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Professional AC & DC Fan Motors



- High Performance
- IP 55 & 56
- Low Noise

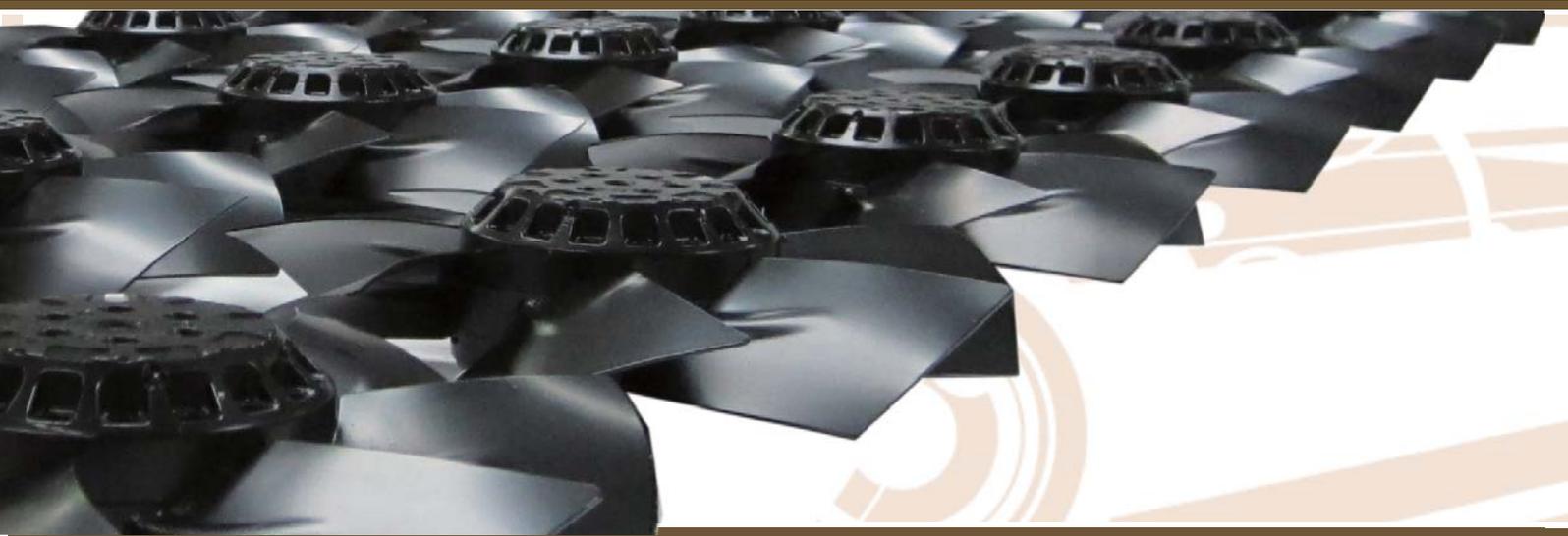


About SINWAN Fan Motors

Sinwan industrial Co. of Taipei, Taiwan, was established in 1976 and we changed company name to Sinwan Electric Industries Co., Ltd. then to keep expanding its Design/Manufacturing /Assembly business to include contracts with various prestigious companies in the world.

Sinwan offers full series of product combinations, including Plastic or Metal Axial Fans, Centrifugal Fans, Crossflow Fans, Blowers, Motors, and Fan Accessories in both AC and DC market with varieties of functions. This wide selection enables our customers to choose the correct air moving devices for all applications. "Practical outcomes through innovative means" is what we believe.

SINWAN products are tested in compliance with UL (File No. fans : E89520 , motors : E329400), TUV (File No. 10013902) , and CE international safety approvals. IP approvals meet 44, 55, 56 & 66 optional.



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AC All Metal Impeller Axial Fans



Model Information

M 109 AP 22 - 1 W B (F)

Series Name
M-Metal Impeller
MK-Skeleton Metal Impeller

Frame Size(mm)

280G	: 280x280x89mm	Max.1300 CFM
254G	: Dia.254x89mm	Max.1000 CFM
254G (3)	: Dia.254x89mm	Max.930 CFM
225G	: 225x225x80mm	Max.600 CFM
205R	: 205x205x72mm	Max.590 CFM
200R	: 200x220x70mm	Max.485 CFM
180G	: 176x176x89mm	Max.380 CFM
180F	: 180x180x65mm	Max.400 CFM
172E	: 150x172x55mm	Max.210 CFM
172E (MS)	: 150x172x55mm	Max.250 CFM
172E (C7)	: 150x172x55mm	Max.312 CFM
172R	: Dia.172x51mm	Max.215 CFM
172R (MS)	: Dia.172x51mm	Max.260 CFM
172R (C7)	: Dia.172x51mm	Max.300 CFM
172S	: 172x150x51mm	Max.210 CFM
172S (MS)	: 172x150x51mm	Max.250 CFM
172S (C7)	: 172x150x51mm	Max.310 CFM
150	: 172x150x38.5mm	Max.225 CFM
150 (MS)	: 172x150x38.5mm	Max.240 CFM
127	: 127x127x38.5mm	Max.128 CFM
109	: 120x120x38.5mm	Max.105 CFM
1232	: 120x120x32mm	Max.73 CFM
938	: 92x92x38mm	Max.55 CFM
838	: 80x80x38mm	Max.33 CFM

Voltage (VAC)
11 -115V
22 -230V
38 -380V
44 -440V
2 -12V
4 -24V
6 -28V
8 -48V
Dual Voltage
11/22 -115V/230V

Frame
AN-Aluminum natural treatment
AP-Aluminum optional black color treatment

Function
F-F/G Tachometer
R-R/D Alarm for motor slow down

Bearing
B-Two Ball Bearings

Connecting
W-Wire Lead Type
T-Terminal push-in Flat Pins Type or Terminal Block

Speed
1-High Speed
2-Medium Speed
3-Low Speed
3(3)-Extra Low Speed
1/2-Dual Speed (High / Medium)
2/3-Dual Speed (Medium / Low)
1/2/3-Multiple (High / Medium / Low)



280x280x89mm / 11x3.5inch

Max. 1300 CFM

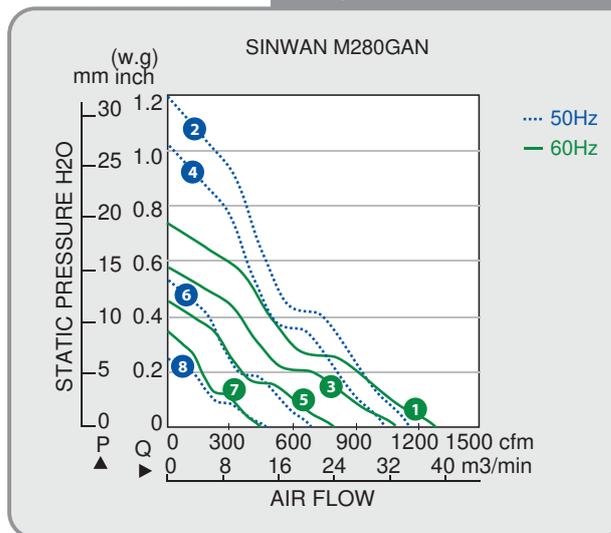
Metal Impeller, IP56

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M280GAN11-1**	115	100~120	50/60	155/210	2800/3200	1150/1300	32.6/36.8	1.2/0.75	30.48/19.05	73	2 / 1
M280GAN11-2**	115	100~120	50/60	110/180	2400/2500	1000/1050	28.3/29.7	1.02/0.59	25.91/14.99	62	4 / 3
M280GAN11-3**	115	100~120	50/60	32/43	1500/1600	620/650	17.6/18.4	0.4/0.35	10.16/8.89	46	6 / 5
M280GAN11-4**	115	100~120	50/60	26/35	1200/1100	460/450	13/12.7	0.25/0.35	6.35/8.89	34	8 / 7
M280GAN22-1**	230	200~240	50/60	155/210	2800/3200	1150/1300	32.6/36.8	1.2/0.75	30.48/19.05	73	2 / 1
M280GAN22-2**	230	200~240	50/60	110/180	2400/2500	1000/1050	28.3/29.7	1.02/0.59	25.91/14.99	62	4 / 3
M280GAN22-3**	230	200~240	50/60	32/43	1500/1600	620/650	17.6/18.4	0.4/0.35	10.16/8.89	46	6 / 5
M280GAN22-4**	230	200~240	50/60	26/35	1200/1100	460/450	13/12.7	0.25/0.35	6.35/8.89	34	8 / 7
M280GAN8-1**	48	48~58	50/60	155/210	2800/3200	1150/1300	32.6/36.8	1.2/0.75	30.48/19.05	73	2 / 1
M280GAN38-1**	380	380~420	50/60	155/210	2800/3200	1150/1300	32.6/36.8	1.2/0.75	30.48/19.05	73	2 / 1
M280GAN44-1**	440	440~480	50/60	155/210	2800/3200	1150/1300	32.6/36.8	1.2/0.75	30.48/19.05	73	2 / 1
M280GAN11/22-1** (dual voltage)	230	200~240	50/60	155/210	2800/3000	1150/1250	32.6/35.4	1.2/0.68	30.48/17.27	73	2 / 1

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

► Performance P-Q Curves



Motor

Motor Type: Capacitor induction, outer rotor, 1-phase
 Burnout Protection: Thermal protector
 IP Protection: IP56

Mechanical

Frame: Aluminum die cast, natural color(AN)
 Impeller: 7 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 3,400g

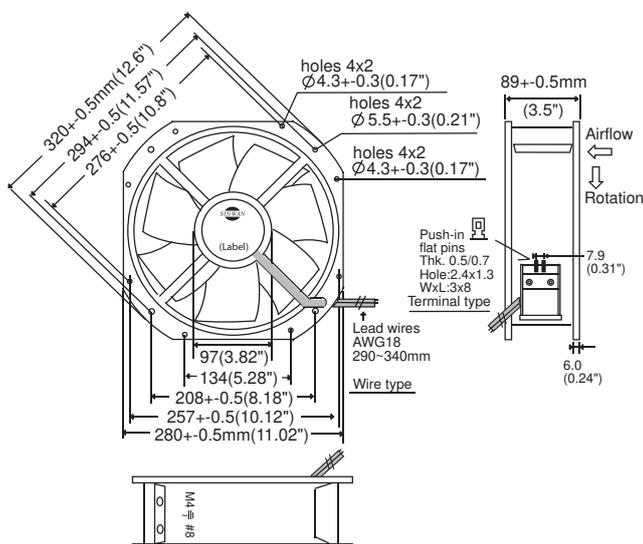
Electronical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
 Insulation Resistance: Over 100 MΩ at DC 500V
 Signal Output: R/D alarm output, tachometer output

Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
 Storage Temp: -40°C~+100°C (at 65%RH)
 Life Expectancy: L10 50K hours at 55°C

► Outline Dimensions



Fan Accessories





Dia.254x89mm / 10x3.5inch

Max. 1000 CFM

Metal Impeller, IP56

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M254GAN11-1**	115	100~120	50/60	95/105	2800/3250	840/1000	23.8/28.3	0.78/0.60	19.8/15.2	70	2 / 1
M254GAN11-2**	115	100~120	50/60	80/95	2300/2200	660/620	18.7/17.6	0.33/0.27	8.4/6.9	63	4 / 3
M254GAN11-3**	115	100~120	50/60	32/40	1600/1500	560/500	15.9/14.2	0.25/0.20	6.4/5.1	46	6 / 5
M254GAN11-4**	115	100~120	50/60	24/33	1200/1100	420/370	11.9/10.5	0.18/0.14	4.6/3.6	34	8 / 7
M254GAN22-1**	230	200~240	50/60	95/105	2800/3250	840/1000	23.8/28.3	0.78/0.60	19.8/15.2	70	2 / 1
M254GAN22-2**	230	200~240	50/60	80/95	2300/2200	660/620	18.7/17.6	0.33/0.27	8.4/6.9	63	4 / 3
M254GAN22-3**	230	200~240	50/60	32/40	1500/1600	500/560	14.2/15.9	0.53/0.60	6.4/5.1	50	6 / 5
M254GAN22-4**	230	200~240	50/60	24/33	1200/1100	420/370	11.9/10.5	0.18/0.14	4.6/3.6	34	8 / 7
M254GAN8-1**	48	48~58	50/60	95/105	2800/3200	830/1000	23.5/28.3	0.78/0.60	19.8/15.2	70	2 / 1
M254GAN38-1**	380	380~420	50/60	95/105	2800/3250	840/1000	23.8/28.3	0.78/0.60	19.8/15.2	70	2 / 1
M254GAN44-1**	440	440~480	50/60	95/105	2800/3250	840/1000	23.8/28.3	0.78/0.60	19.8/15.2	70	2 / 1
M254GAN11/22-1** (dual voltage)	115 230	100~120 200~240	50/60	95/105	2750/3250	840/1000	23.8/28.3	1.05/1.15	26.7/29.2	70	2 / 1

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Capacitor induction, outer rotor, 1-phase
 Burnout Protection: Thermal protector
 IP Protection: IP56

Mechanical

Frame: Aluminum die cast, natural color(AN)
 Impeller: 7 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 2,550 g

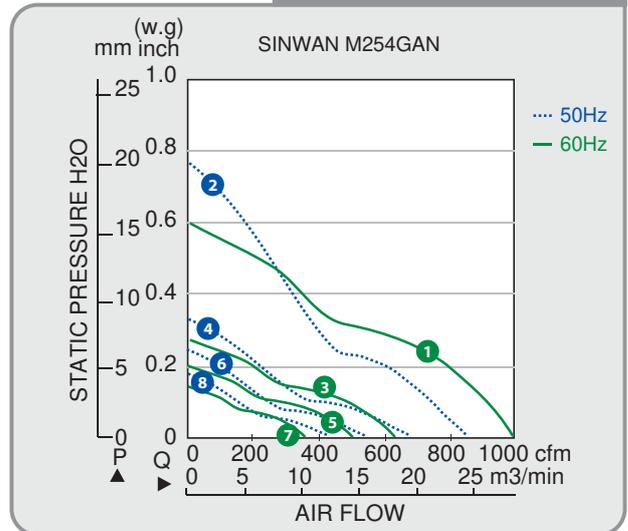
Electronical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
 Insulation Resistance: Over 100 MΩ at DC 500V
 Signal Output: Optional:R/D alarm output, tachometer output

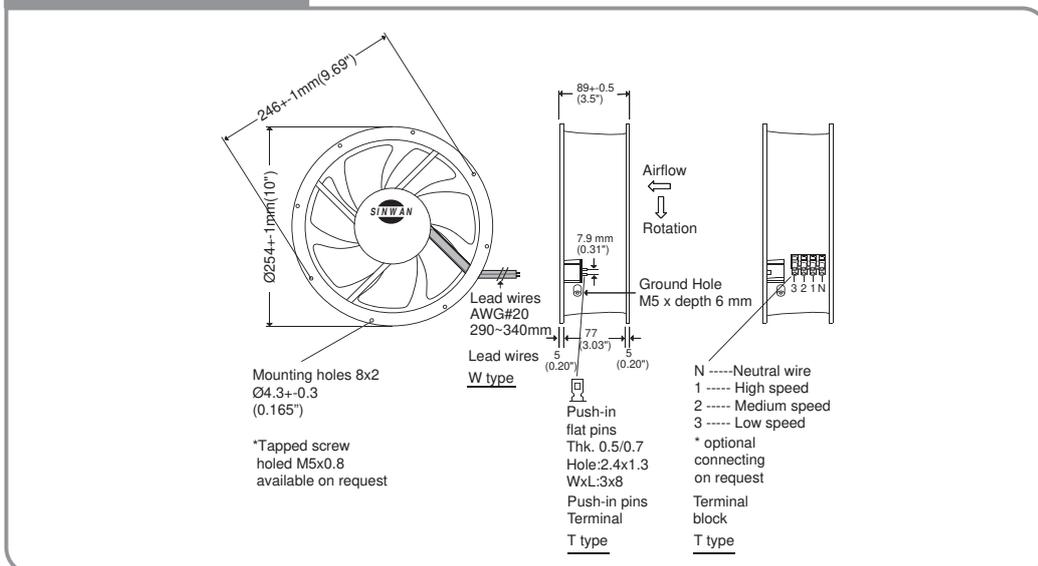
Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
 Storage Temp: -40°C~+100°C (at 65%RH)
 Life Expectancy: L10 50K hours at 55°C

Performance P-Q Curves



Outline Dimensions



Fan Accessories





Dia.254x89mm / 10x3.5 inch

Max. 930 CFM

Metal Impeller, IP56

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M254GAN11-1** (3)	115	100~120	50/60	95/105	2800/3300	800/930	22.7/26.3	0.96/1.07	24.38/27.18	67	2 / 1
M254GAN11-2** (3)	115	100~120	50/60	80/95	2300/2250	670/615	19/17.4	0.25/0.20	6.35/5.08	56	4 / 3
M254GAN11-3** (3)	115	100~120	50/60	32/40	1500/1700	510/460	11.3/12.7	0.22/0.28	5.59/7.11	49	6 / 5
M254GAN11-4** (3)	115	100~120	50/60	24/33	1200/1100	370/340	10.5/9.6	0.18/0.15	4.57/3.81	37	8 / 7
M254GAN22-1** (3)	230	200~240	50/60	95/105	2800/3300	800/930	22.7/26.3	0.89/1.10	22.61/27.94	67	2 / 1
M254GAN22-2** (3)	230	200~240	50/60	80/95	2300/2250	670/615	19/17.4	0.25/0.20	6.35/5.08	53	4 / 3
M254GAN22-3** (3)	230	200~240	50/60	32/40	1500/1700	510/460	11.3/12.7	0.22/0.28	5.59/7.11	48	6 / 5
M254GAN22-4** (3)	230	200~240	50/60	24/33	1200/1100	370/340	10.5/9.6	0.18/0.15	4.57/3.81	35	8 / 7
M254GAN8-1** (3)	48	48~58	50/60	95/105	2700/3200	790/920	22.4/26.1	0.96/1.07	24.38/27.18	67	2 / 1
M254GAN38-1** (3)	380	380~420	50/60	95/105	2800/3280	800/930	22.7/26.3	0.96/1.07	24.38/27.18	67	2 / 1
M254GAN44-1** (3)	440	440~480	50/60	95/105	2800/3280	800/930	22.7/26.3	0.96/1.07	24.38/27.18	67	2 / 1
M254GAN11/22-1** (3) (dual voltage)	115 230	100~120 200~240	50/60	95/105	2800/3300	800/930	22.7/26.3	0.96/1.07	24.38/27.18	67	2 / 1

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Capacitor induction, outer rotor, 1-phase
 Burnout Protection: Thermal protector
 IP Protection: IP56

Mechanical

Frame: Aluminum die cast, natural color(AN)
 Impeller: 3 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 2,350 g

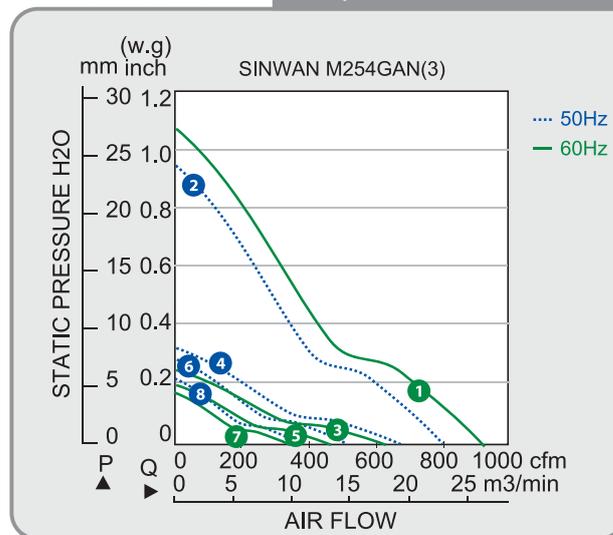
Electrical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
 Insulation Resistance: Over 100 MΩ at DC 500V
 Signal Output: Optional:R/D alarm output, tachometer output

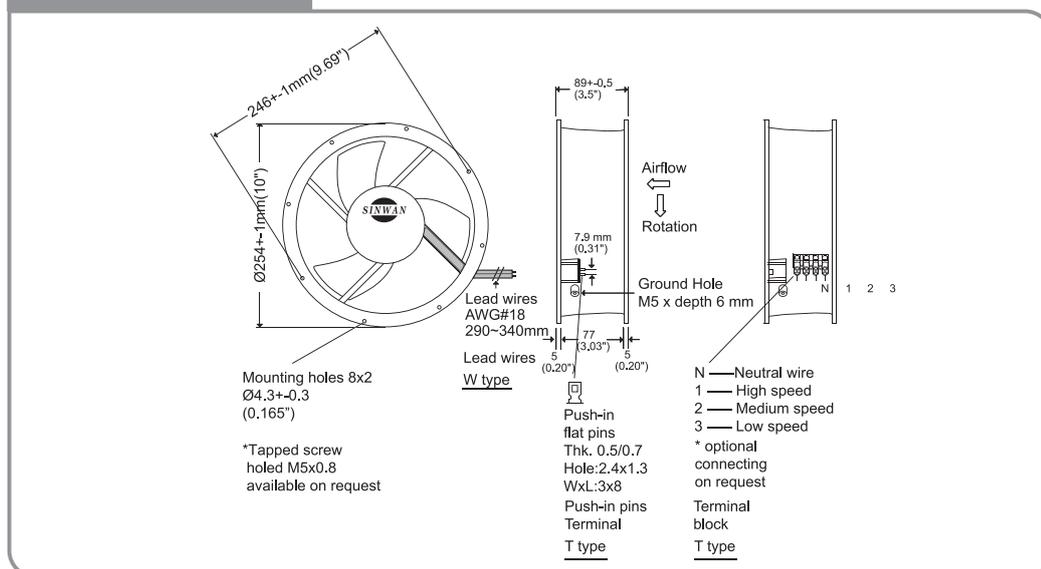
Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
 Storage Temp: -40°C~+100°C (at 65%RH)
 Life Expectancy: L10 50K hours at 55°C

► Performance P-Q Curves



► Outline Dimensions



Fan Accessories





225x240x80mm / 8.9x9.5x3.1inch

Max. 600 CFM

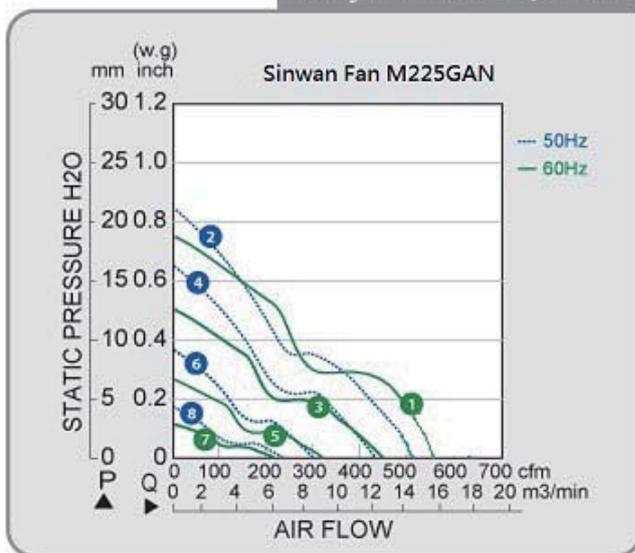
Metal Impeller, IP56

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M225GAN11-1**	115	100~120	50/60	60/80	2700/3100	525/600	14.9/17	0.91/0.88	23.11/22.35	66	2 / 1
M225GAN11-2**	115	100~120	50/60	55/65	2300/2250	460/450	13/12.7	0.68/0.52	17.27/13.21	54	4 / 3
M225GAN11-3**	115	100~120	50/60	20/30	1550/1650	310/330	8.8/9.3	0.38/0.31	9.65/7.87	48	6 / 5
M225GAN11-4**	115	100~120	50/60	18/25	1200/1100	240/217	6.8/6.1	0.21/0.14	5.33/3.56	37	8 / 7
M225GAN22-1**	230	200~240	50/60	60/80	2650/3000	530/600	15/17	0.82/0.78	20.83/19.81	66	2 / 1
M225GAN22-2**	230	200~240	50/60	55/65	2300/2250	460/450	13/12.7	0.68/0.52	17.27/13.21	54	4 / 3
M225GAN22-3**	230	200~240	50/60	20/30	1550/1650	310/330	8.8/9.3	0.38/0.31	9.65/7.87	48	6 / 5
M225GAN22-4**	230	200~240	50/60	18/25	1200/1100	240/217	6.8/6.1	0.21/0.14	5.33/3.56	37	8 / 7
M225GAN8-1**	48	48~58	50/60	60/80	2700/3100	525/600	14.9/17	0.91/0.88	23.11/22.35	66	2 / 1
M225GAN44-1**(380)	380	380~420	50/60	60/80	2700/3100	525/600	14.9/17	0.91/0.88	23.11/22.35	66	2 / 1
M225GAN44-1**(440)	440	440~480	50/60	60/80	2700/3100	525/600	14.9/17	0.91/0.88	23.11/22.35	66	2 / 1
M225GAN11-1/2** (dual speed -1 & -2)	115	100~120	50/60	-1 60/80 -2 55/65	2700/3100 2300/2200	525/600 460/450	14.9/17 13/12.7	0.91/0.88 0.68/0.52	23.11/22.35 17.27/13.21	66 54	2 / 1 4 / 3
M225GAN22-1/2** (dual speed -1 & -2)	230	200~240	50/60	-1 60/80 -2 55/65	2700/3100 2300/2200	525/600 460/450	14.9/17 13/12.7	0.91/0.88 0.68/0.52	23.11/22.35 17.27/13.21	66 54	2 / 1 4 / 3

** = "WB" for wire lead type, Ball bearing. "TB" for push-in Terminal pin type, Ball bearing or Terminal block connecting with Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380~440~480V... 50/60Hz, & dual voltage version available on request.
- Dual speed High/Medium 1/2, High/Low 1/3, Medium/Low 2/3, Low/extra Low 3/4 or triple speed 1/2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +/-10%

Performance P-Q Curves



Motor

Motor Type: Capacitor induction, outer rotor, 1-phase
 Burnout Protection: Thermal protector
 IP Protection: IP56 or 44 for option

Mechanical

Frame: Aluminum die cast, natural color (AN)
 Impeller: 7 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 2,310 g

