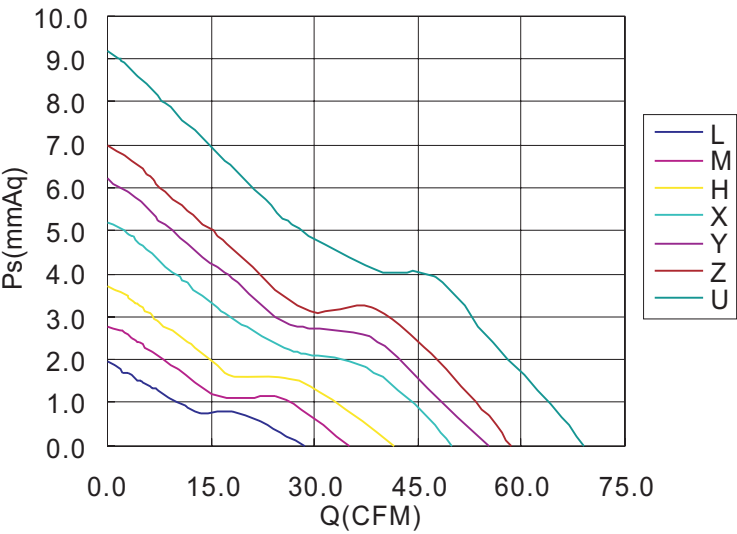
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)8012LR-(2)20	12	0.828	29.22	2.60	0.102	2,500	0.15	1.80	28.5	64
MG(1)8012MR-(2)20	12	0.977	34.49	3.64	0.143	3,000	0.21	2.52	32.7	64
MG(1)8012HR-(2)20	12	1.129	39.87	4.89	0.193	3,500	0.27	3.24	36.6	64
MG(1)8012XR-(2)20	12	1.275	44.99	5.94	0.234	3,900	0.36	4.32	39.8	64
MG(1)8012YR-(2)20	12	1.420	50.12	7.19	0.283	4,300	0.48	5.76	42.1	64
MG(1)8024LR-(2)20	24	0.828	29.22	2.60	0.102	2,500	0.10	2.40	28.5	64
MG(1)8024MR-(2)20	24	0.977	34.49	3.64	0.143	3,000	0.13	3.12	32.7	64
MG(1)8024HR-(2)20	24	1.129	39.87	4.89	0.193	3,500	0.19	4.56	36.6	64
MG(1)8024XR-(2)20	24	1.275	44.99	5.94	0.234	3,900	0.21	5.04	39.8	64
MG(1)8024YR-(2)20	24	1.420	50.12	7.19	0.283	4,300	0.28	6.72	42.1	64

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

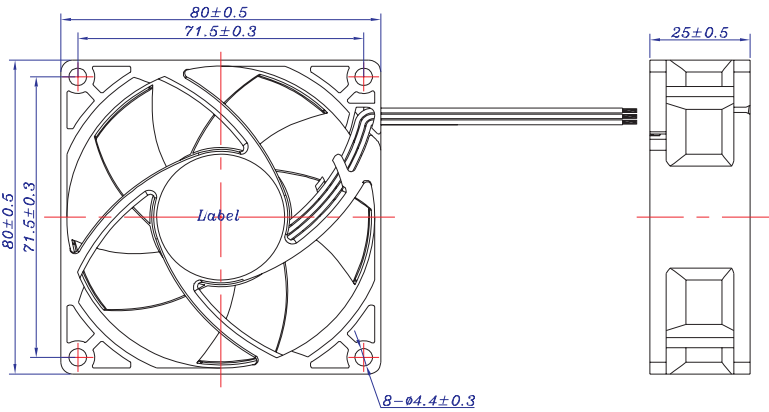
80x80x25mm series B

Bearing Type	☒ 2 Ball	☐ Sleeve	☒ Rifle	☒ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)8005LF-(2)25	5	0.806	28.46	1.98	0.078	2,100	0.28	1.40	22.8	90
MG(1)8005MF-(2)25	5	0.987	34.85	2.79	0.110	2,500	0.32	1.60	28.7	90
MG(1)8005HF-(2)25	5	1.171	41.34	3.71	0.146	3,000	0.45	2.25	32.9	90
MG(1)8005LR-(2)25	5	0.806	28.46	1.98	0.078	2,100	0.28	1.40	22.9	90
MG(1)8005MR-(2)25	5	0.987	34.85	2.79	0.110	2,500	0.32	1.60	28.8	90
MG(1)8005HR-(2)25	5	1.171	41.34	3.71	0.146	3,000	0.45	2.25	33.0	90
MG(1)8005LB-(2)25	5	0.806	28.46	1.98	0.078	2,100	0.28	1.40	23.1	90
MG(1)8005MB-(2)25	5	0.987	34.85	2.79	0.110	2,500	0.32	1.60	29.0	90
MG(1)8005HB-(2)25	5	1.171	41.34	3.71	0.146	3,000	0.45	2.25	33.2	90
MG(1)8012LF-(2)25	12	0.806	28.46	1.98	0.078	2,100	0.12	1.44	22.8	90
MG(1)8012MF-(2)25	12	0.987	34.85	2.79	0.110	2,500	0.15	1.80	28.7	90
MG(1)8012HF-(2)25	12	1.171	41.34	3.71	0.146	3,000	0.24	2.88	32.9	90
MG(1)8012XF-(2)25	12	1.413	49.89	5.19	0.204	3,600	0.39	4.68	37.0	90
MG(1)8012YF-(2)25	12	1.562	55.13	6.21	0.244	3,900	0.42	5.04	38.9	90
MG(1)8012ZF-(2)25	12	1.653	58.35	7.00	0.276	4,200	0.54	6.48	42.0	90
MG(1)8012UF-(2)25	12	1.951	68.88	9.17	0.361	4,800	0.66	7.92	44.9	90
MG(1)8012LR-(2)25	12	0.806	28.46	1.98	0.078	2,100	0.12	1.44	22.9	90
MG(1)8012MR-(2)25	12	0.987	34.85	2.79	0.110	2,500	0.15	1.80	28.8	90
MG(1)8012HR-(2)25	12	1.171	41.34	3.71	0.146	3,000	0.24	2.88	33.0	90
MG(1)8012XR-(2)25	12	1.413	49.89	5.19	0.204	3,600	0.39	4.68	37.1	90
MG(1)8012YR-(2)25	12	1.562	55.13	6.21	0.244	3,900	0.42	5.04	39.0	90
MG(1)8012ZR-(2)25	12	1.653	58.35	7.00	0.276	4,200	0.54	6.48	42.1	90
MG(1)8012UR-(2)25	12	1.951	68.88	9.17	0.361	4,800	0.66	7.92	45.0	90
MG(1)8012LB-(2)25	12	0.806	28.46	1.98	0.078	2,100	0.12	1.44	23.1	90
MG(1)8012MB-(2)25	12	0.987	34.85	2.79	0.110	2,500	0.15	1.80	29.0	90
MG(1)8012HB-(2)25	12	1.171	41.34	3.71	0.146	3,000	0.24	2.88	33.2	90
MG(1)8012XB-(2)25	12	1.413	49.89	5.19	0.204	3,600	0.39	4.68	37.3	90
MG(1)8012YB-(2)25	12	1.562	55.13	6.21	0.244	3,900	0.42	5.04	39.2	90
MG(1)8012ZB-(2)25	12	1.653	58.35	7.00	0.276	4,200	0.54	6.48	42.3	90
MG(1)8012UB-(2)25	12	1.951	68.88	9.17	0.361	4,800	0.66	7.92	45.2	90

Remarks:

(1)-Electric Characteristics:

A: Standard 2-Pin; **T:** Frequency Generation 3-Pin or more.

(2)-Function:

A: None Automatic Restart;

O: Automatic Restart & Locked Current Protection;

R: Rotate Detection Automatic Restart & Locked Current Protection;

S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;

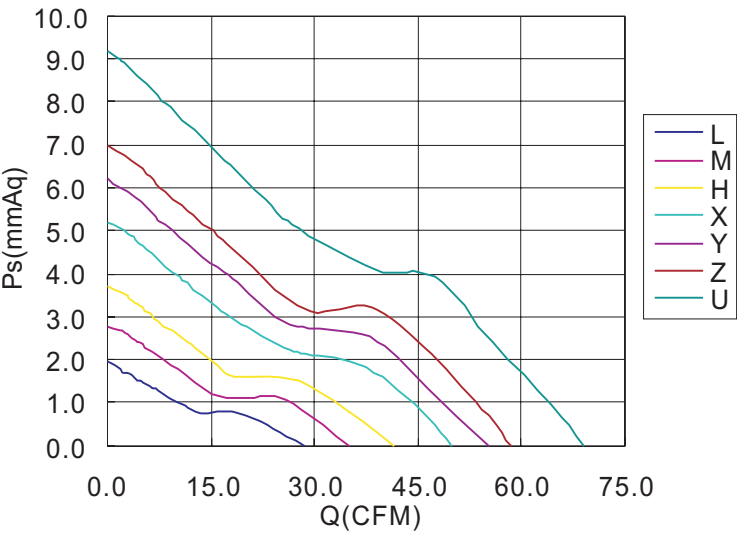
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).

The spec is for reference only, it's subject to change without any prior notice

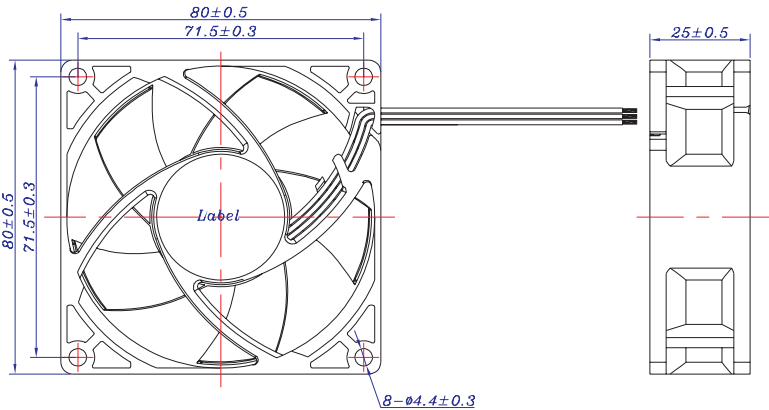
80x80x25mm series B

Bearing Type	☒ 2 Ball	☐ Sleeve	☒ Rifle	☒ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)8024LF-(2)25	24	0.806	28.46	1.98	0.078	2,100	0.09	2.16	22.8	90
MG(1)8024MF-(2)25	24	0.987	34.85	2.79	0.110	2,500	0.11	2.64	28.7	90
MG(1)8024HF-(2)25	24	1.171	41.34	3.71	0.146	3,000	0.16	3.84	32.9	90
MG(1)8024XF-(2)25	24	1.413	49.89	5.19	0.204	3,600	0.23	5.52	37.0	90
MG(1)8024YF-(2)25	24	1.562	55.13	6.21	0.244	3,900	0.26	6.24	38.9	90
MG(1)8024ZF-(2)25	24	1.653	58.35	7.00	0.276	4,200	0.30	7.20	42.0	90
MG(1)8024UF-(2)25	24	1.951	68.88	9.17	0.361	4,800	0.48	11.52	44.9	90
MG(1)8024LR-(2)25	24	0.806	28.46	1.98	0.078	2,100	0.09	2.16	22.9	90
MG(1)8024MR-(2)25	24	0.987	34.85	2.79	0.110	2,500	0.11	2.64	28.8	90
MG(1)8024HR-(2)25	24	1.171	41.34	3.71	0.146	3,000	0.16	3.84	33.0	90
MG(1)8024XR-(2)25	24	1.413	49.89	5.19	0.204	3,600	0.23	5.52	37.1	90
MG(1)8024YR-(2)25	24	1.562	55.13	6.21	0.244	3,900	0.26	6.24	39.0	90
MG(1)8024ZR-(2)25	24	1.653	58.35	7.00	0.276	4,200	0.30	7.20	42.1	90
MG(1)8024UR-(2)25	24	1.951	68.88	9.17	0.361	4,800	0.48	11.52	45.0	90
MG(1)8024LB-(2)25	24	0.806	28.46	1.98	0.078	2,100	0.09	2.16	23.1	90
MG(1)8024MB-(2)25	24	0.987	34.85	2.79	0.110	2,500	0.11	2.64	29.0	90
MG(1)8024HB-(2)25	24	1.171	41.34	3.71	0.146	3,000	0.16	3.84	33.2	90
MG(1)8024XB-(2)25	24	1.413	49.89	5.19	0.204	3,600	0.23	5.52	37.3	90
MG(1)8024YB-(2)25	24	1.562	55.13	6.21	0.244	3,900	0.26	6.24	39.2	90
MG(1)8024ZB-(2)25	24	1.653	58.35	7.00	0.276	4,200	0.30	7.20	42.3	90
MG(1)8024UB-(2)25	24	1.951	68.88	9.17	0.361	4,800	0.48	11.52	45.2	90
MG(1)8048XF-(2)25	48	1.413	49.89	5.19	0.204	3,600	0.08	3.84	37.0	90
MG(1)8048YF-(2)25	48	1.562	55.13	6.21	0.244	3,900	0.13	6.24	38.9	90
MG(1)8048ZF-(2)25	48	1.653	58.35	7.00	0.276	4,200	0.18	8.64	42.0	90
MG(1)8048UF-(2)25	48	1.951	68.88	9.17	0.361	4,800	0.30	14.40	44.9	90
MG(1)8048XR-(2)25	48	1.413	49.89	5.19	0.204	3,600	0.08	3.84	37.1	90
MG(1)8048YR-(2)25	48	1.562	55.13	6.21	0.244	3,900	0.13	6.24	39.0	90
MG(1)8048ZR-(2)25	48	1.653	58.35	7.00	0.276	4,200	0.18	8.64	42.1	90
MG(1)8048UR-(2)25	48	1.951	68.88	9.17	0.361	4,800	0.30	14.40	45.0	90
MG(1)8048XB-(2)25	48	1.413	49.89	5.19	0.204	3,600	0.08	3.84	37.3	90
MG(1)8048YB-(2)25	48	1.562	55.13	6.21	0.244	3,900	0.13	6.24	39.2	90
MG(1)8048ZB-(2)25	48	1.653	58.35	7.00	0.276	4,200	0.18	8.64	42.3	90
MG(1)8048UB-(2)25	48	1.951	68.88	9.17	0.361	4,800	0.30	14.40	45.2	90

Remarks:

(1)-Electric Characteristics:

A: Standard 2-Pin; **T:** Frequency Generation 3-Pin or more.

(2)-Function:

A: None Automatic Restart;

O: Automatic Restart & Locked Current Protection;

R: Rotate Detection Automatic Restart & Locked Current Protection;

S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;

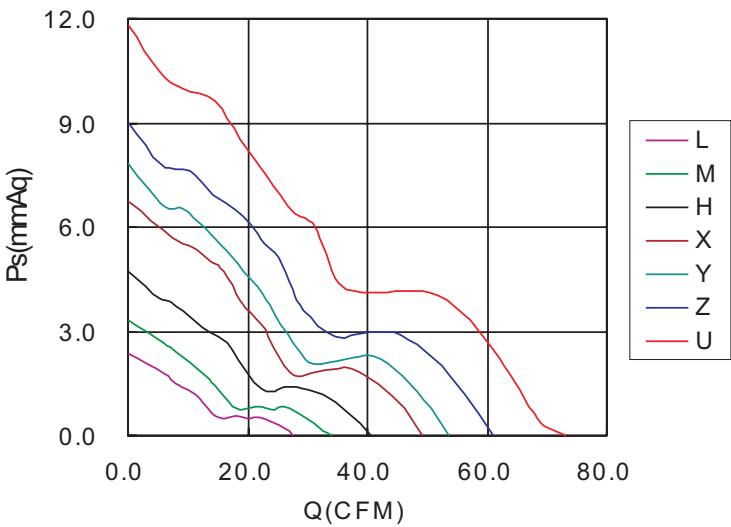
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).

The spec is for reference only, it's subject to change without any prior notice

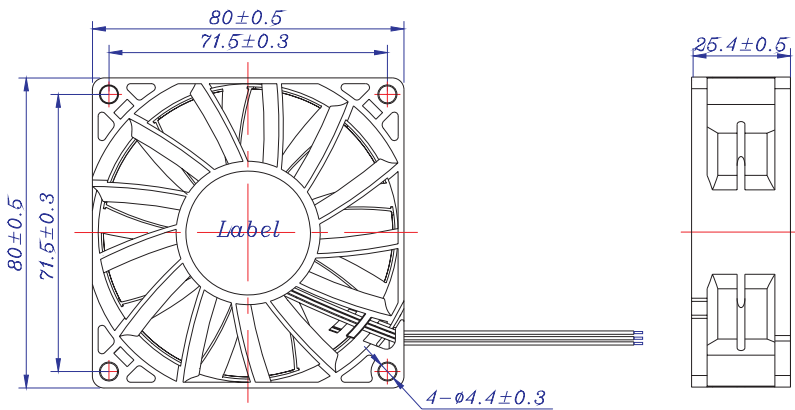
80x80x25mm series C

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446

Protechnic Products

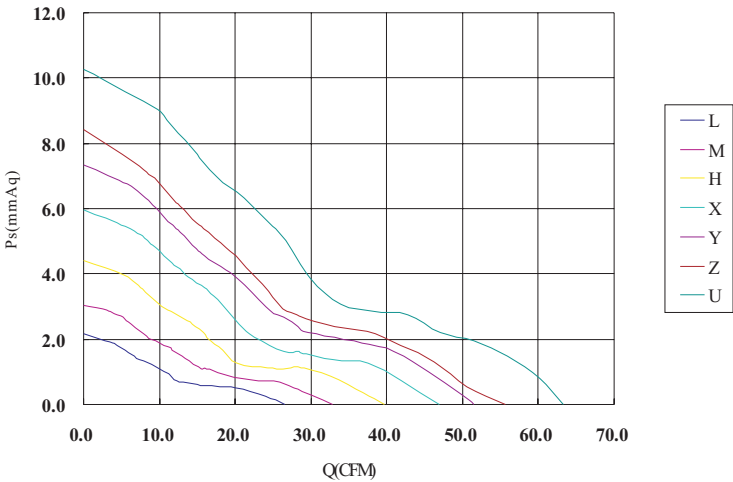
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)8005LB-(2)25	5	0.784	27.67	2.35	0.093	2,100	0.28	1.40	29.4	114
MG(1)8005MB-(2)25	5	0.967	34.12	3.31	0.130	2,500	0.32	1.60	34.5	114
MG(1)8005HB-(2)25	5	1.150	40.59	4.73	0.186	3,000	0.45	2.25	39.3	114
MG(1)8012LB-(2)25	12	0.784	27.67	2.35	0.093	2,100	0.12	1.44	29.4	114
MG(1)8012MB-(2)25	12	0.967	34.12	3.31	0.130	2,500	0.15	1.80	34.5	114
MG(1)8012HB-(2)25	12	1.150	40.59	4.73	0.186	3,000	0.24	2.88	39.3	114
MG(1)8012XB-(2)25	12	1.392	49.15	6.74	0.265	3,600	0.39	4.68	44.0	114
MG(1)8012YB-(2)25	12	1.518	53.59	7.82	0.308	3,900	0.42	5.04	45.5	114
MG(1)8012ZB-(2)25	12	1.729	61.05	9.02	0.355	4,200	0.54	6.48	47.9	114
MG(1)8012UB-(2)25	12	2.077	73.32	11.84	0.466	4,800	0.66	7.92	51.5	114
MG(1)8024LB-(2)25	24	0.784	27.67	2.35	0.093	2,100	0.09	2.16	29.4	114
MG(1)8024MB-(2)25	24	0.967	34.12	3.31	0.130	2,500	0.11	2.64	34.5	114
MG(1)8024HB-(2)25	24	1.150	40.59	4.73	0.186	3,000	0.16	3.84	39.3	114
MG(1)8024XB-(2)25	24	1.392	49.15	6.74	0.265	3,600	0.23	5.52	44.0	114
MG(1)8024YB-(2)25	24	1.518	53.59	7.82	0.308	3,900	0.26	6.24	45.5	114
MG(1)8024ZB-(2)25	24	1.729	61.05	9.02	0.355	4,200	0.30	7.20	47.9	114
MG(1)8024UB-(2)25	24	2.077	73.32	11.84	0.466	4,800	0.48	11.52	51.5	114
MG(1)8048XB-(2)25	48	1.392	49.15	6.74	0.265	3,600	0.08	3.84	44.0	114
MG(1)8048YB-(2)25	48	1.518	53.59	7.82	0.308	3,900	0.13	6.24	45.5	114
MG(1)8048ZB-(2)25	48	1.729	61.05	9.02	0.355	4,200	0.18	8.64	47.9	114
MG(1)8048UB-(2)25	48	2.077	73.32	11.84	0.466	4,800	0.30	14.40	51.5	114

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

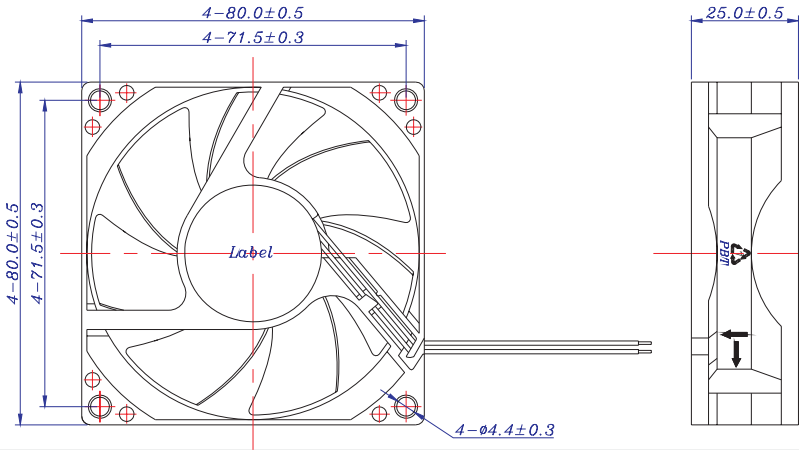
80x80x25mm series D

Bearing Type	☐ 2 Ball	☐ Sleeve	☒ Rifle	☐ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446

Protechnic Products

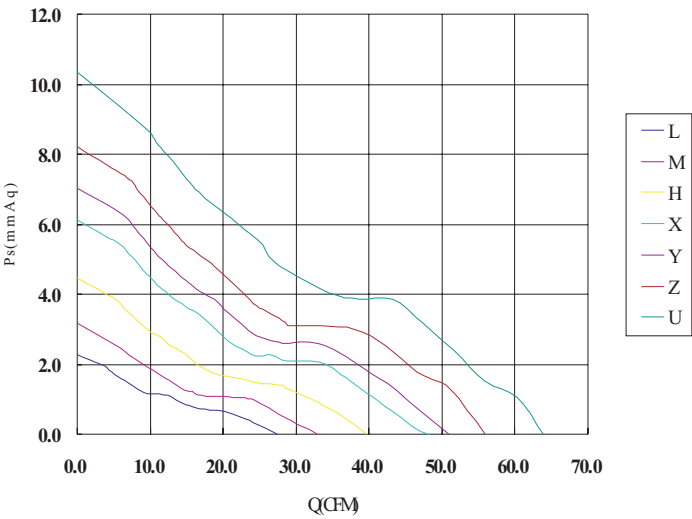
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)8012LR-(2)25	12	0.752	26.53	2.17	0.085	2,100	0.12	1.44	24.6	84
MG(1)8012MR-(2)25	12	0.929	32.81	3.04	0.120	2,500	0.15	1.80	30.3	84
MG(1)8012HR-(2)25	12	1.124	39.67	4.41	0.174	3,000	0.24	2.88	34.5	84
MG(1)8012XR-(2)25	12	1.328	46.87	5.96	0.235	3,600	0.39	4.68	39.5	84
MG(1)8012YR-(2)25	12	1.457	51.43	7.32	0.288	3,900	0.42	5.04	42.1	84
MG(1)8012ZR-(2)25	12	1.575	55.59	8.42	0.331	4,200	0.54	6.48	43.9	84
MG(1)8012UR-(2)25	12	1.793	63.29	10.27	0.404	4,800	0.66	7.92	48.5	84
MG(1)8024LR-(2)25	24	0.752	26.53	2.17	0.085	2,100	0.09	2.16	24.6	84
MG(1)8024MR-(2)25	24	0.929	32.81	3.04	0.120	2,500	0.11	2.64	30.3	84
MG(1)8024HR-(2)25	24	1.124	39.67	4.41	0.174	3,000	0.16	3.84	34.5	84
MG(1)8024XR-(2)25	24	1.328	46.87	5.96	0.235	3,600	0.23	5.52	39.5	84
MG(1)8024YR-(2)25	24	1.457	51.43	7.32	0.288	3,900	0.26	6.24	42.1	84
MG(1)8024ZR-(2)25	24	1.575	55.59	8.42	0.331	4,200	0.30	7.20	43.9	84
MG(1)8024UR-(2)25	24	1.793	63.29	10.27	0.404	4,800	0.48	11.52	48.5	84

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

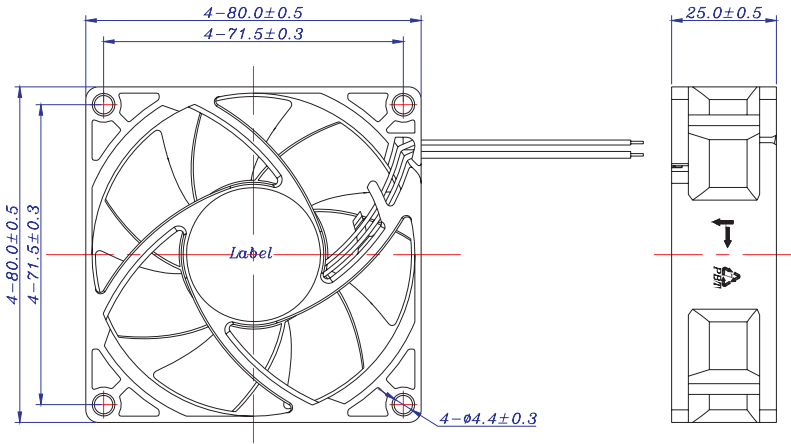
80x80x25mm series E

Bearing Type	☐ 2 Ball	☐ Sleeve	☒ Rifle	☐ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

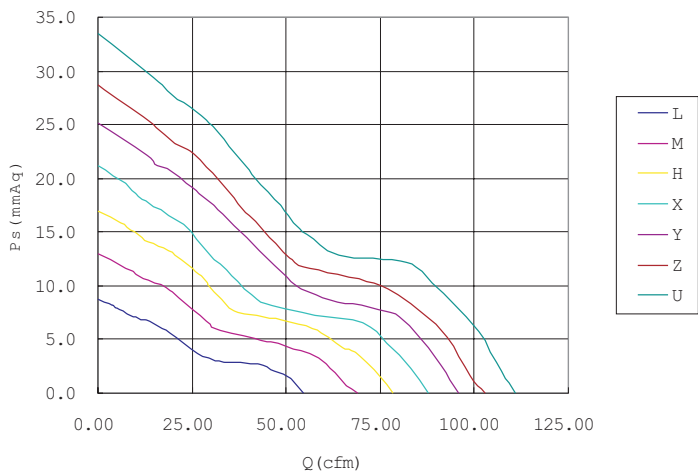
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)8012LR-(2)25	12	0.778	27.47	2.27	0.089	2,100	0.12	1.44	22.6	84
MG(1)8012MR-(2)25	12	0.933	32.92	3.17	0.125	2,500	0.15	1.80	28.2	84
MG(1)8012HR-(2)25	12	1.124	39.66	4.46	0.176	3,000	0.24	2.88	33.3	84
MG(1)8012XR-(2)25	12	1.367	48.27	6.13	0.241	3,600	0.39	4.68	38.6	84
MG(1)8012YR-(2)25	12	1.442	50.90	7.04	0.277	3,900	0.42	5.04	41.1	84
MG(1)8012ZR-(2)25	12	1.584	55.90	8.22	0.324	4,200	0.54	6.48	42.9	84
MG(1)8012UR-(2)25	12	1.810	63.91	10.33	0.407	4,800	0.66	7.92	47.6	84
MG(1)8024LR-(2)25	24	0.778	27.47	2.27	0.089	2,100	0.09	2.16	22.6	84
MG(1)8024MR-(2)25	24	0.933	32.92	3.17	0.125	2,500	0.11	2.64	28.2	84
MG(1)8024HR-(2)25	24	1.124	39.66	4.46	0.176	3,000	0.16	3.84	33.3	84
MG(1)8024XR-(2)25	24	1.367	48.27	6.13	0.241	3,600	0.23	5.52	38.6	84
MG(1)8024YR-(2)25	24	1.442	50.90	7.04	0.277	3,900	0.26	6.24	41.1	84
MG(1)8024ZR-(2)25	24	1.584	55.90	8.22	0.324	4,200	0.30	7.20	42.9	84
MG(1)8024UR-(2)25	24	1.810	63.91	10.33	0.407	4,800	0.48	11.52	47.6	84

Remarks:
(1)-Electric Characteristics:
 A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
 A: None Automatic Restart;
 O: Automatic Restart & Locked Current Protection;
 R: Rotate Detection Automatic Restart & Locked Current Protection;
 S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
 W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
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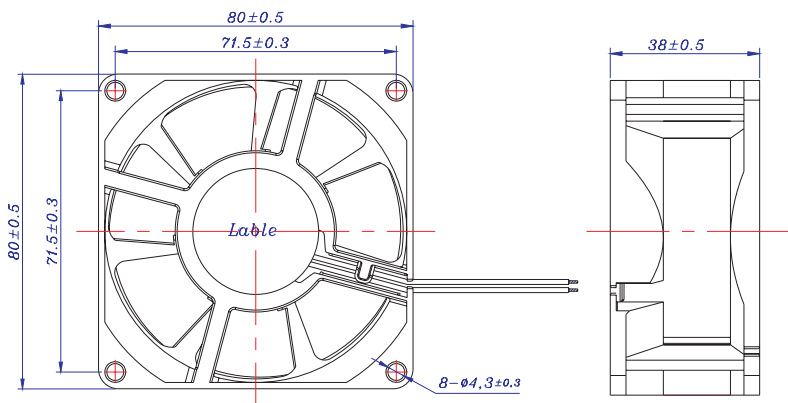
80x80x38mm series B

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

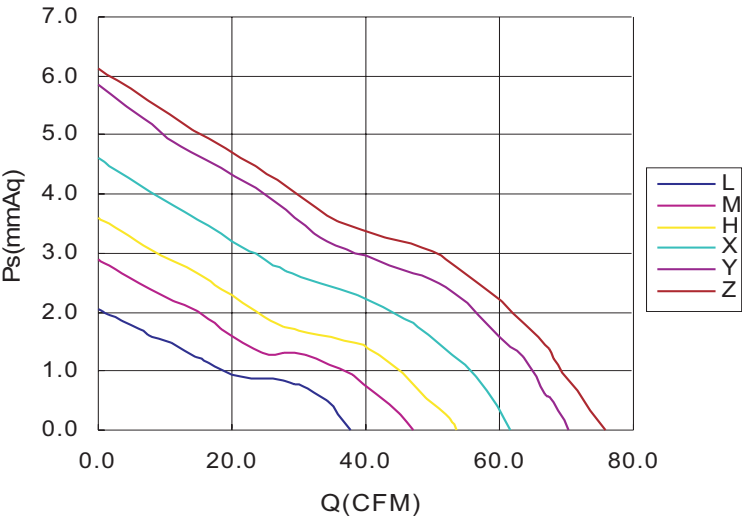
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)8012LB-(2)38	12	1.550	54.73	8.74	0.344	4,000	0.40	4.80	39.0	215
MG(1)8012MB-(2)38	12	1.954	68.98	12.98	0.511	4,800	0.54	6.48	45.8	215
MG(1)8012HB-(2)38	12	2.218	78.29	17.00	0.669	5,600	0.80	9.60	50.0	215
MG(1)8012XB-(2)38	12	2.488	87.83	21.20	0.835	6,300	1.20	14.40	53.5	215
MG(1)8012YB-(2)38	12	2.713	95.78	25.20	0.992	6,900	1.80	21.60	57.1	215
MG(1)8012ZB-(2)38	12	2.912	102.79	28.70	1.130	7,500	2.10	25.20	57.8	215
MG(1)8012UB-(2)38	12	3.146	111.04	33.50	1.319	8,100	2.60	31.20	59.1	215
MG(1)8024LB-(2)38	24	1.550	54.73	8.74	0.344	4,000	0.20	4.80	39.0	215
MG(1)8024MB-(2)38	24	1.954	68.98	12.98	0.511	4,800	0.32	7.68	45.8	215
MG(1)8024HB-(2)38	24	2.218	78.29	17.00	0.669	5,600	0.38	9.12	50.0	215
MG(1)8024XB-(2)38	24	2.488	87.83	21.20	0.835	6,300	0.54	12.96	53.5	215
MG(1)8024YB-(2)38	24	2.713	95.78	25.20	0.992	6,900	0.90	21.60	57.1	215
MG(1)8024ZB-(2)38	24	2.912	102.79	28.70	1.130	7,500	1.10	26.40	57.8	215
MG(1)8024UB-(2)38	24	3.146	111.04	33.50	1.319	8,100	1.30	31.20	59.1	215
MG(1)8048MB-(2)38	48	1.954	68.98	12.98	0.511	4,800	0.20	9.60	39.0	215
MG(1)8048HB-(2)38	48	2.218	78.29	17.00	0.669	5,600	0.24	11.52	45.8	215
MG(1)8048XB-(2)38	48	2.488	87.83	21.20	0.835	6,300	0.34	16.32	50.0	215
MG(1)8048YB-(2)38	48	2.713	95.78	25.20	0.992	6,900	0.52	24.96	53.5	215

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
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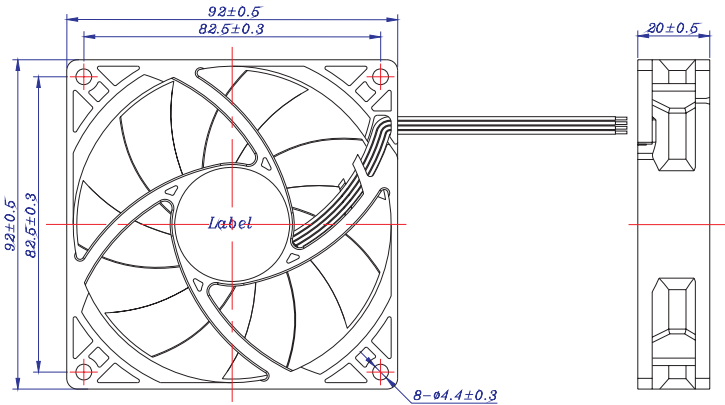
92x92x20mm series

Bearing Type	☒ 2 Ball	☐ Sleeve	☒ Rifle	☒ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mm Aq)	(inch Aq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)9212LF-(2)20	12	1.076	38.00	2.10	0.083	2,100	0.16	1.92	29.0	81
MG(1)9212MF-(2)20	12	1.331	47.00	2.90	0.114	2,500	0.25	3.00	32.7	81
MG(1)9212HF-(2)20	12	1.521	53.70	3.61	0.142	2,900	0.30	3.60	36.2	81
MG(1)9212XF-(2)20	12	1.743	61.55	4.62	0.182	3,400	0.38	4.56	40.2	81
MG(1)9212YF-(2)20	12	1.992	70.32	5.84	0.230	3,800	0.48	5.76	43.2	81
MG(1)9212ZF-(2)20	12	2.151	75.94	6.20	0.244	4,100	0.58	6.96	45.3	81
MG(1)9212LR-(2)20	12	1.076	38.00	2.10	0.083	2,100	0.16	1.92	29.1	81
MG(1)9212MR-(2)20	12	1.331	47.00	2.90	0.114	2,500	0.25	3.00	33.0	81
MG(1)9212HR-(2)20	12	1.521	53.70	3.61	0.142	2,900	0.30	3.60	36.4	81
MG(1)9212XR-(2)20	12	1.743	61.55	4.62	0.182	3,400	0.38	4.56	40.4	81
MG(1)9212YR-(2)20	12	1.992	70.32	5.84	0.230	3,800	0.48	5.76	43.4	81
MG(1)9212ZR-(2)20	12	2.151	75.94	6.20	0.244	4,100	0.58	6.96	45.4	81
MG(1)9212LB-(2)20	12	1.076	38.00	2.10	0.083	2,100	0.16	1.92	29.2	81
MG(1)9212MB-(2)20	12	1.331	47.00	2.90	0.114	2,500	0.25	3.00	33.3	81
MG(1)9212HB-(2)20	12	1.521	53.70	3.61	0.142	2,900	0.30	3.60	36.6	81
MG(1)9212XB-(2)20	12	1.743	61.55	4.62	0.182	3,400	0.38	4.56	40.5	81
MG(1)9212YB-(2)20	12	1.992	70.32	5.84	0.230	3,800	0.48	5.76	43.5	81
MG(1)9212ZB-(2)20	12	2.151	75.94	6.20	0.244	4,100	0.58	6.96	45.5	81
MG(1)9224LF-(2)20	24	1.076	38.00	2.10	0.083	2,100	0.13	3.12	29.0	81
MG(1)9224MF-(2)20	24	1.331	47.00	2.90	0.114	2,500	0.18	4.32	32.7	81
MG(1)9224HF-(2)20	24	1.521	53.70	3.61	0.142	2,900	0.24	5.76	36.2	81
MG(1)9224XF-(2)20	24	1.743	61.55	4.62	0.182	3,400	0.30	7.20	40.2	81
MG(1)9224YF-(2)20	24	1.992	70.32	5.84	0.230	3,800	0.40	9.60	43.2	81
MG(1)9224ZF-(2)20	24	2.151	75.94	6.20	0.244	4,100	0.50	12.00	45.3	81
MG(1)9224LR-(2)20	24	1.076	38.00	2.10	0.083	2,100	0.13	3.12	29.1	81
MG(1)9224MR-(2)20	24	1.331	47.00	2.90	0.114	2,500	0.18	4.32	33.0	81
MG(1)9224HR-(2)20	24	1.521	53.70	3.61	0.142	2,900	0.24	5.76	36.4	81
MG(1)9224XR-(2)20	24	1.743	61.55	4.62	0.182	3,400	0.30	7.20	40.4	81
MG(1)9224YR-(2)20	24	1.992	70.32	5.84	0.230	3,800	0.40	9.60	43.4	81
MG(1)9224ZR-(2)20	24	2.151	75.94	6.20	0.244	4,100	0.50	12.00	45.4	81
MG(1)9224LB-(2)20	24	1.076	38.00	2.10	0.083	2,100	0.13	3.12	29.2	81
MG(1)9224MB-(2)20	24	1.331	47.00	2.90	0.114	2,500	0.18	4.32	33.3	81
MG(1)9224HB-(2)20	24	1.521	53.70	3.61	0.142	2,900	0.24	5.76	36.6	81
MG(1)9224XB-(2)20	24	1.743	61.55	4.62	0.182	3,400	0.30	7.20	40.5	81
MG(1)9224YB-(2)20	24	1.992	70.32	5.84	0.230	3,800	0.40	9.60	43.5	81
MG(1)9224ZB-(2)20	24	2.151	75.94	6.20	0.244	4,100	0.50	12.00	45.5	81

Remarks:

(1)-Electric Characteristics:

A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.

(2)-Function:

A: None Automatic Restart;

O: Automatic Restart & Locked Current Protection;

R: Rotate Detection Automatic Restart & Locked Current Protection;

S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;

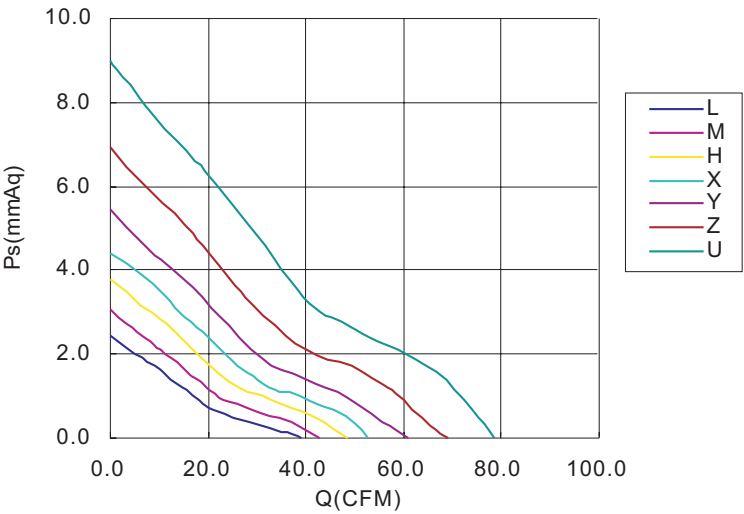
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).

The spec is for reference only, it's subject to change without any prior notice

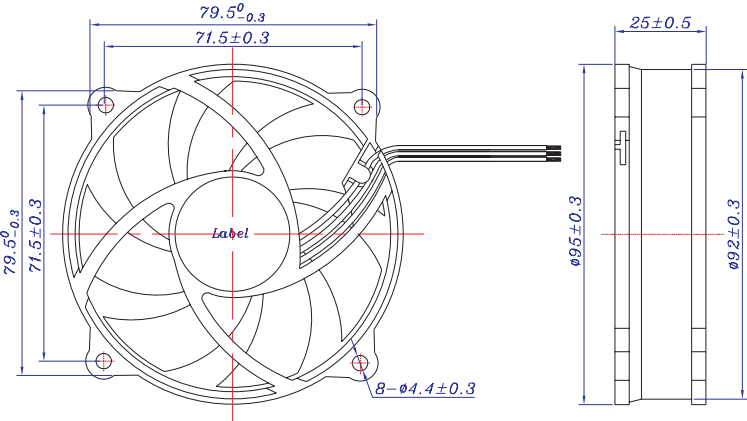
92x92x25mm series B

Bearing Type	☒ 2 Ball	☐ Sleeve	☒ Rifle	☐ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

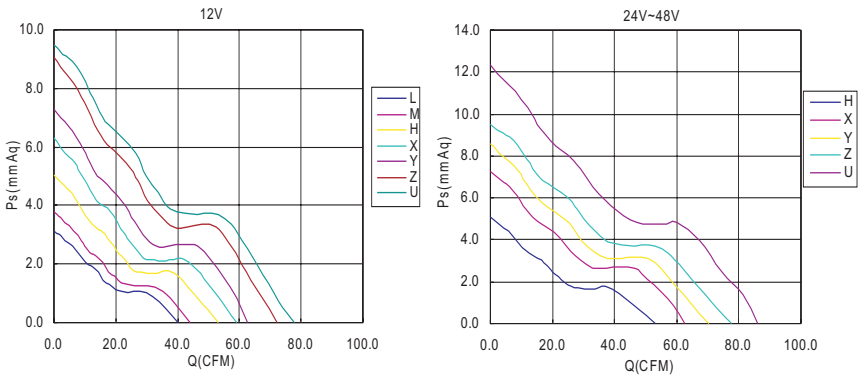
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)9212LR-(2)25	12	1.108	39.10	2.43	0.096	2,100	0.15	1.80	27.1	93
MG(1)9212MR-(2)25	12	1.213	42.81	3.04	0.120	2,300	0.17	2.04	29.7	93
MG(1)9212HR-(2)25	12	1.371	48.40	3.80	0.150	2,600	0.25	3.00	31.0	93
MG(1)9212XR-(2)25	12	1.474	52.03	4.41	0.174	2,900	0.32	3.84	33.5	93
MG(1)9212YR-(2)25	12	1.728	60.99	5.47	0.215	3,200	0.41	4.92	36.5	93
MG(1)9212ZR-(2)25	12	1.962	69.27	6.95	0.274	3,600	0.47	5.64	40.2	93
MG(1)9212UR-(2)25	12	2.229	78.69	9.01	0.355	4,200	0.54	6.48	44.8	93

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

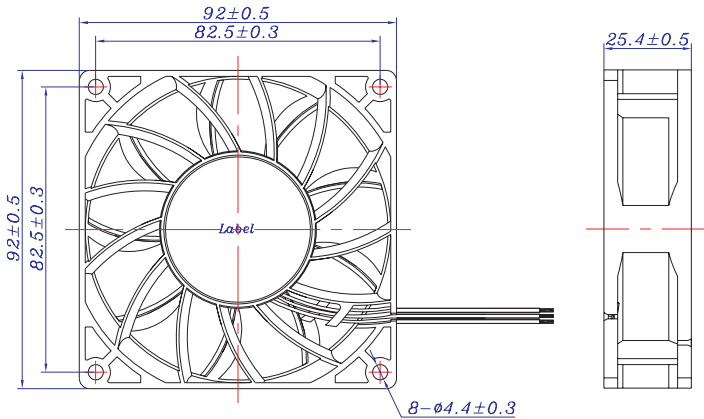
92x92x25mm series C

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☐ ±5% Speed tolerance	☒ ±10% Speed tolerance		
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