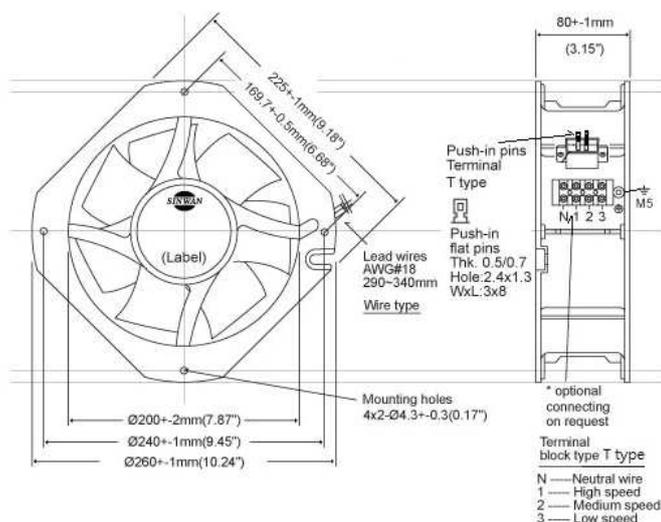
Electronical

Dielectric Strength: Over 1 min. at 1,500 VAC, 1mA, 50/60 Hz
 Insulation Resistance: Over 100 MΩ at DC 500V
 Signal Output: Optional: R/D alarm output, tachometer output

Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
 Storage Temp: -40°C~+100°C (at 65%RH)
 Life Expectancy: L10 50K hours at 55°C

Outline Dimensions



Fan Accessories





205x205x72mm / 8x2.8inch

Max. 590 CFM

Metal Impeller, IP56

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M205RAN11-1**	115	100~120	50/60	60/80	2800/3000	520/590	14.7/16.7	0.91/0.86	23.11/21.84	67	2 / 1
M205RAN11-2**	115	100~120	50/60	55/65	2300/2250	460/458	13/13	0.69/0.52	17.53/13.21	58	4 / 3
M205RAN11-3**	115	100~120	50/60	20/30	1500/1650	310/330	8.8/9.3	0.38/0.29	9.65/7.37	48	6 / 5
M205RAN11-4**	115	100~120	50/60	18/25	1200/1100	240/220	6.8/6.2	0.21/0.14	5.33/3.56	35	8 / 7
M205RAN22-1**	230	200~240	50/60	60/80	2800/3000	520/590	14.7/16.7	0.91/0.86	23.11/21.84	67	2 / 1
M205RAN22-2**	230	200~240	50/60	55/65	2300/2250	460/458	13/13	0.69/0.52	17.53/13.21	58	4 / 3
M205RAN22-3**	230	200~240	50/60	20/30	1500/1600	310/330	8.8/9.3	0.38/0.29	9.65/7.37	48	6 / 5
M205RAN22-4**	230	200~240	50/60	18/25	1200/1100	240/220	6.8/6.2	0.21/0.14	5.33/3.56	35	8 / 7
M205RAN8-1**	48	48~58	50/60	60/80	2800/3000	520/590	14.7/16.7	0.91/0.86	19.05/21.84	67	2 / 1
M205RAN44-1**(380)	380	380~420	50/60	60/80	2800/3000	520/590	14.7/16.7	0.91/0.86	23.11/21.84	67	2 / 1
M205RAN44-1**(440)	440	440~480	50/60	60/80	2800/3000	520/590	14.7/16.7	0.91/0.86	23.11/21.84	67	2 / 1
M205RAN11/22**	115	100~120	50/60	60/80	2800/3000	520/590	14.7/16.7	0.91/0.86	19.05/21.84	67	2 / 1
(dual voltage)	230	200~240									

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Capacitor induction, outer rotor, 1-phase
 Burnout Protection: Thermal protector
 IP Protection: IP56

Mechanical

Frame: Aluminum die cast, natural color(AN)
 Impeller: 7 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 2,350 g

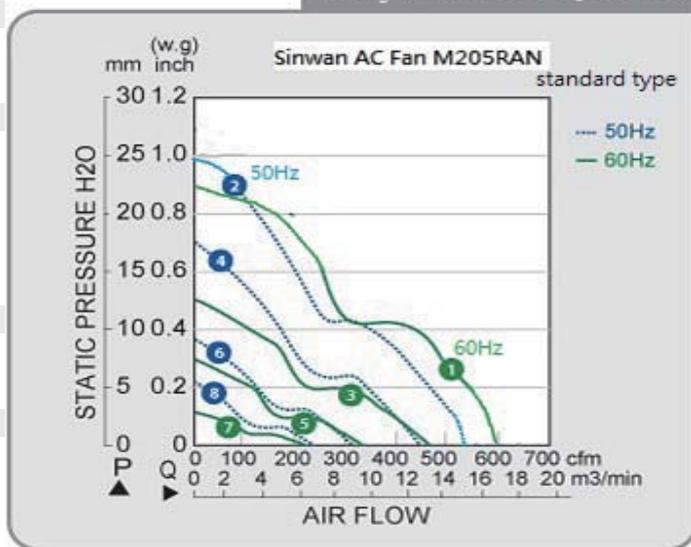
Electrical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
 Insulation Resistance: Over 100 MΩ at DC 500V
 Signal Output: Optional:R/D alarm output, tachometer output

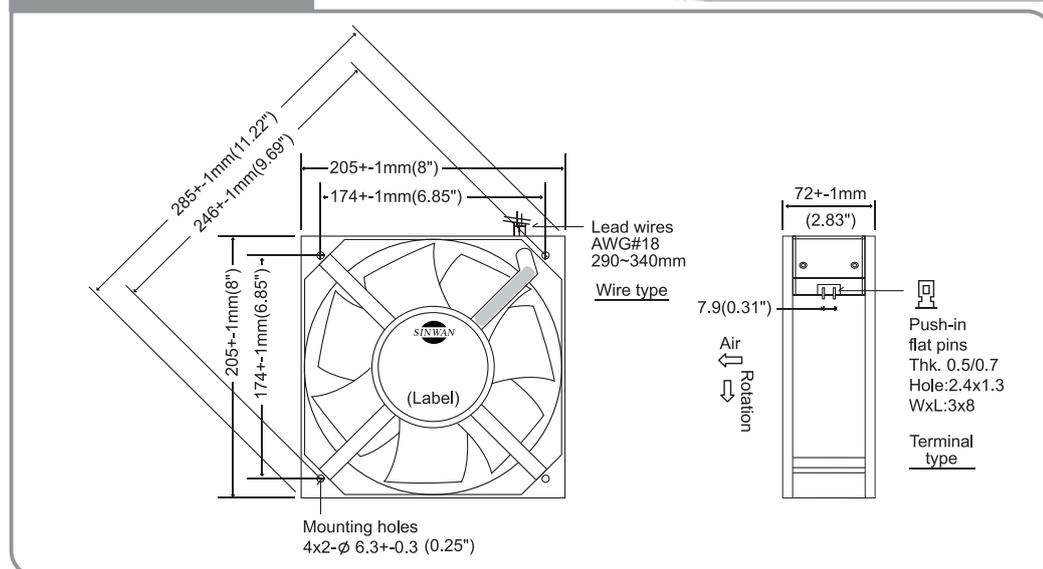
Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
 Storage Temp: -40°C~+100°C (at 65%RH)
 Life Expectancy: L10 50K hours at 55°C

Performance P-Q Curves



Outline Dimensions



Fan Accessories





200x220x70mm / 7.8x2.8inch

Max. 485 CFM

Metal Impeller, IP56

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M200RAN11-1**	115	100~120	50/60	95/105	2800/3300	430/485	12.2/13.7	0.82/0.93	20.83/23.62	68	2 / 1
M200RAN11-2**	115	100~120	50/60	80/95	2400/2600	365/395	10.3/11.2	0.68/0.75	17.27/19.05	54	4 / 3
M200RAN11-3**	115	100~120	50/60	32/40	1600/1500	245/230	6.9/6.5	0.46/0.42	11.68/10.67	43	6 / 5
M200RAN11-4**	115	100~120	50/60	24/33	1200/1100	190/160	5.4/4.5	0.35/0.30	8.89/7.62	35	8 / 7
M200RAN22-1**	230	200~240	50/60	95/105	2800/3300	430/485	12.2/13.7	0.82/0.93	20.83/23.62	68	2 / 1
M200RAN22-2**	230	200~240	50/60	80/95	2400/2600	365/395	10.3/11.2	0.68/0.75	17.27/19.05	54	4 / 3
M200RAN22-3**	230	200~240	50/60	32/40	1600/1500	245/230	6.9/6.5	0.46/0.42	11.68/10.67	43	6 / 5
M200RAN22-4**	230	200~240	50/60	24/33	1200/1100	190/160	5.4/4.5	0.35/0.30	8.89/7.62	35	8 / 7
M200RAN4-1**	24	24~28	50/60	95/105	2800/3300	430/485	12.2/13.7	0.82/0.93	20.83/23.62	68	2 / 1
M200RAN8-1**	48	48~58	50/60	95/105	2800/3300	430/485	12.2/13.7	0.82/0.93	20.83/23.62	68	2 / 1
M200RAN38-1**	380	380~420	50/60	95/105	2800/3300	430/485	12.2/13.7	0.82/0.93	20.83/23.62	68	2 / 1
M200RAN44-1**	440	440~480	50/60	95/105	2800/3300	430/485	12.2/13.7	0.82/0.93	20.83/23.62	68	2 / 1
M200RAN11/22-1** (dual voltage)	115 230	100~120 200~240	50/60	95/105	2800/3300	430/485	12.2/13.7	0.82/0.93	20.83/23.62	68	2 / 1

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Capacitor induction, outer rotor, 1-phase
 Burnout Protection: Thermal protector
 IP Protection: IP56

Mechanical

Frame: Aluminum die cast, natural color(AN)
 Impeller: 7 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 2,100 g

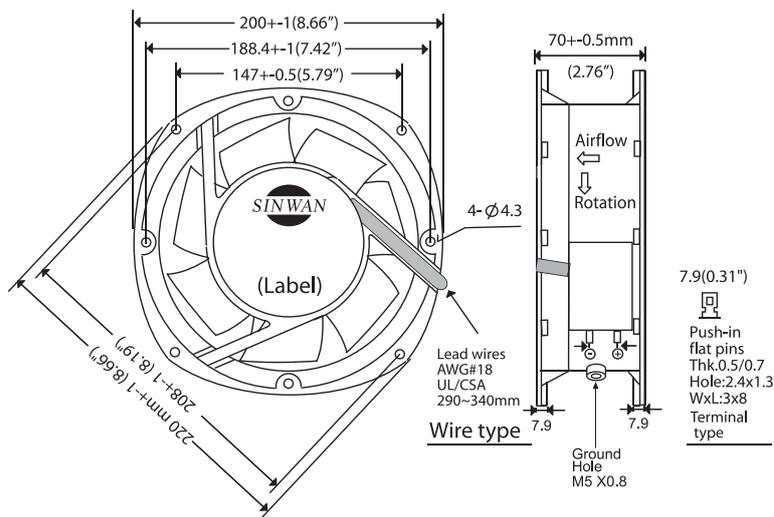
Electrical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
 Insulation Resistance: Over 100 MΩ at DC 500V
 Signal Output: Optional:R/D alarm output, tachometer output

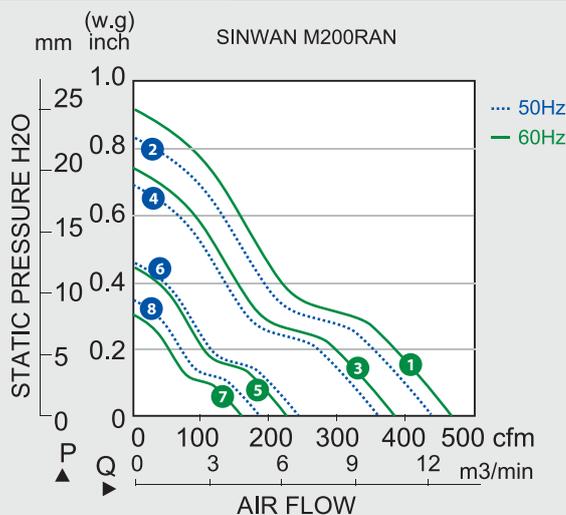
Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
 Storage Temp: -40°C~+100°C (at 65%RH)
 Life Expectancy: L10 50K hours at 55°C

Outline Dimensions



Performance P-Q Curves



Fan Accessories



7.9(0.31")
 Push-in flat pins
 Thk:0.5/0.7
 Hole:2.4x1.3
 WxL:3x8
 Terminal type



176x176x89mm / 7x3.5inch

Max. 380 CFM

Metal Impeller, IP56

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M180GAN11-1**	115	100~120	50/60	60/80	2750/3250	330/380	9.3/10.8	0.69/0.76	17.53/19.3	63	2 / 1
M180GAN11-2**	115	100~120	50/60	55/65	2300/2100	285/275	8.1/7.8	0.59/0.53	14.99/13.46	52	4 / 3
M180GAN11-3**	115	100~120	50/60	20/30	1450/1650	175/210	5/5.9	0.36/0.39	9.14/9.91	41	6 / 5
M180GAN11-4**	115	100~120	50/60	18/25	1100/1000	130/120	3.7/3.4	0.33/0.32	8.38/8.13	37	8 / 7
M180GAN22-1**	230	200~240	50/60	60/80	2750/3250	330/380	9.3/10.8	0.69/0.76	17.53/19.3	63	2 / 1
M180GAN22-2**	230	200~240	50/60	55/65	2300/2100	285/275	8.1/7.8	0.59/0.53	14.99/13.46	52	4 / 3
M180GAN22-3**	230	200~240	50/60	20/30	1450/1650	175/210	5/5.9	0.36/0.39	9.14/9.91	41	6 / 5
M180GAN22-4**	230	200~240	50/60	18/25	1100/1000	130/120	3.7/3.4	0.33/0.32	8.38/8.13	37	8 / 7
M180GAN44-1**(380)	380	380~420	50/60	60/80	2750/3250	330/380	9.3/10.8	0.69/0.76	17.53/19.3	63	2 / 1
M180GAN44-1**(440)	440	440~480	50/60	60/80	2750/3250	330/380	9.3/10.8	0.69/0.76	17.53/19.3	63	2 / 1
M180GAN11/22-1** (dual voltage)	230	200~240	50/60	60/80	2750/3250	330/380	9.3/10.8	0.69/0.76	17.53/19.3	63	2 / 1

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Capacitor induction, outer rotor, 1-phase
 Burnout Protection: Thermal protector
 IP Protection: IP56

Mechanical

Frame: Aluminum die cast, natural color(AN)
 Impeller: 7 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 1,850 g

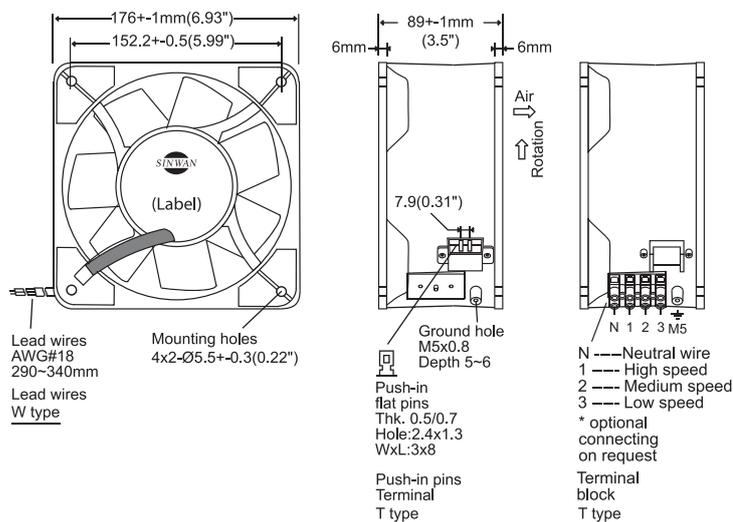
Electrical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
 Insulation Resistance: Over 100 MΩ at DC 500V
 Signal Output: Optional:R/D alarm output, tachometer output

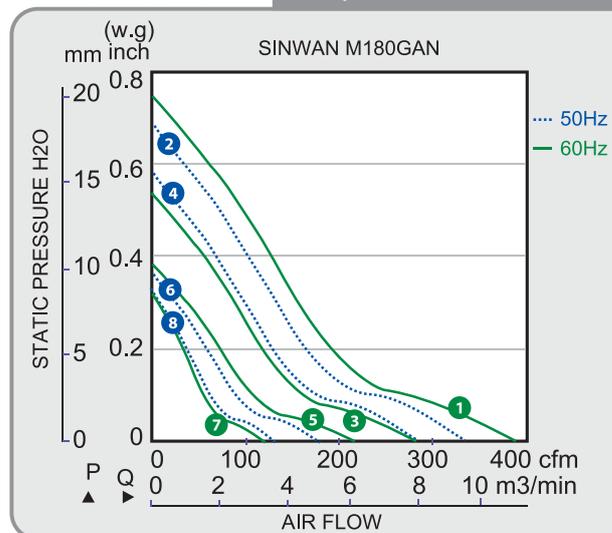
Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
 Storage Temp: -40°C~+100°C (at 65%RH)
 Life Expectancy: L10 50K hours at 55°C

Outline Dimensions



Performance P-Q Curves



Fan Accessories





180x180x65mm / 7x2.5inch

Max. 400 CFM

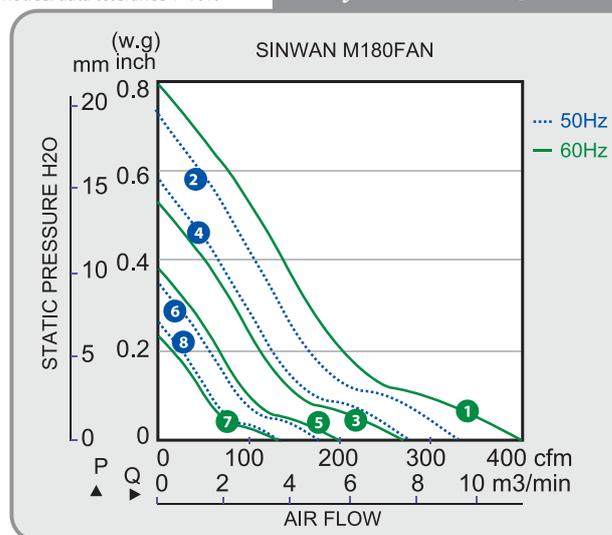
Metal Impeller, IP56

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M180FAN11-1**	115	100~120	50/60	60/80	2750/3250	330/400	9.3/11.3	0.75/0.8	19.05/20.32	65	2 / 1
M180FAN11-2**	115	100~120	50/60	55/65	2300/2200	275/265	7.8/7.5	0.58/0.52	14.73/13.21	53	4 / 3
M180FAN11-3**	115	100~120	50/60	20/30	1500/1600	185/200	5.2/5.7	0.35/0.38	8.89/9.65	42	6 / 5
M180FAN11-4**	115	100~120	50/60	18/25	1100/1000	130/125	3.7/3.5	0.25/0.23	6.35/5.84	35	8 / 7
M180FAN22-1**	230	200~240	50/60	60/80	2750/3250	330/400	9.3/11.3	0.75/0.8	19.05/20.32	65	2 / 1
M180FAN22-2**	230	200~240	50/60	55/65	2300/2200	275/265	7.8/7.5	0.58/0.52	14.73/13.21	53	4 / 3
M180FAN22-3**	230	200~240	50/60	20/30	1500/1600	185/200	5.2/5.7	0.35/0.38	8.89/9.65	42	6 / 5
M180FAN22-4**	230	200~240	50/60	18/25	1100/1000	130/125	3.7/3.5	0.25/0.23	6.35/5.84	35	8 / 7
M180FAN44-1** (380)	380	380~420	50/60	60/80	2800/3250	330/400	9.3/11.3	0.75/0.8	15.24/20.32	64	2 / 1
M180FAN44-1** (440)	440	440~480	50/60	60/80	2800/3250	330/400	9.3/11.3	0.75/0.8	15.24/20.32	62	2 / 1
M180FAN11/22**	115	100~120	50/60	60/80	2750/3250	330/400	9.3/11.3	0.75/0.8	15.24/20.32	65	2 / 1
(dual voltage)	230	200~240									

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

► Performance P-Q Curves



Motor

Motor Type: Capacitor induction, outer rotor, 1-phase
 Burnout Protection: Thermal protector
 IP Protection: IP56

Mechanical

Frame: Aluminum die cast, natural color(AN)
 Impeller: 7 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 1,800 g

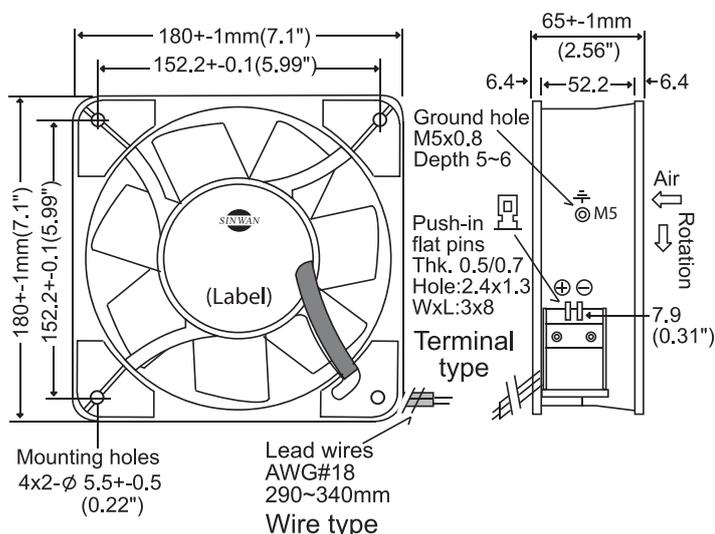
Electrical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
 Insulation Resistance: Over 100 MΩ at DC 500V
 Signal Output: Optional:R/D alarm output, tachometer output

Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
 Storage Temp: -40°C~+100°C (at 65%RH)
 Life Expectancy: L10 50K hours at 55°C

► Outline Dimensions



Fan Accessories



• AC • M172SAP (C7) series



172x150x51mm / 6.8X5.9x2inch

Max. 310 CFM

Metal Impeller, High Performance, IP55

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M172SAP11-1** (C7)	115	100~120	50/60	47/42	2850/3300	285/310	7.9/8.8	0.69/0.74	17.53/18.8	61	2 / 1
M172SAP11-2** (C7)	115	100~120	50/60	35/32	2400/2800	230/270	6.5/7.6	0.63/0.68	16/17.27	53	4 / 3
M172SAP22-1** (C7)	230	200~240	50/60	47/42	2850/3300	280/310	7.9/8.8	0.69/0.74	17.53/18.8	61	2 / 1
M172SAP22-2** (C7)	230	200~240	50/60	35/32	2400/2800	230/270	6.5/7.6	0.63/0.68	16/17.27	53	4 / 3
M172SAP11/22-1** (C7)	115	100~120	50/60	47/42	2850/3300	280/310	7.9/8.8	0.69/0.74	17.53/18.8	61	2 / 1
(dual voltage)	230	200~240									
M172SAP11/22-2** (C7)	115	100~120	50/60	35/32	2400/2800	230/270	6.5/7.6	0.63/0.68	16/17.27	53	4 / 3
(dual voltage)	230	200~240									
M172SAP38-1** (C7)	380	380~420	50/60	47/42	2850/3300	280/310	7.9/8.8	0.69/0.74	17.53/18.8	61	2 / 1
M172SAP44-1** (C7)	440	440~480	50/60	47/42	2850/3300	280/310	7.9/8.8	0.69/0.74	17.53/18.8	61	2 / 1

-Optional Function Leads:

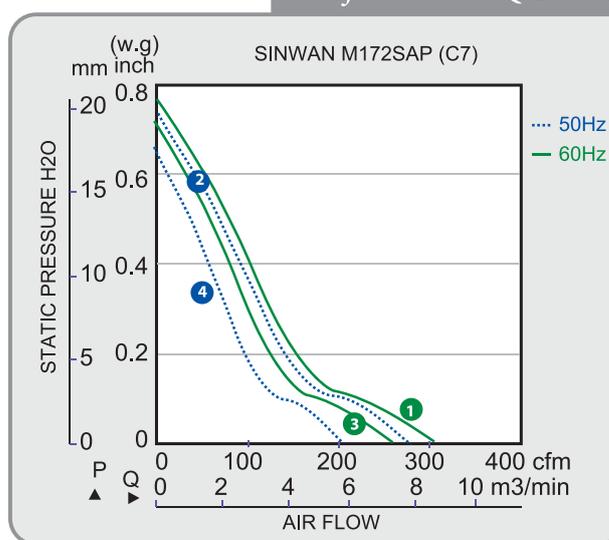
*Tachometer, speed sensor pulses 5V, input 4.5~27 VDC,

1 signal each revolution, or 2 signals each revolution available on request. Function-F/G

*Alarm output signals for abnormal or normal available on request. Function-R/D

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380~440~480... 50/60Hz, & dual voltage version available on request.
- Dual speed High/Medium 1/2, High/Low 1/3, Medium/Low 2/3, Low/extra Low 3/4 or triple speed 1/2/3 available on request.
- Sinwan reserves the right to change data and improve electrical or mechanical design without notice, data tolerance +10%

► Performance P-Q Curves



Motor

Motor Type: External rotor, shaded pole, single phase

Burnout Protection: Thermal protector
IP Protection: IP55

Frame: Aluminum die-cast, black color treatment
Impeller: 7 blades, all metal
Bearing: Two ball bearings
Rotation: CCW seen on rotor
Connection: Wire leads or push-in terminal pin connecting
Weight: 900 g

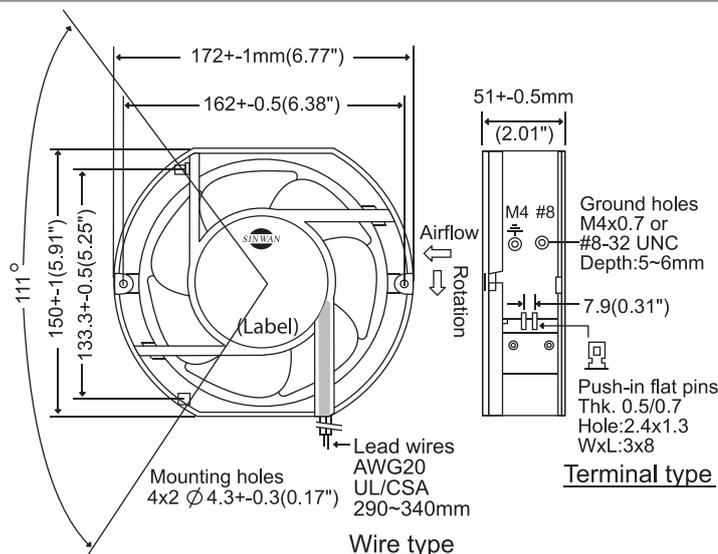
Electrical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
Insulation Resistance: Over 100 MΩ at DC 500V
Signal Output: Optional:R/D alarm output, tachometer output

Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
Storage Temp: -40°C~+100°C (at 65%RH)
Life Expectancy: L10 50K hours at 55°C

► Outline Dimensions



Fan Accessories

- Metal Fan Guards G172-10H P.39
- Plastic Fan Guards G172P P.40
- Plastic Fan Filter GRM172-30 P.41
- Metal Fan Screens MF172S-30N P.42





172x150x51mm / 6x2inch

Max. 250 CFM

Metal Impeller, Capacitor Induction, IP54

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M172SAP-11-1**	115	100~120	50/60	26/35	2750/3150	210/250	5.9/7.1	0.55/0.58	13.97/14.73	58	2 / 1
M172SAP-11-2**	115	100~120	50/60	22/20	2300/2400	175/190	5/5.4	0.45/0.43	11.43/10.92	43	4 / 3
M172SAP-11-3**	115	100~120	50/60	18/16	1500/1600	115/128	3.3/3.6	0.32/0.29	8.13/7.37	32	6 / 5
M172SAP-22-1**	230	200~240	50/60	26/35	2750/3150	210/250	5.9/7.1	0.55/0.58	13.97/14.73	58	2 / 1
M172SAP-22-2**	230	200~240	50/60	22/20	2300/2400	175/190	5/5.4	0.45/0.43	11.43/10.92	43	4 / 3
M172SAP-22-3**	230	200~240	50/60	18/16	1500/1600	115/128	3.3/3.6	0.32/0.29	8.13/7.37	32	6 / 5
M172SAP-11/22-1** (dual voltage)	115 230	100~120 200~240	50/60	26/35	2750/3150	210/250	5.9/7.1	0.55/0.58	13.97/14.73	58	2 / 1

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Capacitor induction, outer rotor, 1-phase
 Burnout Protection: Thermal protector
 IP Protection: IP54

Mechanical

Frame: Aluminum die cast, black color(AP)
 Impeller: 6 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 930 g

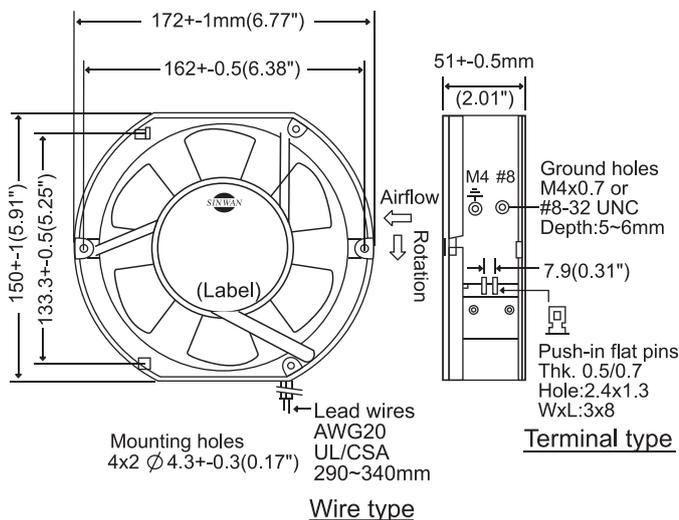
Electrical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
 Insulation Resistance: Over 100 MΩ at DC 500V

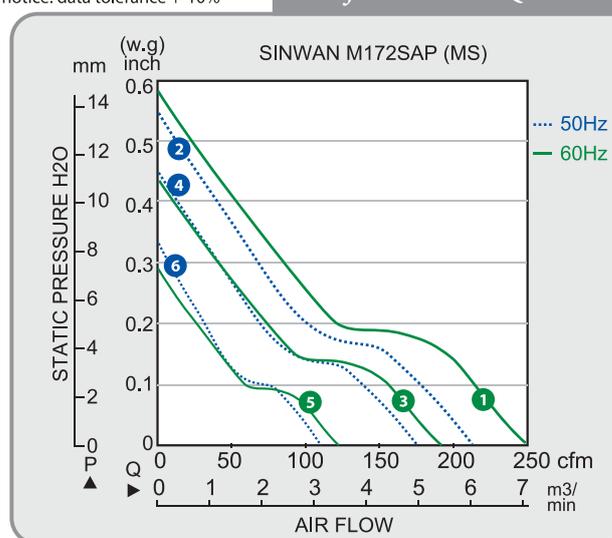
Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
 Storage Temp: -40°C~+100°C (at 65%RH)
 Life Expectancy: L10 50K hours at 55°C

▶ Outline Dimensions



▶ Performance P-Q Curves



Fan Accessories

- Metal Fan Guards G172-10H P.39
- Plastic Fan Guards G172P P.40
- Plastic Fan Filter GRM172-30 P.41
- Metal Fan Screens MF172S-30N P.42



172x150x51mm / 6x2inch

Max. 210 CFM

Metal Impeller, IP55

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M172SAP11-1**	115	100~120	50/60	47/42	2750/3100	185/210	5.2/5.9	0.55/0.49	13.97/12.45	58	2 / 1
M172SAP11-2**	115	100~120	50/60	35/32	2300/2400	150/160	4.2/4.5	0.45/0.38	11.43/9.65	48	4 / 3
M172SAP11-3**	115	100~120	50/60	23/20	1500/1600	95/105	2.7/3	0.32/0.26	8.13/6.6	35	6 / 5
M172SAP22-1**	230	200~240	50/60	47/42	2750/3100	185/210	5.2/5.9	0.55/0.49	13.97/12.45	58	2 / 1
M172SAP22-2**	230	200~240	50/60	35/32	2300/2400	150/160	4.2/4.5	0.45/0.38	11.43/9.65	48	4 / 3
M172SAP22-3**	230	200~240	50/60	23/20	1500/1600	95/105	2.7/3	0.32/0.26	8.13/6.6	35	6 / 5
M172SAP2-1**	12	12~14	50/60	47/42	2750/3100	185/210	5.2/5.9	0.55/0.49	13.97/12.45	58	2 / 1
M172SAP4-1**	24	24~28	50/60	47/42	2750/3100	185/210	5.2/5.9	0.55/0.49	13.97/12.45	58	2 / 1
M172SAP6-1**	28	28~34	50/60	47/42	2750/3100	185/210	5.2/5.9	0.55/0.49	13.97/12.45	58	2 / 1
M172SAP8-1**	48	48~58	50/60	47/42	2750/3100	185/210	5.2/5.9	0.55/0.49	13.97/12.45	58	2 / 1
M172SAP38-1**	380	380~420	50/60	47/42	2750/3100	185/210	5.2/5.9	0.55/0.49	13.97/12.45	58	2 / 1
M172SAP44-1**	440	440~480	50/60	47/42	2750/3100	185/210	5.2/5.9	0.55/0.49	13.97/12.45	58	2 / 1
M172SAP11/22-1** (dual voltage)	115 230	100~120 200~240	50/60	47/42	2750/3100	185/210	5.2/5.9	0.55/0.49	13.97/12.45	58	2 / 1

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Shaded pole induction, outer rotor, 1-phase
 Burnout Protection: Thermal protector
 IP Protection: IP55

Mechanical

Frame: Aluminum die cast, black color(AP)
 Impeller: 7 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 1,200 g

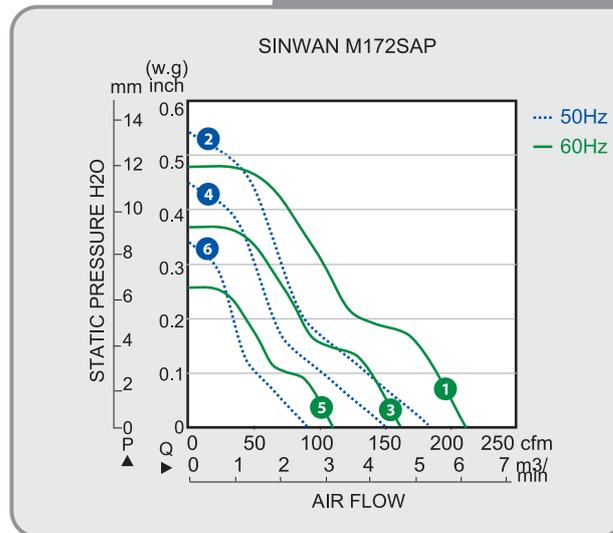
Electrical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
 Insulation Resistance: Over 100 MΩ at DC 500V
 Signal Output: Optional:R/D alarm output, tachometer output

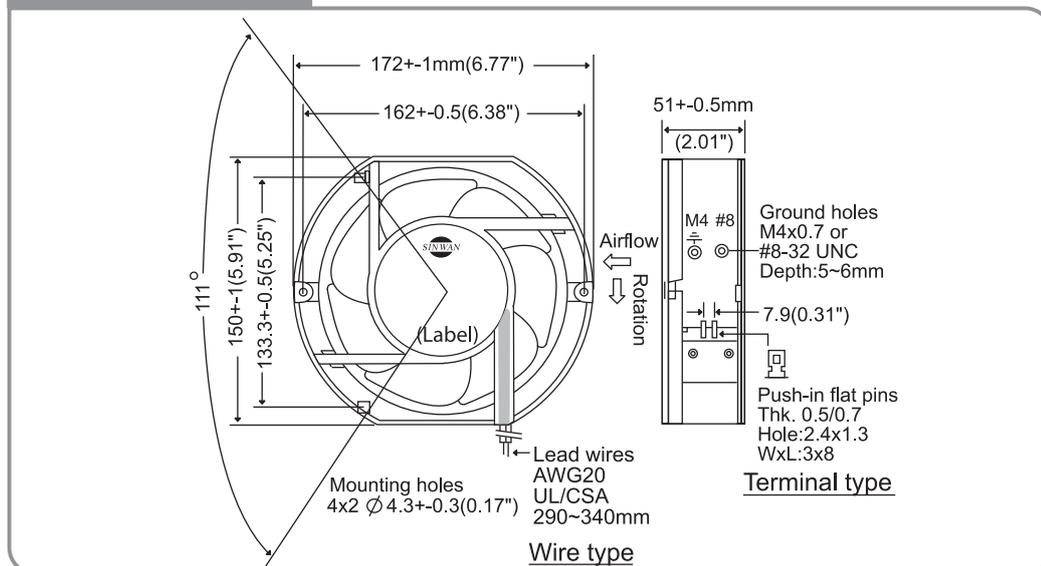
Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
 Storage Temp: -40°C~+100°C (at 65%RH)
 Life Expectancy: L10 50K hours at 55°C

► Performance P-Q Curves



► Outline Dimensions



Fan Accessories

- Metal Fan Guards G172-10H P.39
- Plastic Fan Guards G172P P.40
- Plastic Fan Filter GRM172-30 P.41
- Metal Fan Screens MF172S-30N P.42



Dia.172x51mm / 6.8x2inch

Max. 310 CFM

Metal Impeller, High Performance, IP55

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M172RAP11-1** (C7)	115	100~120	50/60	47/42	2800/3250	275/310	7.8/8.8	0.69/0.74	17.53/18.85	61	2 / 1
M172RAP11-2** (C7)	115	100~120	50/60	35/32	2400/2800	230/270	6.5/7.6	0.66/0.71	16.76/18.03	54	4 / 3
M172RAP22-1** (C7)	230	200~240	50/60	47/42	2800/3250	275/310	7.8/8.8	0.69/0.74	17.53/18.8	61	2 / 1
M172RAP22-2** (C7)	230	200~240	50/60	35/32	2400/2800	230/270	6.5/7.6	0.66/0.71	16.76/18.03	54	4 / 3
M172RAP11/22-1** (C7)	115	100~120	50/60	47/42	2800/3250	275/310	7.8/8.8	0.69/0.74	17.53/18.8	61	2 / 1
(dual voltage)	230	200~240	50/60								
M172RAP11/22-2** (C7)	115	100~120	50/60	35/32	2400/2800	230/270	6.5/7.6	0.66/0.71	16.76/18.03	54	4 / 1
(dual voltage)	230	200~240	50/60								
M172RAP38-1**	380	380~420	50/60	47/42	2800/3250	275/310	7.8/8.8	0.69/0.74	17.53/18.8	61	2 / 1
M172RAP44-1**	440	440~480	50/60	47/42	2800/3250	275/310	7.8/8.8	0.69/0.74	17.53/18.8	61	2 / 1

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380~440~480... 50/60Hz, & dual voltage version available on request.
- Dual speed High/Medium 1/2, High/Low 1/3, Medium/Low 2/3, Low/extra Low 3/4 or triple speed 1/2/3 available on request.
- Sinwan reserves the right to change data and improve electrical or mechanical design without notice, data tolerance +-10%

Motor

Motor Type: Shaded pole induction, outer rotor, 1-phase
 Burnout Protection: Thermal protector
 IP Protection: IP55

Mechanical

Frame: Aluminum die cast, black color(AP)
 Impeller: 7 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 1080 g

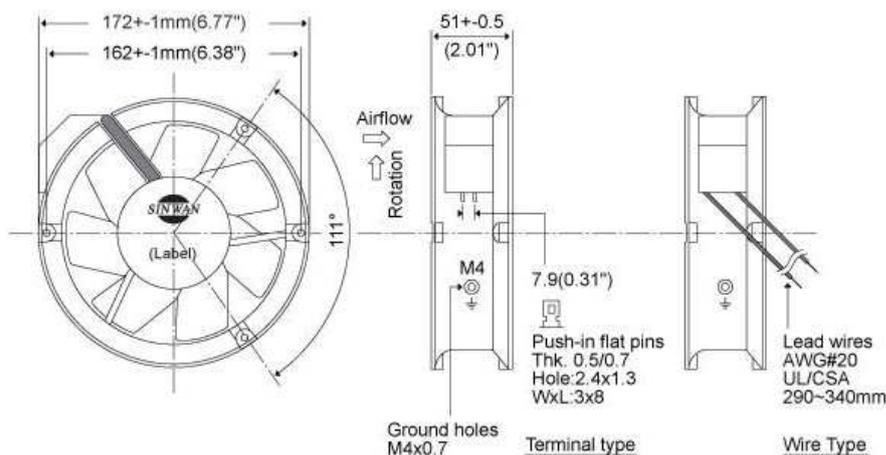
Electrical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
 Insulation Resistance: Over 100 MΩ at DC 500V
 Signal Output: Optional:R/D alarm output, tachometer output

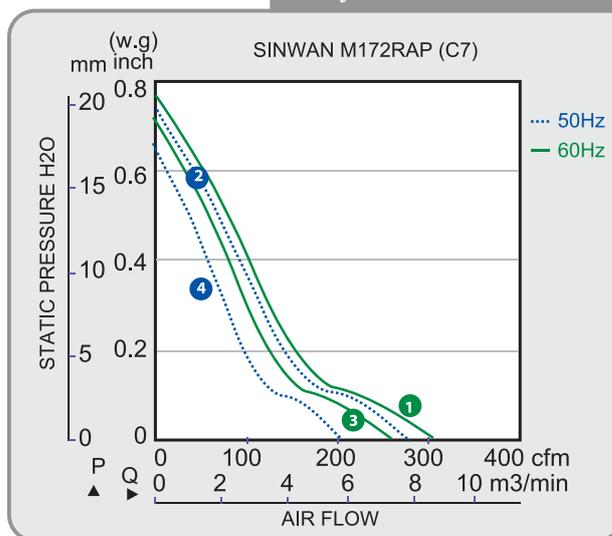
Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
 Storage Temp: -40°C~+100°C (at 65%RH)
 Life Expectancy: L10 50K hours at 55°C

Outline Dimensions



Performance P-Q Curves



Fan Accessories

- Metal Fan Guards G172-10HA P.39
- Plastic Fan Guards G172P P.40
- Plastic Fan Filter GRM172-30 P.41
- Metal Fan Screens MF172S-30N P.42



172x51mm / 6.8x2inch

Max. 260 CFM

Metal Impeller, Capacitor Induction, IP54

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M172RAP-11-1** (MS)	115	100~120	50/60	26/35	2800/3200	220/260	6.2/7.4	0.55/0.58	13.97/14.73	58	2 / 1
M172RAP-11-2** (MS)	115	100~120	50/60	22/20	2350/2450	180/195	5.1/5.5	0.45/0.43	11.43/10.92	43	4 / 3
M172RAP-11-3** (MS)	115	100~120	50/60	18/16	1550/1650	120/130	3.4/3.7	0.32/0.29	8.13/7.37	32	6 / 5
M172RAP-22-1** (MS)	230	200~240	50/60	26/35	2800/3200	220/260	6.2/7.4	0.55/0.58	13.97/14.73	58	2 / 1
M172RAP-22-2** (MS)	230	200~240	50/60	22/20	2350/2450	180/195	5.1/5.5	0.45/0.43	11.43/10.92	43	4 / 3
M172RAP-22-3** (MS)	230	200~240	50/60	18/16	1500/1650	120/130	3.4/3.7	0.32/0.29	8.13/7.37	32	6 / 5
M172RAP-11/22-1** (MS) (dual voltage)	115 230	100~120 200~240	50/60	26/35	2800/3200	220/260	6.2/7.4	0.55/0.58	13.97/14.73	58	2 / 1

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Capacitor induction, outer rotor, 1-phase
 Burnout Protection: Thermal protector
 IP Protection: IP54

Mechanical

Frame: Aluminum die cast, black color(AP)
 Impeller: 6 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 920 g

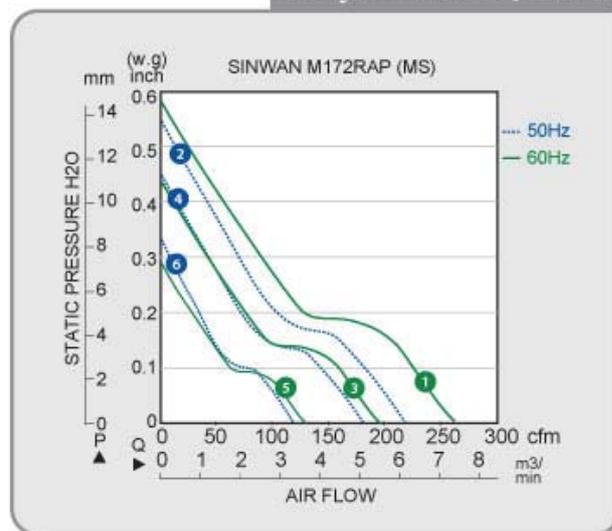
Electrical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
 Insulation Resistance: Over 100 MΩ at DC 500V

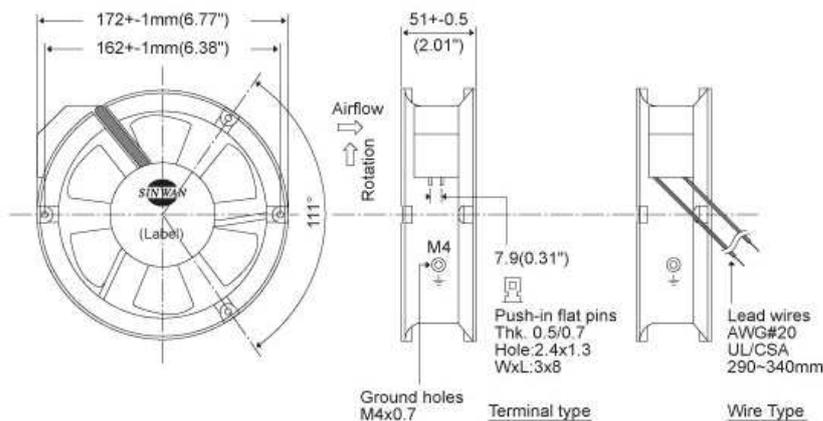
Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
 Storage Temp: -40°C~+100°C (at 65%RH)
 Life Expectancy: L10 50K hours at 55°C

► Performance P-Q Curves



► Outline Dimensions



Fan Accessories

- Metal Fan Guards G172-10H P.39
- Plastic Fan Guards G172P P.40
- Plastic Fan Filter GRM172-30 P.41
- Metal Fan Screens MF172S-30N P.42



Dia.172x51mm / 6.8x2inch

Max. 215 CFM

Metal Impeller, IP55

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M172RAP11-1**	115	100~120	50/60	47/42	2750/3200	190/215	5.4/6.1	0.57/0.51	14.48/12.95	59	2 / 1
M172RAP11-2**	115	100~120	50/60	35/32	2350/2300	162/155	4.6/4.4	0.46/0.37	11.68/9.4	48	4 / 3
M172RAP11-3**	115	100~120	50/60	23/20	1500/1600	105/110	3/3.1	0.33/0.27	8.38/6.86	36	6 / 5
M172RAP22-1**	230	200~240	50/60	47/42	2750/3200	190/215	5.4/6.1	0.57/0.51	14.48/12.95	59	2 / 1
M172RAP22-2**	230	200~240	50/60	35/32	2350/2300	162/155	4.6/4.4	0.46/0.37	11.68/9.4	48	4 / 3
M172RAP22-3**	230	200~240	50/60	23/20	1500/1600	105/110	3/3.1	0.33/0.27	8.38/6.86	36	6 / 5
M172RAP2-1**	12	12~14	50/60	47/42	2700/3200	190/215	5.4/6.1	0.57/0.51	14.48/12.95	59	2 / 1
M172RAP4-1**	24	24~28	50/60	47/42	2700/3200	190/215	5.4/6.1	0.57/0.51	14.48/12.95	59	2 / 1
M172RAP6-1**	28	28~34	50/60	47/42	2700/3200	190/215	5.4/6.1	0.57/0.51	14.48/12.95	59	2 / 1
M172RAP8-1**	48	40~58	50/60	47/42	2700/3200	190/215	5.4/6.1	0.57/0.51	14.48/12.95	59	2 / 1
M172RAP38-1**	380	380~420	50/60	47/42	2700/3200	190/215	5.4/6.1	0.57/0.51	14.48/12.95	59	2 / 1
M172RAP44-1**	440	440~480	50/60	47/42	2700/3200	190/215	5.4/6.1	0.57/0.51	14.48/12.95	59	2 / 1
M172RAP11/22-1** (dual voltage)	115 230	100~120 200~240	50/60	47/42	2750/3200	195/215	5.5/6.1	0.57/0.51	14.48/12.95	59	2 / 1

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Shaded pole induction, outer rotor, 1-phase
 Burnout Protection: Thermal protector
 IP Protection: IP55

Mechanical

Frame: Aluminum die cast, black color(AP)
 Impeller: 7 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 1350 g

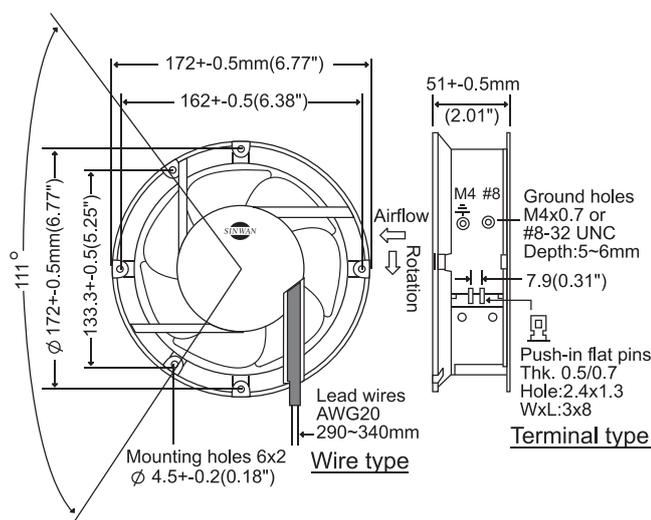
Electronical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
 Insulation Resistance: Over 100 MΩ at DC 500V
 Signal Output: Optional:R/D alarm output, tachometer output

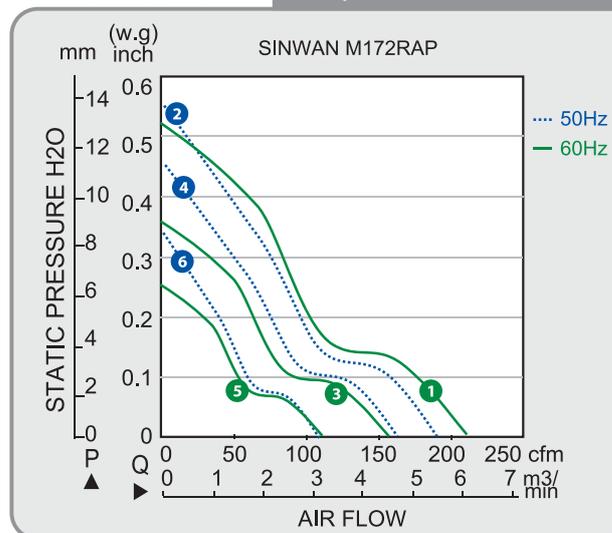
Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
 Storage Temp: -40°C~+100°C (at 65%RH)
 Life Expectancy: L10 50K hours at 55°C

Outline Dimensions



Performance P-Q Curves



Fan Accessories



• AC • M172EAP (C7) series



150x172x55mm / 5.9x6.8x2.2inch

Max. 310 CFM

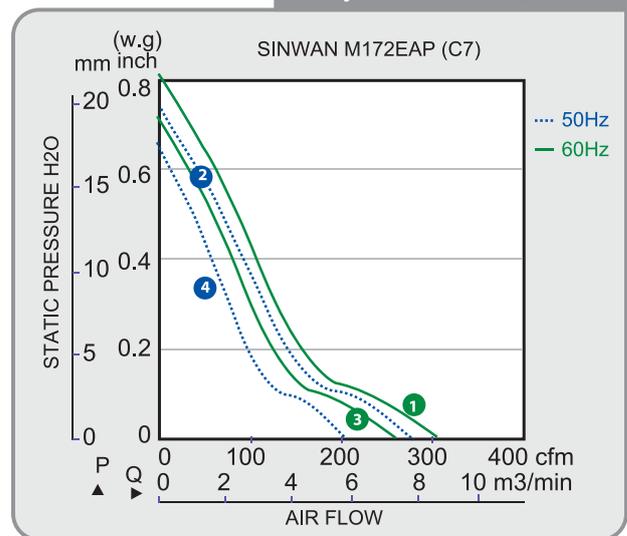
Metal Impeller, High Performance, IP55

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M172EAP11-1** (C7)	115	100~120	50/60	47/42	2830/3300	280/310	7.9/8.8	0.71/0.82	18.03/20.83	52	2 / 1
M172EAP11-2** (C7)	115	100~120	50/60	35/32	2400/2800	230/270	6.5/7.6	0.67/0.79	17.02/20.07	47	4 / 3
M172EAP22-1** (C7)	230	200~240	50/60	47/42	2830/3300	280/310	7.9/8.8	0.71/0.82	18.03/20.83	52	2 / 1
M172EAP22-2** (C7)	230	200~240	50/60	35/32	2400/2800	230/270	6.5/7.6	0.67/0.79	17.02/20.07	47	4 / 3
M172EAP11/22-1** (C7)	115	100~120	50/60	47/42	2800/3200	280/310	7.9/8.8	0.68/0.81	17.27/20.57	52	2 / 1
(dual voltage)	230	200~240									
M172EAP11/22-2** (C7)	115	100~120	50/60	35/32	2400/2800	230/270	6.5/7.6	0.67/0.79	17.02/20.07	47	4 / 3
(dual voltage)	230	200~240									