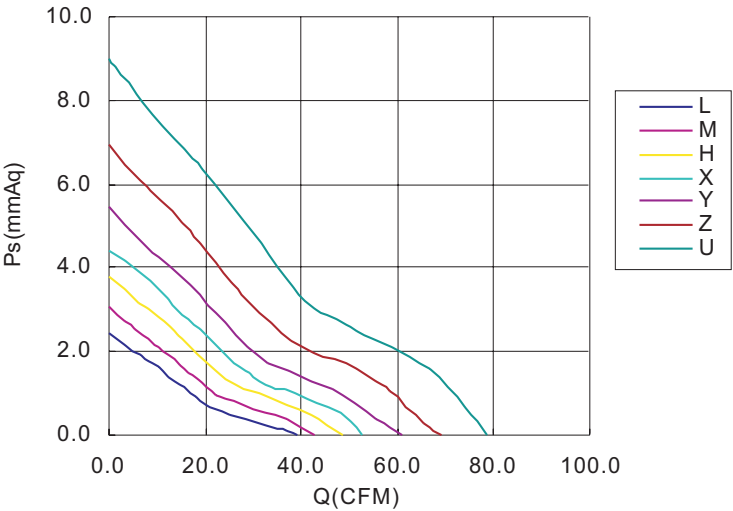
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)9212LB-(2)25	12	1.139	40.21	3.14	0.124	2,100	0.15	1.80	32.5	155
MG(1)9212MB-(2)25	12	1.247	44.04	3.77	0.148	2,300	0.17	2.04	35.1	155
MG(1)9212HB-(2)25	12	1.502	53.03	5.07	0.200	2,600	0.25	3.00	38.6	155
MG(1)9212XB-(2)25	12	1.675	59.15	6.31	0.248	2,900	0.32	3.84	41.1	155
MG(1)9212YB-(2)25	12	1.771	62.54	7.28	0.287	3,200	0.41	4.92	44.1	155
MG(1)9212ZB-(2)25	12	2.048	72.33	9.06	0.357	3,600	0.47	5.64	47.1	155
MG(1)9212UB-(2)25	12	2.202	77.76	9.49	0.374	3,800	0.54	6.48	48.8	155
MG(1)9224HB-(2)25	24	1.502	53.03	5.07	0.200	2,600	0.19	4.56	38.6	155
MG(1)9224XB-(2)25	24	1.771	62.54	7.28	0.287	3,200	0.22	5.28	44.1	155
MG(1)9224YB-(2)25	24	1.992	70.32	8.56	0.337	3,500	0.27	6.48	46.8	155
MG(1)9224ZB-(2)25	24	2.202	77.76	9.49	0.374	3,800	0.40	9.60	48.8	155
MG(1)9224UB-(2)25	24	2.443	86.25	12.37	0.487	4,300	0.48	11.52	52.9	155
MG(1)9248XB-(2)25	48	1.771	62.54	7.28	0.287	3,200	0.12	5.76	44.1	155
MG(1)9248YB-(2)25	48	1.992	70.32	8.56	0.337	3,500	0.16	7.68	46.8	155
MG(1)9248ZB-(2)25	48	2.202	77.76	9.49	0.374	3,800	0.20	9.60	48.8	155
MG(1)9248UB-(2)25	48	2.443	86.25	12.37	0.487	4,300	0.25	12.00	52.9	155

Remarks:
(1)-Electric Characteristics:
 A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
 A: None Automatic Restart;
 O: Automatic Restart & Locked Current Protection;
 R: Rotate Detection Automatic Restart & Locked Current Protection;
 S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
 W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
 The spec is for reference only, it's subject to change without any prior notice

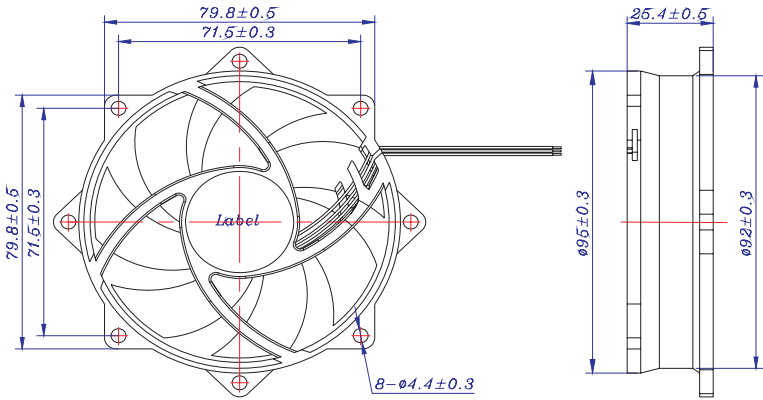
92x92x25mm series G

Bearing Type	☐ 2 Ball	☐ Sleeve	☒ Rifle	☐ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

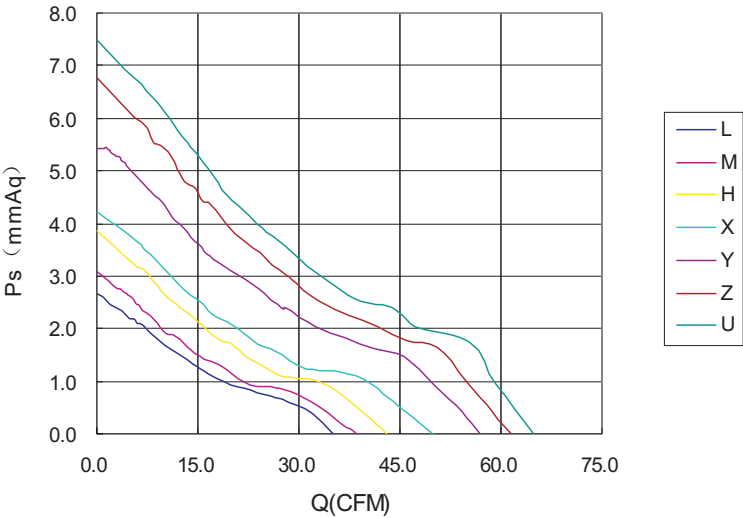
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)9212LR-(2)25	12	1.108	39.10	2.43	0.096	2,100	0.15	1.80	27.1	93
MG(1)9212MR-(2)25	12	1.213	42.81	3.04	0.120	2,300	0.17	2.04	29.7	93
MG(1)9212HR-(2)25	12	1.371	48.40	3.80	0.150	2,600	0.25	3.00	31.0	93
MG(1)9212XR-(2)25	12	1.474	52.03	4.41	0.174	2,900	0.32	3.84	33.5	93
MG(1)9212YR-(2)25	12	1.728	60.99	5.47	0.215	3,200	0.41	4.92	36.5	93
MG(1)9212ZR-(2)25	12	1.962	69.27	6.95	0.274	3,600	0.47	5.64	40.2	93
MG(1)9212UR-(2)25	12	2.229	78.69	9.01	0.355	4,200	0.54	6.48	44.8	93

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

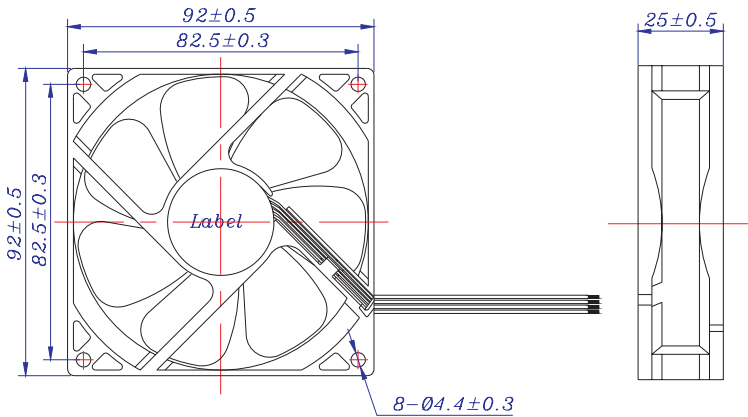
92x92x25mm series H

Bearing Type	☒ 2 Ball	☐ Sleeve	☒ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446

Protechnic Products

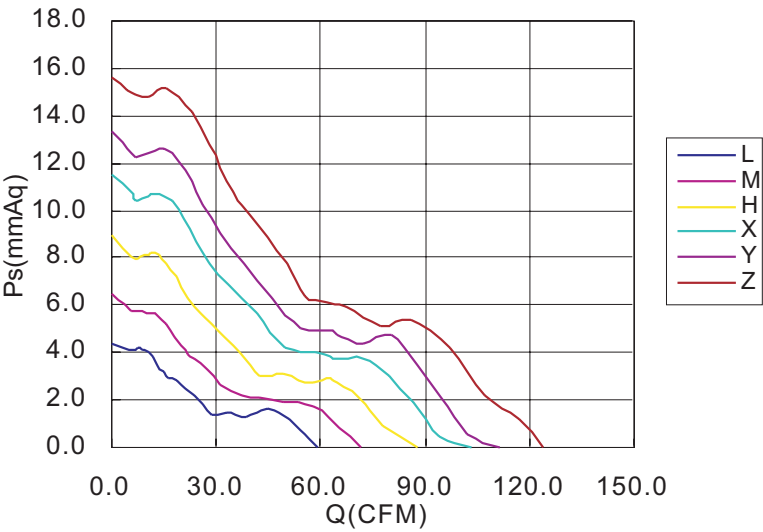
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)9212LR-(2)25	12	1.010	35.10	2.68	0.100	2,100	0.15	1.80	26.7	97
MG(1)9212MR-(2)25	12	1.090	38.50	3.08	0.120	2,300	0.17	2.04	30.7	97
MG(1)9212HR-(2)25	12	1.220	43.10	3.88	0.150	2,600	0.25	3.00	33.7	97
MG(1)9212XR-(2)25	12	1.400	49.70	4.22	0.170	2,900	0.32	3.84	36.1	97
MG(1)9212YR-(2)25	12	1.610	56.90	5.43	0.210	3,200	0.41	4.92	40.9	97
MG(1)9212ZR-(2)25	12	1.740	61.50	6.78	0.270	3,600	0.47	5.64	43.9	97
MG(1)9212UR-(2)25	12	1.830	64.80	7.50	0.290	3,800	0.54	6.48	45.6	97
MG(1)9212LB-(2)25	12	1.010	35.10	2.68	0.100	2,100	0.15	1.80	26.7	97
MG(1)9212MB-(2)25	12	1.090	38.50	3.08	0.120	2,300	0.17	2.04	30.7	97
MG(1)9212HB-(2)25	12	1.220	43.10	3.88	0.150	2,600	0.25	3.00	33.7	97
MG(1)9212XB-(2)25	12	1.400	49.70	4.22	0.170	2,900	0.32	3.84	36.1	97
MG(1)9212YB-(2)25	12	1.610	56.90	5.43	0.210	3,200	0.41	4.92	40.9	97
MG(1)9212ZB-(2)25	12	1.740	61.50	6.78	0.270	3,600	0.47	5.64	43.9	97
MG(1)9212UB-(2)25	12	1.830	64.80	7.50	0.290	3,800	0.54	6.48	45.6	97

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

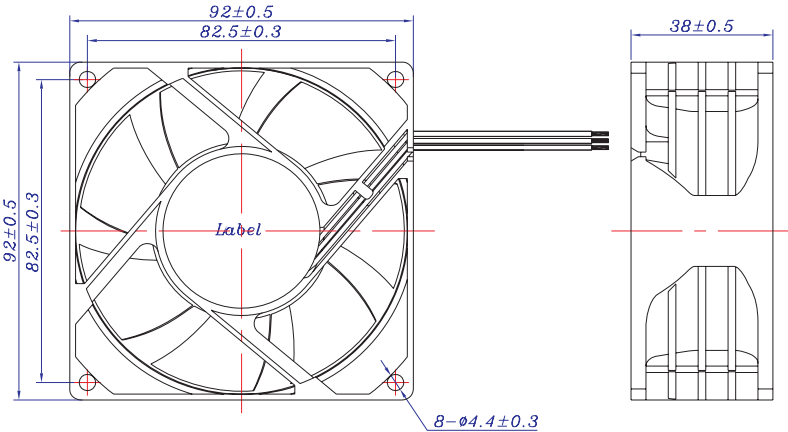
92x92x38mm series B

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☒ Class II	☐ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

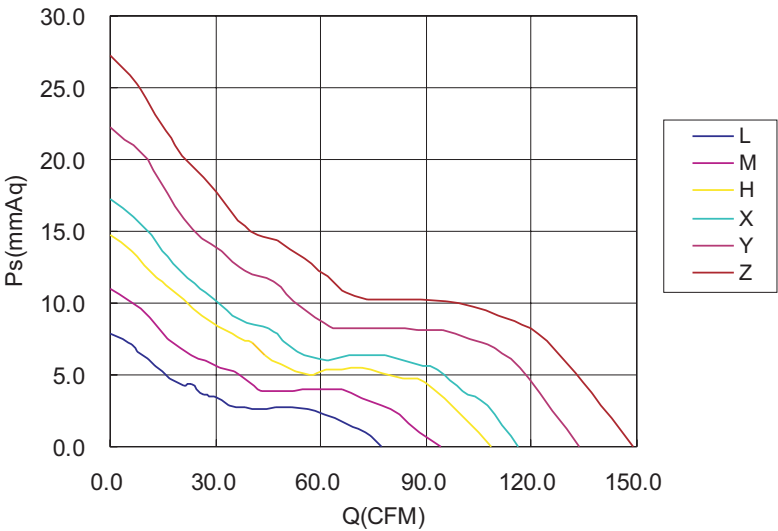
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)9212LB-(2)38	12	1.682	59.39	4.40	0.173	2,800	0.35	4.20	38.1	252
MG(1)9212MB-(2)38	12	2.028	71.59	6.50	0.256	3,200	0.50	6.00	42.1	252
MG(1)9212HB-(2)38	12	2.491	87.93	8.92	0.351	3,800	0.75	9.00	47.5	252
MG(1)9212XB-(2)38	12	2.929	103.40	11.50	0.453	4,400	1.00	12.00	51.3	252
MG(1)9212YB-(2)38	12	3.153	111.31	13.37	0.526	4,800	1.50	18.00	53.6	252
MG(1)9212ZB-(2)38	12	3.514	124.06	15.60	0.614	5,200	1.90	22.80	55.8	252
MG(1)9224MB-(2)38	24	2.028	71.59	6.50	0.256	3,200	0.28	6.72	42.1	252
MG(1)9224HB-(2)38	24	2.491	87.93	8.92	0.351	3,800	0.40	9.60	47.5	252
MG(1)9224XB-(2)38	24	2.929	103.40	11.50	0.453	4,400	0.50	12.00	51.3	252
MG(1)9224YB-(2)38	24	3.153	111.31	13.37	0.526	4,800	0.70	16.80	53.6	252
MG(1)9224ZB-(2)38	24	3.514	124.06	15.60	0.614	5,200	1.00	24.00	55.8	252
MG(1)9248MB-(2)38	48	2.028	71.59	6.50	0.256	3,200	0.20	9.60	42.1	252
MG(1)9248HB-(2)38	48	2.491	87.93	8.92	0.351	3,800	0.28	13.44	47.5	252
MG(1)9248XB-(2)38	48	2.929	103.40	11.50	0.453	4,400	0.36	17.28	51.3	252
MG(1)9248YB-(2)38	48	3.153	111.31	13.37	0.526	4,800	0.54	25.92	53.6	252
MG(1)9248ZB-(2)38	48	3.514	124.06	15.60	0.614	5,200	0.65	31.20	55.8	252

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
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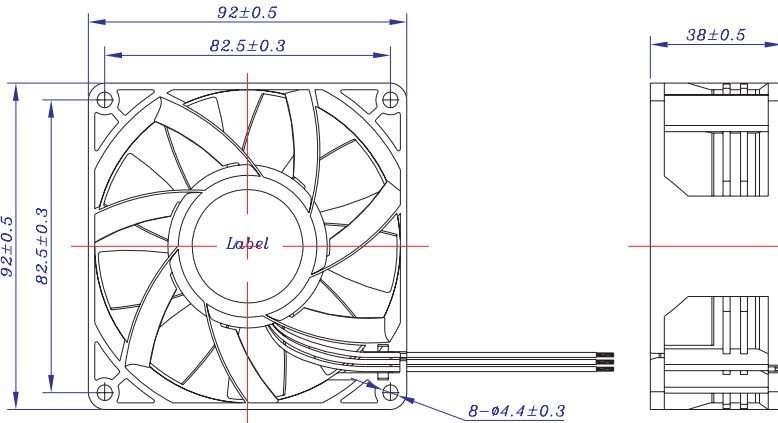
92x92x38mm series C

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance	☒ ±10% Speed tolerance		
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

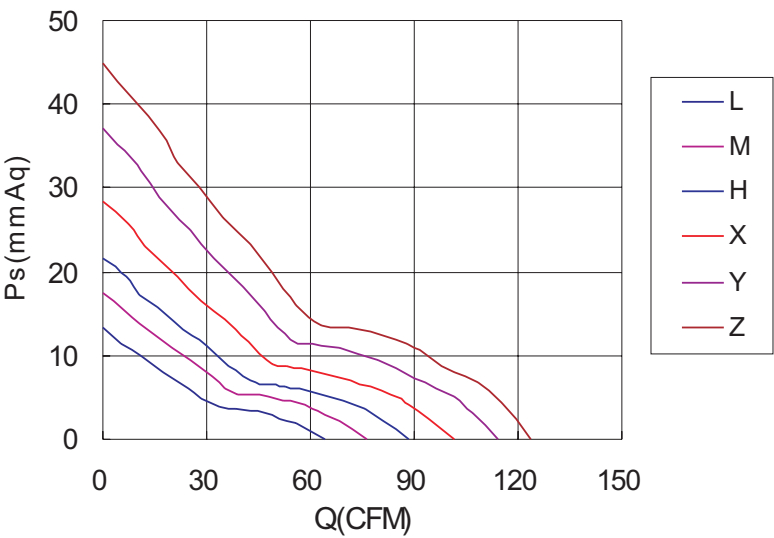
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)9212LB-(2)38	12	2.190	77.38	7.86	0.310	3,200	0.35	4.20	43.6	230
MG(1)9212MB-(2)38	12	2.660	94.13	11.05	0.435	3,800	0.50	6.00	49.0	230
MG(1)9212HB-(2)38	12	3.070	108.33	14.81	0.583	4,400	0.75	9.00	53.2	230
MG(1)9212XB-(2)38	12	3.280	116.03	17.30	0.681	4,800	1.00	12.00	55.5	230
MG(1)9212YB-(2)38	12	3.780	133.63	22.30	0.878	5,400	1.50	18.00	58.1	230
MG(1)9212ZB-(2)38	12	4.210	148.79	27.20	1.071	6,000	1.90	22.80	61.3	230
MG(1)9224LB-(2)38	24	2.190	77.38	7.86	0.310	3,200	0.18	4.32	43.6	230
MG(1)9224MB-(2)38	24	2.660	94.13	11.05	0.435	3,800	0.28	6.72	49.0	230
MG(1)9224HB-(2)38	24	3.070	108.33	14.81	0.583	4,400	0.40	9.60	53.2	230
MG(1)9224XB-(2)38	24	3.280	116.03	17.30	0.681	4,800	0.50	12.00	55.5	230
MG(1)9224YB-(2)38	24	3.780	133.63	22.30	0.878	5,400	0.70	16.80	58.1	230
MG(1)9224ZB-(2)38	24	4.210	148.79	27.20	1.071	6,000	1.00	24.00	61.3	230
MG(1)9248MB-(2)38	48	2.660	94.13	11.05	0.435	3,800	0.20	9.60	49.0	230
MG(1)9248HB-(2)38	48	3.070	108.33	14.81	0.583	4,400	0.28	13.44	53.2	230
MG(1)9248XB-(2)38	48	3.280	116.03	17.30	0.681	4,800	0.36	17.28	55.5	230
MG(1)9248YB-(2)38	48	3.780	133.63	22.30	0.878	5,400	0.54	25.92	58.1	230
MG(1)9248ZB-(2)38	48	4.210	148.79	27.20	1.071	6,000	0.65	31.20	61.3	230

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

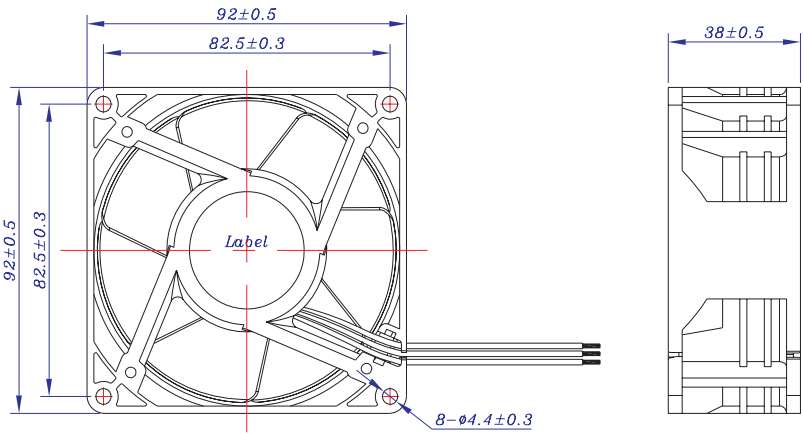
92x92x38mm series D

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446

Protechnic Products

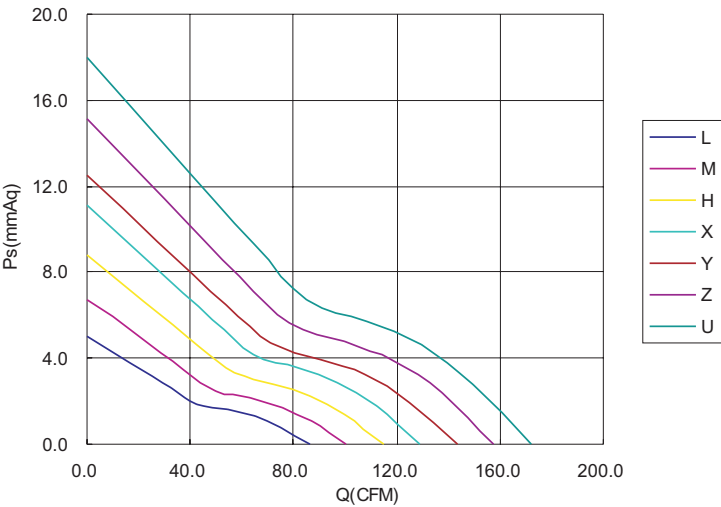
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)9212LB-(2)38	12	1.820	64.11	13.32	0.524	4,400	0.35	4.20	44.4	225
MG(1)9212MB-(2)38	12	2.160	76.30	17.50	0.689	5,200	0.50	6.00	48.3	225
MG(1)9212HB-(2)38	12	2.500	88.40	21.60	0.850	6,000	0.75	9.00	52.5	225
MG(1)9212XB-(2)38	12	2.870	101.38	28.50	1.122	6,900	1.00	12.00	56.1	225
MG(1)9212YB-(2)38	12	3.230	113.97	37.20	1.465	7,800	1.50	18.00	58.8	225
MG(1)9212ZB-(2)38	12	3.510	123.86	44.80	1.764	8,500	1.90	22.80	62.0	225
MG(1)9224LB-(2)38	24	1.820	64.11	13.32	0.524	4,400	0.18	4.32	44.4	225
MG(1)9224MB-(2)38	24	2.160	76.30	17.50	0.689	5,200	0.28	6.72	48.3	225
MG(1)9224HB-(2)38	24	2.500	88.40	21.60	0.850	6,000	0.40	9.60	52.5	225
MG(1)9224XB-(2)38	24	2.870	101.38	28.50	1.122	6,900	0.50	12.00	56.1	225
MG(1)9224YB-(2)38	24	3.230	113.97	37.20	1.465	7,800	0.70	16.80	58.8	225
MG(1)9224ZB-(2)38	24	3.510	123.86	44.80	1.764	8,500	1.00	24.00	62.0	225
MG(1)9248MB-(2)38	48	2.160	76.30	17.50	0.689	5,200	0.20	9.60	48.3	225
MG(1)9248HB-(2)38	48	2.500	88.40	21.60	0.850	6,000	0.28	13.44	52.5	225
MG(1)9248XB-(2)38	48	2.870	101.38	28.50	1.122	6,900	0.36	17.28	56.1	225
MG(1)9248YB-(2)38	48	3.230	113.97	37.20	1.465	7,800	0.54	25.92	58.8	225
MG(1)9248ZB-(2)38	48	3.510	123.86	44.80	1.764	8,500	0.65	31.20	62.0	225