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380~440~480... 50/60Hz, & dual voltage version available on request.
- Dual speed High/Medium 1/2, High/Low 1/3, Medium/Low 2/3, Low/extra Low 3/4 or triple speed 1/2/3 available on request.
- Sinwan reserves the right to change data and improve electrical or mechanical design without notice, data tolerance +-10%

Performance P-Q Curves



Motor

Motor Type: Capacitor induction, outer rotor, 1 phase

Burnout Protection: Thermal protector
IP Protection: IP55

Mechanical

Frame: Aluminum die cast, natural color cosmetics
Impeller: 7 blades, all metal steel welded
Bearing: Maintenance-free 2 ball bearings
Rotation: CCW looking at rotor
Connection: Wire leads, terminal push-in flat pins
Weight: 1000 g

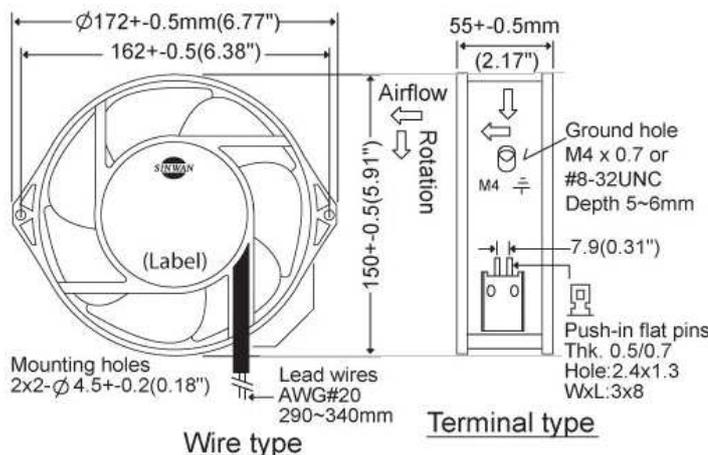
Electrical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
Insulation Resistance: Over 100 MΩ at DC 500V
Signal Output: Optional: R/D alarm output, tachometer output

Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
Storage Temp: -40°C~+100°C (at 65%RH)
Life Expectancy: L10 45K hours at 55C, 90K hours at 35C

Outline Dimensions



Fan Accessories





150x172x55mm / 6x2.2inch

Max. 250 CFM

Metal Impeller, Capacitor Induction, IP54

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M172EAP-11-1**	115	100~120	50/60	26/35	2750/3150	210/250	5.9/7.1	0.55/0.58	13.97/14.73	58	2 / 1
M172EAP-11-2**	115	100~120	50/60	22/20	2300/2400	175/190	5/5.4	0.45/0.43	11.43/10.92	43	4 / 3
M172EAP-11-3**	115	100~120	50/60	18/16	1500/1600	115/128	3.3/3.6	0.32/0.29	8.13/7.37	32	6 / 5
M172EAP-22-1**	230	200~240	50/60	26/35	2750/3150	210/250	5.9/7.1	0.55/0.58	13.97/14.73	58	2 / 1
M172EAP-22-2**	230	200~240	50/60	22/20	2300/2400	175/190	5/5.4	0.45/0.43	11.43/10.92	43	4 / 3
M172EAP-22-3**	230	200~240	50/60	18/16	1500/1600	115/128	3.3/3.6	0.32/0.29	8.13/7.37	32	6 / 5
M172EAP-11/22-1** (dual voltage)	115 230	100~120 200~240	50/60	26/35	2750/3150	210/250	5.9/7.1	0.55/0.58	13.97/14.73	58	2 / 1

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Capacitor induction, outer rotor, 1-phase
 Burnout Protection: Thermal protector
 IP Protection: IP54

Mechanical

Frame: Aluminum die cast, black color(AP)
 Impeller: 6 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 1,200 g

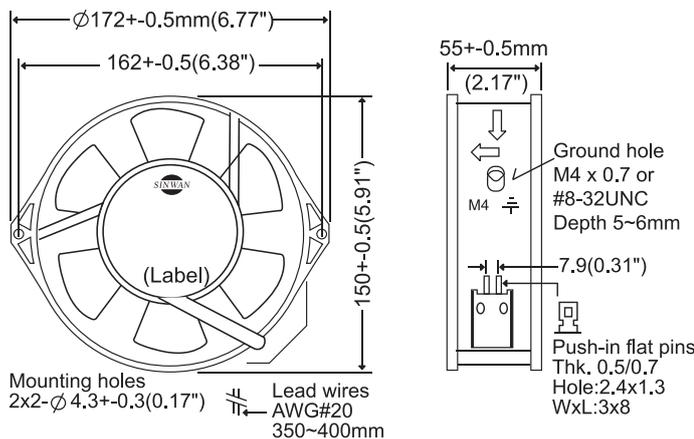
Electrical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
 Insulation Resistance: Over 100 MΩ at DC 500V
 Signal Output: Optional:R/D alarm output, tachometer output

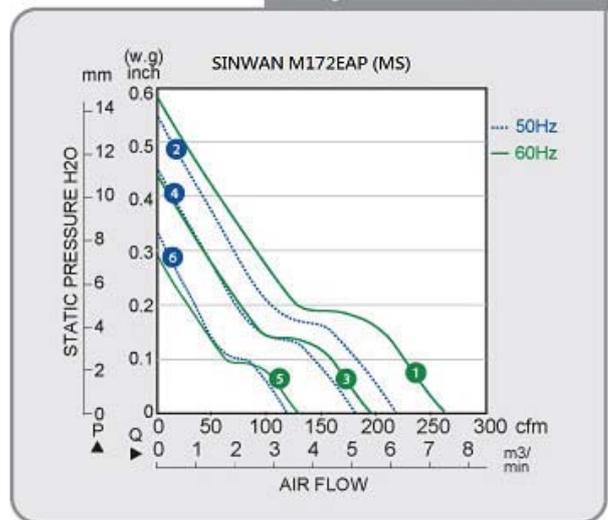
Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
 Storage Temp: -40°C~+100°C (at 65%RH)
 Life Expectancy: L10 50K hours at 55°C

Outline Dimensions



Performance P-Q Curves



Fan Accessories

- Metal Fan Guards G172-10H P.39
- Plastic Fan Guards G172P P.40
- Plastic Fan Filter GRM172-30 P.41
- Metal Fan Screens MF172S-30N P.42



150x172x55mm / 6x2.2inch

Max. 210 CFM

Metal Impeller, IP55

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M172EAP11-1**	115	100~120	50/60	47/42	2750/3200	183/210	5.2/5.9	0.49/0.42	12.45/10.67	54	2 / 1
M172EAP11-2**	115	100~120	50/60	35/32	2400/2500	160/165	4.5/4.7	0.42/0.35	10.67/8.89	46	4 / 3
M172EAP11-3**	115	100~120	50/60	23/20	1500/1650	100/110	2.8/3.1	0.28/0.22	7.11/5.59	35	6 / 5
M172EAP22-1**	230	200~240	50/60	47/42	2750/3200	183/210	5.2/5.9	0.49/0.42	12.45/10.67	54	2 / 1
M172EAP22-2**	230	200~240	50/60	35/32	2400/2500	160/165	4.5/4.7	0.42/0.35	10.67/8.89	46	4 / 3
M172EAP22-3**	230	200~240	50/60	23/20	1500/1600	100/110	2.8/3.1	0.28/0.22	7.11/5.59	35	6 / 5
M172EAP2-1**	12	12~14	50/60	47/42	2750/3200	183/210	5.2/5.9	0.49/0.42	12.45/10.67	54	2 / 1
M172EAP4-1**	24	24~28	50/60	47/42	2750/3200	183/210	5.2/5.9	0.49/0.42	12.45/10.67	54	2 / 1
M172EAP6-1**	28	28~34	50/60	47/42	2750/3200	183/210	5.2/5.9	0.49/0.42	12.45/10.67	54	2 / 1
M172EAP8-1**	48	48~58	50/60	47/42	2750/3200	183/210	5.2/5.9	0.49/0.42	12.45/10.67	54	2 / 1
M172EAP38-1**	380	380~420	50/60	47/42	2750/3200	183/210	5.2/5.9	0.49/0.42	12.45/10.67	54	2 / 1
M172EAP44-1**	440	440~480	50/60	47/42	2750/3200	183/210	5.2/5.9	0.49/0.42	12.45/10.67	54	2 / 1
M172EAP11/22-1** (dual voltage)	115 230	100~120 200~240	50/60	47/42	2750/3200	183/210	5.2/5.9	0.49/0.42	12.45/10.67	54	2 / 1

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Shaded pole induction, outer rotor, 1-phase
 Burnout Protection: Thermal protector
 IP Protection: IP55

Mechanical

Frame: Aluminum die cast, black color(AP)
 Impeller: 7 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead
 Weight: 1,100 g

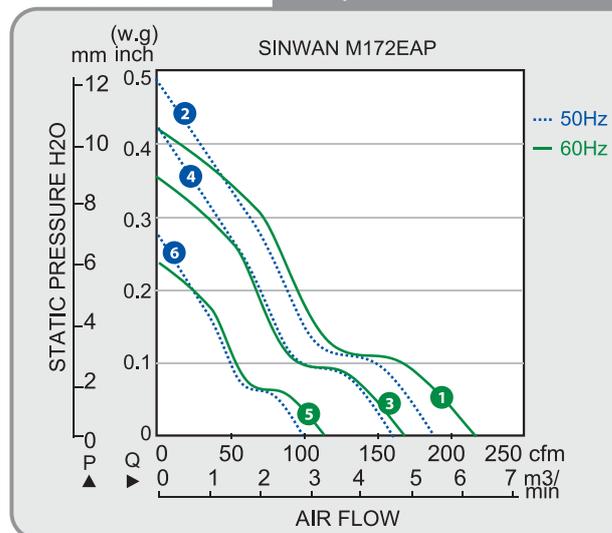
Electrical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
 Insulation Resistance: Over 100 MΩ at DC 500V
 Signal Output: Optional:R/D alarm output, tachometer output

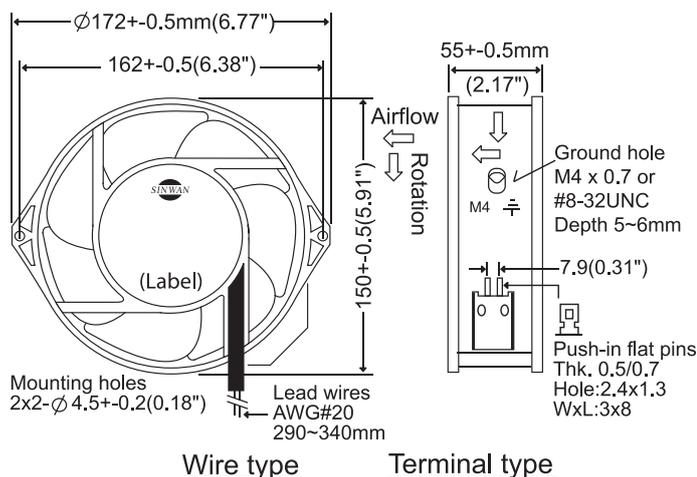
Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
 Storage Temp: -40°C~+100°C (at 65%RH)
 Life Expectancy: L10 50K hours at 55°C

► Performance P-Q Curves



► Outline Dimensions



Fan Accessories

- Metal Fan Guards G172-10H P.39
- Plastic Fan Guards G172P P.40
- Plastic Fan Filter GRM172-30 P.41
- Metal Fan Screens MF172S-30N P.42





172x150x38.5mm / 6x1.5inch

Max. 225 CFM

Metal Impeller, IP55

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M150AP11-1**	115	100~120	50/60	40/32	2550/3100	185/225	4.7/5	0.48/0.55	12.19/13.97	49	2 / 1
M150AP11-2**	115	100~120	50/60	32/28	2050/2000	143/140	4/4	0.41/0.45	10.41/11.43	43	4 / 3
M150AP11-3**	115	100~120	50/60	24/22	1500/1400	120/110	3.4/3.1	0.29/0.31	7.37/7.87	32	6 / 5
M150AP22-1**	230	200~240	50/60	40/32	2300/2400	165/178	4.7/5	0.48/0.55	12.19/13.97	49	2 / 1
M150AP22-2**	230	200~240	50/60	32/28	2050/2000	143/140	4/4	0.41/0.45	10.41/11.43	43	4 / 3
M150AP22-3**	230	200~240	50/60	24/22	1500/1400	120/110	3.4/3.1	0.29/0.31	7.37/7.87	32	6 / 5
M150AP2-1**	12	12~14	50/60	40/32	2300/2400	165/178	4.7/5	0.48/0.55	12.19/13.97	49	2 / 1
M150AP4-1**	24	24~28	50/60	40/32	2300/2400	165/178	4.7/5	0.48/0.55	12.19/13.97	49	2 / 1
M150AP6-1**	28	28~34	50/60	40/32	2300/2400	165/178	4.7/5	0.48/0.55	12.19/13.97	49	2 / 1
M150AP8-1**	48	48~58	50/60	40/32	2300/2400	165/178	4.7/5	0.48/0.55	12.19/13.97	49	2 / 1
M150AP38-1**	380	380~420	50/60	40/32	2300/2400	165/178	4.7/5	0.48/0.55	12.19/13.97	49	2 / 1
M150AP44-1**	440	440~480	50/60	40/32	2300/2400	165/178	4.7/5	0.48/0.55	12.19/13.97	49	2 / 1
M150AP11/22-1** (dual voltage)	115 230	100~120 200~240	50/60	40/32	2300/2400	165/178	4.7/5	0.48/0.55	12.19/13.97	49	2 / 1

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Shaded pole induction, outer rotor, 1-phase
 Burnout Protection: Thermal protector
 IP Protection: IP55

Mechanical

Frame: Aluminum die cast, black color(AP)
 Impeller: 5 blades, all metal
 Bearing: Two ball bearings
 Rotation: CW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 650 g

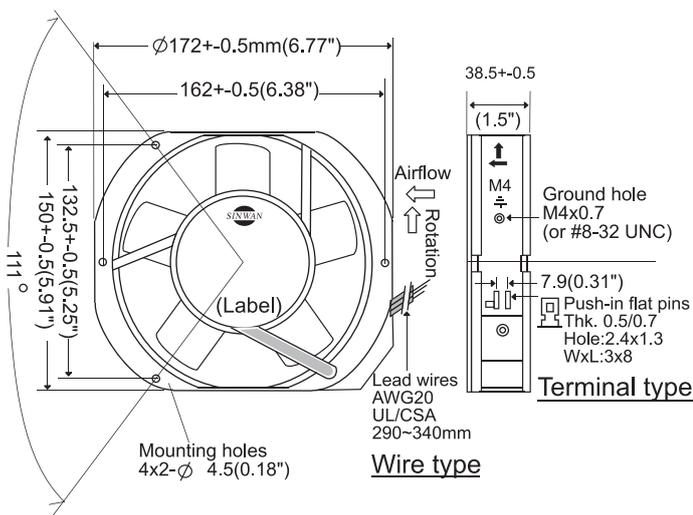
Electrical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
 Insulation Resistance: Over 100 MΩ at DC 500V
 Signal Output: Optional:R/D alarm output, tachometer output

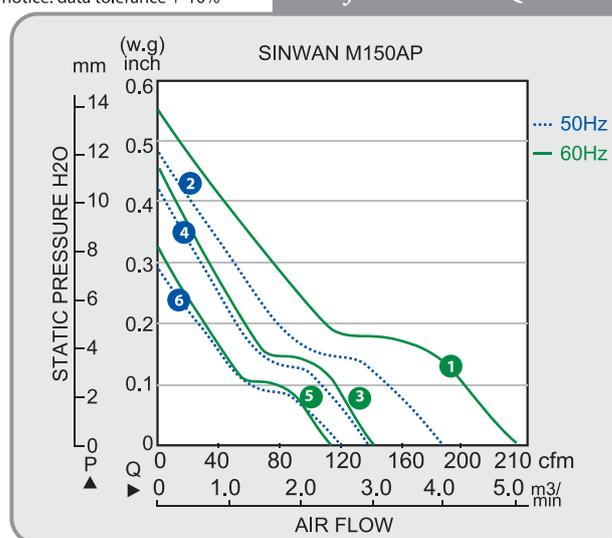
Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
 Storage Temp: -40°C~+100°C (at 65%RH)
 Life Expectancy: L10 50K hours at 55°C

Outline Dimensions



Performance P-Q Curves



Fan Accessories

- Metal Fan Guards G172-10H P.39
- Plastic Fan Guards G172P P.40
- Plastic Fan Filter GRM172-30 P.39
- Metal Fan Screens MF172S-30N P.41



172x150x38.5mm / 6x1.5inch

Max. 240 CFM

Metal Impeller, Capacitor Induction, IP54

Sinwan Model No.	Rated Voltage VAC	Voltage Range VAC	Freq. Hz	Input Power Watt	Referenced Speed RPM	Max. Airflow CFM	m3/min	Max. Static Pressure Inch/H2O	mm	Noise Level dB (A)	PQ Curves
M150AP-11-1**	115	100~120	50/60	28/32	2700/3100	205/240	5.8/6.8	0.51/0.54	12.95/13.72	58	2 / 1
M150AP-11-2**	115	100~120	50/60	22/25	2300/2400	170/180	4.8/5.1	0.43/0.47	10.92/11.94	43	4 / 3
M150AP-11-3**	115	100~120	50/60	16/20	1500/1600	110/120	3.1/3.4	0.34/0.33	8.64/8.38	32	6 / 5
M150AP-22-1**	230	200~240	50/60	28/32	2700/3100	205/240	5.8/6.8	0.51/0.54	12.95/13.72	58	2 / 1
M150AP-22-2**	230	200~240	50/60	22/25	2300/2400	170/180	4.8/5.1	0.43/0.47	10.92/11.94	43	4 / 3
M150AP-22-3**	230	200~240	50/60	16/20	1500/1600	110/120	3.1/3.4	0.34/0.33	8.64/8.38	32	6 / 5
M150AP-11/22-1** (dual voltage)	115 230	100~120 200~240	50/60	28/32	2700/3100	205/240	5.8/6.8	0.51/0.54	12.95/13.72	58	2 / 1

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Capacitor induction motor, outer rotor
 Burnout Protection: Thermal protector
 IP Protection: IP54

Mechanical

Frame: Aluminum die cast, black color(AP)
 Impeller: 6 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 820 g

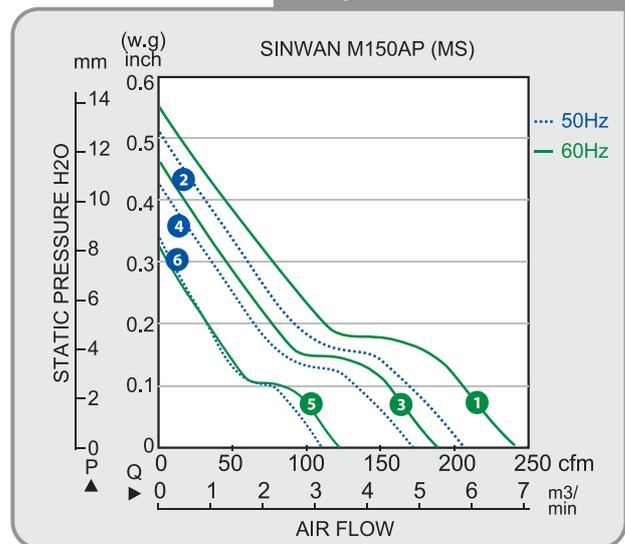
Electronical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
 Insulation Resistance: Over 100 MΩ at DC 500V
 Signal Output:

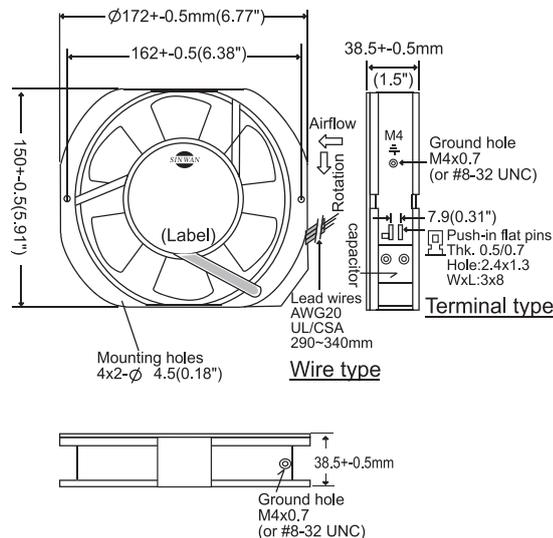
Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
 Storage Temp: -40°C~+100°C (at 65%RH)
 Life Expectancy: L10 50K hours at 55°C

► Performance P-Q Curves



► Outline Dimensions



Fan Accessories

Metal Fan Guards
G172-10H
P.39

Plastic Fan Guards
G172P
P.40

Plastic Fan Filter
GRM172-30
P.41

Metal Fan Screens
MF172S-30N
P.42





127x127x38.5mm / 5x1.5inch

Max. 128 CFM

Metal Impeller, IP55

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M127AN11-1**	115	100~120	50/60	29/26	2600/2950	110/128	3.1/3.6	0.27/0.29	6.86/7.37	48	2 / 1
M127AN11-2**	115	100~120	50/60	23/20	2300/2400	95/105	2.7/3	0.23/0.25	5.84/6.35	42	4 / 3
M127AN11-3**	115	100~120	50/60	18/15	1600/1500	68/65	1.9/1.8	0.18/0.16	4.57/4.06	28	6 / 5
M127AN22-1**	230	200~240	50/60	29/26	2600/2950	110/128	3.1/3.6	0.27/0.29	6.86/7.37	48	2 / 1
M127AN22-2**	230	200~240	50/60	23/20	2300/2400	95/105	2.7/3	0.23/0.25	5.84/6.35	42	4 / 3
M127AN22-3**	230	200~240	50/60	18/15	1600/1500	68/65	1.9/1.8	0.18/0.16	4.57/4.06	28	6 / 5
M127AN2-1**	12	12~14	50/60	29/26	2600/2950	110/128	3.1/3.6	0.27/0.29	6.86/7.37	48	2 / 1
M127AN4-1**	24	24~28	50/60	29/26	2600/2950	110/128	3.1/3.6	0.27/0.29	6.86/7.37	48	2 / 1
M127AN6-1**	28	28~34	50/60	29/26	2600/2950	110/128	3.1/3.6	0.27/0.29	6.86/7.37	48	2 / 1
M127AN8-1**	48	48~58	50/60	29/26	2600/2950	110/128	3.1/3.6	0.27/0.29	6.86/7.37	48	2 / 1
M127AN38-1**	380	380~420	50/60	29/26	2600/2950	110/128	3.1/3.6	0.27/0.29	6.86/7.37	48	2 / 1
M127AN44-1**	440	440~480	50/60	29/26	2600/2950	110/128	3.1/3.6	0.27/0.29	6.86/7.37	48	2 / 1
M127AN11/22**	115	100~120	50/60	29/26	2500/3000	105/125	3/3.5	0.27/0.29	6.86/7.37	48	2 / 1
(dual voltage)	230	200~240									

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Shaded pole induction, outer rotor, 1-phase
 Burnout Protection: Impedance protected
 IP Protection: IP55

Mechanical

Frame: Aluminum die cast, natural color(AN) or black color(AP)
 Impeller: 3 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 630 g

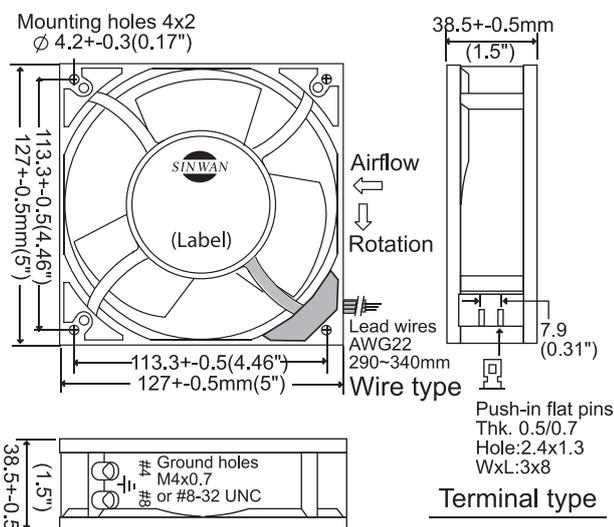
Electrical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
 Insulation Resistance: Over 100 MΩ at DC 500V
 Signal Output: Optional: tachometer output

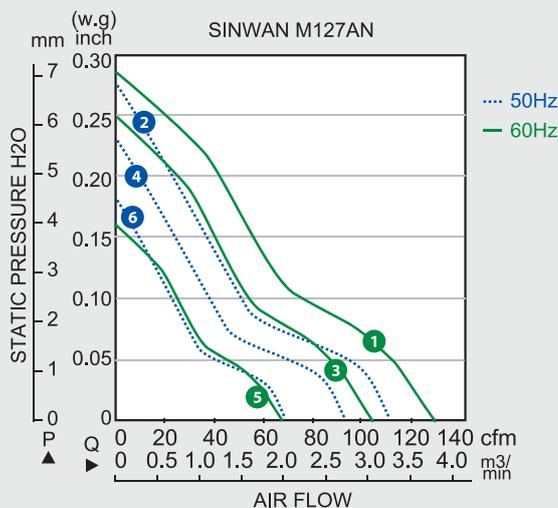
Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
 Storage Temp: -40°C~+100°C (at 65%RH)
 Life Expectancy: L10 50K hours at 55°C

Outline Dimensions



Performance P-Q Curves



Fan Accessories





120x120x38.5mm / 4.7x1.5inch

Max. 105 CFM

Metal Impeller, IP55

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M109AP11-1**	115	100~120	50/60	21/20	2650/3100	90/105	2.5/3	0.25/0.22	6.35/5.59	48	2 / 1
M109AP11-2**	115	100~120	50/60	14/13	2400/2500	82/85	2.3/2.4	0.17/0.12	4.32/3.05	43	4 / 3
M109AP11-3**	115	100~120	50/60	12/9	1700/1800	58/60	1.6/1.7	0.11/0.09	2.79/2.29	32	6 / 5
M109AP22-1**	230	200~240	50/60	21/20	2650/3100	90/105	2.5/3	0.25/0.22	6.35/5.59	48	2 / 1
M109AP22-2**	230	200~240	50/60	14/13	2400/2500	82/85	2.3/2.4	0.17/0.12	4.32/3.05	43	4 / 3
M109AP22-3**	230	200~240	50/60	12/9	1700/1800	58/60	1.6/1.7	0.11/0.09	2.79/2.29	32	6 / 5
M109AP2-1**	12	12~14	50/60	21/20	2650/3100	90/105	2.5/3	0.25/0.22	6.35/5.59	48	2 / 1
M109AP4-1**	24	24~28	50/60	21/20	2650/3100	90/105	2.5/3	0.25/0.22	6.35/5.59	48	2 / 1
M109AP6-1**	28	28~34	50/60	21/20	2650/3100	90/105	2.5/3	0.25/0.22	6.35/5.59	48	2 / 1
M109AP8-1**	48	48~58	50/60	21/20	2650/3100	90/105	2.5/3	0.25/0.22	6.35/5.59	48	2 / 1
M109AP38-1**	380	380~420	50/60	21/20	2650/3100	90/105	2.5/3	0.25/0.22	6.35/5.59	48	2 / 1
M109AP44-1**	440	440~480	50/60	21/20	2650/3100	90/105	2.5/3	0.25/0.22	6.35/5.59	48	2 / 1
M109AP11/22-1** (dual voltage)	115 230	100~120 200~240	50/60	21/20	2650/3100	90/105	2.5/3	0.25/0.22	6.35/5.59	48	2 / 1

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Shaded pole induction motor, outer rotor, 1-phase
 Burnout Protection: Impedance protected
 IP Protection: IP55

Mechanical

Frame: Aluminum die cast, black color(AP)
 Impeller: 5 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 580 g

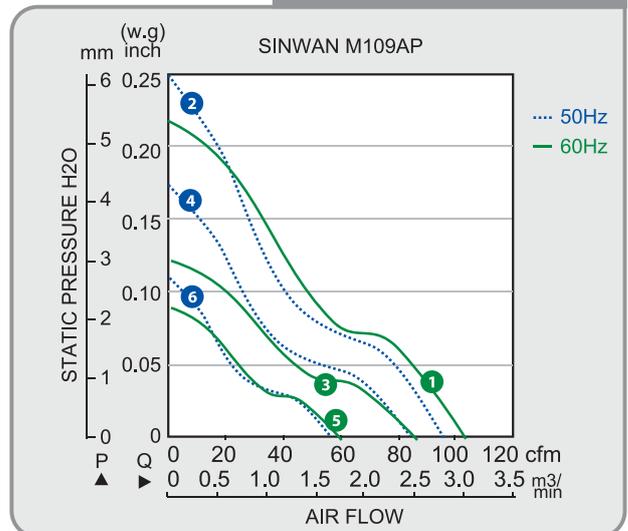
Electrical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
 Insulation Resistance: Over 100 MΩ at DC 500V
 Signal Output: Optional: tachometer output

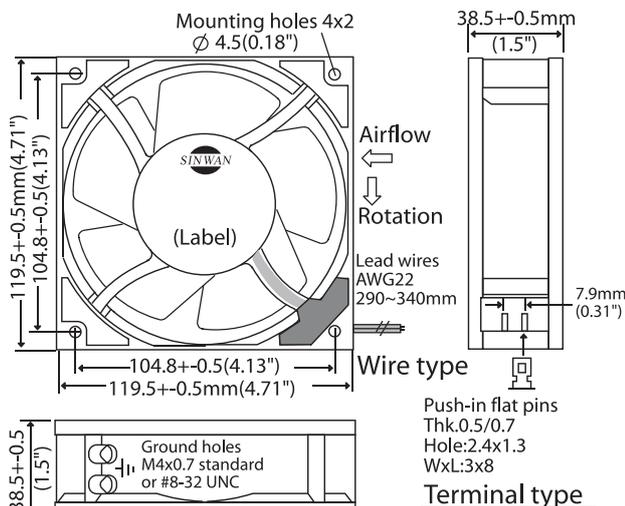
Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
 Storage Temp: -40°C~+100°C (at 65%RH)
 Life Expectancy: L10 50K hours at 55°C

► Performance P-Q Curves



► Outline Dimensions



Fan Accessories

- Metal Fan Guards
G109-17, G109-15A, G109-15B
P.39
- Plastic Fan Guards
G120P, G120P2, G120P4
P.40
- Plastic Fan Filter
GRM120-30, GRM120-45
P.41
- Metal Fan Screens
MF120S-30N
P.42





120x120x32mm / 4.7x1.3inch

Max. 73 CFM

Metal Impeller, IP55

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M1232AN11-1**	115	100~120	50/60	20/19	2200/2250	70/73	2/2.1	0.17/0.19	4.32/4.83	36	2 / 1
M1232AN11-2**	115	100~120	50/60	14/12	1800/1900	58/60	1.6/1.7	0.14/0.16	3.56/4.06	30	4 / 3
M1232AN11-3**	115	100~120	50/60	11/9	1400/1500	46/50	1.3/1.4	0.12/0.11	3.05/2.79	24	6 / 5
M1232AN22-1**	230	200~240	50/60	20/19	2200/2250	70/73	2/2.1	0.17/0.19	4.32/4.83	36	2 / 1
M1232AN22-2**	230	200~240	50/60	14/12	1800/1900	58/60	1.6/1.7	0.14/0.16	3.56/4.06	30	4 / 3
M1232AN22-3**	230	200~240	50/60	11/9	1400/1500	46/50	1.3/1.4	0.12/0.11	3.05/2.79	24	6 / 5
M1232AN2-1**	12	12~14	50/60	20/19	2200/2250	70/73	2/2.1	0.17/0.19	4.32/4.83	36	2 / 1
M1232AN4-1**	24	24~28	50/60	20/19	2200/2250	70/73	2/2.1	0.17/0.19	4.32/4.83	36	2 / 1
M1232AN6-1**	28	28~34	50/60	20/19	2200/2250	70/73	2/2.1	0.17/0.19	4.32/4.83	36	2 / 1
M1232AN8-1**	48	48~58	50/60	20/19	2200/2250	70/73	2/2.1	0.17/0.19	4.32/4.83	36	2 / 1
M1232AN38-1**	380	380~420	50/60	20/19	2200/2250	70/73	2/2.1	0.17/0.19	4.32/4.83	36	2 / 1
M1232AN44-1**	440	440~480	50/60	20/19	2200/2250	70/73	2/2.1	0.17/0.19	4.32/4.83	36	2 / 1
M1232AN11/22-1** (dual voltage)	115 230	100~120 200~240	50/60	20/19	2200/2250	70/73	2/2.1	0.17/0.19	4.32/4.83	36	2 / 1

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Shaded pole induction, outer rotor, 1-phase
 Burnout Protection: Impedance protected
 IP Protection: IP55

Mechanical

Frame: Aluminum die cast, natural color(AN)
 Impeller: 5 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 580 g

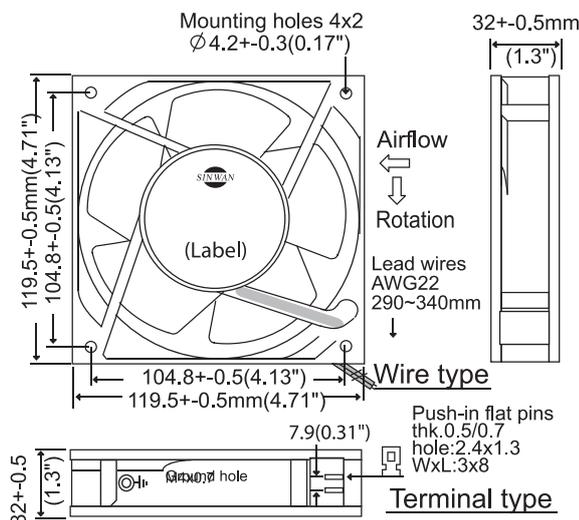
Electronical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
 Insulation Resistance: Over 100 MΩ at DC 500V
 Signal Output: Optional: tachometer output

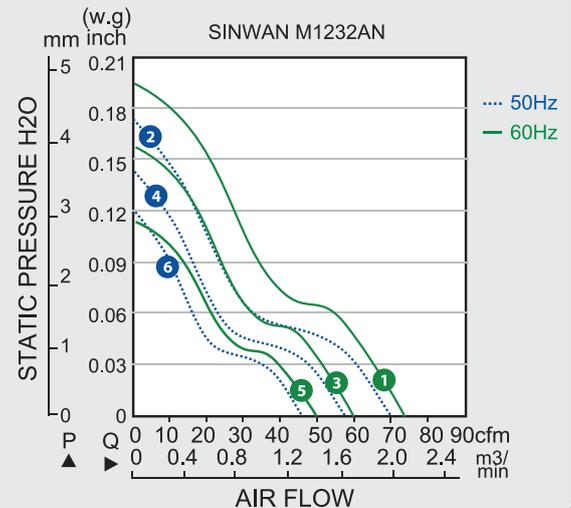
Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
 Storage Temp: -40°C~+100°C (at 65%RH)
 Life Expectancy: L10 50K hours at 55°C

Outline Dimensions



Performance P-Q Curves



Fan Accessories

Metal Fan Guards
 G109-17, G109-15A, G109-15B
 P.39

Plastic Fan Guards
 G120P, G120P2, G120P4
 P.40

Plastic Fan Filter
 GRM120-30, GRM120-45
 P.41

Metal Fan Screens
 MF120S-30N
 P.42



92x92x38mm / 3.6x1.5inch

Max. 55 CFM

Metal Impeller, IP55

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M938AP11-1**	115	100~120	50/60	17/15	2700/3150	45/55	1.3/1.6	0.17/0.22	4.32/5.59	40	2 / 1
M938AP11-2**	115	100~120	50/60	13/11	2350/2600	36/42	1/1.2	0.14/0.16	3.56/4.06	33	4 / 3
M938AP11-3**	115	100~120	50/60	9/7	1950/1850	29/27	0.8/0.8	0.12/0.11	3.05/2.79	23	6 / 5
M938AP22-1**	230	200~240	50/60	17/15	2700/3150	45/55	1.3/1.6	0.17/0.22	4.32/5.59	40	2 / 1
M938AP22-2**	230	200~240	50/60	13/11	2350/2600	36/42	1/1.2	0.14/0.16	3.56/4.06	33	4 / 3
M938AP22-3**	230	200~240	50/60	9/7	1950/1850	29/27	0.8/0.8	0.12/0.11	3.05/2.79	23	6 / 5
M938AP2-1**	12	12~14	50/60	17/15	2700/3150	45/55	1.3/1.6	0.17/0.22	4.32/5.59	40	2 / 1
M938AP4-1**	24	24~28	50/60	17/15	2700/3150	45/55	1.3/1.6	0.17/0.22	4.32/5.59	40	2 / 1
M938AP6-1**	28	28~34	50/60	17/15	2700/3150	45/55	1.3/1.6	0.17/0.22	4.32/5.59	40	2 / 1
M938AP8-1**	48	48~58	50/60	17/15	2700/3150	45/55	1.3/1.6	0.17/0.22	4.32/5.59	40	2 / 1
M938AP38-1**	380	380~420	50/60	17/15	2700/3150	45/55	1.3/1.6	0.17/0.22	4.32/5.59	40	2 / 1
M938AP44-1**	440	440~480	50/60	17/15	2700/3150	45/55	1.3/1.6	0.17/0.22	4.32/5.59	40	2 / 1
M938AP11/22-1** (dual voltage)	115 230	100~120 200~240	50/60	17/15	2700/3150	45/55	1.3/1.6	0.17/0.22	4.32/5.59	40	2 / 1

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Shaded pole induction motor, outer rotor, 1-phase
 Burnout Protection: Impedance protected
 IP Protection: IP55

Mechanical

Frame: Aluminum die cast, black color(AP)
 Impeller: 7 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 480 g

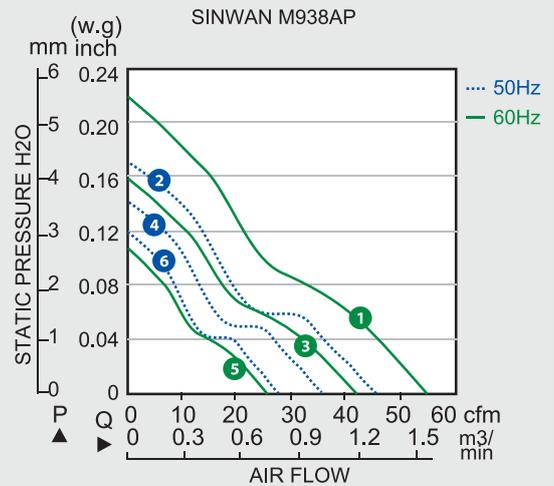
Electrical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
 Insulation Resistance: Over 100 MΩ at DC 500V
 Signal Output: Optional: tachometer output

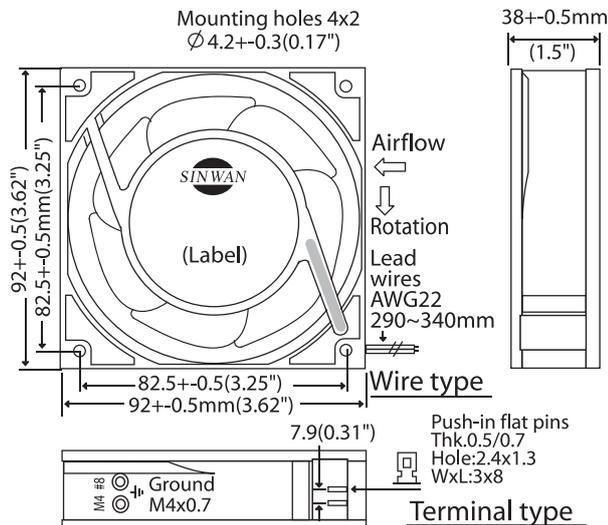
Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
 Storage Temp: -40°C~+100°C (at 65%RH)
 Life Expectancy: L10 50K hours at 55°C

► Performance P-Q Curves



► Outline Dimensions



Fan Accessories





80x80x38mm / 3x1.5inch

Max. 33 CFM

Metal Impeller, IP55

Sinwan Model No.	Rated Voltage	Voltage Range	Freq.	Input Power	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
M838AP11-1**	115	100~120	50/60	15/13	2750/3200	28/33	0.8/0.9	0.15/0.18	3.81/4.57	35	2 / 1
M838AP11-2**	115	100~120	50/60	12/10	2200/2500	23/26	0.7/0.7	0.12/0.14	3.05/3.56	30	4 / 3
M838AP11-3**	115	100~120	50/60	8/6	1700/1900	18/21	0.5/0.6	0.07/0.08	1.78/2.03	23	6 / 5
M838AP22-1**	230	200~240	50/60	15/13	2750/3200	28/33	0.8/0.9	0.15/0.18	3.81/4.57	35	2 / 1
M838AP22-2**	230	200~240	50/60	12/10	2200/2500	23/26	0.7/0.7	0.12/0.14	3.05/3.56	30	4 / 3
M838AP22-3**	230	200~240	50/60	8/6	1700/1900	18/21	0.5/0.6	0.07/0.08	1.78/2.03	23	6 / 5
M838AP2-1**	12	12~14	50/60	15/13	2750/3200	28/33	0.8/0.9	0.15/0.18	3.81/4.57	35	2 / 1
M838AP4-1**	24	24~28	50/60	15/13	2750/3200	28/33	0.8/0.9	0.15/0.18	3.81/4.57	35	2 / 1
M838AP6-1**	28	28~34	50/60	15/13	2750/3200	28/33	0.8/0.9	0.15/0.18	3.81/4.57	35	2 / 1
M838AP8-1**	48	48~58	50/60	15/13	2750/3200	28/33	0.8/0.9	0.15/0.18	3.81/4.57	35	2 / 1
M838AP38-1**	380	380~420	50/60	15/13	2750/3200	28/33	0.8/0.9	0.15/0.18	3.81/4.57	35	2 / 1
M838AP44-1**	440	440~480	50/60	15/13	2750/3200	28/33	0.8/0.9	0.15/0.18	3.81/4.57	35	2 / 1
M838AP11/22-1** (dual voltage)	115 230	100~120 200~240	50/60	15/13	2750/3200	28/33	0.8/0.9	0.15/0.18	3.81/4.57	35	2 / 1

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Shaded pole induction, outer rotor, 1-phase
 Burnout Protection: Impedance protected
 IP Protection: IP55

Mechanical

Frame: Aluminum die cast, black color(AP)
 Impeller: 9 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 430

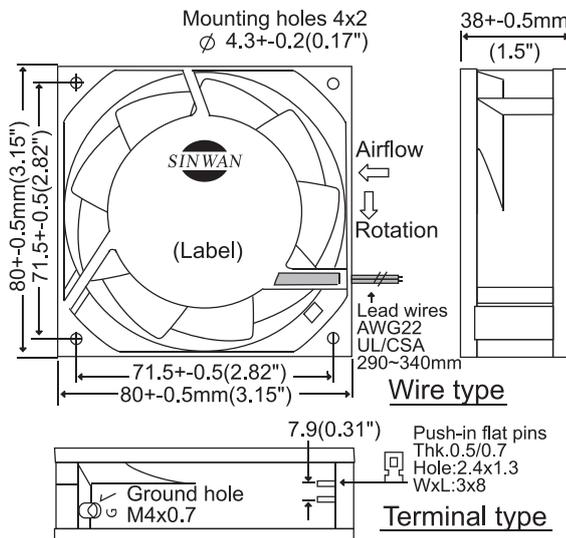
Electronical

Dielectric Strength: Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
 Insulation Resistance: Over 100 MΩ at DC 500V
 Signal Output: Optional: tachometer output

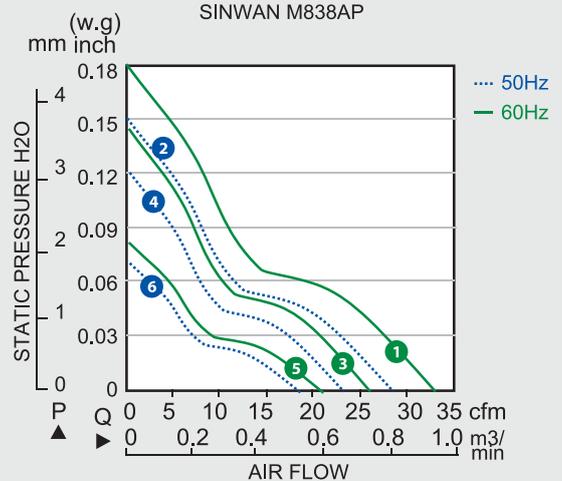
Environment

Operating Temp: Ambient non-condensing -30°C~+80°C
 Storage Temp: -40°C~+100°C (at 65%RH)
 Life Expectancy: L10 50K hours at 55°C

Outline Dimensions



Performance P-Q Curves



Fan Accessories

- Metal Fan Guards
G80-18
P.39
- Plastic Fan Guards
G80P, G80P2, G80P4
P.40
- Plastic Fan Filter
GRM80-30, GRM80-45
P.41
- Metal Fan Screens
MF80S-30N
P.42

AC Metal Skeleton Fans



MK838(Dia.75x41mm/3inch)
Air Flow: 33~18 CFM



MK938(Dia.85x41mm/3.5inch)
Air Flow: 55~27 CFM



MK1232(Dia.113x36mm/4.5inch)
Air Flow: 73~36 CFM



MK109(Dia.113x41mm/4.5inch)
Air Flow: 105~60 CFM



MK127(Dia.120x41mm/5inch)
Air Flow: 128~65 CFM



MK150(Dia.140x44mm/6inch)
Air Flow: 195~100 CFM



MK172E(Dia.140x56mm/6inch)
Air Flow: 210~95 CFM



MK180F(Dia.168x79mm/6.5inch)
Air Flow: 390~200 CFM



MK200RAN(Dia.172x87mm/6.8inch)
Air Flow: 485~160 CFM



MK205(Dia.197x79mm/7.8inch)
Air Flow: 630~220 CFM

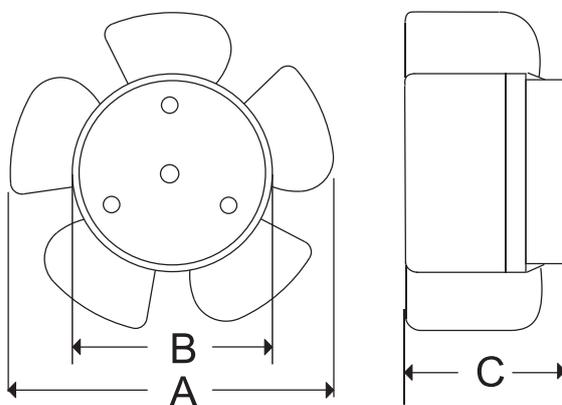


MK254GAN(Dia.219x87mm/8.5inch)
Air Flow: 1000~370 CFM



MK280GAN(Dia.245x87mm/10inch)
Air Flow: 1300~450 CFM

Information



Model No./Series

MK838
MK938
MK1232
MK109
MK127
MK150
MK172E
MK180F
MK200RAN
MK205
MK254GAN
MK280GAN

Dimensions AxBxC mm (inch) AxBxC

75x59x41 (2.95x2.32x1.61")
85x59x41 (3.35x2.32x1.61")
113x59x36 (4.45x2.32x1.42")
113x59x41 (4.45x2.32x1.61")
120x59x41 (5x2.32x1.61")
140x74.5x44 (5.51x2.93x1.69")
140x74.5x56 (5.51x2.93x2.20")
168x92x79 (6.61x3.62x3.11")
172x92x87 (6.77x3.62x3.43)
197x92x79 (7.75x3.62x3.11)
219x92x87 (8.62x3.62x3.43)
245x92x87 (9.65x3.62x3.43)

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice.

DC All Metal Impeller Axial Fans



Model Information

MD 180F AP – 48 H W B (RFP)

Series Name
MD-Meal Impeller
MDK-Skeleton Metal Impeller

Frame Size(mm)

280G: 280x280x88.9mm	Max.1200 CFM
254G: Dia.254x88.9mm	Max.1030 CFM
254: Dia.254x88.9mm	Max.950 CFM
254: Dia.254x88.9mm	Max.820 CFM
200: Dia.225x80mm	Max.815 CFM
200R: Dia.200x70mm	Max.510 CFM
180G: 176x176x89mm	Max.485 CFM
180F: 180x180x65mm	Max.480 CFM
175E: 172x150x55mm	Max.335 CFM
175R: Dia.172x51mm	Max.325 CFM
175S: 172x150x51mm	Max.325 CFM
173: 172x150x38.5mm	Max.270 CFM

Voltage(VDC)

05-5V
12-12V
24-24V
48-48V

Frame

AP-Aluminum die casting Black Color
AN-Aluminum die casting Natural Treatment
ZP-Zinc, Black Color
ZN-Zinc, Natural Treatment

Function
R-R/D Alarm
F-F/G Tachometer
Speed Controls
C-S/C Thermister NTC
P-PWM,Pulse Width Modulation
V-S/V Control Voltage
Speed setting

Bearing
B-Two Ball Bearings

Connecting
W-Wire Lead Type
T-Terminal push-in
Flat Pins Type
or Terminal Block

Speed
SH-Super High Speed
H-High Speed
M-Medium Speed
L-Low Speed
H(HH)-Extra High Speed
L(LL)-Extra Low Speed



280x280x88.9mm / 11x3.5inch

Max. 1200 CFM

Metal Impeller DC Fan

Sinwan Model No.	Rated Voltage	Voltage Range	Input Power	Rated Current	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VDC	VDC	Watt	A	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
MD280GAN-12H**7	12	9~13.5	125~135	10.4~11.3	2500	1150	32.6	0.90	22.86	70	H
MD280GAN-12M**7	12	9~13.5	80~90	6.7~7.5	2200	950	26.9	0.65	16.51	56	M
MD280GAN-12L**7	12	9~13.5	52~62	4.3~5.2	1800	780	22.1	0.51	12.95	48	L
MD280GAN-24H**7	24	18~27.6	125~135	5.2~5.6	2550	1200	34	0.90	22.86	72	H
MD280GAN-24M**7	24	18~27.6	80~90	3.3~3.8	2200	950	26.9	0.65	16.51	56	M
MD280GAN-24L**7	24	18~27.6	52~62	2.2~2.6	1800	780	22.1	0.51	12.95	48	L
MD280GAN-48H**7	48	24~55	125~135	2.6~2.8	2550	1200	34	0.90	22.86	72	H
MD280GAN-48M**7	48	24~58	80~90	1.7~1.9	2200	950	26.9	0.65	16.51	56	M
MD280GAN-48L**7	48	24~60	52~62	1.1~1.3	1800	780	22.1	0.51	12.95	48	L

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

• Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Microprocessor brushless DC Motor, auto cutoff, auto restart
 Burnout Protection: Electronically protected, polarity protected

Mechanical

Frame: Aluminum die cast, natural color(AN)
 Impeller: 7 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 2,950g

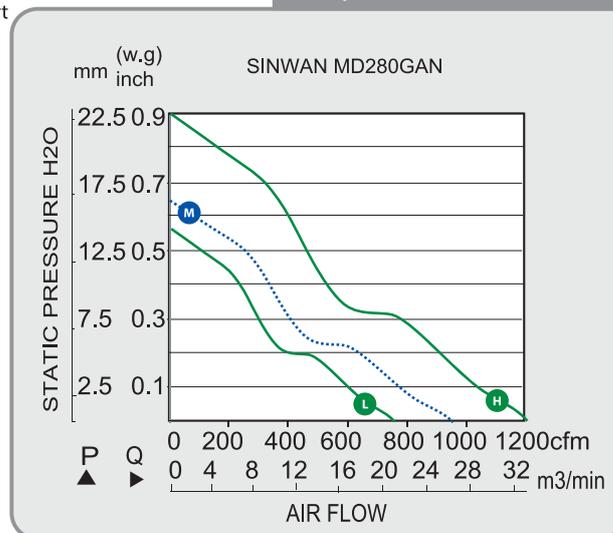
Electrical

Dielectric Strength: 500 VAC/min. Max leakage 500mA
 Speed Control: Optional:PWM, S/C NTC thermister, S/V (0~10V) speed control on request
 Signal Output: Optional:R/D alarm output, tachometer output