Remarks:
(1)-Electric Characteristics:
 A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
 A: None Automatic Restart;
 O: Automatic Restart & Locked Current Protection;
 R: Rotate Detection Automatic Restart & Locked Current Protection;
 S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
 W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
 The spec is for reference only, it's subject to change without any prior notice

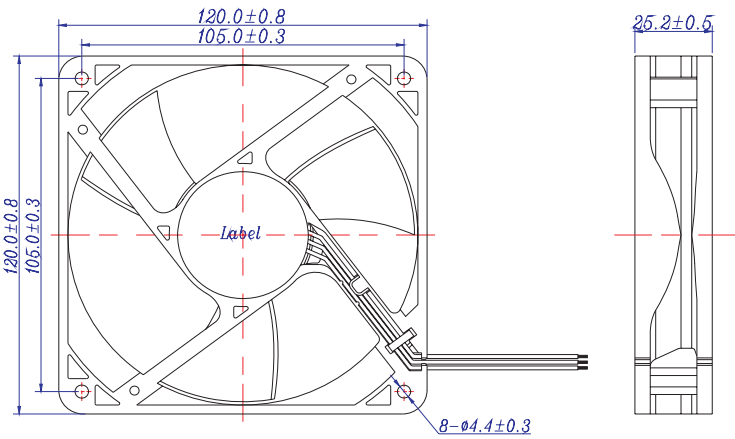
120x120x25mm series A

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☒ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☒ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

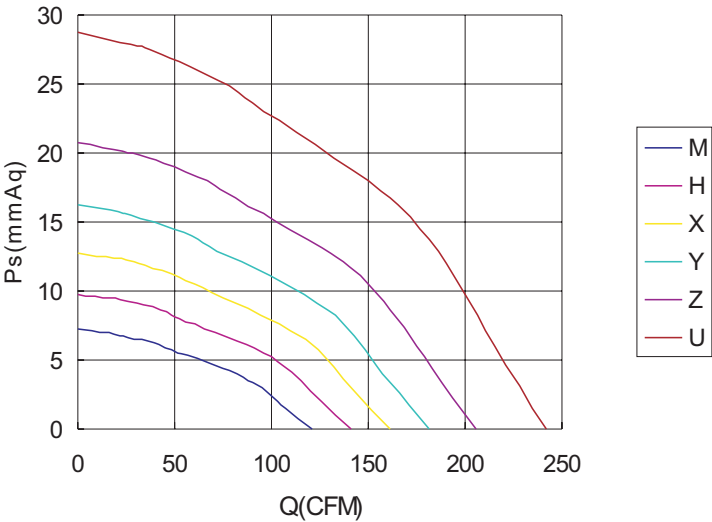
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)12012LB-(2)25	12	2.440	86.13	5.00	0.197	3,000	0.40	4.80	42.0	200
MG(1)12012MB-(2)25	12	2.840	100.25	6.70	0.264	3,500	0.50	6.00	46.0	200
MG(1)12012HB-(2)25	12	3.250	114.73	8.80	0.346	4,000	0.65	7.80	51.0	200
MG(1)12012XB-(2)25	12	3.660	129.20	11.14	0.438	4,500	0.90	10.80	55.0	200
MG(1)12012YB-(2)25	12	4.060	143.32	12.50	0.492	5,000	1.20	14.40	58.0	200
MG(1)12012ZB-(2)25	12	4.466	157.65	15.13	0.596	5,500	1.60	19.20	61.0	200
MG(1)12012UB-(2)25	12	4.872	171.98	18.00	0.709	6,000	2.00	24.00	64.0	200
MG(1)12024LB-(2)25	24	2.440	86.13	5.00	0.197	3,000	0.20	4.80	42.0	200
MG(1)12024MB-(2)25	24	2.840	100.25	6.70	0.264	3,500	0.25	6.00	46.0	200
MG(1)12024HB-(2)25	24	3.250	114.73	8.80	0.346	4,000	0.35	8.40	51.0	200
MG(1)12024XB-(2)25	24	3.660	129.20	11.14	0.438	4,500	0.45	10.80	55.0	200
MG(1)12024YB-(2)25	24	4.060	143.32	12.50	0.492	5,000	0.60	14.40	58.0	200
MG(1)12024ZB-(2)25	24	4.466	157.65	15.13	0.596	5,500	0.80	19.20	61.0	200
MG(1)12024UB-(2)25	24	4.872	171.98	18.00	0.709	6,000	1.00	24.00	64.0	200
MG(1)12048LB-(2)25	48	2.440	86.13	5.00	0.197	3,000	0.10	4.80	42.0	200
MG(1)12048MB-(2)25	48	2.840	100.25	6.70	0.264	3,500	0.15	7.20	46.0	200
MG(1)12048HB-(2)25	48	3.250	114.73	8.80	0.346	4,000	0.20	9.60	51.0	200
MG(1)12048XB-(2)25	48	3.660	129.20	11.14	0.438	4,500	0.25	12.00	55.0	200
MG(1)12048YB-(2)25	48	4.060	143.32	12.50	0.492	5,000	0.30	14.40	58.0	200
MG(1)12048ZB-(2)25	48	4.466	157.65	15.13	0.596	5,500	0.40	19.20	61.0	200
MG(1)12048UB-(2)25	48	4.872	171.98	18.00	0.709	6,000	0.50	24.00	64.0	200

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
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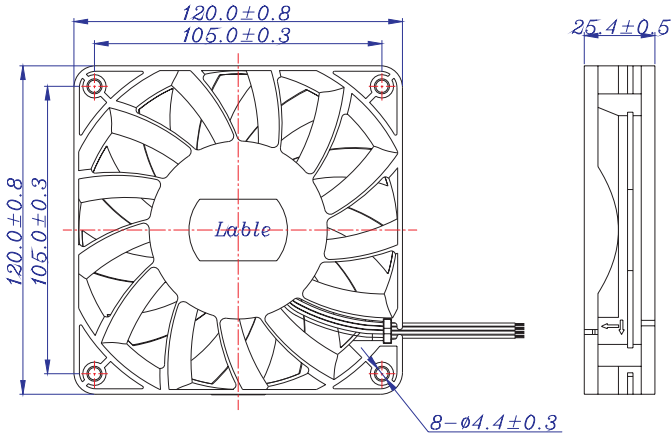
120x120x25mm series F

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☒ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☒ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

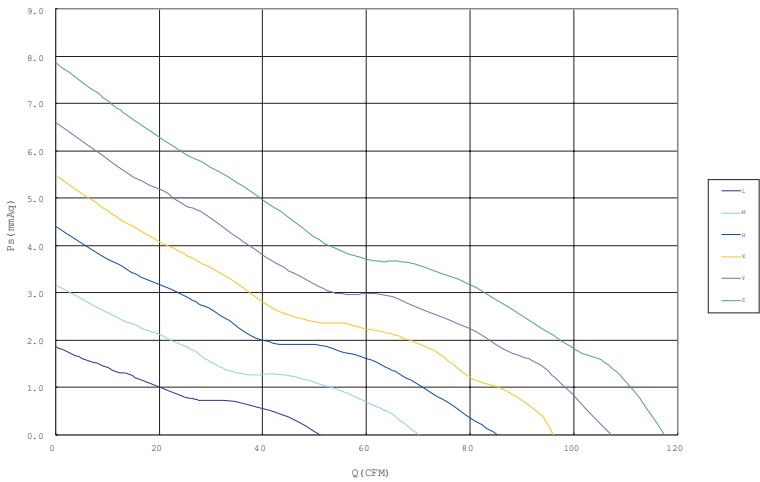
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)12048MB-(2)25	48	3.431	121.11	7.20	0.283	3,000	0.20	9.60	51.5	260
MG(1)12048HB-(2)25	48	4.003	141.30	9.80	0.386	3,500	0.25	12.00	55.0	260
MG(1)12048XB-(2)25	48	4.571	161.50	12.80	0.504	4,000	0.35	16.80	58.1	260
MG(1)12048YB-(2)25	48	5.147	181.69	16.20	0.638	4,500	0.50	24.00	60.3	260
MG(1)12048ZB-(2)25	48	5.832	205.90	20.80	0.818	5,100	0.90	43.20	63.8	260
MG(1)12048UB-(2)25	48	6.864	242.31	28.80	1.134	6,000	1.50	72.00	68.4	260

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

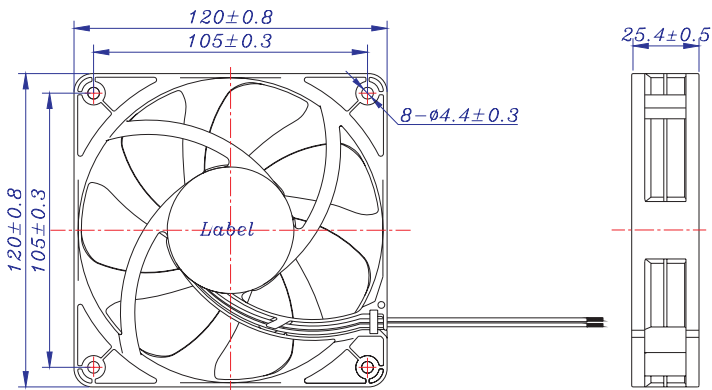
120x120x25mm series G

Bearing Type	☒ 2 Ball	☐ Sleeve	☒ Rifle	☒ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☒ ±5% Speed tolerance	☒ ±10% Speed tolerance		
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☒ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446

Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)12005YB-(2)25	5	3.045	107.50	6.64	0.261	3,000	1.63	8.15	43.9	154
MG(1)12005YF-(2)25	5	3.045	107.50	6.64	0.261	3,000	1.63	8.15	43.1	154
MG(1)12005YR-(2)25	5	3.045	107.50	6.64	0.261	3,000	1.63	8.15	43.1	154
MG(1)12012LB-(2)25	12	1.459	51.50	1.87	0.074	1,500	0.30	3.60	25.1	154
MG(1)12012MB-(2)25	12	1.986	70.10	3.10	0.122	2,000	0.38	4.56	32.8	154
MG(1)12012HB-(2)25	12	2.402	84.80	4.20	0.165	2,400	0.45	5.40	37.7	154
MG(1)12012XB-(2)25	12	2.725	96.20	5.50	0.217	2,700	0.52	6.24	40.9	154
MG(1)12012YB-(2)25	12	3.045	107.50	6.64	0.261	3,000	0.68	8.16	43.9	154
MG(1)12012ZB-(2)25	12	3.337	117.80	7.90	0.311	3,300	0.90	10.80	46.5	154
MG(1)12012LF-(2)25	12	1.459	51.50	1.87	0.074	1,500	0.30	3.60	24.3	154
MG(1)12012MF-(2)25	12	1.986	70.10	3.10	0.122	2,000	0.38	4.56	32.2	154
MG(1)12012HF-(2)25	12	2.402	84.80	4.20	0.165	2,400	0.45	5.40	37.0	154
MG(1)12012XF-(2)25	12	2.725	96.20	5.50	0.217	2,700	0.52	6.24	40.3	154
MG(1)12012YF-(2)25	12	3.045	107.50	6.64	0.261	3,000	0.68	8.16	43.1	154
MG(1)12012ZF-(2)25	12	3.337	117.80	7.90	0.311	3,300	0.90	10.80	45.4	154
MG(1)12012LR-(2)25	12	1.459	51.50	1.87	0.074	1,500	0.30	3.60	24.8	154
MG(1)12012MR-(2)25	12	1.986	70.10	3.10	0.122	2,000	0.38	4.56	32.6	154
MG(1)12012HR-(2)25	12	2.402	84.80	4.20	0.165	2,400	0.45	5.40	37.4	154
MG(1)12012XR-(2)25	12	2.725	96.20	5.50	0.217	2,700	0.52	6.24	40.6	154
MG(1)12012YR-(2)25	12	3.045	107.50	6.64	0.261	3,000	0.68	8.16	43.4	154
MG(1)12012ZR-(2)25	12	3.337	117.80	7.90	0.311	3,300	0.90	10.80	45.9	154

Remarks:

(1)-Electric Characteristics:

A: Standard 2-Pin; **T:** Frequency Generation 3-Pin or more.

(2)-Function:

A: None Automatic Restart;

O: Automatic Restart & Locked Current Protection;

R: Rotate Detection Automatic Restart & Locked Current Protection;

S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;

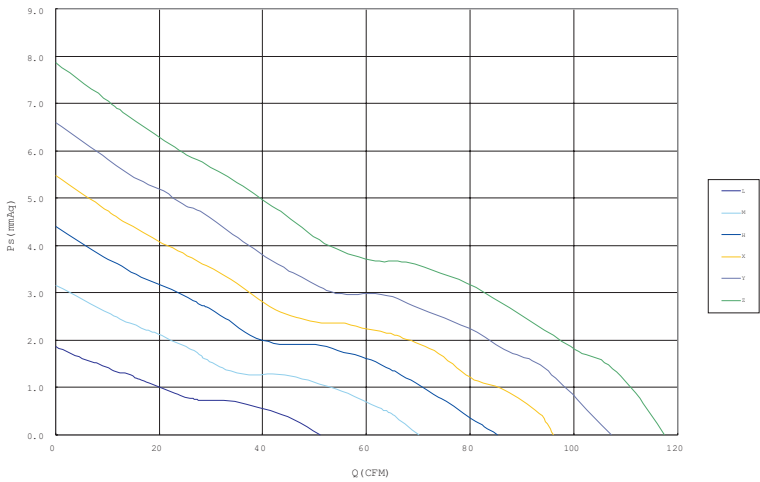
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).

The spec is for reference only, it's subject to change without any prior notice

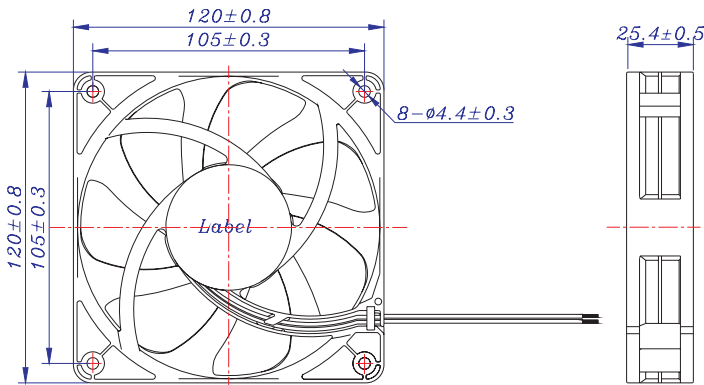
120x120x25mm series G

Bearing Type	☒ 2 Ball	☐ Sleeve	☒ Rifle	☒ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☒ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☒ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

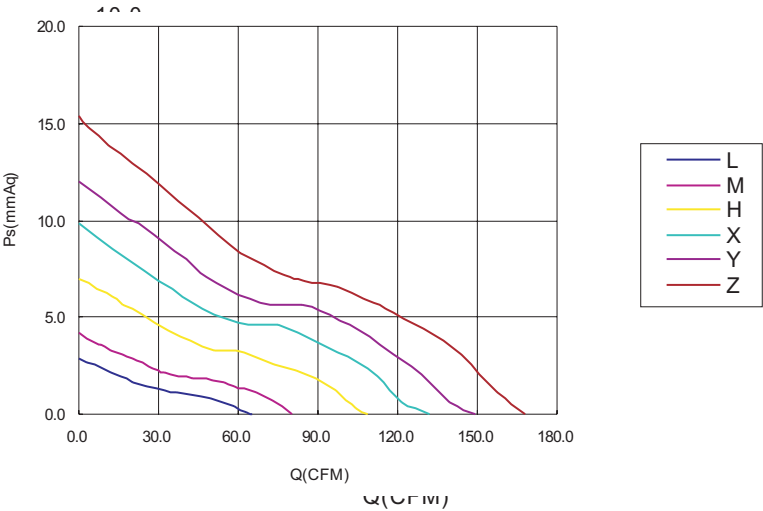
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)12024LB-(2)25	24	1.459	51.50	1.87	0.074	1,500	0.18	4.32	25.1	154
MG(1)12024MB-(2)25	24	1.986	70.10	3.10	0.122	2,000	0.23	5.52	32.8	154
MG(1)12024HB-(2)25	24	2.402	84.80	4.20	0.165	2,400	0.30	7.20	37.7	154
MG(1)12024XB-(2)25	24	2.725	96.20	5.50	0.217	2,700	0.42	10.08	40.9	154
MG(1)12024YB-(2)25	24	3.045	107.50	6.64	0.261	3,000	0.48	11.52	43.9	154
MG(1)12024ZB-(2)25	24	3.337	117.80	7.90	0.311	3,300	0.60	14.40	46.5	154
MG(1)12024LF-(2)25	24	1.459	51.50	1.87	0.074	1,500	0.18	4.32	24.3	154
MG(1)12024MF-(2)25	24	1.986	70.10	3.10	0.122	2,000	0.23	5.52	32.2	154
MG(1)12024HF-(2)25	24	2.402	84.80	4.20	0.165	2,400	0.30	7.20	37.0	154
MG(1)12024XF-(2)25	24	2.725	96.20	5.50	0.217	2,700	0.42	10.08	40.3	154
MG(1)12024YF-(2)25	24	3.045	107.50	6.64	0.261	3,000	0.48	11.52	43.1	154
MG(1)12024ZF-(2)25	24	3.337	117.80	7.90	0.311	3,300	0.60	14.40	45.4	154
MG(1)12024LR-(2)25	24	1.459	51.50	1.87	0.074	1,500	0.18	4.32	24.8	154
MG(1)12024MR-(2)25	24	1.986	70.10	3.10	0.122	2,000	0.23	5.52	32.6	154
MG(1)12024HR-(2)25	24	2.402	84.80	4.20	0.165	2,400	0.30	7.20	37.4	154
MG(1)12024XR-(2)25	24	2.725	96.20	5.50	0.217	2,700	0.42	10.08	40.6	154
MG(1)12024YR-(2)25	24	3.045	107.50	6.64	0.261	3,000	0.48	11.52	43.4	154
MG(1)12024ZR-(2)25	24	3.337	117.80	7.90	0.311	3,300	0.60	14.40	45.9	154
MG(1)12048HB-(2)25	48	2.402	84.80	4.20	0.165	2,400	0.12	5.76	37.7	154
MG(1)12048XB-(2)25	48	2.725	96.20	5.50	0.217	2,700	0.18	8.64	40.9	154
MG(1)12048YB-(2)25	48	3.045	107.50	6.64	0.261	3,000	0.25	12.00	43.9	154
MG(1)12048HF-(2)25	48	2.402	84.80	4.20	0.165	2,400	0.12	5.76	37.0	154
MG(1)12048XF-(2)25	48	2.725	96.20	5.50	0.217	2,700	0.18	8.64	40.3	154
MG(1)12048YF-(2)25	48	3.045	107.50	6.64	0.261	3,000	0.25	12.00	43.1	154
MG(1)12048HR-(2)25	48	2.402	84.80	4.20	0.165	2,400	0.12	5.76	37.4	154
MG(1)12048XR-(2)25	48	2.725	96.20	5.50	0.217	2,700	0.18	8.64	40.6	154
MG(1)12048YR-(2)25	48	3.045	107.50	6.64	0.261	3,000	0.25	12.00	43.4	154

Remarks:
(1)-Electric Characteristics:
 A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
 A: None Automatic Restart;
 O: Automatic Restart & Locked Current Protection;
 R: Rotate Detection Automatic Restart & Locked Current Protection;
 S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
 W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
 The spec is for reference only, it's subject to change without any prior notice

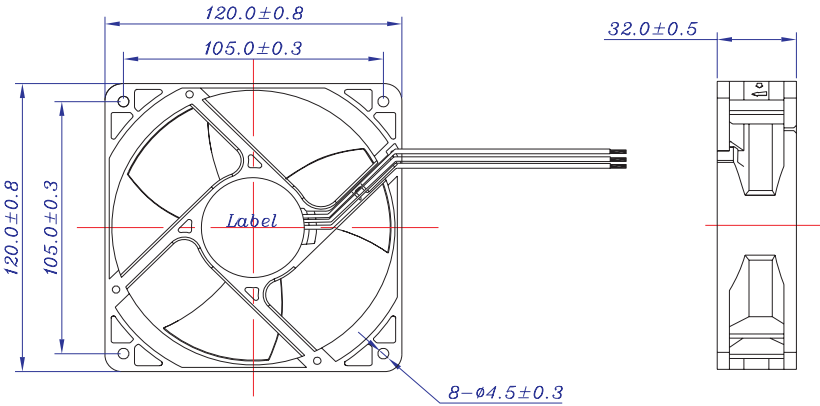
120x120x32mm series

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☒ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