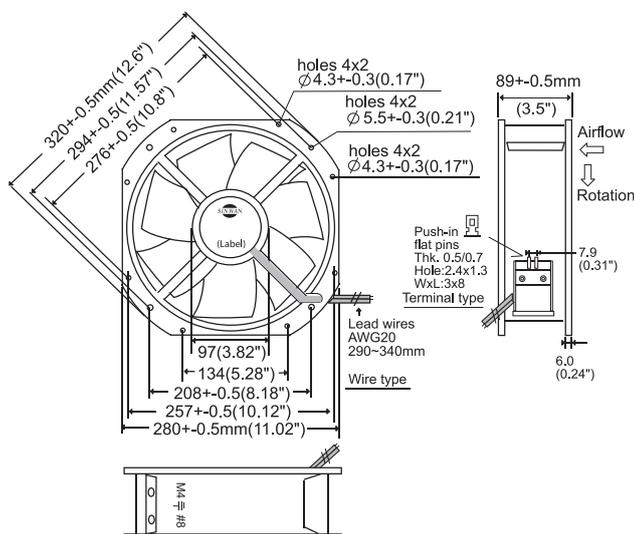
Environment

Operating Temp: -20°C~+65°C (non-condensing)
 Storage Temp: -40°C~+80°C (at 65%RH)
 Life Expectancy: L10 50K hours at 50°C

► Performance P-Q Curves



► Outline Dimensions



Fan Accessories



CE



Dia.254x88.9mm / 10x3.5inch

Max. 980 CFM

Metal Impeller DC Fan

Sinwan Model No.	Rated Voltage	Voltage Range	Input Power	Rated Current	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VDC	VDC	Watt	A	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
MD254AN-12SH**7	12	9~13	64.8	5.4	2900	950	26.9	1.1	27.94	72	SH
MD254AN-12HH**7	12	9~13	50.4	4.2	2500	820	23.2	0.95	24.13	68	HH
MD254AN-12H**7	12	9~13	23	1.9	2000	660	18.7	0.76	19.3	61	H
MD254AN-12M**7	12	9~14	13.2	1.1	1600	530	15	0.61	15.49	50	M
MD254AN-12L**7	12	10~16	5.5	0.45	1100	360	10.2	0.42	10.67	40	L
MD254AN-24SH**7	24	16~27	63.6	2.65	3000	980	27.8	1.13	28.7	72	SH
MD254AN-24HH**7	24	16~27	50.4	2.1	2500	820	23.2	0.95	24.13	68	HH
MD254AN-24H**7	24	16~27	24	0.97	2000	660	18.7	0.76	19.3	61	H
MD254AN-24M**7	24	16~27.6	13	0.52	1600	530	15	0.61	15.49	50	M
MD254AN-24L**7	24	18~30	5	0.2	1100	360	10.2	0.42	10.67	40	L
MD254AN-48SH**7	48	24~53	62.4	1.3	3000	980	27.8	1.13	28.7	72	SH
MD254AN-48HH**7	48	24~53	49.4	1.03	2500	820	23.2	0.95	24.13	68	HH
MD254AN-48H**7	48	24~53	23.5	0.48	2000	660	18.7	0.76	19.3	61	H
MD254AN-48M**7	48	28~58	14.5	0.3	1600	530	15	0.61	15.49	50	M
MD254AN-48L**7	48	28~63	5.8	0.12	1100	360	10.2	0.42	10.67	40	L

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

• Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

► Performance P-Q Curves

Motor

Motor Type: Microprocessor brushless DC Motor, auto cutoff, auto restart
Burnout Protection: Electronically protected, polarity protected

Mechanical

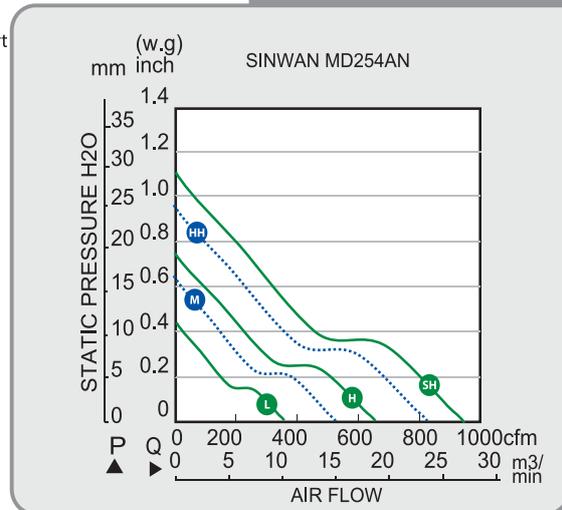
Frame: Aluminum die cast, natural color(AN)
Impeller: 7 blades, all metal
Bearing: Two ball bearings
Rotation: CCW seen on rotor
Connection: Wire lead or terminal flat pin connecting
Weight: 2,300g (5.07 Lbs)

Electronical

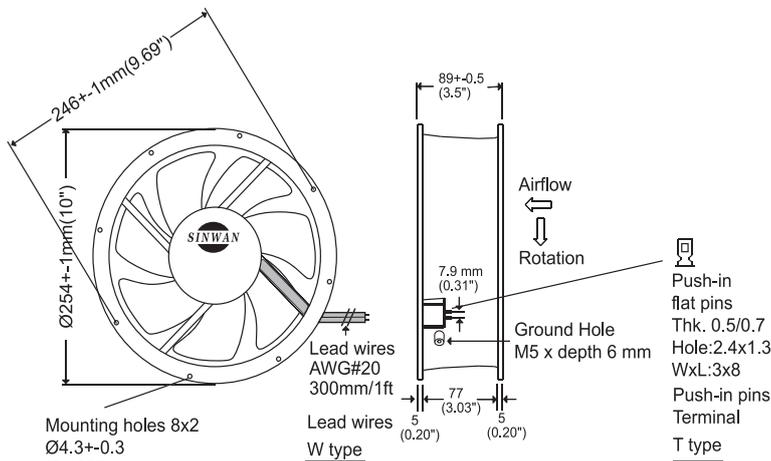
Dielectric Strength: 500 VAC/min. Max leakage 500mA
Speed Control: Optional:PWM, S/C NTC thermister, S/V (0~10V) speed control on request
Signal Output: Optional:R/D alarm output, tachometer output

Environment

Operating Temp: -20°C~+65°C (non-condensing)
Storage Temp: -40°C~+80°C (at 65%RH)
Life Expectancy: L10 50K hours at 50°C



► Outline Dimensions



Fan Accessories



Metal Fan Guards
G254-9D, G254-9DU
P.39



Dia.254x88.9mm / 10x3.5inch

Max. 820 CFM

Metal Impeller DC Fan

Sinwan Model No.	Rated Voltage	Voltage Range	Input Power	Rated Current	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VDC	VDC	Watt	A	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
MD254AP-12SH**3	12	9~13	64.8	5.4	2900	800	22.7	0.57	14.48	66	SH
MD254AP-12HH**3	12	9~13	50.4	4.2	2500	685	19.4	0.48	12.19	62	HH
MD254AP-12H**3	12	9~13	23	1.9	2000	550	15.6	0.38	9.65	55	H
MD254AP-12M**3	12	9~14	13.2	1.1	1600	450	12.7	0.33	8.38	45	M
MD254AP-12L**3	12	10~16	5.5	0.45	1100	330	9.3	0.25	6.35	36	L
MD254AP-24SH**3	24	16~27	63.6	2.65	3000	820	23.2	0.59	14.99	66	SH
MD254AP-24HH**3	24	16~27	50.4	2.1	2500	685	19.4	0.48	12.19	62	HH
MD254AP-24H**3	24	16~27	24	0.97	2000	550	15.6	0.38	9.65	55	H
MD254AP-24M**3	24	16~27.6	13	0.52	1600	450	12.7	0.33	8.38	45	M
MD254AP-24L**3	24	18~30	5	0.2	1100	330	9.3	0.25	6.35	36	L
MD254AP-48SH**3	48	24~53	62.4	1.3	3000	820	23.2	0.59	14.99	66	SH
MD254AP-48HH**3	48	24~53	49.4	1.03	2500	685	19.4	0.48	12.19	62	HH
MD254AP-48H**3	48	24~53	23.5	0.48	2000	550	15.6	0.48	12.19	62	H
MD254AP-48M**3	48	28~58	14.5	0.3	1600	450	12.7	0.33	8.38	45	M
MD254AP-48L**3	48	28~63	5.8	0.12	1100	330	9.3	0.25	6.35	36	L

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

• Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Microprocessor brushless DC Motor, auto cutoff, auto restart
 Burnout Protection: Electronically protected, polarity protected

Mechanical

Frame: Aluminum die cast, black color(AP)
 Impeller: 3 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 1900g

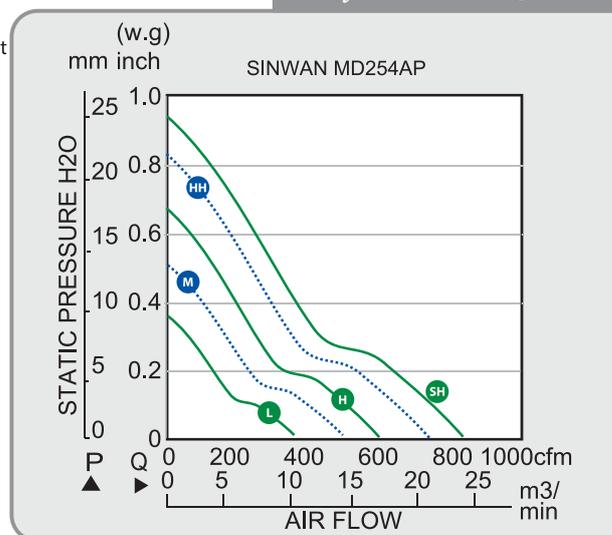
Electrical

Dielectric Strength: 500 VAC/min. Max leakage 500mA
 Speed Control: Optional:PWM, S/C NTC thermister, S/V (0~10V) speed control on request
 Signal Output: Optional:R/D alarm output, tachometer output

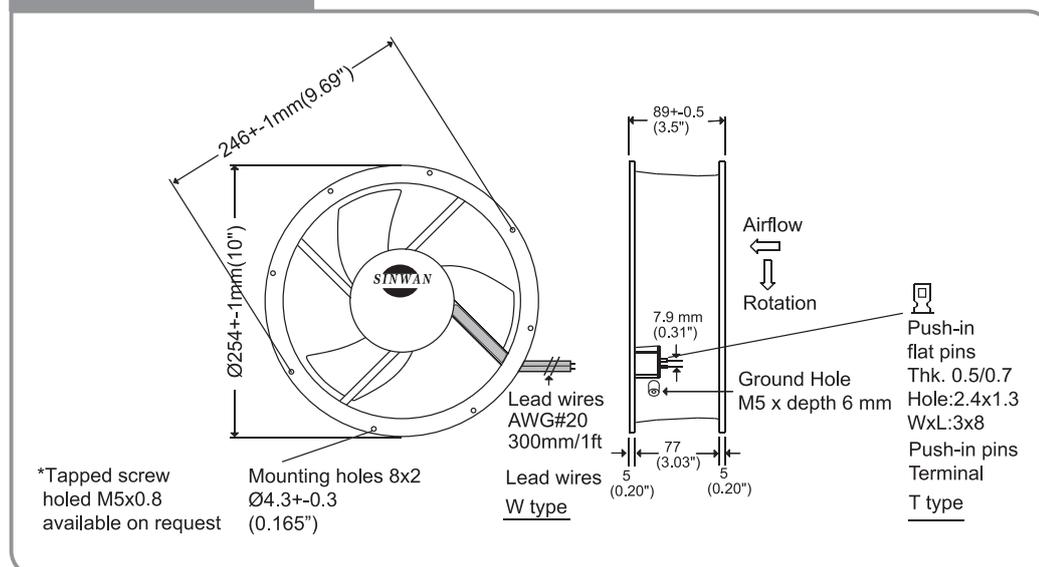
Environment

Operating Temp: -20°C~+65°C (non-condensing)
 Storage Temp: -40°C~+80°C (at 65%RH)
 Life Expectancy: L10 50K hours at 50°C

► Performance P-Q Curves



► Outline Dimensions



Fan Accessories





Dia.225x80mm / 8.6x3.15inch

Max. 815 CFM

Metal Impeller DC Fan

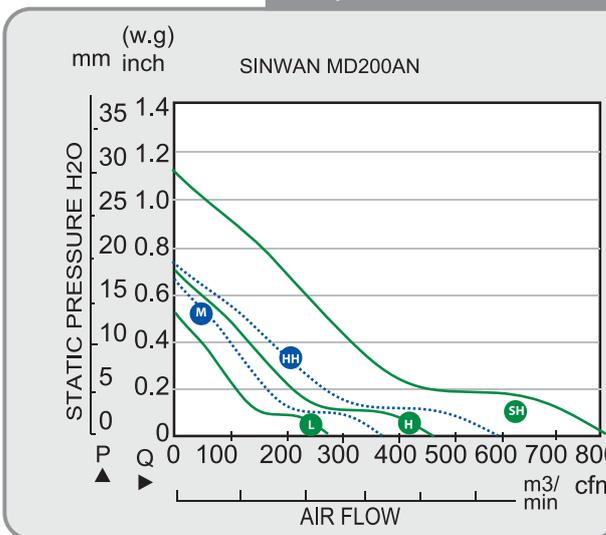
Sinwan Model No.	Rated Voltage	Voltage Range	Input Power	Rated Current	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VDC	VDC	Watt	A	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
MD200AN-12SH**	12	9~13.6	64.8	5.4	3800	800	22.7	1.05	26.67	67	H
MD200AN-12HH**	12	9~13.6	50.4	4.2	2800	590	16.7	0.76	19.30	63	HH
MD200AN-12H**	12	9~13.6	23	1.9	2200	460	13	0.71	18.03	59	H
MD200AN-12M**	12	9~13.6	13.2	1.1	1800	380	10.8	0.64	16.26	53	M
MD200AN-12L**	12	9~14	5.5	0.45	1300	270	7.6	0.58	14.73	41	L
MD200AN-24SH**	24	16~27.6	63.6	2.65	3850	803	22.7	1.15	29.21	68	SH
MD200AN-24HH**	24	16~27.6	50.4	2.1	2800	590	16.7	0.77	19.56	63	HH
MD200AN-24H**	24	16~27.6	24	0.97	2200	460	13	0.71	18.03	59	H
MD200AN-24M**	24	16~28	13	0.52	1800	380	10.8	0.64	16.26	53	M
MD200AN-24L**	24	16~28	5	0.2	1300	270	7.6	0.58	14.73	41	L
MD200AN-48SH**	48	30~53	62.4	1.3	3900	815	23.1	1.25	31.75	68	SH
MD200AN-48HH**	48	30~53	49.4	1.03	2900	595	16.8	0.79	20.07	63	HH
MD200AN-48H**	48	30~53	23.5	0.48	2200	460	13	0.71	18.03	59	H
MD200AN-48M**	48	30~56	14.5	0.30	1800	380	10.8	0.64	16.26	53	M
MD200AN-48L**	48	30~58	5.8	0.12	1300	270	7.6	0.58	14.73	41	L

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

• Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

► Performance P-Q Curves

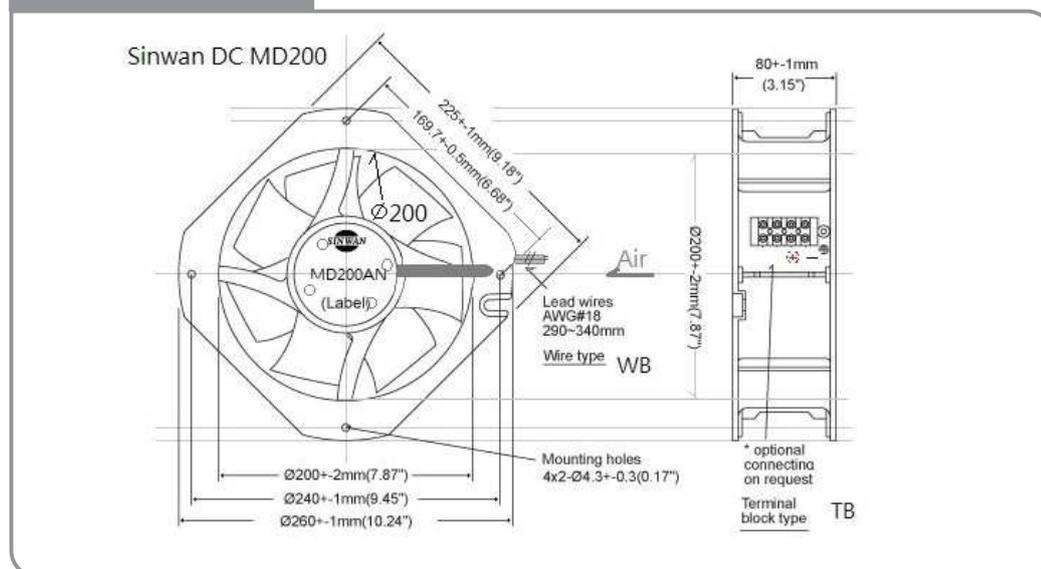
- Motor**
- Motor Type: Microprocessor brushless DC Motor, auto cutoff, auto restart
 - Burnout Protection: Electronically protected, polarity protected
- Mechanical**
- Frame: Aluminum die cast, natural color(AN)
 - Impeller: 7 blades, all metal
 - Bearing: Two ball bearings
 - Rotation: CCW seen on rotor
 - Connection: Wire lead or terminal flat pin connecting
 - Weight: -
- Electrical**
- Dielectric Strength: 500 VAC/min. Max leakage 500mA
 - Speed Control: Optional:PWM, S/C NTC thermister, S/V (0~10V) speed control on request
 - Signal Output: Optional:R/D alarm output, tachometer output
- Environment**
- Operating Temp: -20°C~+65°C (non-condensing)
 - Storage Temp: -40°C~+80°C (at 65%RH)
 - Life Expectancy: L10 50K hours at 50°C



Fan Accessories



► Outline Dimensions





Dia.200x70mm / 7.9x2.8inch

Max. 510 CFM

Metal Impeller DC Fan

Sinwan Model No.	Rated Voltage	Voltage Range	Input Power	Rated Current	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VDC	VDC	Watt	A	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
MD200RAP-12SH**	12	9~13.6	64.8	5.4	3300	440	12.5	1.05	26.67	65	H
MD200RAP-12HH**	12	9~13.6	50.4	4.2	3100	420	11.9	0.98	24.89	62	HH
MD200RAP-12H**	12	9~13.6	23	1.9	2800	395	11.2	0.88	22.35	59	H
MD200RAP-12M**	12	9~13.6	13.2	1.1	2500	430	12.2	0.78	19.80	55	M
MD200RAP-12L**	12	9~14	5.5	0.45	1900	330	9.3	0.65	16.51	43	L
MD200RAP-24SH**	24	16~27.6	63.6	2.65	3900	510	14.4	1.25	31.75	68	SH
MD200RAP-24HH**	24	16~27.6	50.4	2.1	3600	475	13.5	1.15	29.21	66	HH
MD200RAP-24H**	24	16~27.6	24	0.97	3300	440	12.5	1.05	26.67	64	H
MD200RAP-24M**	24	16~28	13	0.52	2500	430	12.2	0.78	19.80	55	M
MD200RAP-24L**	24	16~28	5	0.2	1900	330	9.3	0.65	16.51	42	L
MD200RAP-48SH**	48	30~53	62.4	1.3	3900	510	14.4	1.25	31.75	68	SH
MD200RAP-48HH**	48	30~53	49.4	1.03	3600	475	13.5	1.15	29.21	66	HH
MD200RAP-48H**	48	30~53	23.5	0.48	3300	440	12.5	1.05	26.67	64	H
MD200RAP-48M**	48	30~56	14.5	0.30	2500	430	12.2	0.78	19.80	58	M
MD200RAP-48L**	48	30~58	5.8	0.12	1900	330	9.3	0.65	16.51	45	L

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

• Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Microprocessor brushless DC Motor, auto cutoff, auto restart
 Burnout Protection: Electronically protected, polarity protected

Mechanical

Frame: Aluminum die cast, black color(AP)
 Impeller: 5 blades, all metal
 Bearing: Two ball bearings
 Rotation: CCW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 1,800g

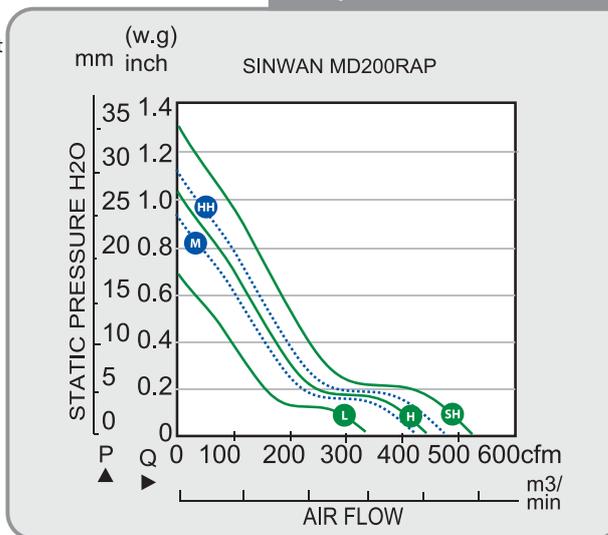
Electrical

Dielectric Strength: 500 VAC/min. Max leakage 500mA
 Speed Control: Optional:PWM, S/C NTC thermister, S/V (0~10V) speed control on request
 Signal Output: Optional:R/D alarm output, tachometer output

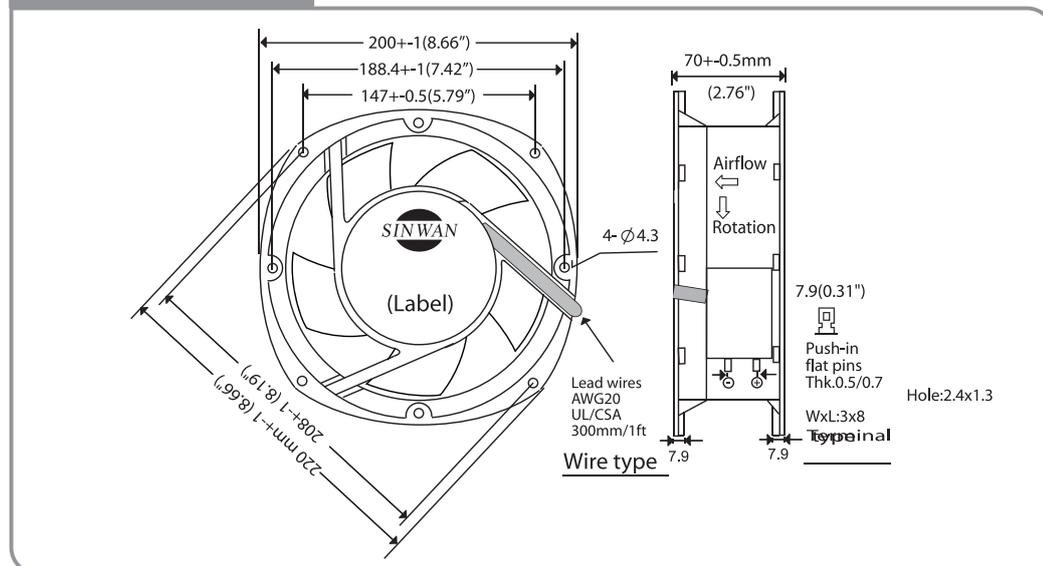
Environment

Operating Temp: -20°C~+65°C (non-condensing)
 Storage Temp: -40°C~+80°C (at 65%RH)
 Life Expectancy: L10 50K hours at 50°C

► Performance P-Q Curves



► Outline Dimensions



Fan Accessories



• DC • MD180GAP, FAP series



(GAP) (FAP)

176x176x89mm / 7x3.5inch (GAP)

Max. 485 CFM

180x180x65mm / 7x2.5inch (FAP)

Max. 480 CFM

Metal Impeller DC Fan

Sinwan Model No.	Rated Voltage	Voltage Range	Input Power	Rated Current	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VDC	VDC	Watt	A	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
MD180FAP-12SH**	12	9~13.8	64.8	5.4	3700	475	13.5	0.87	22.1	64	SH
MD180FAP-12HH**	12	9~13.8	50.4	4.2	3400	440	12.5	0.82	20.83	62	HH
MD180FAP-12H**	12	9~13.8	23	1.9	2800	360	10.2	0.72	18.29	58	H
MD180FAP-12M**	12	10~14	13.2	1.1	2200	295	8.4	0.55	13.97	49	M
MD180FAP-12L**	12	10~14	5.5	0.45	1600	220	6.2	0.38	9.65	38	L
MD180FAP-24SH**	24	12~27.6	63.6	2.65	3800	480	13.6	0.88	22.35	66	SH
MD180FAP-24HH**	24	12~27.6	50.4	2.1	3500	445	12.6	0.82	20.83	62	HH
MD180FAP-24H**	24	12~27.6	24	0.97	2800	360	10.2	0.72	18.29	58	H
MD180FAP-24M**	24	12~28	13	0.52	2200	295	8.4	0.55	13.97	49	M
MD180FAP-24L**	24	15~28	5	0.20	1600	220	6.2	0.38	9.65	38	L
MD180FAP-48SH**	48	24~53	62.4	1.3	3800	480	13.6	0.88	22.35	66	SH
MD180FAP-48HH**	48	24~53	49.4	1.03	3500	445	12.6	0.82	20.83	62	HH
MD180FAP-48H**	48	24~55	23.5	0.48	2800	360	10.2	0.72	18.29	58	H
MD180FAP-48M**	48	28~58	14.5	0.30	2200	295	8.4	0.55	13.97	49	M
MD180FAP-48L**	48	30~60	5.8	0.12	1600	220	6.2	0.38	9.65	38	L

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

• Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Microprocessor brushless DC Motor, auto cutoff, auto restart
 Burnout Protection: Electronically protected, polarity protected

Mechanical

Frame: Aluminum die cast, black color(AP)
 Impeller: 5 blades, all metal
 Bearing: Two ball bearings
 Rotation: CW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 1,400g

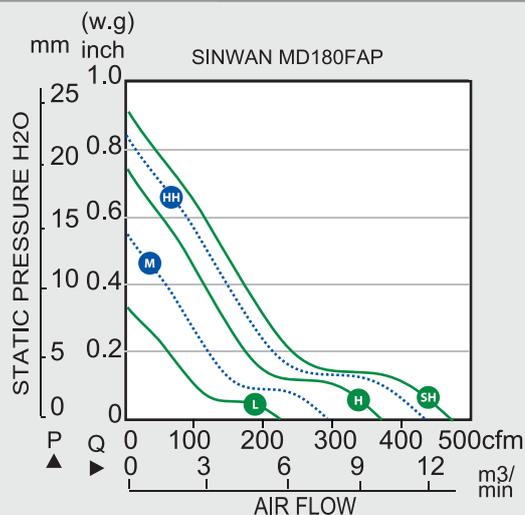
Electrical

Dielectric Strength: 500 VAC/min. Max leakage 500mA
 Speed Control: Optional:PWM, S/C NTC thermister, S/V (0~10V) speed control on request
 Signal Output: Optional:R/D alarm output, tachometer output

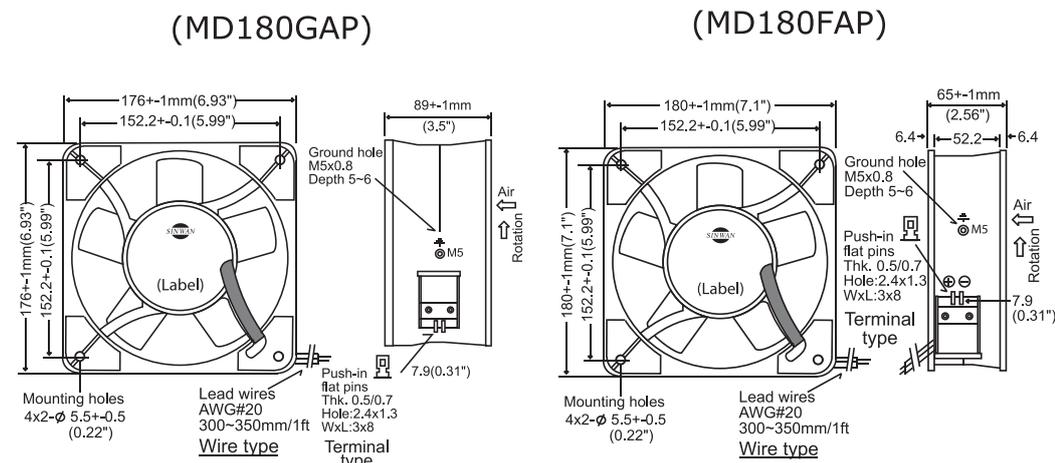
Environment

Operating Temp: -20°C~+65°C (non-condensing)
 Storage Temp: -40°C~+80°C (at 65%RH)
 Life Expectancy: L10 50K hours at 50°C

► Performance P-Q Curves



► Outline Dimensions



Fan Accessories





172x150x55mm / 5x2.17inch

Max. 335 CFM

Metal Impeller DC Fan

Sinwan Model No.	Rated Voltage	Voltage Range	Input Power	Rated Current	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VDC	VDC	Watt	A	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
MD175EAP-12SH**7	12	8~14	64.8	5.4	4100	310	8.7	1.05	26.67	64	HH
MD175EAP-12HH**7	12	8~14	50.4	4.2	3900	295	8.4	0.97	24.64	60	H
MD175EAP-12H**7	12	8~14	23	1.9	3700	275	7.8	0.93	23.62	55	H
MD175EAP-12M**7	12	9~14	13.2	1.1	2800	210	5.9	0.70	17.78	46	M
MD175EAP-12L**7	12	9~15	5.5	0.45	2000	155	4.4	0.49	12.45	37	L
MD175EAP-24SH**7	24	15~28	63.6	2.65	4400	335	9.5	1.15	29.21	66	SH
MD175EAP-24HH**7	24	15~28	50.4	2.1	4200	318	9.0	1.08	27.43	64	HH
MD175EAP-24H**7	24	15~28	24	0.97	3900	295	8.4	0.97	24.64	60	H
MD175EAP-24M**7	24	17~28	13	0.52	2800	210	5.9	0.70	17.78	46	M
MD175EAP-24L**7	24	17~28	5	0.20	2000	155	4.4	0.49	12.45	37	L
MD175EAP-48SH**7	48	22~53	62.4	1.3	4400	335	9.5	1.15	29.21	66	SH
MD175EAP-48HH**7	48	22~53	49.4	1.03	4200	318	9.0	1.08	27.43	64	HH
MD175EAP-48H**7	48	22~55	23.5	0.48	3900	295	8.4	0.93	23.62	60	H
MD175EAP-48M**7	48	24~58	14.5	0.30	2800	210	5.9	0.70	17.78	46	M
MD175EAP-48L**7	48	24~60	5.8	0.12	2000	155	4.4	0.49	12.45	37	L

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

• Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Microprocessor brushless DC Motor, auto cutoff, auto restart
 Burnout Protection: Electronically protected, polarity protected

Mechanical

Frame: Aluminum die cast, black color(AP)
 Impeller: 7 blades, all metal
 Bearing: Two ball bearings
 Rotation: CW seen on rotor
 Connection: Wire lead
 Weight: 920 g

Electrical

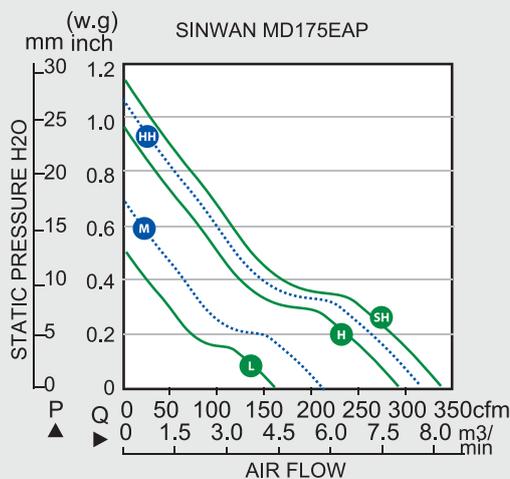
Dielectric Strength: 500 VAC/min. Max leakage 500mA
 Speed Control: Optional:PWM, S/C NTC thermister, S/V (0~10V) speed control on request

Signal Output: Optional:R/D alarm output, tachometer output

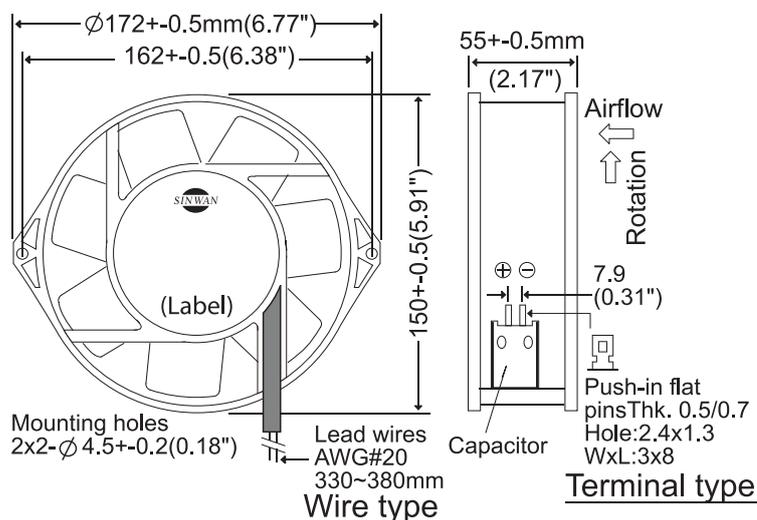
Environment

Operating Temp: -20°C~+65°C (non-condensing)
 Storage Temp: -40°C~+80°C (at 65%RH)
 Life Expectancy: L10 50K hours at 50°C

► Performance P-Q Curves



► Outline Dimensions



Fan Accessories

Metal Fan Guards
G172-10H, G172-10HA
P.39

Plastic Fan Guards
G172P
P.40

Plastic Fan Filter
GRM172-30, GRM172-45
P.41

Metal Fan Screens
MF172S-30N
P.42





Dia.172x51 mm / 6.77x2inch

Max. 325 CFM

Metal Impeller DC Fan

Sinwan Model No.	Rated Voltage	Voltage Range	Input Power	Rated Current	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VDC	VDC	Watt	A	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
MD175RAP-12SH**7	12	8~14	64.8	5.4	4300	320	9.1	1.15	29.21	65	SH
MD175RAP-12HH**7	12	8~14	50.4	4.2	4100	300	8.5	1.05	26.67	64	HH
MD175RAP-12H**7	12	8~14	23	1.9	3700	270	7.6	0.95	24.13	58	H
MD175RAP-12M**7	12	9~14	13.2	1.1	2800	200	5.7	0.80	20.32	45	M
MD175RAP-12L**7	12	9~15	5.5	0.45	2000	145	4.1	0.56	14.22	36	L
MD175RAP-24SH**7	24	15~27.6	63.6	2.65	4350	325	9.2	1.25	29.21	66	SH
MD175RAP-24HH**7	24	15~27.6	50.4	2.1	4200	310	8.8	1.15	26.67	64	HH
MD175RAP-24H**7	24	15~27.6	24	0.97	3800	285	8.1	1.05	26.67	58	H
MD175RAP-24M**7	24	17~28	13	0.52	2800	200	5.7	0.80	20.32	45	M
MD175RAP-24L**7	24	17~28	5	0.20	2000	145	4.1	0.56	14.22	36	L
MD175RAP-48SH**7	48	22~55	62.4	1.3	4350	325	9.2	1.25	29.21	66	SH
MD175RAP-48HH**7	48	22~55	49.4	1.03	4200	310	8.8	1.15	26.67	64	HH
MD175RAP-48H**7	48	22~55	23.5	0.48	3800	290	8.2	1.05	26.67	58	H
MD175RAP-48M**7	48	24~58	14.5	0.30	2800	200	5.7	0.80	20.32	45	M
MD175RAP-48L**7	48	24~60	5.8	0.12	2000	145	4.1	0.56	14.22	36	L

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

• Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

► Performance P-Q Curves

Motor

Motor Type: Microprocessor brushless DC Motor, auto cutoff, auto restart
 Burnout Protection: Electronically protected, polarity protected

Mechanical

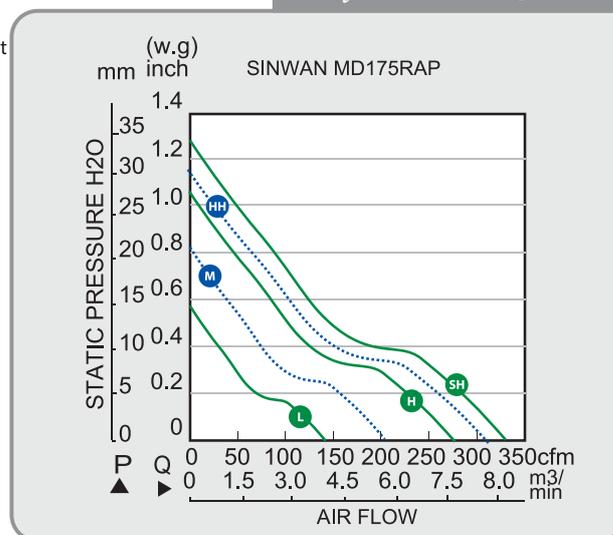
Frame: Aluminum die cast, black color(AP)
 Impeller: 7 blades, all metal
 Bearing: Two ball bearings
 Rotation: CW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 930 g

Electrical

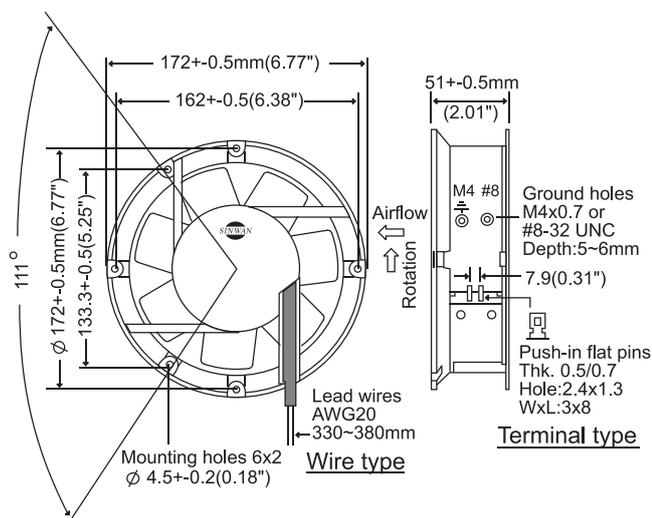
Dielectric Strength: 500 VAC/min. Max leakage 500mA
 Speed Control: Optional:PWM, S/C NTC thermister, S/V (0~10V) speed control on request
 Signal Output: Optional:R/D alarm output, tachometer output

Environment

Operating Temp: -20°C~+65°C (non-condensing)
 Storage Temp: -40°C~+80°C (at 65%RH)
 Life Expectancy: L10 50K hours at 50°C



► Outline Dimensions



Fan Accessories





172x150x51mm / 6x2inch

Max. 325 CFM

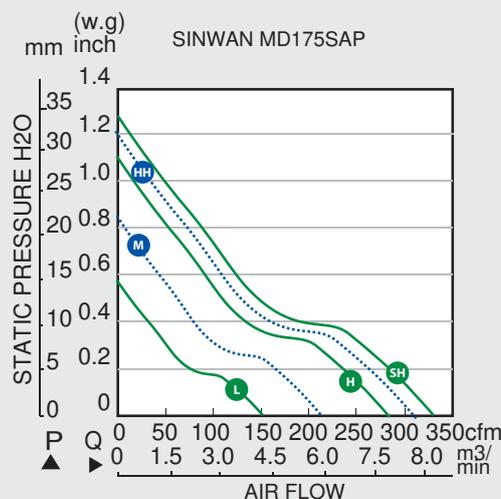
Metal Impeller DC Fan

Sinwan Model No.	Rated Voltage	Voltage Range	Input Power	Rated Current	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VDC	VDC	Watt	A	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
MD175SAP-12SH**7	12	8~14	64.8	5.4	4300	320	9.1	1.25	27.94	65	SH
MD175SAP-12HH**7	12	8~14	50.4	4.2	4100	300	8.5	1.2	26.67	63	HH
MD175SAP-12H**7	12	8~14	23	1.9	3700	275	7.8	0.95	24.13	55	H
MD175SAP-12M**7	12	9~14	13.2	1.1	2800	210	5.9	0.82	20.83	46	M
MD175SAP-12L**7	12	9~15	5.5	0.45	2000	150	4.2	0.58	14.73	37	L
MD175SAP-24SH**7	24	15~27.6	63.6	2.65	4350	325	9.2	1.25	31.75	66	SH
MD175SAP-24HH**7	24	15~27.6	50.4	2.1	4200	310	8.8	1.2	30.48	64	HH
MD175SAP-24H**7	24	15~27.6	24	0.97	3850	295	8.4	1.1	27.94	58	H
MD175SAP-24M**7	24	17~28	13	0.52	2800	210	5.9	0.82	20.83	45	M
MD175SAP-24L**7	24	17~28	5	0.20	2000	150	4.2	0.58	14.73	37	L
MD175SAP-48SH**7	48	22~55	62.4	1.3	4350	325	9.2	1.25	31.75	66	SH
MD175SAP-48HH**7	48	22~55	49.4	1.03	4200	310	8.8	1.2	30.48	64	HH
MD175SAP-48H**7	48	22~55	23.5	0.48	3850	295	8.4	1.1	27.94	58	H
MD175SAP-48M**7	48	24~58	14.5	0.30	2800	210	5.9	0.82	20.83	45	M
MD175SAP-48L**7	48	24~60	5.8	0.12	2000	150	4.2	0.58	14.73	37	L

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

• Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

► Performance P-Q Curves



Motor

Motor Type: Microprocessor brushless DC Motor, auto cutoff, auto restart
 Burnout Protection: Electronically protected, polarity protected

Mechanical

Frame: Aluminum die cast, black color(AP)
 Impeller: 7 blades, all metal
 Bearing: Two ball bearings
 Rotation: CW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 920 g

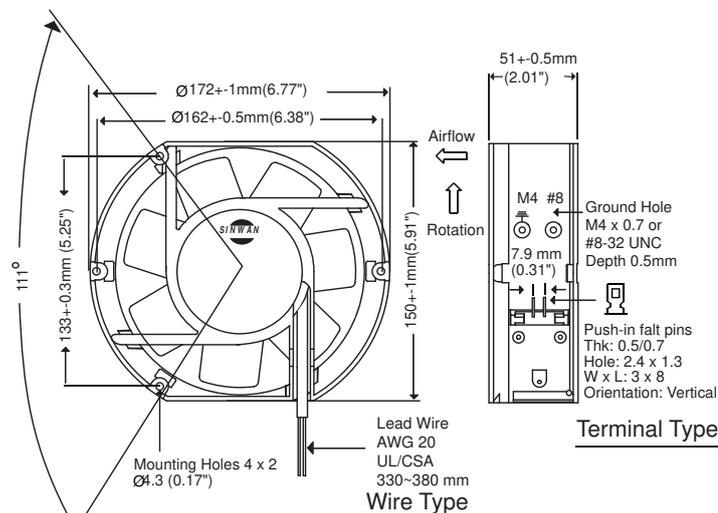
Electrical

Dielectric Strength: 500 VAC/min. Max leakage 500mA
 Speed Control: Optional:PWM, S/C NTC thermister, S/V (0~10V) speed control on request
 Signal Output: Optional:R/D alarm output, tachometer output

Environment

Operating Temp: -20°C~+65°C (non-condensing)
 Storage Temp: -40°C~+80°C (at 65%RH)
 Life Expectancy: L10 50K hours at 50°C

► Outline Dimensions



Fan Accessories

- Metal Fan Guards
G172-10H, G172-10HA
P.39
- Plastic Fan Guards
G172P
P.40
- Plastic Fan Filter
GRM172-30, GRM172-45
P.41
- Metal Fan Screens
MF172S-30N
P.42





172x150x38.5mm / 6x1.5inch

Max. 270 CFM

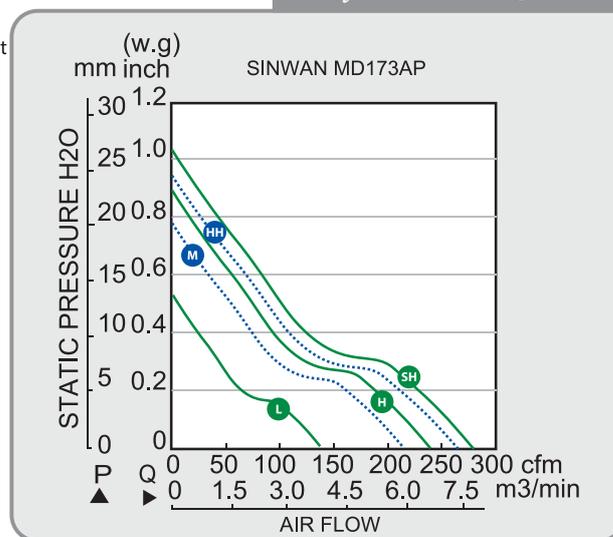
Metal Impeller DC Fan

Sinwan Model No.	Rated Voltage	Voltage Range	Input Power	Rated Current	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VDC	VDC	Watt	A	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
MD173AP-12SH**	12	7~13.8	64.8	5.4	4200	260	7.4	0.98	24.89	63	SH
MD173AP-12HH**	12	7~13.8	50.4	4.2	4000	250	7.1	0.93	23.62	61	HH
MD173AP-12H**	12	7~13.8	23	1.9	3800	230	6.5	0.90	22.86	57	H
MD173AP-12M**	12	7~13.8	13.2	1.1	3300	215	6.1	0.79	20.07	46	M
MD173AP-12L**	12	5.5	5.5	0.45	2000	130	3.7	0.5	12.7	39	L
MD173AP-24SH**	24	15~27.6	63.6	2.65	4300	270	7.6	1.03	26.16	64	SH
MD173AP-24HH**	24	15~27.6	50.4	2.1	4100	255	7.2	0.94	23.88	62	HH
MD173AP-24H**	24	15~27.6	24	0.97	3850	240	6.8	0.93	23.62	57	H
MD173AP-24M**	24	15~27.6	13	0.52	3300	215	6.1	0.79	20.07	46	M
MD173AP-24L**	24	15~28	5	0.20	2000	130	3.7	0.5	12.7	39	L
MD173AP-48SH**	48	22~53	62.4	1.3	4300	270	7.6	1.03	26.16	64	SH
MD173AP-48HH**	48	22~53	49.4	1.03	4100	255	7.2	0.94	23.88	62	HH
MD173AP-48H**	48	22~55	23.5	0.48	3850	240	6.8	0.93	23.62	57	H
MD173AP-48M**	48	22~58	14.5	0.30	3300	215	6.1	0.79	20.07	46	M
MD173AP-48L**	48	22~60	5.8	0.12	2000	130	3.7	0.5	12.7	39	L

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

• Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

▶ Performance P-Q Curves



Motor

Motor Type: Microprocessor brushless DC Motor, auto cutoff, auto restart
 Burnout Protection: Electronically protected, polarity protected

Mechanical

Frame: Aluminum die cast, black color(AP)
 Impeller: 5 blades, all metal
 Bearing: Two ball bearings
 Rotation: CW seen on rotor
 Connection: Wire lead or terminal flat pin connecting
 Weight: 640 g

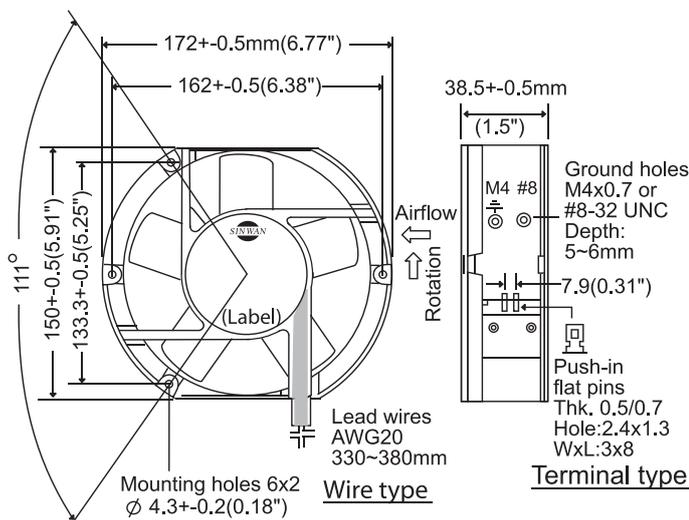
Electrical

Dielectric Strength: 500 VAC/min. Max leakage 500mA
 Speed Control: Optional:PWM, S/C NTC thermister, S/V (0~10V) speed control on request
 Signal Output: Optional:R/D alarm output, tachometer output

Environment

Operating Temp: -20°C~+65°C (non-condensing)
 Storage Temp: -40°C~+80°C (at 65%RH)
 Life Expectancy: L10 50K hours at 50°C

▶ Outline Dimensions



Fan Accessories





Dia.120x120x38mm / 4.7x1.5inch

Max. 140 CFM

Metal Impeller DC Fan, High Performance

Sinwan Model No.	Rated Voltage	Voltage Range	Input Power	Rated Current	Referenced Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ Curves
	VDC	VDC	Watt	A	RPM	CFM	m3/min	Inch/H2O	mm	dB (A)	
MD1238AP-05EH**	5	4~6	15	3	3200	120	3.4	0.42	10.67	44	SH
MD1238AP-05SH**	5	4~6	9.5	1.9	2800	103	2.9	0.37	9.4	41	HH
MD1238AP-05HH**	5	4~6	8	1.6	2500	94	2.7	0.35	8.89	36	H
MD1238AP-12EH**	12	8~13.8	15	1.3	3800	140	4	0.45	11.43	46	EH
MD1238AP-12SH**	12	8~13.8	10.6	0.88	3200	120	3.4	0.40	10.16	41	SH
MD1238AP-12HH**	12	10~13.8	8.4	0.7	3000	110	3.1	0.38	9.65	41	HH
MD1238AP-12H**	12	8~13.8	6	0.5	2500	94	2.7	0.35	8.89	35	H
MD1238AP-24EH**	24	12~27.6	15	0.62	3800	140	4	0.45	11.43	47	EH
MD1238AP-24SH**	24	12~27.6	10.3	0.43	3600	130	3.7	0.40	10.16	45	SH
MD1238AP-24HH**	24	12~27.6	8.4	0.35	3000	110	3.1	0.38	9.65	41	HH
MD1238AP-38EH**	38	24~44	15	0.4	3800	140	4	0.45	11.43	47	EH
MD1238AP-38SH**	38	24~44	10.5	0.28	3200	120	3.4	0.40	10.16	45	SH
MD1238AP-48EH**	48	38~55	15	0.32	3800	140	4	0.45	11.43	47	EH
MD1238AP-48SH**	48	38~55	10.6	0.22	3600	130	3.7	0.40	10.16	45	SH
MD1238AP-48HH**	48	38~55	7.7	0.16	3000	110	3.1	0.38	9.65	41	HH

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

• Sinwan reserves the right to change data and improve electrical & mechanical design without notice. data tolerance +-10%

Motor

Motor Type: Brushless DC motor, alarm, tach, pwm, thermal speed controls

Burnout Protection: Electronically protected, polarity protected

Mechanical

Frame: Aluminum die cast, black color(AP)

Impeller: 5 blades, all metal

Bearing: Two ball bearings

Rotation: CCW seen on rotor

Connection: Wire lead or terminal flat pin connecting

Weight: 440g

Electrical

Dielectric Strength: 500 VAC/min. Max leakage 500mA

Speed Control: Optional:PWM, S/C NTC thermister, S/V (0~10V) speed control on request

Signal Output: Optional:R/D alarm output, tachometer output

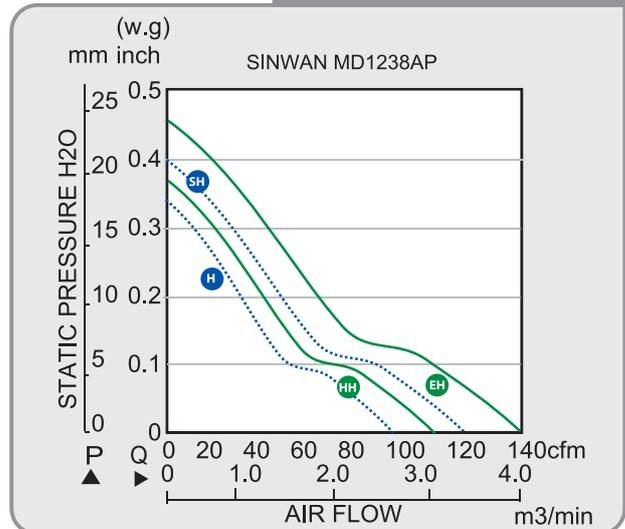
Environment

Operating Temp: -20°C~+65°C (non-condensing)

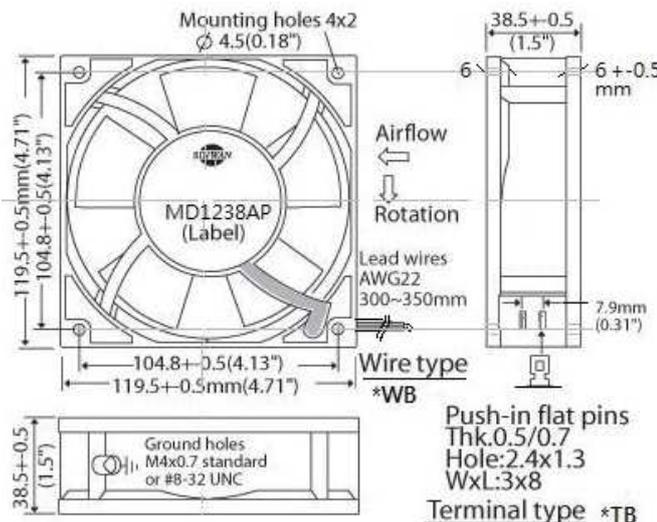
Storage Temp: -25°C~+80°C (at 65%RH)

Life Expectancy: L10 80K hours at 45°C, 40K hours at 55°C

► Performance P-Q Curves



► Outline Dimensions



Fan Accessories

- Metal Fan Guards
G109-15A, G109-15B, G109-17
P.39
- Plastic Fan Guards
G119P2, G119P4, G120P
G120P2, G120P25F, G120P4
P.40
- Plastic Fan Filter
GRM120-30, GRM120-45
P.41
- Metal Fan Screens
MF120S-30N
P.42

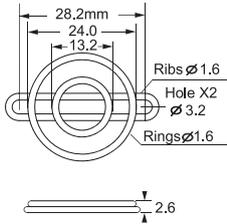


Fan Accessories

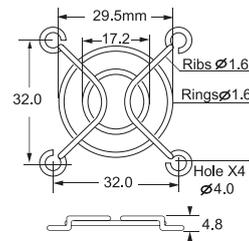
Metal Fan Guards

Steel wires, electroplated finish cosmetics, nickel chrome plated, bright color.
 Black color electro deposit available on request.
 Welding joints strength to meet UL Standards minimum 100kgs (220 lbs) separation force.
 Patterned push-on type wire form metal guards are available on request.
 Customer's design is acceptable & welcome!