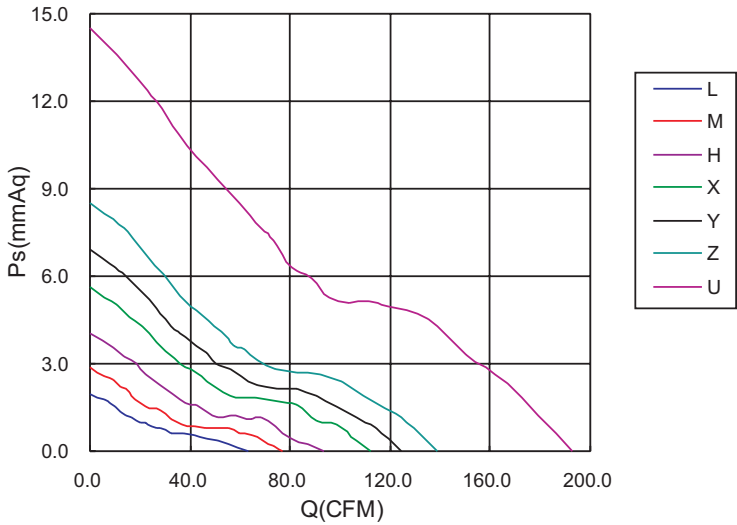
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MGT12012LB-(2)32	12	1.864	65.80	2.83	0.111	1,900	0.20	2.40	31.1	250
MGT12012MB-(2)32	12	2.453	86.58	4.88	0.192	2,500	0.32	3.84	39.2	250
MGT12012HB-(2)32	12	3.273	115.54	7.40	0.291	3,200	0.45	5.40	47.2	250
MGT12012XB-(2)32	12	3.921	138.42	10.98	0.432	3,800	0.65	7.80	52.2	250
MGT12012YB-(2)32	12	4.176	147.43	12.23	0.481	4,400	1.00	12.00	56.7	250
MGT12012ZB-(2)32	12	4.808	169.74	16.00	0.630	5,000	1.40	16.80	60.6	250
MGT12024LB-(2)32	24	1.864	65.80	2.83	0.111	1,900	0.15	3.60	31.1	250
MGT12024MB-(2)32	24	2.453	86.58	4.88	0.192	2,500	0.23	5.52	39.2	250
MGT12024HB-(2)32	24	3.273	115.54	7.40	0.291	3,200	0.31	7.44	47.2	250
MGT12024XB-(2)32	24	3.921	138.42	10.98	0.432	3,800	0.42	11.28	52.2	250
MGT12024YB-(2)32	24	4.176	147.43	12.23	0.481	4,400	0.52	13.44	56.7	250
MGT12024ZB-(2)32	24	4.808	169.74	16.00	0.630	5,000	0.68	16.32	60.6	250
MGT12048LB-(2)32	48	1.864	65.80	2.83	0.111	1,900	0.07	3.84	31.1	250
MGT12048MB-(2)32	48	2.453	86.58	4.88	0.192	2,500	0.11	5.28	39.2	250
MGT12048HB-(2)32	48	3.273	115.54	7.40	0.291	3,200	0.14	7.20	47.2	250
MGT12048XB-(2)32	48	3.921	138.42	10.98	0.432	3,800	0.19	9.60	52.2	250
MGT12048YB-(2)32	48	4.176	147.43	12.23	0.481	4,400	0.22	11.52	56.7	250
MGT12048ZB-(2)32	48	4.808	169.74	16.00	0.630	5,000	0.38	16.32	60.6	250

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

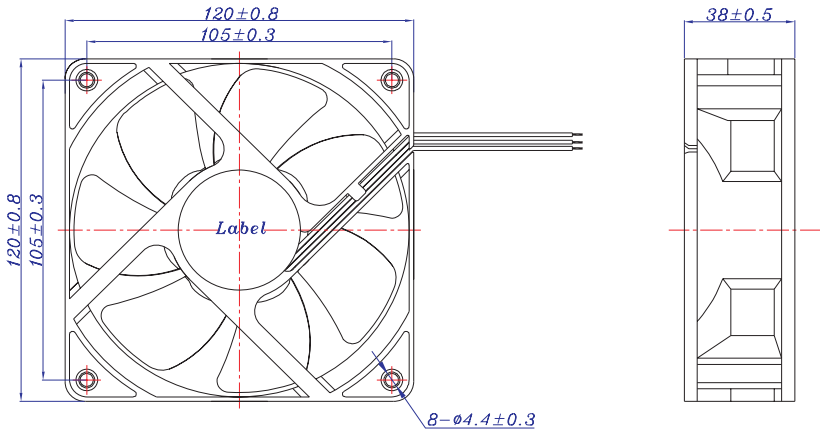
120x120x38mm series A

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☒ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☒ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446

Protechnic Products

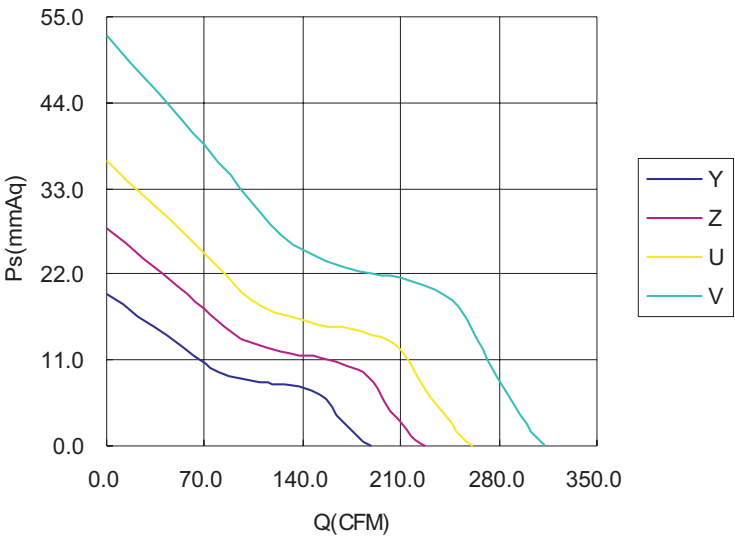
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)12012LB-(2)38	12	1.796	63.40	1.95	0.077	1,400	0.20	2.40	27.6	300
MG(1)12012MB-(2)38	12	2.190	77.33	2.85	0.112	1,700	0.28	3.36	32.9	300
MG(1)12012HB-(2)38	12	2.645	93.39	4.05	0.159	2,000	0.42	5.04	36.5	300
MG(1)12012XB-(2)38	12	3.183	112.40	5.61	0.221	2,400	0.60	7.20	41.4	300
MG(1)12012YB-(2)38	12	3.532	124.70	6.92	0.272	2,700	0.80	9.60	44.8	300
MG(1)12012UB-(2)38	12	5.463	192.90	14.50	0.571	4,000	2.20	26.40	57.0	300
MG(1)12024LB-(2)38	24	1.796	63.40	1.95	0.077	1,400	0.13	3.12	27.6	300
MG(1)12024MB-(2)38	24	2.190	77.33	2.85	0.112	1,700	0.16	3.84	32.9	300
MG(1)12024HB-(2)38	24	2.645	93.39	4.05	0.159	2,000	0.24	5.76	36.5	300
MG(1)12024XB-(2)38	24	3.183	112.40	5.61	0.221	2,400	0.34	8.16	41.4	300
MG(1)12024YB-(2)38	24	3.532	124.70	6.92	0.272	2,700	0.46	11.04	44.8	300
MG(1)12024ZB-(2)38	24	3.924	138.56	8.54	0.336	3,000	0.54	12.96	46.8	300
MG(1)12024UB-(2)38	24	5.463	192.90	14.50	0.571	4,000	1.30	31.20	57.0	300
MG(1)12048LB-(2)38	48	1.796	63.40	1.95	0.077	1,400	0.13	6.24	27.6	300
MG(1)12048MB-(2)38	48	2.190	77.33	2.85	0.112	1,700	0.17	8.16	32.9	300
MG(1)12048HB-(2)38	48	2.645	93.39	4.05	0.159	2,000	0.20	9.60	36.5	300
MG(1)12048XB-(2)38	48	3.183	112.40	5.61	0.221	2,400	0.27	12.96	41.4	300
MG(1)12048YB-(2)38	48	3.532	124.70	6.92	0.272	2,700	0.32	15.36	44.8	300
MG(1)12048ZB-(2)38	48	3.924	138.56	8.54	0.336	3,000	0.39	18.72	46.8	300
MG(1)12048UB-(2)38	48	5.463	192.90	14.50	0.571	4,000	0.60	28.80	57.0	300

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

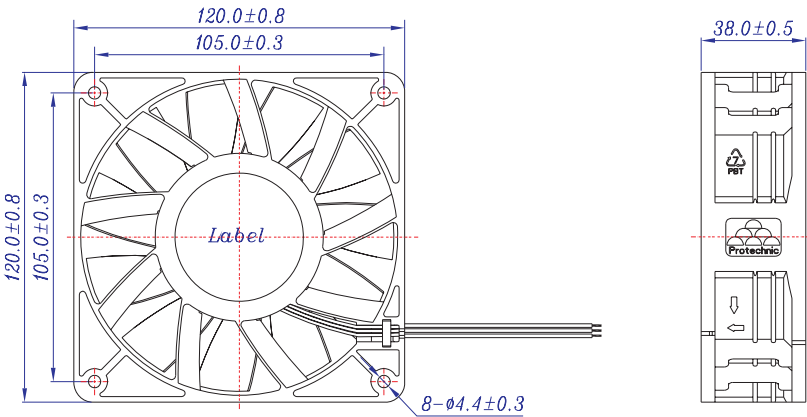
120x120x38mm series F

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☒ ±5% Speed tolerance	☒ ±10% Speed tolerance		
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446

Protechnic Products

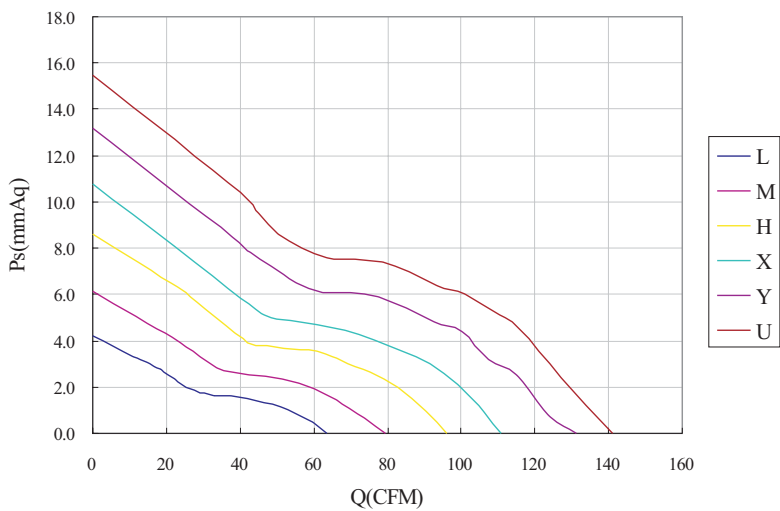
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)12012YB-(2)38	12	5.368	189.63	19.36	0.762	4,000	1.92	23.04	59.0	380
MG(1)12012ZB-(2)38	12	6.442	227.55	27.88	1.097	4,800	3.24	38.88	64.5	380
MG(1)12024YB-(2)38	24	5.368	189.63	19.36	0.762	4,000	1.08	25.92	59.0	380
MG(1)12024ZB-(2)38	24	6.442	227.55	27.88	1.097	4,800	1.62	38.88	64.5	380
MG(1)12024UB-(2)38	24	7.382	260.74	36.60	1.441	5,500	2.40	57.60	69.0	380
MG(1)12048YB-(2)38	48	5.368	189.63	19.36	0.762	4,000	0.54	25.92	59.0	380
MG(1)12048ZB-(2)38	48	6.442	227.55	27.88	1.097	4,800	0.82	39.36	64.5	380
MG(1)12048UB-(2)38	48	7.382	260.74	36.60	1.441	5,500	1.20	57.60	69.0	380
MG(1)12048VB-(2)38	48	8.858	312.89	52.70	2.075	6,600	1.80	86.40	74.0	380

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

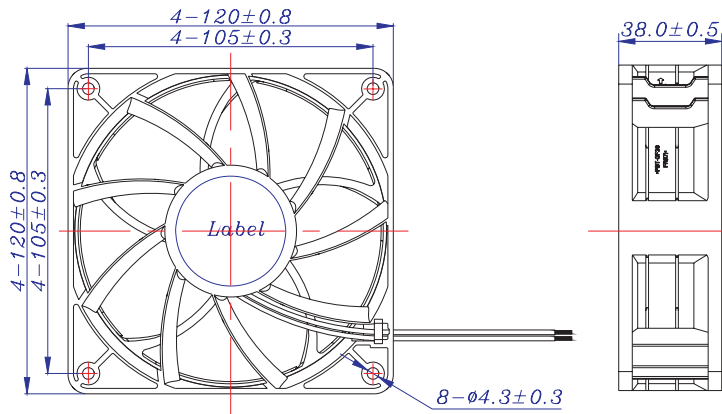
120x120x38mm series G

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☒ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☒ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

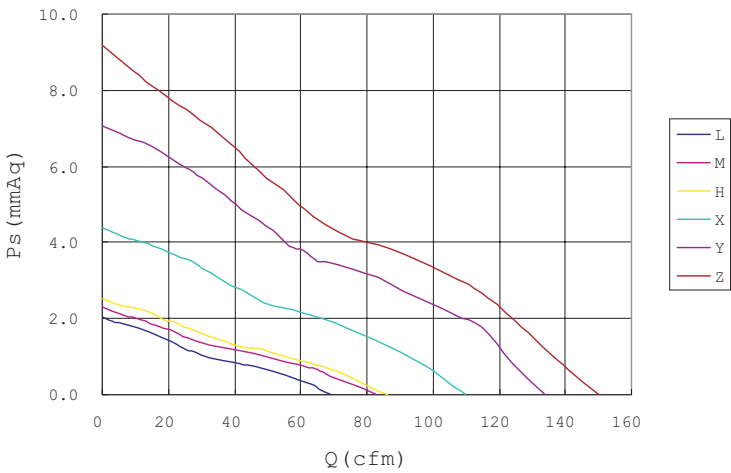
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)12012LB-(2)38	12	1.805	63.70	4.24	0.167	2,000	0.20	2.40	32.7	251
MG(1)12012MB-(2)38	12	2.252	79.50	6.16	0.242	2,500	0.28	3.36	37.5	251
MG(1)12012HB-(2)38	12	2.716	95.90	8.62	0.339	3,000	0.42	5.04	42.1	251
MG(1)12012XB-(2)38	12	3.136	110.70	10.80	0.425	3,500	0.60	7.20	46.5	251
MG(1)12012YB-(2)38	12	3.713	131.10	13.20	0.519	4,000	0.80	9.60	49.8	251
MG(1)12012UB-(2)38	12	4.002	141.30	15.50	0.610	4,500	2.20	26.40	53.3	251
MG(1)12024LB-(2)38	24	1.805	63.70	4.24	0.167	2,000	0.13	3.12	32.7	251
MG(1)12024MB-(2)38	24	2.252	79.50	6.16	0.242	2,500	0.16	3.84	37.5	251
MG(1)12024HB-(2)38	24	2.716	95.90	8.62	0.339	3,000	0.24	5.76	42.1	251
MG(1)12024XB-(2)38	24	3.136	110.70	10.80	0.425	3,500	0.34	8.16	46.5	251
MG(1)12024YB-(2)38	24	3.713	131.10	13.20	0.519	4,000	0.46	11.04	49.8	251
MG(1)12024UB-(2)38	24	4.002	141.30	15.50	0.610	4,500	1.30	31.20	53.3	251
MG(1)12048LB-(2)38	48	1.805	63.70	4.24	0.167	2,000	0.13	6.24	32.7	251
MG(1)12048MB-(2)38	48	2.252	79.50	6.16	0.242	2,500	0.17	8.16	37.5	251
MG(1)12048HB-(2)38	48	2.716	95.90	8.62	0.339	3,000	0.20	9.60	42.1	251
MG(1)12048XB-(2)38	48	3.136	110.70	10.80	0.425	3,500	0.27	12.96	46.5	251
MG(1)12048YB-(2)38	48	3.713	131.10	13.20	0.519	4,000	0.32	15.36	49.8	251
MG(1)12048UB-(2)38	48	4.002	141.30	15.50	0.610	4,500	0.60	28.80	53.3	251

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

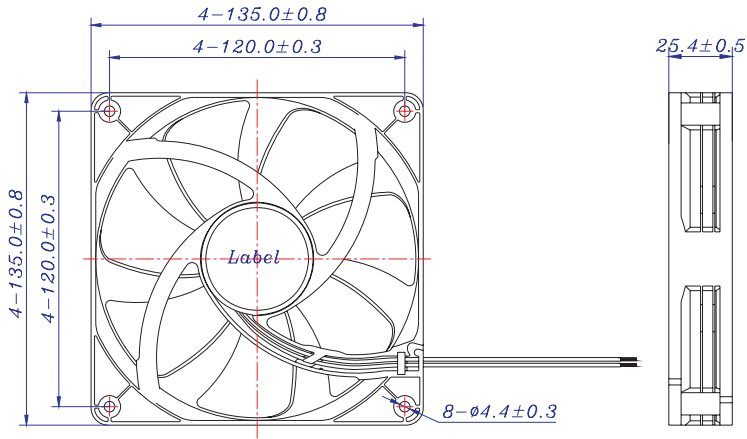
135x135x25mm series B

Bearing Type	☒ 2 Ball	☐ Sleeve	☒ Rifle	☒ FDB
Speed Control	☒ Voltage	☒ Temperature	☒ PWM	
	☒ ±5% Speed tolerance	☒ ±10% Speed tolerance		
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☒ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

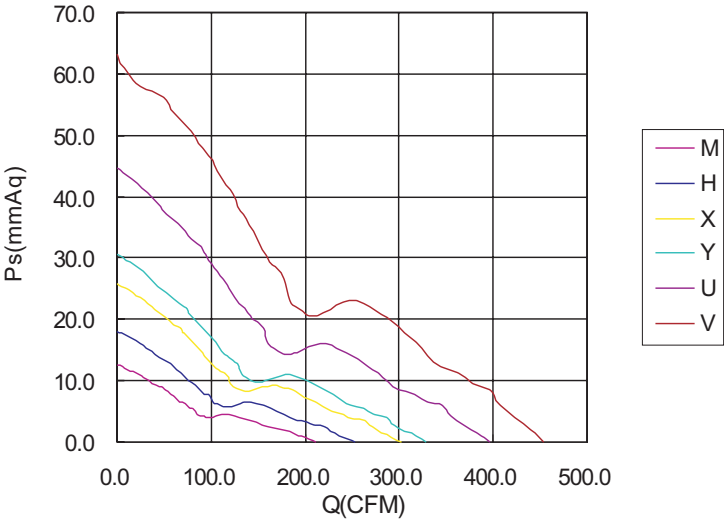
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)13512LR-(2)25	12	2.080	73.43	2.40	0.094	1,500	0.22	2.64	28.0	184
MG(1)13512MR-(2)25	12	2.380	84.03	3.11	0.122	1,700	0.25	3.00	32.2	184
MG(1)13512HR-(2)25	12	2.549	89.99	3.44	0.135	1,800	0.28	3.36	33.9	184
MG(1)13512XR-(2)25	12	3.280	115.80	5.28	0.208	2,300	0.38	4.56	41.1	184
MG(1)13512YR-(2)25	12	3.941	139.10	7.16	0.282	2,800	0.50	6.00	46.7	184
MG(1)13512ZR-(2)25	12	4.377	154.50	8.48	0.334	3,100	0.75	9.00	49.4	184
MG(1)13512LB-(2)25	12	2.080	73.43	2.40	0.094	1,500	0.22	2.64	28.3	184
MG(1)13512MB-(2)25	12	2.380	84.03	3.11	0.122	1,700	0.25	3.00	32.6	184
MG(1)13512HB-(2)25	12	2.549	89.99	3.44	0.135	1,800	0.28	3.36	34.5	184
MG(1)13512XB-(2)25	12	3.280	115.80	5.28	0.208	2,300	0.38	4.56	41.3	184
MG(1)13512YB-(2)25	12	3.941	139.10	7.16	0.282	2,800	0.50	6.00	46.9	184
MG(1)13512ZB-(2)25	12	4.377	154.50	8.48	0.334	3,100	0.75	9.00	49.6	184
MG(1)13512LF-(2)25	12	2.080	73.43	2.40	0.094	1,500	0.22	2.64	27.7	184
MG(1)13512MF-(2)25	12	2.380	84.03	3.11	0.122	1,700	0.25	3.00	31.8	184
MG(1)13512HF-(2)25	12	2.549	89.99	3.44	0.135	1,800	0.28	3.36	33.4	184
MG(1)13512XF-(2)25	12	3.280	115.80	5.28	0.208	2,300	0.38	4.56	40.8	184
MG(1)13512YF-(2)25	12	3.941	139.10	7.16	0.282	2,800	0.50	6.00	46.4	184
MG(1)13512ZF-(2)25	12	4.377	154.50	8.48	0.334	3,100	0.75	9.00	49.2	184

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
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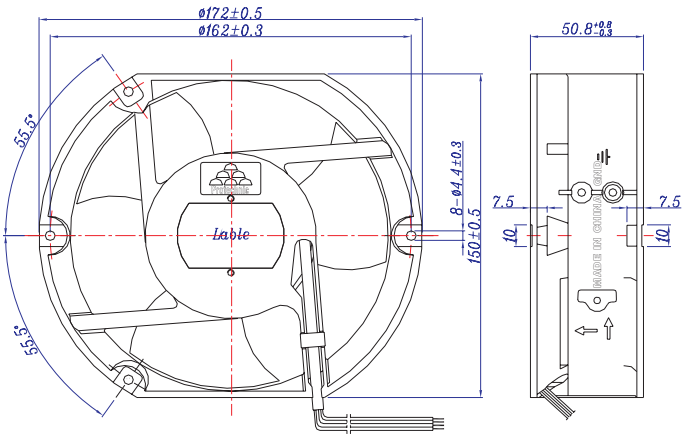
172x150x50.8mm series A

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☒ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☒ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

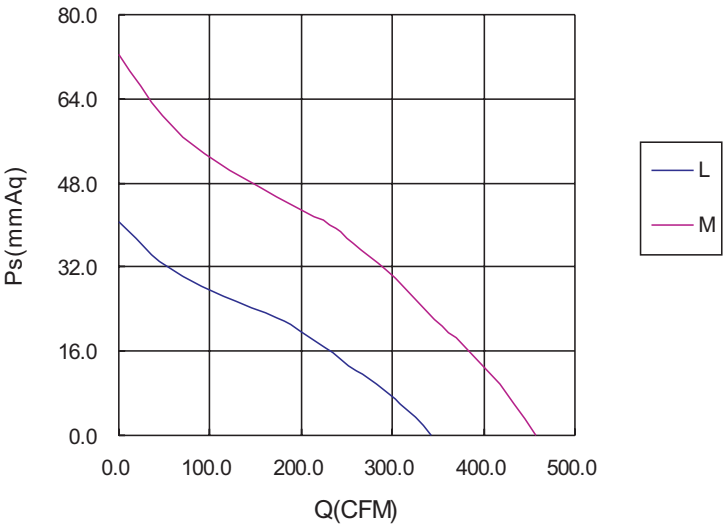
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)1712MB-(2)51	12	5.942	209.70	12.50	0.495	2,800	0.79	9.48	50.0	830
MG(1)1712HB-(2)51	12	7.110	251.00	18.00	0.709	3,350	1.32	15.84	55.0	830
MG(1)1712XB-(2)51	12	8.489	299.70	25.60	1.010	4,000	2.10	25.20	60.0	830
MG(1)1712YB-(2)51	12	9.230	325.00	30.30	1.194	4,350	3.80	44.16	63.5	830
MG(1)1712UB-(2)51	12	11.140	393.30	44.20	1.740	5,250	5.00	67.20	69.0	830
MG(1)1724MB-(2)51	24	5.942	209.70	12.50	0.495	2,800	0.39	9.36	50.0	830
MG(1)1724HB-(2)51	24	7.110	251.00	18.00	0.709	3,350	0.66	15.84	55.0	830
MG(1)1724XB-(2)51	24	8.489	299.70	25.60	1.010	4,000	1.00	24.00	60.0	830
MG(1)1724YB-(2)51	24	9.230	325.00	30.30	1.194	4,350	2.00	48.00	63.5	830
MG(1)1724UB-(2)51	24	11.140	393.30	44.20	1.740	5,250	3.00	72.00	69.0	830
MG(1)1724VB-(2)51	24	12.796	451.70	62.80	2.472	6,300	4.00	96.00	73.0	830
MG(1)1748HB-(2)51	48	7.110	251.00	18.00	0.709	3,350	0.52	24.96	55.0	830
MG(1)1748XB-(2)51	48	8.489	299.70	25.60	1.010	4,000	0.73	35.04	60.0	830
MG(1)1748YB-(2)51	48	9.230	325.00	30.30	1.194	4,350	0.92	44.16	63.5	830
MG(1)1748UB-(2)51	48	11.140	393.30	44.20	1.740	5,250	1.40	67.20	69.0	830
MG(1)1748VB-(2)51	48	12.796	451.70	62.80	2.472	6,300	2.30	110.40	73.0	830

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

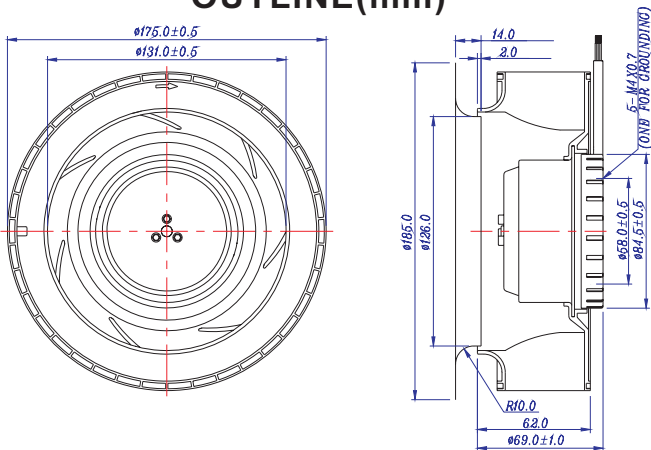
Ø175x69mm series A

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☒ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☐ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☒ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446

Protechnic Products

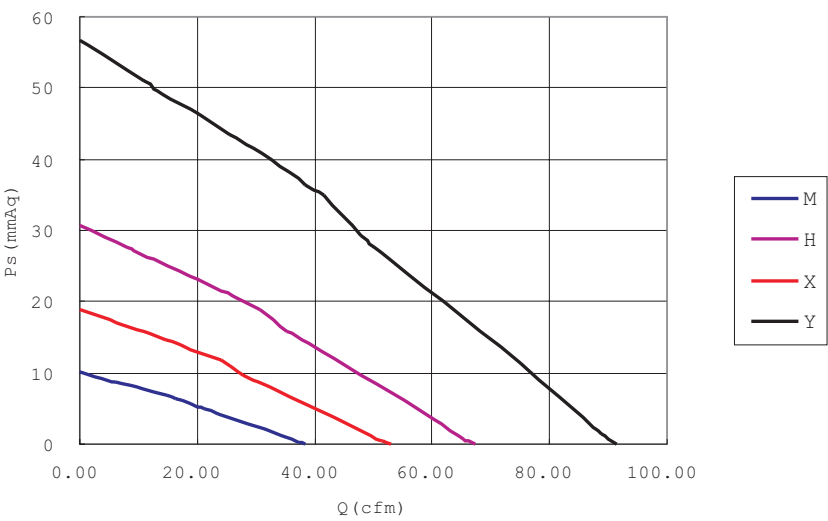
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MB(1)1724LB-(2)69	24	9.705	342.60	40.70	1.600	3,000	1.90	45.60	66.0	920
MB(1)1724MB-(2)69	24	12.941	456.80	72.40	2.850	4,000	4.70	112.80	71.9	920
MB(1)1748LB-(2)69	48	9.705	342.60	40.70	1.600	3,000	1.00	48.00	66.0	920
MB(1)1748MB-(2)69	48	12.941	456.80	72.40	2.850	4,000	2.40	115.20	71.9	920

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

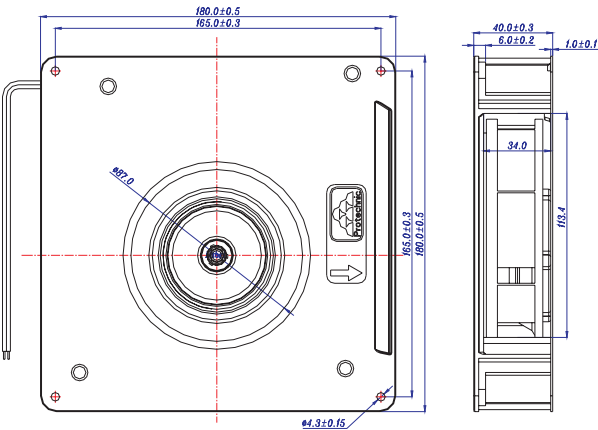
180x180x40mm series A

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☒ ±5% Speed tolerance	☒ ±10% Speed tolerance		
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☒ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

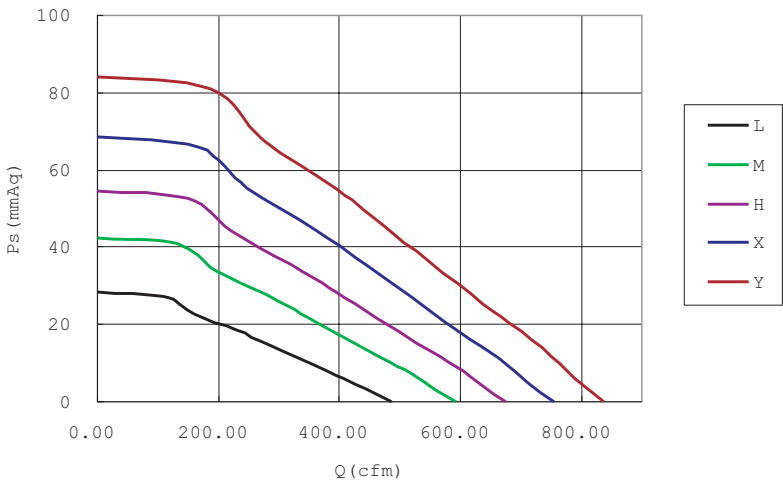
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MB(1)18012MB-(2)40	12	1.091	38.50	10.10	0.390	1,600	0.26	3.12	44.5	920
MB(1)18012HB-(2)40	12	1.499	52.90	19.00	0.750	2,200	0.48	5.76	52.0	920
MB(1)18012XB-(2)40	12	2.045	72.20	35.30	1.390	3,000	1.14	13.68	59.5	920
MB(1)18012YB-(2)40	12	2.725	96.20	62.80	2.740	4,000	2.64	31.68	66.3	920
MB(1)18024MB-(2)40	24	1.091	38.50	10.10	0.390	1,600	0.13	3.12	44.5	920
MB(1)18024HB-(2)40	24	1.499	52.90	19.00	0.750	2,200	0.24	5.76	52.0	920
MB(1)18024XB-(2)40	24	2.045	72.20	35.30	1.390	3,000	0.57	13.68	59.5	920
MB(1)18024YB-(2)40	24	2.725	96.20	62.80	2.740	4,000	1.32	31.68	66.3	920
MB(1)18048MB-(2)40	48	1.091	38.50	10.10	0.390	1,600	0.09	4.08	44.5	920
MB(1)18048HB-(2)40	48	1.499	52.90	19.00	0.750	2,200	0.15	7.20	52.0	920
MB(1)18048XB-(2)40	48	2.045	72.20	35.30	1.390	3,000	0.29	13.68	59.5	920
MB(1)18048YB-(2)40	48	2.725	96.20	62.80	2.740	4,000	0.66	31.68	66.3	920

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

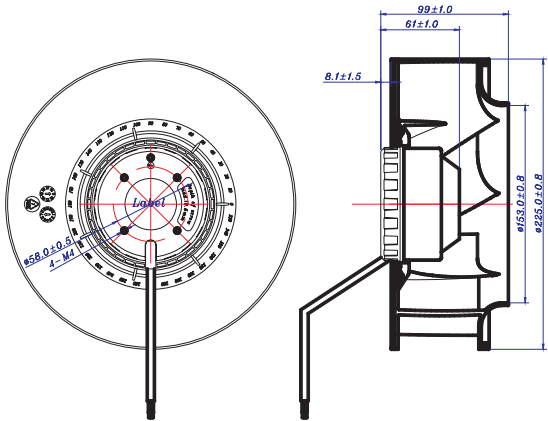
Φ225x99mm series A

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☒ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☐ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☒ Class II	☒ Class III	
Insulation ②	☐ Class A	☐ Class B	☐ Class C	☒ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:
①-Reference standard: IEC 61000-4-2
②-Reference standard: UL 1446

Protechnic Products

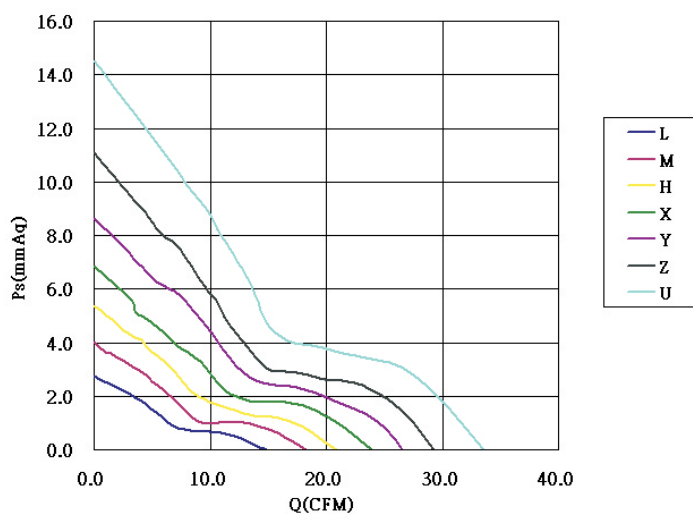
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MB(1)22524LB-(2)99	24	13.760	485.70	28.30	1.110	1,800	2.10	50.40	64.6	1500
MB(1)22524MB-(2)99	24	16.820	593.60	42.70	1.680	2,200	3.50	84.00	69.4	1500
MB(1)22524HB-(2)99	24	19.110	674.60	54.70	2.150	2,500	4.80	115.20	71.6	1500
MB(1)22524XB-(2)99	24	21.400	755.50	68.60	2.700	2,800	6.30	151.20	75.2	1500
MB(1)22548LB-(2)99	48	13.760	485.70	28.30	1.110	1,800	1.10	52.80	64.6	1500
MB(1)22548MB-(2)99	48	16.820	593.60	42.70	1.680	2,200	1.80	86.40	69.4	1500
MB(1)22548HB-(2)99	48	19.110	674.60	54.70	2.150	2,500	2.40	115.20	71.6	1500
MB(1)22548XB-(2)99	48	21.400	755.50	68.60	2.700	2,800	3.20	153.60	75.2	1500
MB(1)22548YB-(2)99	48	23.700	836.50	84.10	3.310	3,100	4.80	230.40	77.6	1500

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

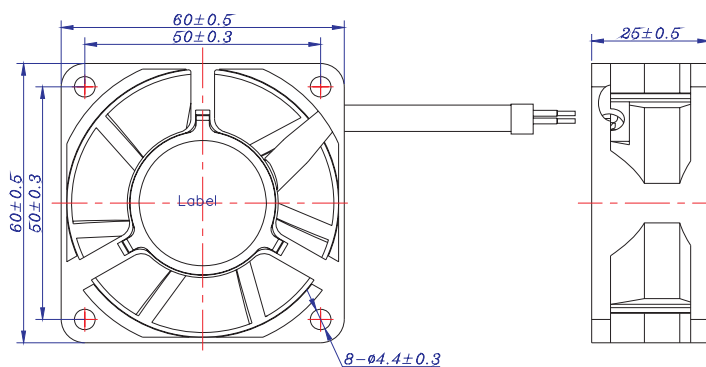
60x60x25mm IP68 series ③

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ $\pm 5\%$ Speed tolerance	☒ $\pm 10\%$ Speed tolerance		
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☒ Class II	☐ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446
- ③-Reference standard: IEC 60529

Protechnic Products

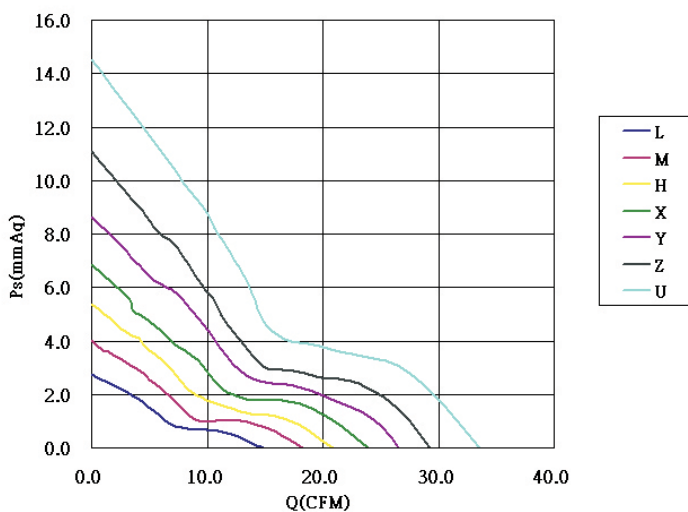
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)6012LB-(2)25	12	0.420	14.83	2.81	0.111	3,000	0.11	1.32	24.6	69
MG(1)6012MB-(2)25	12	0.527	18.59	4.11	0.162	3,600	0.13	1.56	29.0	69
MG(1)6012HB-(2)25	12	0.598	21.10	5.42	0.213	4,200	0.17	2.04	33.3	69
MG(1)6012XB-(2)25	12	0.696	24.56	6.94	0.273	4,800	0.20	2.40	37.1	69
MG(1)6012YB-(2)25	12	0.773	27.28	8.72	0.343	5,400	0.26	3.12	39.9	69
MG(1)6024LB-(2)25	24	0.420	14.83	2.81	0.111	3,000	0.09	2.16	24.6	69
MG(1)6024MB-(2)25	24	0.527	18.59	4.11	0.162	3,600	0.12	2.88	29.0	69
MG(1)6024HB-(2)25	24	0.598	21.10	5.42	0.213	4,200	0.14	3.36	33.3	69
MG(1)6024XB-(2)25	24	0.696	24.56	6.94	0.273	4,800	0.17	4.08	37.1	69
MG(1)6024YB-(2)25	24	0.773	27.28	8.72	0.343	5,400	0.20	4.80	39.9	69
MG(1)6024ZB-(2)25	24	0.824	29.25	11.10	0.437	6,000	0.22	5.28	43.3	69
MG(1)6024UB-(2)25	24	0.944	33.52	14.50	0.571	6,800	0.29	6.96	47.0	69

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
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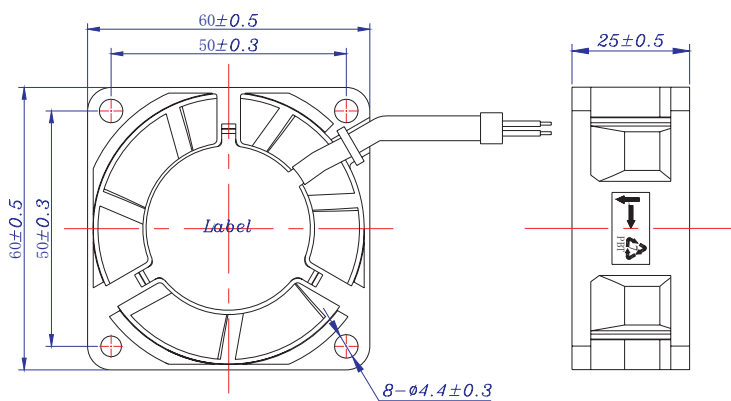
60x60x25mm IP55 series ③

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance	☒ ±10% Speed tolerance		
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☒ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446
- ③-Reference standard: IEC 60529

Protechnic Products

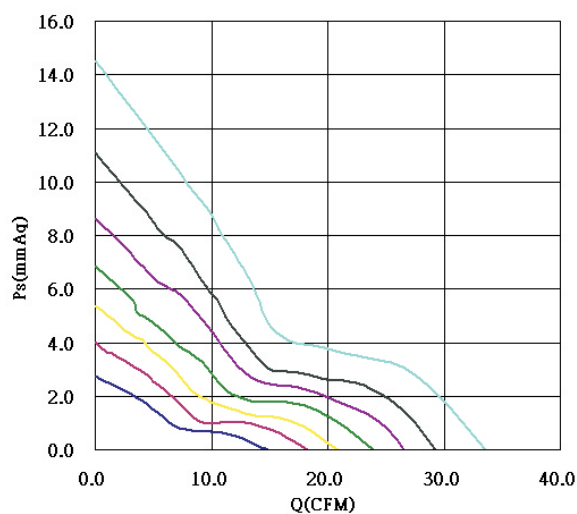
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)6012LB-(2)25	12	0.420	14.83	2.81	0.111	3,000	0.11	1.32	24.6	69
MG(1)6012MB-(2)25	12	0.527	18.59	4.11	0.162	3,600	0.13	1.56	29.0	69
MG(1)6012HB-(2)25	12	0.598	21.10	5.42	0.213	4,200	0.17	2.04	33.3	69
MG(1)6012XB-(2)25	12	0.696	24.56	6.94	0.273	4,800	0.20	2.40	37.1	69
MG(1)6012YB-(2)25	12	0.773	27.28	8.72	0.343	5,400	0.26	3.12	39.9	69
MG(1)6012ZB-(2)25	12	0.824	29.25	11.10	0.437	6,000	0.31	3.72	43.3	69
MG(1)6012UB-(2)25	12	0.944	33.52	14.50	0.571	6,800	0.38	4.56	47.0	69
MG(1)6024LB-(2)25	24	0.420	14.83	2.81	0.111	3,000	0.09	2.16	24.6	69
MG(1)6024MB-(2)25	24	0.527	18.59	4.11	0.162	3,600	0.12	2.88	29.0	69
MG(1)6024HB-(2)25	24	0.598	21.10	5.42	0.213	4,200	0.14	3.36	33.3	69
MG(1)6024XB-(2)25	24	0.696	24.56	6.94	0.273	4,800	0.17	4.08	37.1	69
MG(1)6024YB-(2)25	24	0.773	27.28	8.72	0.343	5,400	0.20	4.80	39.9	69
MG(1)6024ZB-(2)25	24	0.824	29.25	11.10	0.437	6,000	0.22	5.28	43.3	69
MG(1)6024UB-(2)25	24	0.944	33.52	14.50	0.571	6,800	0.29	6.96	47.0	69

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
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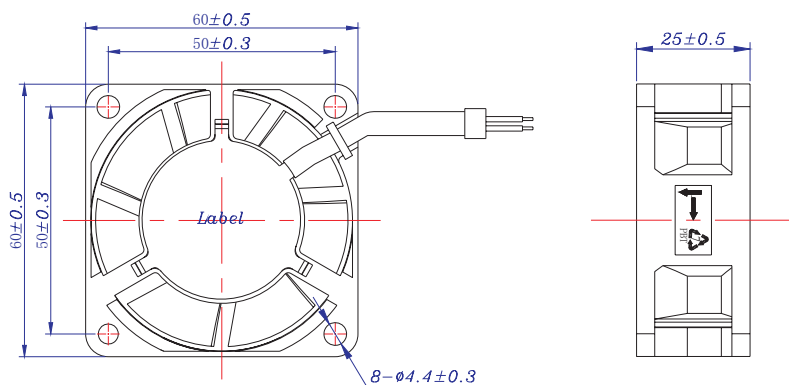
60x60x25mm IPX5 series ③

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ $\pm 5\%$ Speed tolerance	☒ $\pm 10\%$ Speed tolerance		
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446
- ③-Reference standard: IEC 60529

Protechnic Products

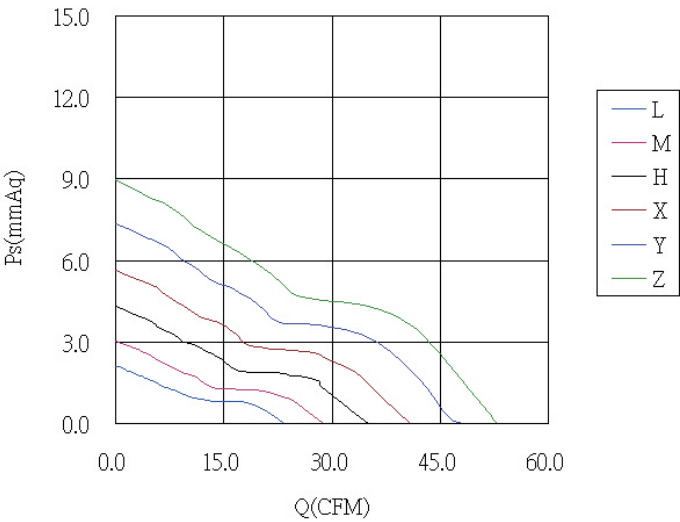
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)6012LB-(2)25	12	0.420	14.83	2.81	0.111	3,000	0.11	1.32	24.6	69
MG(1)6012MB-(2)25	12	0.527	18.59	4.11	0.162	3,600	0.13	1.56	29.0	69
MG(1)6012HB-(2)25	12	0.598	21.10	5.42	0.213	4,200	0.17	2.04	33.3	69
MG(1)6012XB-(2)25	12	0.696	24.56	6.94	0.273	4,800	0.20	2.40	37.1	69
MG(1)6012YB-(2)25	12	0.773	27.28	8.72	0.343	5,400	0.26	3.12	39.9	69
MG(1)6012ZB-(2)25	12	0.824	29.25	11.10	0.437	6,000	0.31	3.72	43.3	69
MG(1)6012UB-(2)25	12	0.944	33.52	14.50	0.571	6,800	0.38	4.56	47.0	69
MG(1)6024LB-(2)25	24	0.420	14.83	2.81	0.111	3,000	0.09	2.16	24.6	69
MG(1)6024MB-(2)25	24	0.527	18.59	4.11	0.162	3,600	0.12	2.88	29.0	69
MG(1)6024HB-(2)25	24	0.598	21.10	5.42	0.213	4,200	0.14	3.36	33.3	69
MG(1)6024XB-(2)25	24	0.696	24.56	6.94	0.273	4,800	0.17	4.08	37.1	69
MG(1)6024YB-(2)25	24	0.773	27.28	8.72	0.343	5,400	0.20	4.80	39.9	69
MG(1)6024ZB-(2)25	24	0.824	29.25	11.10	0.437	6,000	0.22	5.28	43.3	69
MG(1)6024UB-(2)25	24	0.944	33.52	14.50	0.571	6,800	0.29	6.96	47.0	69

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

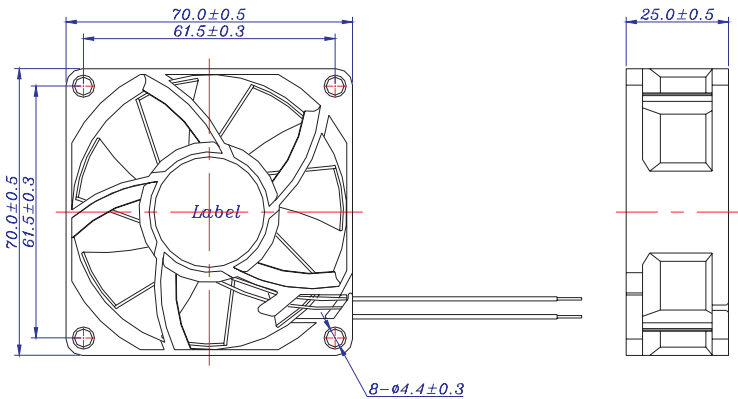
70x70x25mm IP5X series ③

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☒ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



- Note:
- ①-Reference standard: IEC 61000-4-2

②-Reference standard: UL 1446

③-Reference standard: IEC 60529

Protechnic Products

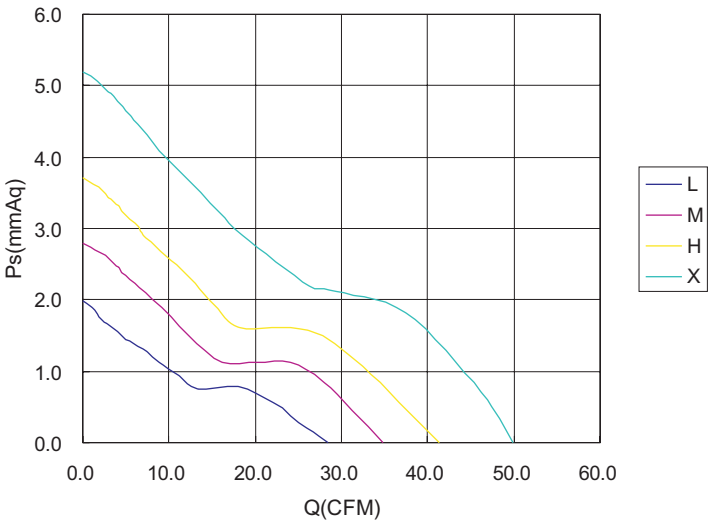
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)7012LB-(2)25	12	0.655	23.26	2.08	0.081	2,500	0.12	1.44	24.8	75
MG(1)7012MB-(2)25	12	0.811	28.80	3.10	0.122	3,000	0.17	2.04	31.0	75
MG(1)7012HB-(2)25	12	0.985	35.00	4.32	0.170	3,600	0.22	2.64	35.4	75
MG(1)7012XB-(2)25	12	1.152	40.92	5.64	0.222	4,200	0.30	3.60	39.2	75
MG(1)7012YB-(2)25	12	1.359	48.27	7.36	0.289	4,800	0.39	4.68	43.3	75
MG(1)7012ZB-(2)25	12	1.490	52.93	8.96	0.352	5,400	0.43	5.16	46.6	75

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

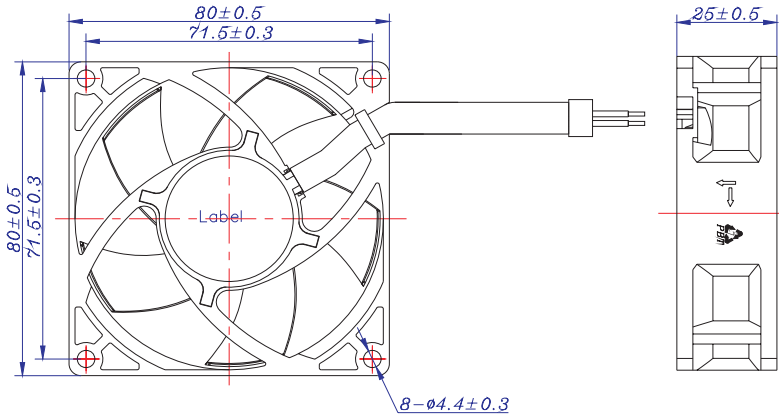
80x80x25mm IP68 series ③

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



- Note:**
- ①-Reference standard: IEC 61000-4-2
 - ②-Reference standard: UL 1446
 - ③-Reference standard: IEC 60529

Protechnic Products

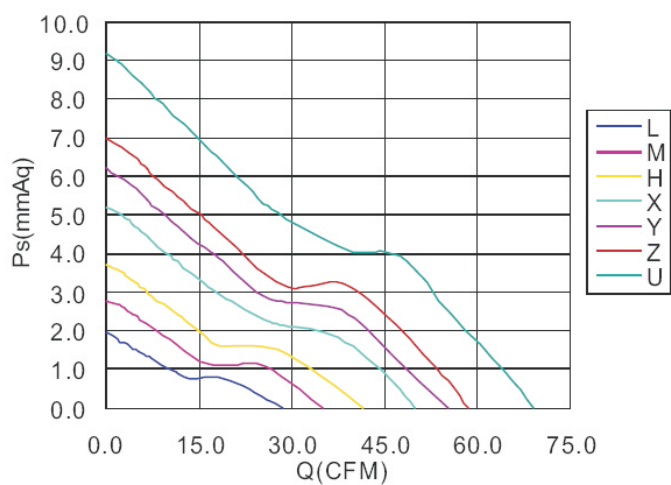
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)8012LB-(2)25	12	0.806	28.46	1.98	0.078	2,100	0.12	1.44	23.1	85
MG(1)8012MB-(2)25	12	0.987	34.85	2.79	0.110	2,500	0.15	1.80	29.0	85
MG(1)8012HB-(2)25	12	1.171	41.34	3.71	0.146	3,000	0.24	2.88	33.2	85
MG(1)8012XB-(2)25	12	1.413	49.89	5.19	0.204	3,600	0.39	4.68	37.3	85
MG(1)8024LB-(2)25	24	0.806	28.46	1.98	0.078	2,100	0.09	2.16	23.1	85
MG(1)8024MB-(2)25	24	0.987	34.85	2.79	0.110	2,500	0.11	2.64	29.0	85
MG(1)8024HB-(2)25	24	1.171	41.34	3.71	0.146	3,000	0.16	3.84	33.2	85
MG(1)8024XB-(2)25	24	1.413	49.89	5.19	0.204	3,600	0.23	5.52	37.3	85

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

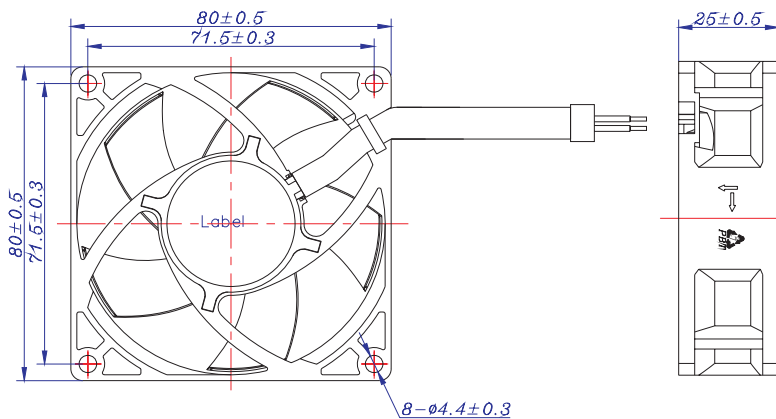
80x80x25mm IP55 series ③

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance	☒ ±10% Speed tolerance		
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446
- ③-Reference standard: IEC 60529

Protechnic Products

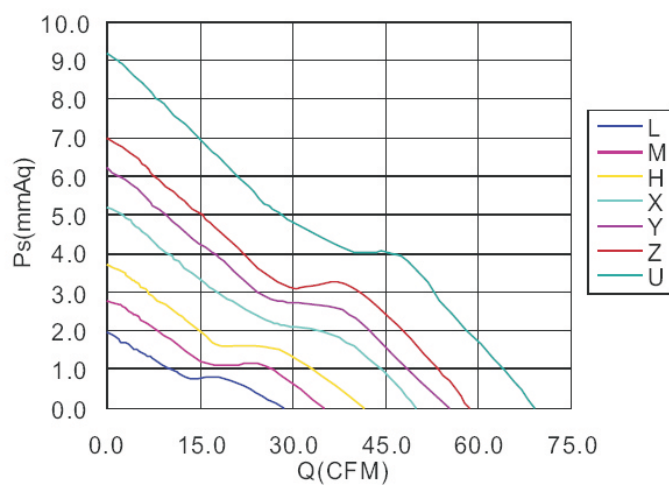
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)8012LB-(2)25	12	0.806	28.46	1.98	0.078	2,100	0.12	1.44	23.1	90
MG(1)8012MB-(2)25	12	0.987	34.85	2.79	0.110	2,500	0.15	1.80	29.0	90
MG(1)8012HB-(2)25	12	1.171	41.34	3.71	0.146	3,000	0.24	2.88	33.2	90
MG(1)8012XB-(2)25	12	1.413	49.89	5.19	0.204	3,600	0.39	4.68	37.3	90
MG(1)8012YB-(2)25	12	1.562	55.13	6.21	0.244	3,900	0.42	5.04	39.2	90
MG(1)8012ZB-(2)25	12	1.653	58.35	7.00	0.276	4,200	0.54	6.48	42.3	90
MG(1)8012UB-(2)25	12	1.951	68.88	9.17	0.361	4,800	0.66	7.92	45.2	90
MG(1)8024LB-(2)25	24	0.806	28.46	1.98	0.078	2,100	0.09	2.16	23.1	90
MG(1)8024MB-(2)25	24	0.987	34.85	2.79	0.110	2,500	0.11	2.64	29.0	90
MG(1)8024HB-(2)25	24	1.171	41.34	3.71	0.146	3,000	0.16	3.84	33.2	90
MG(1)8024XB-(2)25	24	1.413	49.89	5.19	0.204	3,600	0.23	5.52	37.3	90
MG(1)8024YB-(2)25	24	1.562	55.13	6.21	0.244	3,900	0.26	6.24	39.2	90
MG(1)8024ZB-(2)25	24	1.653	58.35	7.00	0.276	4,200	0.30	7.20	42.3	90
MG(1)8024UB-(2)25	24	1.951	68.88	9.17	0.361	4,800	0.48	11.52	45.2	90

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

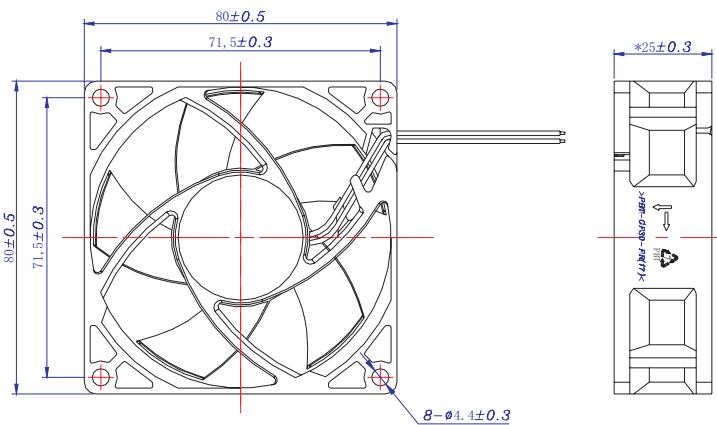
80x80x25mm IP5X series ③

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ $\pm 5\%$ Speed tolerance	☒ $\pm 10\%$ Speed tolerance		
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446
- ③-Reference standard: IEC 60529

Protechnic Products

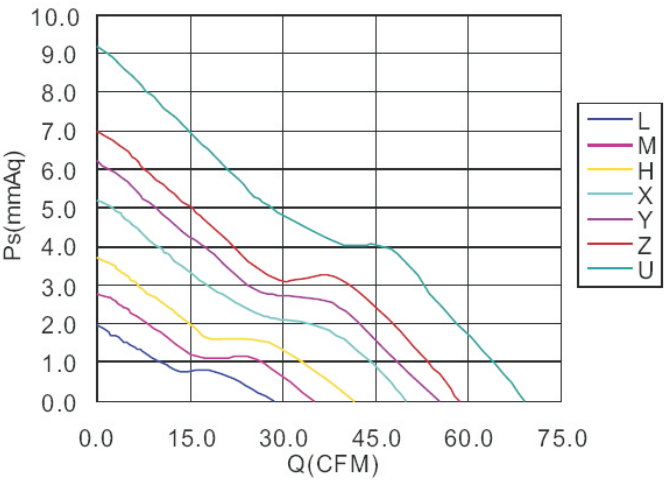
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)8012LB-(2)25	12	0.806	28.46	1.98	0.078	2,100	0.12	1.44	23.1	90
MG(1)8012MB-(2)25	12	0.987	34.85	2.79	0.110	2,500	0.15	1.80	29.0	90
MG(1)8012HB-(2)25	12	1.171	41.34	3.71	0.146	3,000	0.24	2.88	33.2	90
MG(1)8012XB-(2)25	12	1.413	49.89	5.19	0.204	3,600	0.39	4.68	37.3	90
MG(1)8012YB-(2)25	12	1.562	55.13	6.21	0.244	3,900	0.42	5.04	39.2	90
MG(1)8012ZB-(2)25	12	1.653	58.35	7.00	0.276	4,200	0.54	6.48	42.3	90
MG(1)8012UB-(2)25	12	1.951	68.88	9.17	0.361	4,800	0.66	7.92	45.2	90
MG(1)8024LB-(2)25	24	0.806	28.46	1.98	0.078	2,100	0.09	2.16	23.1	90
MG(1)8024MB-(2)25	24	0.987	34.85	2.79	0.110	2,500	0.11	2.64	29.0	90
MG(1)8024HB-(2)25	24	1.171	41.34	3.71	0.146	3,000	0.16	3.84	33.2	90
MG(1)8024XB-(2)25	24	1.413	49.89	5.19	0.204	3,600	0.23	5.52	37.3	90
MG(1)8024YB-(2)25	24	1.562	55.13	6.21	0.244	3,900	0.26	6.24	39.2	90
MG(1)8024ZB-(2)25	24	1.653	58.35	7.00	0.276	4,200	0.30	7.20	42.3	90
MG(1)8024UB-(2)25	24	1.951	68.88	9.17	0.361	4,800	0.48	11.52	45.2	90

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
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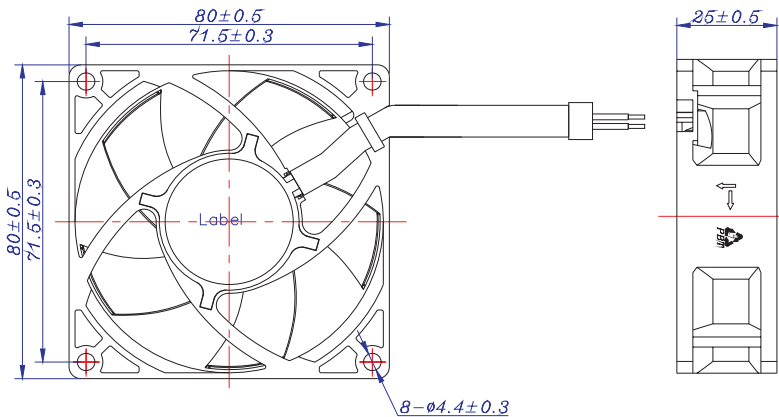
80x80x25mm IPX5 series ③

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



- Note:
- ①-Reference standard: IEC 61000-4-2

②-Reference standard: UL 1446

③-Reference standard: IEC 60529

Protechnic Products

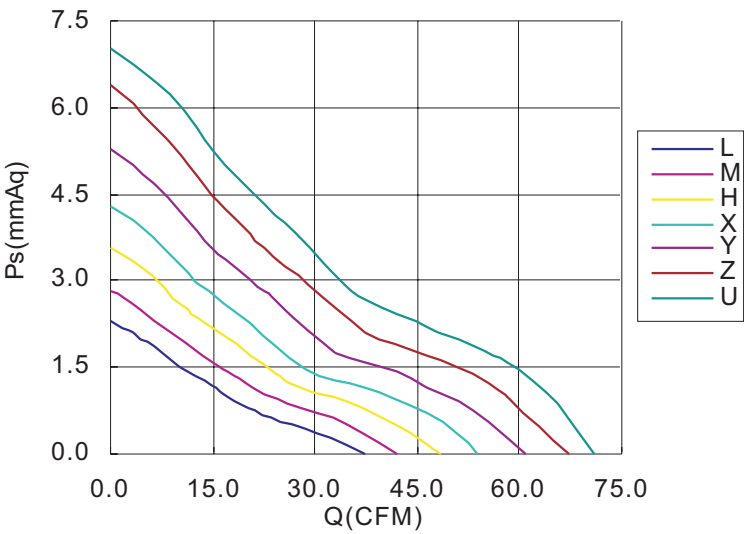
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)8012LB-(2)25	12	0.806	28.46	1.98	0.078	2,100	0.12	1.44	23.1	90
MG(1)8012MB-(2)25	12	0.987	34.85	2.79	0.110	2,500	0.15	1.80	29.0	90
MG(1)8012HB-(2)25	12	1.171	41.34	3.71	0.146	3,000	0.24	2.88	33.2	90
MG(1)8012XB-(2)25	12	1.413	49.89	5.19	0.204	3,600	0.39	4.68	37.3	90
MG(1)8012YB-(2)25	12	1.562	55.13	6.21	0.244	3,900	0.42	5.04	39.2	90
MG(1)8012ZB-(2)25	12	1.653	58.35	7.00	0.276	4,200	0.54	6.48	42.3	90
MG(1)8012UB-(2)25	12	1.951	68.88	9.17	0.361	4,800	0.66	7.92	45.2	90
MG(1)8024LB-(2)25	24	0.806	28.46	1.98	0.078	2,100	0.09	2.16	23.1	90
MG(1)8024MB-(2)25	24	0.987	34.85	2.79	0.110	2,500	0.11	2.64	29.0	90
MG(1)8024HB-(2)25	24	1.171	41.34	3.71	0.146	3,000	0.16	3.84	33.2	90
MG(1)8024XB-(2)25	24	1.413	49.89	5.19	0.204	3,600	0.23	5.52	37.3	90
MG(1)8024YB-(2)25	24	1.562	55.13	6.21	0.244	3,900	0.26	6.24	39.2	90
MG(1)8024ZB-(2)25	24	1.653	58.35	7.00	0.276	4,200	0.30	7.20	42.3	90
MG(1)8024UB-(2)25	24	1.951	68.88	9.17	0.361	4,800	0.48	11.52	45.2	90

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

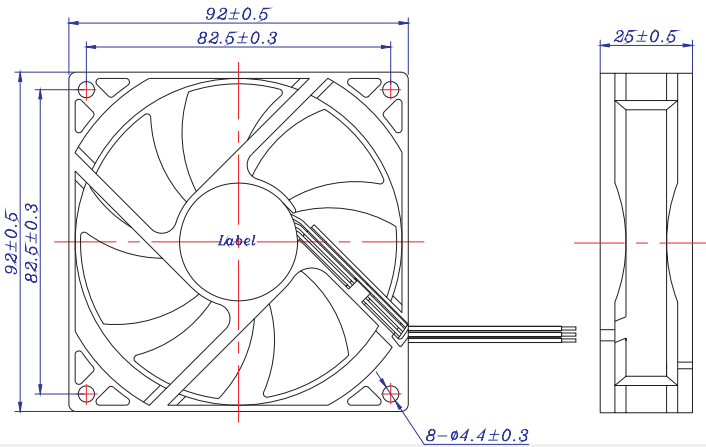
92x92x25mm IP5X series ③

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☒ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



- Note:**
- ①-Reference standard: IEC 61000-4-2
 - ②-Reference standard: UL 1446
 - ③-Reference standard: IEC 60529

Protechnic Products

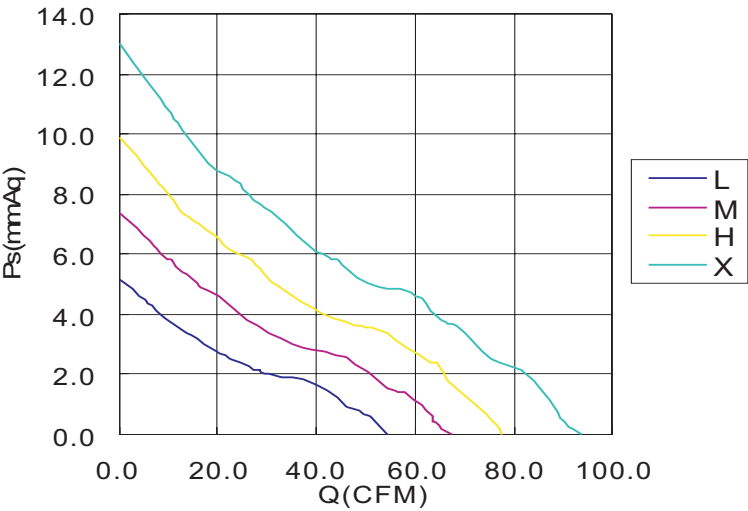
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)9212LB-(2)25	12	1.061	37.44	2.32	0.091	2,100	0.15	1.80	30.4	95
MG(1)9212MB-(2)25	12	1.194	42.15	2.81	0.111	2,300	0.17	2.04	31.0	95
MG(1)9212HB-(2)25	12	1.369	48.32	3.58	0.141	2,600	0.25	3.00	33.7	95
MG(1)9212XB-(2)25	12	1.497	52.86	4.27	0.168	2,900	0.32	3.84	38.3	95
MG(1)9212YB-(2)25	12	1.728	60.99	5.26	0.207	3,200	0.41	4.92	40.4	95
MG(1)9212ZB-(2)25	12	1.939	68.46	6.40	0.252	3,600	0.47	5.64	43.1	95
MG(1)9212UB-(2)25	12	1.985	70.08	7.02	0.276	3,800	0.54	6.48	44.2	95
MG(1)9224LB-(2)25	24	1.061	37.44	2.32	0.091	2,100	0.12	2.88	30.4	95
MG(1)9224MB-(2)25	24	1.194	42.15	2.81	0.111	2,300	0.15	3.60	31.0	95
MG(1)9224HB-(2)25	24	1.369	48.32	3.58	0.141	2,600	0.19	4.56	33.7	95
MG(1)9224XB-(2)25	24	1.497	52.86	4.27	0.168	2,900	0.22	5.28	38.3	95
MG(1)9224YB-(2)25	24	1.728	60.99	5.26	0.207	3,200	0.27	6.48	40.4	95
MG(1)9224ZB-(2)25	24	1.939	68.46	6.40	0.252	3,600	0.40	9.60	43.1	95
MG(1)9224UB-(2)25	24	1.985	70.08	7.02	0.276	3,800	0.48	11.52	44.2	95

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
A: None Automatic Restart;
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
S: Thermo-Control Speed, Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

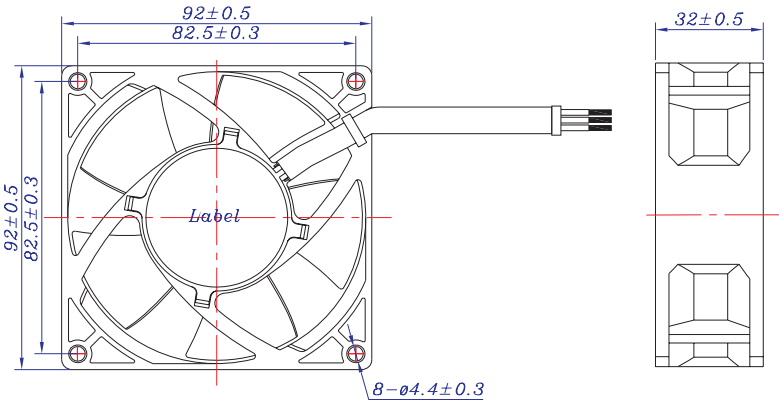
92x92x32mm IP68 series ③

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



- Note:**
- ①-Reference standard: IEC 61000-4-2
 - ②-Reference standard: UL 1446
 - ③-Reference standard: IEC 60529

Protechnic Products

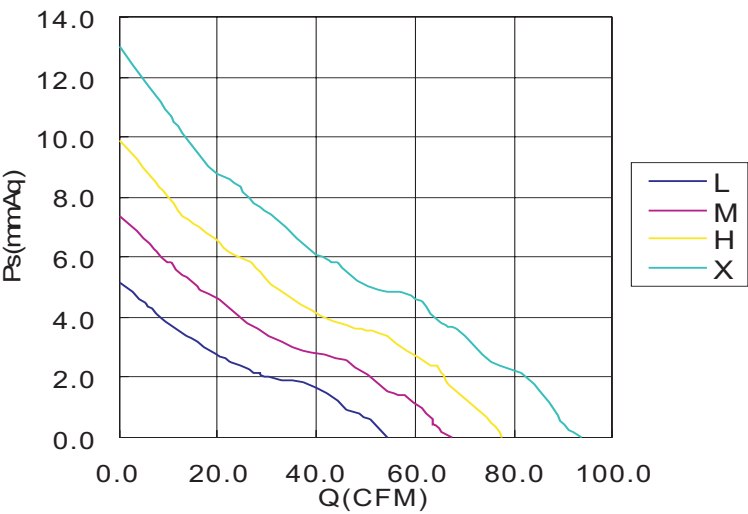
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)9212LB-(2)32	12	1.542	54.43	5.15	0.203	3,000	0.20	2.40	36.5	168
MG(1)9212MB-(2)32	12	1.909	67.38	7.39	0.291	3,600	0.42	5.04	41.0	168
MG(1)9212HB-(2)32	12	2.203	77.78	9.85	0.388	4,200	0.68	8.16	46.6	168
MG(1)9212XB-(2)32	12	2.650	93.55	13.00	0.512	4,800	1.00	12.00	50.6	168
MG(1)9224LB-(2)32	24	1.542	54.43	5.15	0.203	3,000	0.12	2.88	36.5	168
MG(1)9224MB-(2)32	24	1.909	67.38	7.39	0.291	3,600	0.21	5.04	41.0	168
MG(1)9224HB-(2)32	24	2.203	77.78	9.85	0.388	4,200	0.30	7.20	46.6	168
MG(1)9224XB-(2)32	24	2.650	93.55	13.00	0.512	4,800	0.45	10.80	50.6	168

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

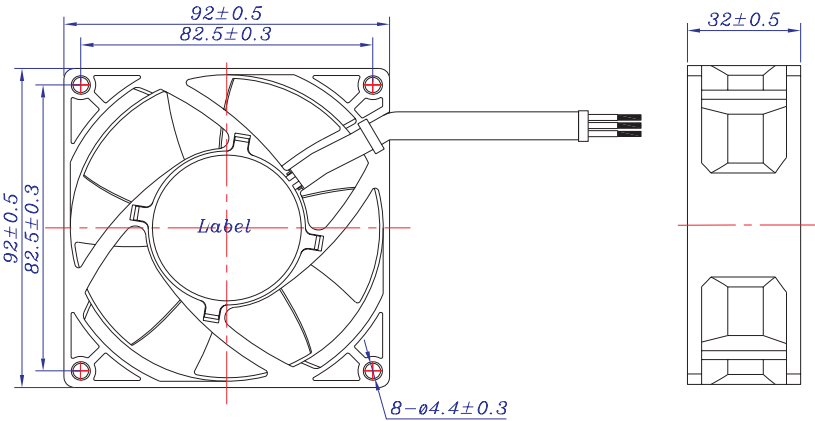
92x92x32mm IP55 series ③

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



- Note:**
- ①-Reference standard: IEC 61000-4-2
 - ②-Reference standard: UL 1446
 - ③-Reference standard: IEC 60529

Protechnic Products

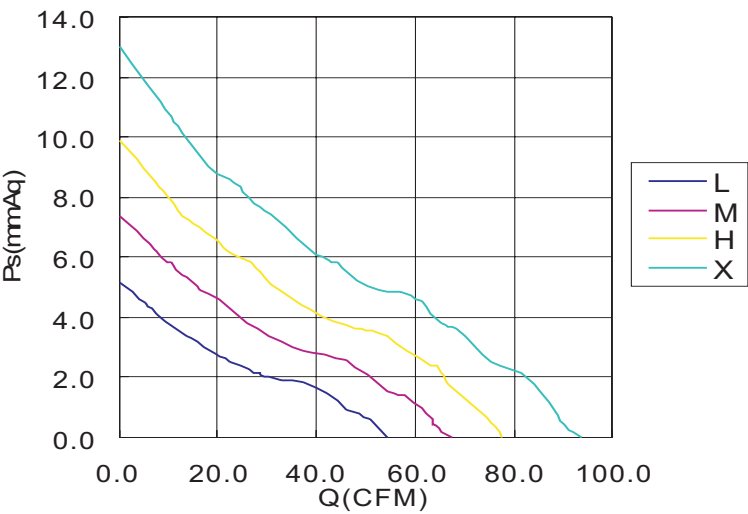
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)9212LB-(2)32	12	1.542	54.43	5.15	0.203	3,000	0.20	2.40	36.5	168
MG(1)9212MB-(2)32	12	1.909	67.38	7.39	0.291	3,600	0.42	5.04	41.0	168
MG(1)9212HB-(2)32	12	2.203	77.78	9.85	0.388	4,200	0.68	8.16	46.6	168
MG(1)9212XB-(2)32	12	2.650	93.55	13.00	0.512	4,800	1.00	12.00	50.6	168
MG(1)9224LB-(2)32	24	1.542	54.43	5.15	0.203	3,000	0.12	2.88	36.5	168
MG(1)9224MB-(2)32	24	1.909	67.38	7.39	0.291	3,600	0.21	5.04	41.0	168
MG(1)9224HB-(2)32	24	2.203	77.78	9.85	0.388	4,200	0.30	7.20	46.6	168
MG(1)9224XB-(2)32	24	2.650	93.55	13.00	0.512	4,800	0.45	10.80	50.6	168

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

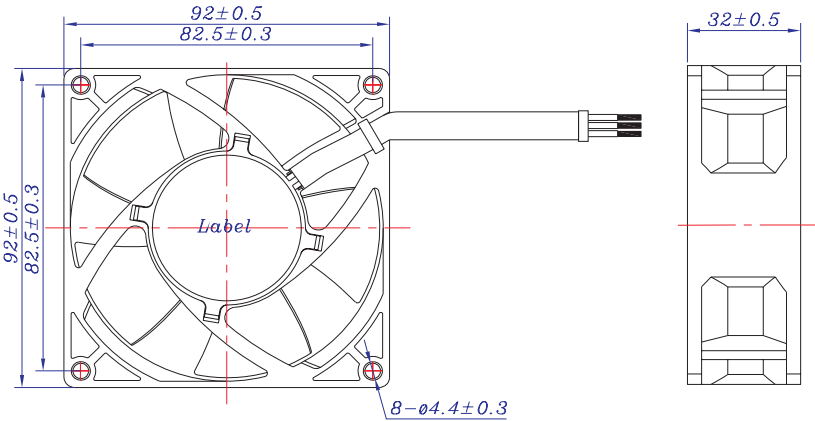
92x92x32mm IPX5 series ③

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☐ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☒ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



- Note:**
- ①-Reference standard: IEC 61000-4-2
 - ②-Reference standard: UL 1446
 - ③-Reference standard: IEC 60529

Protechnic Products

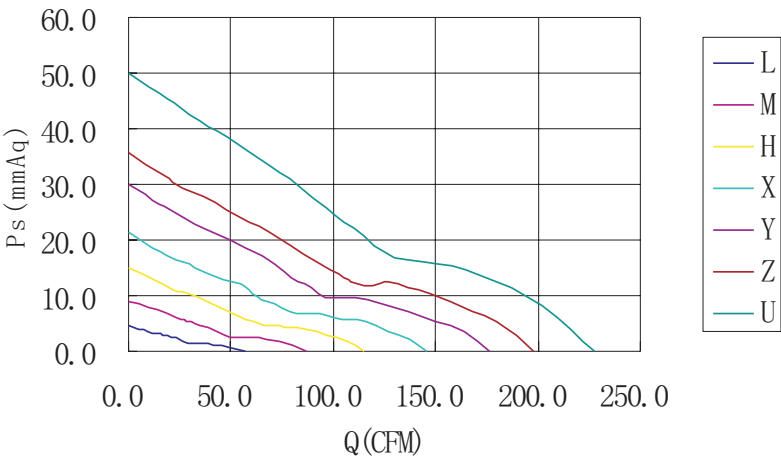
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)9212LB-(2)32	12	1.542	54.43	5.15	0.203	3,000	0.20	2.40	36.5	168
MG(1)9212MB-(2)32	12	1.909	67.38	7.39	0.291	3,600	0.42	5.04	41.0	168
MG(1)9212HB-(2)32	12	2.203	77.78	9.85	0.388	4,200	0.68	8.16	46.6	168
MG(1)9212XB-(2)32	12	2.650	93.55	13.00	0.512	4,800	1.00	12.00	50.6	168
MG(1)9224LB-(2)32	24	1.542	54.43	5.15	0.203	3,000	0.12	2.88	36.5	168
MG(1)9224MB-(2)32	24	1.909	67.38	7.39	0.291	3,600	0.21	5.04	41.0	168
MG(1)9224HB-(2)32	24	2.203	77.78	9.85	0.388	4,200	0.30	7.20	46.6	168
MG(1)9224XB-(2)32	24	2.650	93.55	13.00	0.512	4,800	0.45	10.80	50.6	168

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
The spec is for reference only, it's subject to change without any prior notice

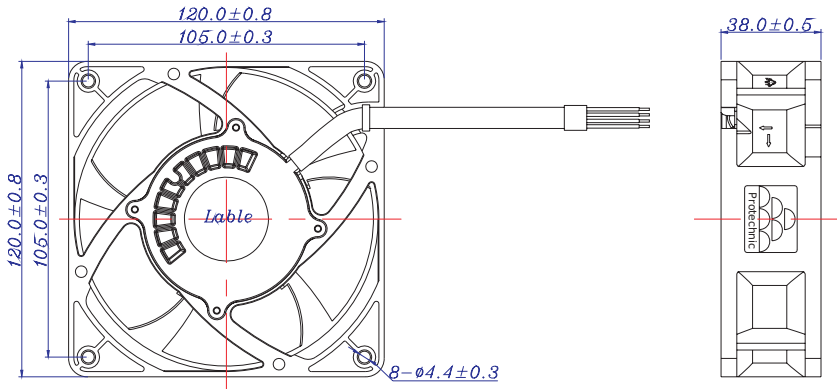
120x120x38mm IP68 series ③

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☒ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446
- ③-Reference standard: IEC 60529

Protechnic Products

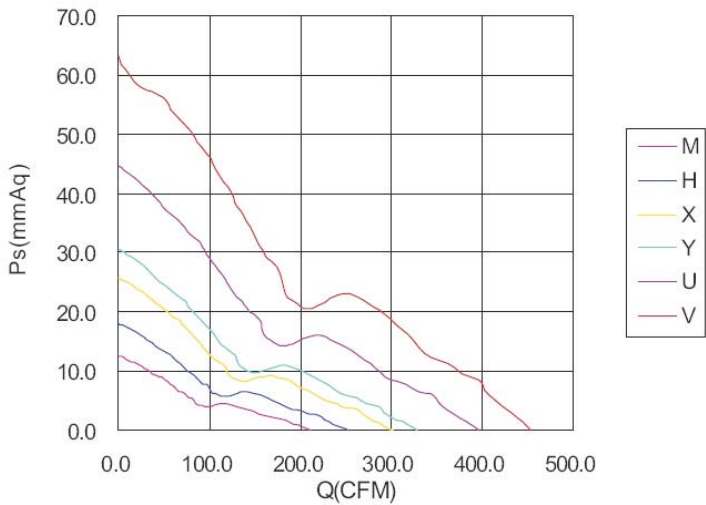
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)12012LB-(2)38	12	1.612	56.91	4.49	0.177	2,000	0.45	5.40	36.0	415
MG(1)12012MB-(2)38	12	2.458	86.77	9.08	0.357	3,000	0.68	8.16	46.1	415
MG(1)12012HB-(2)38	12	3.255	114.91	15.07	0.593	4,000	0.86	10.32	54.5	415
MG(1)12012XB-(2)38	12	4.127	145.67	21.50	0.846	5,000	1.35	16.20	60.7	415
MG(1)12012YB-(2)38	12	5.001	176.53	29.90	1.177	6,000	2.10	25.20	64.9	415
MG(1)12024LB-(2)38	24	1.612	56.91	4.49	0.177	2,000	0.22	5.28	36.0	415
MG(1)12024MB-(2)38	24	2.458	86.77	9.08	0.357	3,000	0.34	8.16	46.1	415
MG(1)12024HB-(2)38	24	3.255	114.91	15.07	0.593	4,000	0.43	10.32	54.5	415
MG(1)12024XB-(2)38	24	4.127	145.67	21.50	0.846	5,000	0.70	16.80	60.7	415
MG(1)12024YB-(2)38	24	5.001	176.53	29.90	1.177	6,000	1.05	25.20	64.9	415
MG(1)12024ZB-(2)38	24	5.603	197.78	35.70	1.406	6,800	1.40	33.60	67.8	415
MG(1)12024UB-(2)38	24	6.459	228.00	50.00	1.969	7,500	1.75	42.00	70.0	415
MG(1)12048MB-(2)38	48	2.458	86.77	9.08	0.357	3,000	0.18	8.64	46.1	415
MG(1)12048HB-(2)38	48	3.255	114.91	15.07	0.593	4,000	0.26	12.48	54.5	415
MG(1)12048XB-(2)38	48	4.127	145.67	21.50	0.846	5,000	0.35	16.80	60.7	415
MG(1)12048YB-(2)38	48	5.001	176.53	29.90	1.177	6,000	0.43	20.64	64.9	415
MG(1)12048ZB-(2)38	48	5.603	197.78	35.70	1.406	6,800	0.60	28.80	67.8	415
MG(1)12048UB-(2)38	48	6.459	228.00	50.00	1.969	7,500	0.85	40.80	70.0	415

Remarks:
(1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
(2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
W: Pulse Width Modulation & Automatic Restart & Locked Current Protection (PWM).
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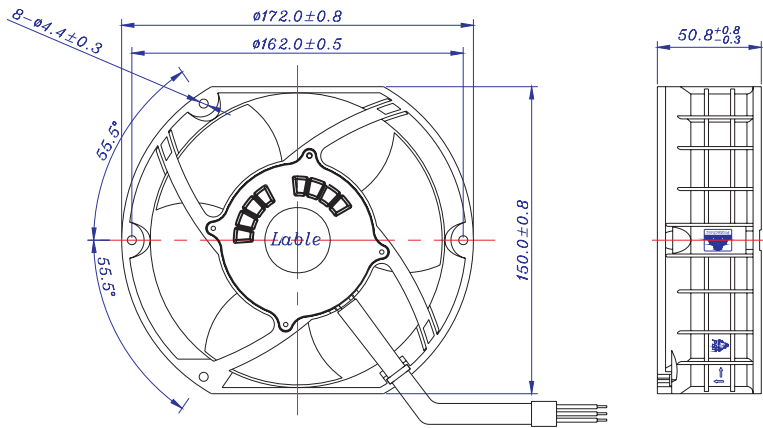
172x172x50.8mm IP68 series ③

Bearing Type	☒ 2 Ball	☐ Sleeve	☐ Rifle	☐ FDB
Speed Control	☒ Voltage	☐ Temperature	☒ PWM	
	☒ ±5% Speed tolerance		☒ ±10% Speed tolerance	
Frame Type	☐ 4 Screw	☒ 8 Screw		
Signal output	☒ Alarm Signal	☒ Tacho Signal		
Protection	☒ Lock	☒ Reverse	☐ Over Voltage	☐ Over heat
ESD ①	☐ Class I	☐ Class II	☒ Class III	
Insulation ②	☒ Class A	☐ Class B	☐ Class C	☐ Class F
Safety	☒ UL	☒ TUV	☒ CE	☐ VDE
Motor type	☒ Uni-phase	☐ 2 phase	☐ 3 phase	

AIR FLOW/STATIC-PRESSURE



OUTLINE(mm)



Note:

- ①-Reference standard: IEC 61000-4-2
- ②-Reference standard: UL 1446
- ③-Reference standard: IEC 60529

Protechnic Products

Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)1712MB-(2)51	12	5.942	209.70	12.50	0.495	2,800	0.79	9.48	50.0	780
MG(1)1712HB-(2)51	12	7.110	251.00	18.00	0.709	3,350	1.32	15.84	55.0	780
MG(1)1712XB-(2)51	12	8.498	299.70	25.60	1.010	4,000	2.10	25.20	60.0	780
MG(1)1712YB-(2)51	12	9.230	325.00	30.30	1.194	4,350	3.80	44.16	63.5	780
MG(1)1712UB-(2)51	12	11.140	393.30	44.20	1.740	5,250	5.00	67.20	69.0	780
MG(1)1724MB-(2)51	24	5.942	209.70	12.50	0.495	2,800	0.39	9.36	50.0	780
MG(1)1724HB-(2)51	24	7.110	251.00	18.00	0.709	3,350	0.66	15.84	55.0	780
MG(1)1724XB-(2)51	24	8.489	299.70	25.60	1.010	4,000	1.00	24.00	60.0	780
MG(1)1724YB-(2)51	24	9.230	325.00	30.30	1.194	4,350	2.00	44.16	63.5	780
MG(1)1724UB-(2)51	24	11.140	393.30	44.20	1.740	5,250	3.00	67.20	69.0	780
MG(1)1724VB-(2)51	24	12.796	451.70	62.80	2.472	6,300	4.00	96.00	73.0	780
MG(1)1748HB-(2)51	48	7.110	251.00	18.00	0.709	3,350	0.52	24.96	55.0	780
MG(1)1748XB-(2)51	48	8.498	299.70	25.60	1.010	4,000	0.73	35.04	60.0	780
MG(1)1748YB-(2)51	48	9.230	325.00	30.30	1.194	4,350	0.92	44.16	63.5	780
MG(1)1748UB-(2)51	48	11.140	393.30	44.20	1.740	5,250	1.40	67.20	69.0	780
MG(1)1748VB-(2)51	48	12.796	451.70	62.80	2.472	6,300	2.30	110.40	73.0	780

Remarks:

- (1)-Electric Characteristics:
A: Standard 2-Pin; T: Frequency Generation 3-Pin or more.
- (2)-Function:
O: Automatic Restart & Locked Current Protection;
R: Rotate Detection Automatic Restart & Locked Current Protection;
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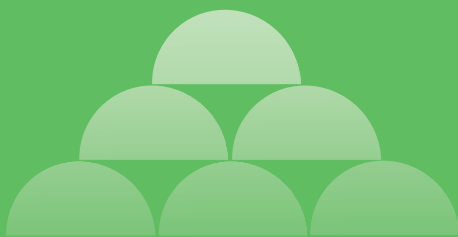
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