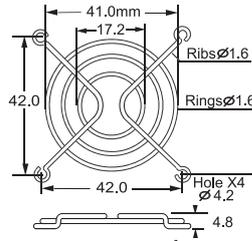
25mm(1") G25-2U



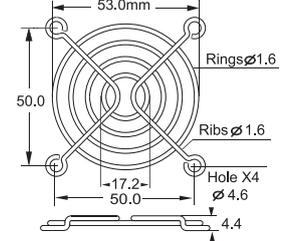
40mm(1.57") G40-2



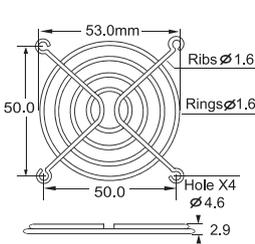
50mm(2") G50-3



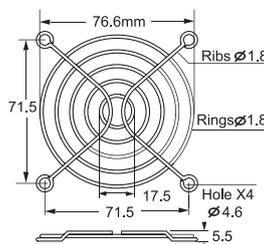
60mm(2.36") G60-4



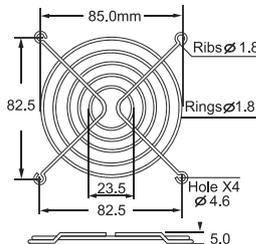
60mm(2.36") G60-4F



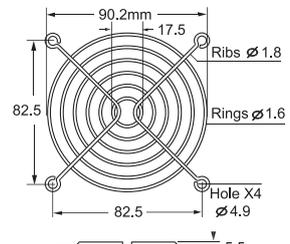
80mm(3.15") G80-18



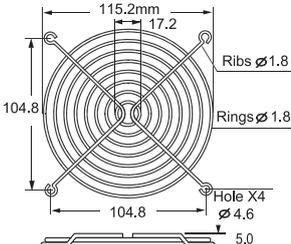
92mm(3.62") G92-13



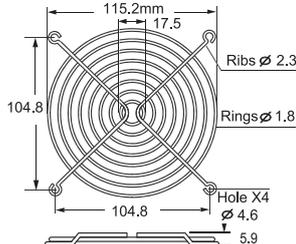
92mm(3.62") G92-16



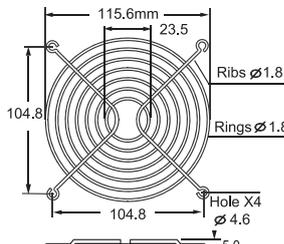
120mm(4.7") G109-15A



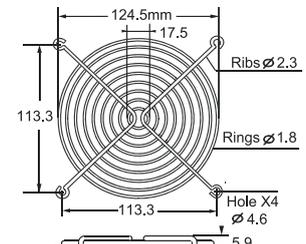
120mm(4.7") G109-15B



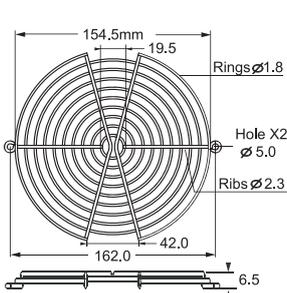
120mm(4.7") G109-17



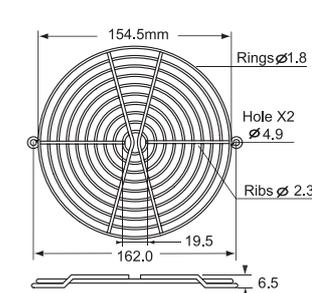
127mm(5") G127-8



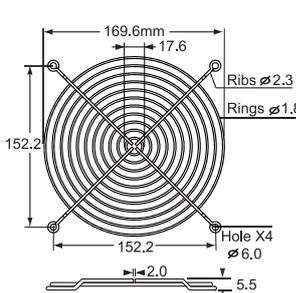
172mm(6") G172-10H



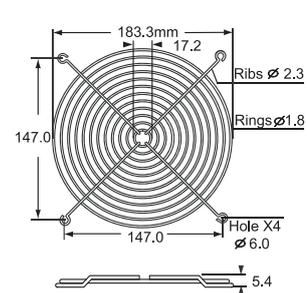
172mm(6") G172-10HA



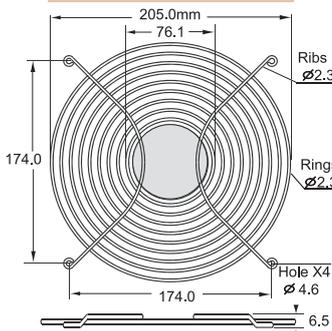
180mm(7") G180-11



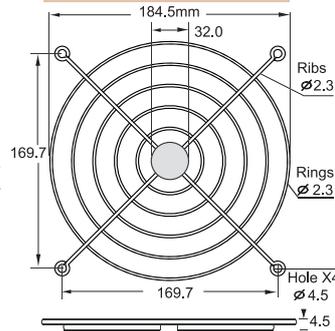
200mm(7.87") G200-12



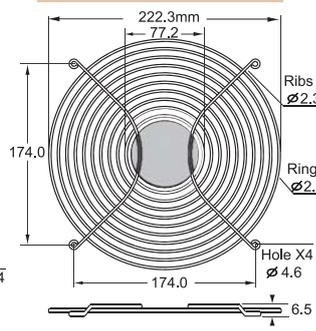
205mm(8.07") G205-8D



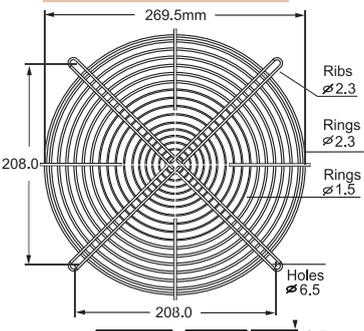
225mm(8.9") G225-5DF



254mm(10") G254-9D



280mm(11") G280-17U

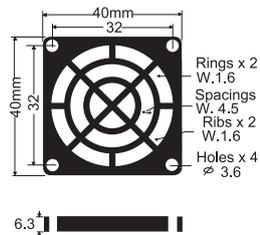


Fan Accessories

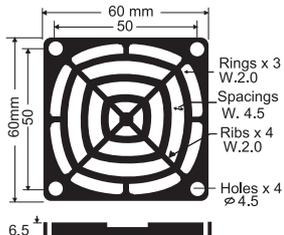
Plastic Fan Guards

Glass fiber reinforced ABS UL-94-V0 for thru hole types (Gxx-P4 series)
 Reinforced thermoplastic Nylon UL94HB for push-on types(Gxx-P2 series)
 Quality and safety guards full range from 25-300mm (1-11 inch).
 Customers' designs and special specifications are welcome!

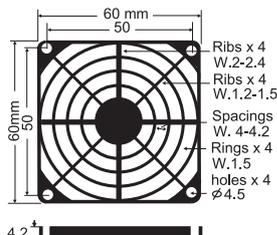
40mm(1.57") G40P



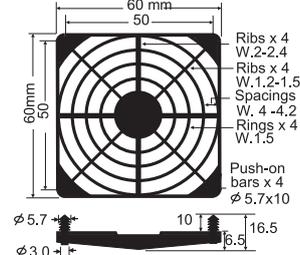
60mm(2.36") G60P



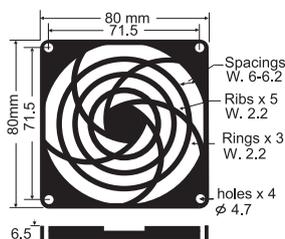
60mm(2.36") G60P4



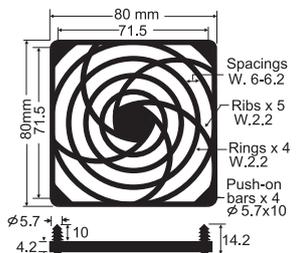
60mm(2.36") G60P2



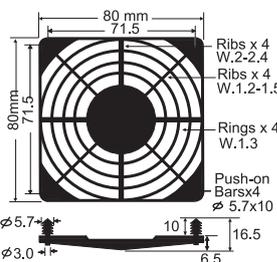
80mm(3.15") G80P



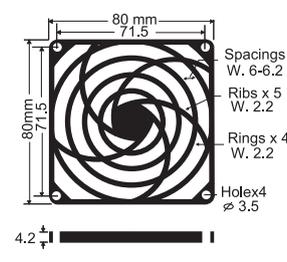
80mm(3.15") G80P2



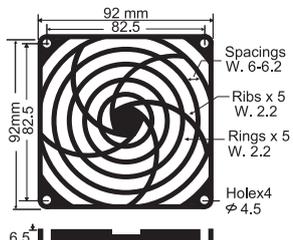
80mm(3.15") G80P2A



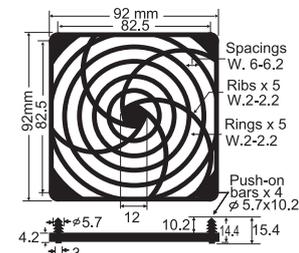
80mm(3.15") G80P4



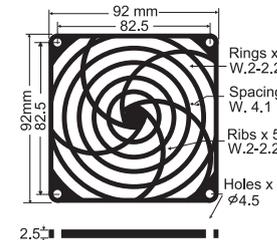
92mm(3.62") G92P



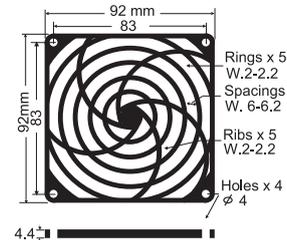
92mm(3.62") G92P2



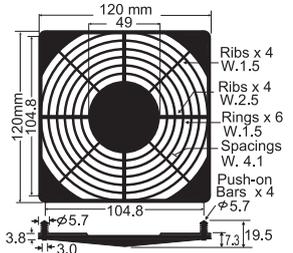
92mm(3.62") G92P5F



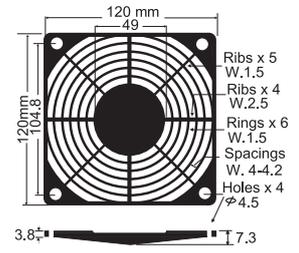
92mm(3.62") G92P4



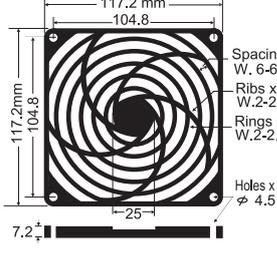
120mm(4.7") G119P2



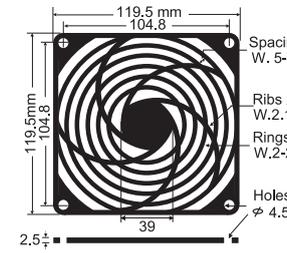
120mm(4.7") G119P4



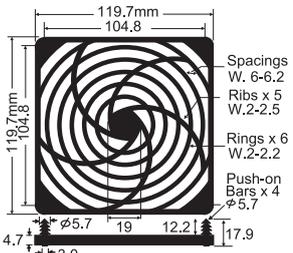
120mm(4.7") G120P



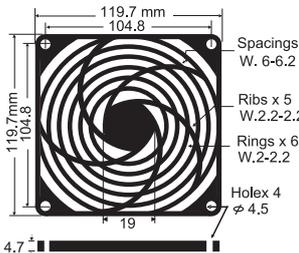
120mm(4.7") G120P25F



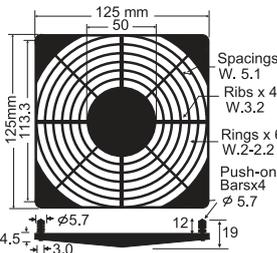
120mm(4.7") G120P2



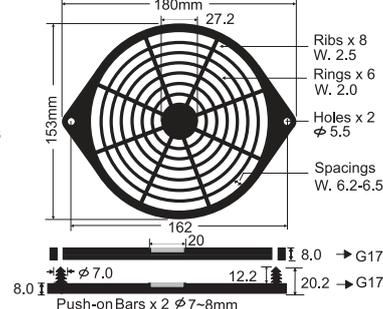
120mm(4.7") G120P4



127mm(5") G127P2



150, 172mm(3.15") G172P/172P2

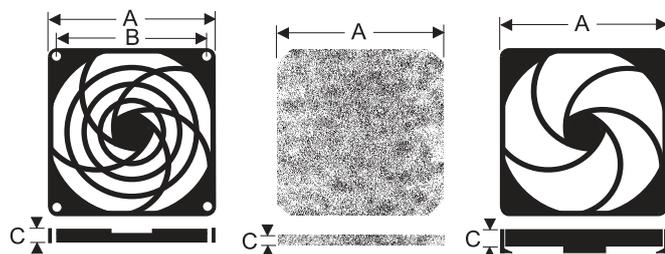
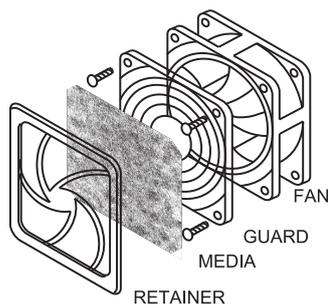


Fan Accessories

Plastic Filter Kit

Miniature	For Fan Size	Part No.	Description	Dimension (mm)		
				A	B	C
	1 9/16" 40 □ mm	G40P	Guard	40.0	32	6.3
		R40P	Retainer	37.0		3.2
		M40-30,45	Media 30 or 45 PPI	37.0		3.0
		GRM 40-30	Guard + Retainer + Media 30 PPI	40.0	32	6.3
		GRM 40-45	Guard + Retainer + Media 45 PPI	40.0	32	6.3
	2 3/8" 60 □ mm	G60P	Guard	60.0	50	6.5
		R60P	Retainer	56.2		3.2
		M60-30,45	Media 30 or 45 PPI	57.0		3.0
		GRM 60-30	Guard + Retainer + Media 30 PPI	60.0	50	6.5
		GRM 60-45	Guard + Retainer + Media 45 PPI	60.0	50	6.5
	3 1/8" 80 □ mm	G80P	Guard	80.0	71.5	6.5
		R80P	Retainer	83.6		9.8
		M80-30,45	Media 30 or 45 PPI	78.0		3.0
		GRM 80-30	Guard + Retainer + Media 30 PPI	83.6	71.5	9.8
		GRM 80-45	Guard + Retainer + Media 45 PPI	83.6	71.5	9.8
	3 5/8" 92 □ mm	G92P	Guard	92.0	82.5	6.4
		R92P	Retainer	96.5		9.9
		M92-30,45	Media 30 or 45 PPI	90.0		3.0
		GRM 92-30	Guard + Retainer + Media 30 PPI	96.5	82.5	9.9
		GRM 92-45	Guard + Retainer + Media 45 PPI	96.5	82.5	9.9
	4 11/16" 120 □ mm	G120P	Guard	117.0	104.8	7.2
		R120P	Retainer	123.7		10.8
		M120-30,45	Media 30 or 45 PPI	115.0		3.0
		GRM 120-30	Guard + Retainer + Media 30 PPI	123.7	104.8	10.8
		GRM 120-45	Guard + Retainer + Media 45 PPI	123.7	104.8	10.8
	6" Ø172,150mm	G172P	Guard	Ø180 x Ø153 x 8 Ø180 x Ø153 x 8 Ø180 x Ø153 x 8		
		R172P	Retainer			
		M172-30,45	Media 30 or 45 PPI			
		GRM 172-30	Guard + Retainer + Media 30 PPI			
		GRM 172-45	Guard + Retainer + Media 45 PPI			

Material: * PU foam for media, mesh 30 or 45 PPI for choice
 * Reinforced ABS UL94-V0 for guard & retainer
 * Standard color black. Any other colors are available on request



Fan Accessories

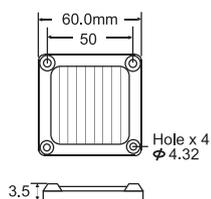
Metal Fan Screens

General Description

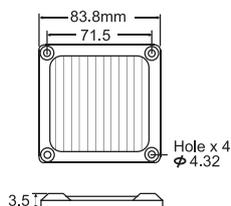
- Tightly woven steel corrugated mesh screen encased in a formed aluminum frame (*Woven aluminum corrugated mesh screen on request)
- Screen hole mesh 30 PPI normally
- Built for ruggedness and durability, cleanable and easy for service
- Decreasing noise level while creating low air restriction
- To provide maximum airflow with effective filtering
- Different finishes are available for cosmetic purposes



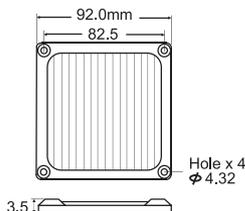
60mm(2.36")
MF60S-30N



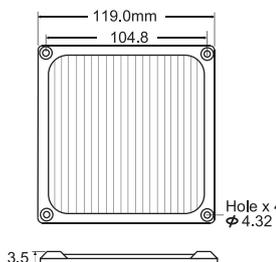
80mm(3.15")
MF80S-30N



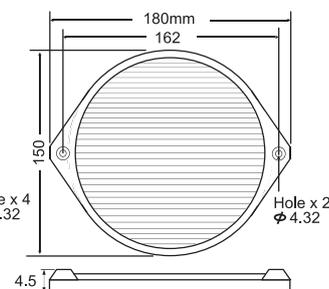
92mm(3.62")
MF92S-30N



120mm(4.7")
MF120S-30N



172mm(6")
MF172S-30N



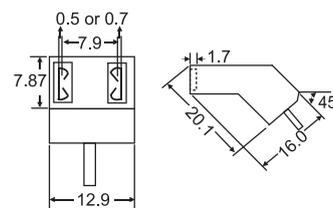
Fan Power Cords

Specifications:

- * Choice of push-in fan terminal pin thickness 0.5 or 0.7mm, to connect 0.5 or 0.7mm fit tab
- * High quality fan plug cords are designed to fit any fans, with cord SPT-1, AWG 18 x 2C, 105C, UL/CSA.
- * Cord lengths described in mm. any lengths will be available on request.
- * Cord ends stripped & tinned or terminated, with connectors available on request.
- * Daisy chains with provisions for multiple fan connections available with any of the four plug head designs or a mixture of the various configurations. Designed to customer's specification.
- * Daisy Chains Model No:
DSC180-05-XXX-AB*-BC*...-XX
DSC180-05 = Series C45-05/07, C180-05/07, C180B-05/07
XXX = 2AB, 3ABC, 4ABCD, 5ABCDE ...numbers of plug
-AB*-BC*-CD*... * = mm, cord L. between plugs A-B,B-C,C-D..
XX = end cord length, mm

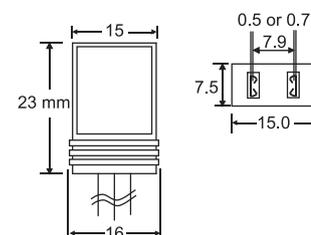
C45-05, C45-07

Angled 45 Degree Type 0.5mm or 0.7mm push-in fit tab



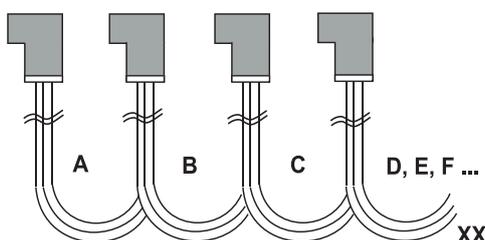
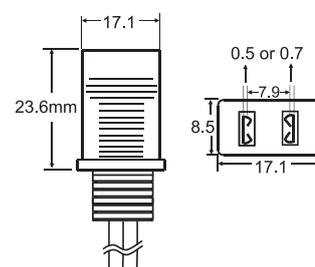
C180-05, C180-07

Straight Type 0.5mm or 0.7mm push-in fit tab



C180B-05, C180B-07

Straight Type 0.5mm or 0.7mm push-in fit tab



SINWAN AC Motors

Outer Rotor



ME A280G (Dia.92 x L.100)
Max. Loading 210W



ME A254G (Dia.92 x L.88)
Max. Loading 105W



ME A180G (Dia.92 x L.80)
Max. Loading 80W



ME A176F (Dia.74.5 x L.70)
Max. Loading 70W



ME A172E (Dia.74.5 x L.63)
Max. Loading 47W



ME A150 (Dia.74.5 x L.44)
Max. Loading 40W



ME A127 (Dia.59 x L.39)
Max. Loading 29W



ME A109 (Dia.59 x L.36)
Max. Loading 21W



ME A1232 (Dia.59 x L.29)
Max. Loading 19W



ME A938 (Dia.59 x L.36)
Max. Loading 17W



ME A838 (Dia.59 x L.36)
Max. Loading 15W

Inner Rotor



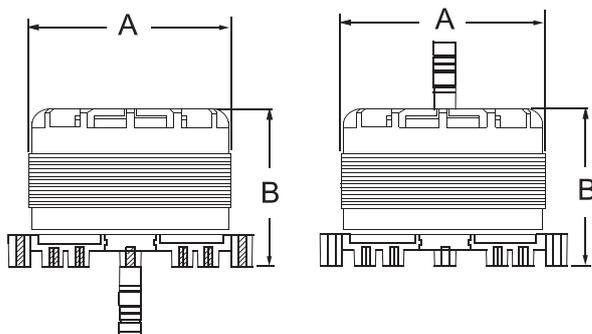
MIA109 (Dia.59.5 x L.41)
Max. Loading 20W



MIA825 (Dia.59.5 x L.33)
Max. Loading 13W

SINWAN Email: sinwanfan@sinwan.com.tw http://www.sinwan.com.tw

Information



Model No./Series	Dimensions AxB mm
ME A280G	Dia.92 x L.100
ME A254G	Dia.92 x L.88
ME A180G	Dia.92 x L.80
ME A176F	Dia.74.5 x L.70
ME A172E	Dia.74.5 x L.63
ME A150	Dia.74.5 x L.44
ME A127	Dia.59 x L.39
ME A109	Dia.59 x L.36
ME A1232	Dia.59 x L.29
ME A938	Dia.59 x L.36
ME A838	Dia.59 x L.36
MIA109	Dia.59 x L.36
MIA825	Dia.59.5 x L.33

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice.

SINWAN DC Motors



MED280GAN (Dia.89 x L.85mm)
Max. Loading 150W



MED254GAN (Dia.89 x L.85mm)
Max. Loading 120W



MED178AN (Dia.77.4 x L.56mm)
Max. Loading 70W



MED175AN (Dia.77.4 x L.51mm)
Max. Loading 60W



MED173AN (Dia.77.4 x L.43mm)
Max. Loading 30W



MED127AN (Dia.60 x L.42mm)
Max. Loading 16W



MED1238AN (Dia.60 x L.42mm)
Max. Loading 12W

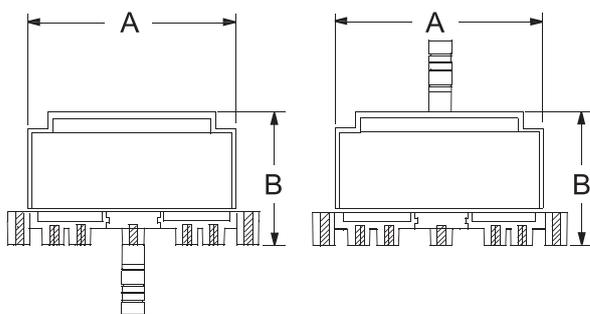


MED1225AN (Dia.60 x L.32mm)
Max. Loading 8W



MED8025PT (Dia.32.5 x L.23mm)
Max. Loading 4W

Information



Model No./Series	Dimensions AxB mm
MED280GAN	Dia.89 x L.85
MED254GAN	Dia.89 x L.85
MED178AN	Dia.77.4 x L.56
MED175AN	Dia.77.4 x L.51
MED173AN	Dia.77.4 x L.43
MED127AN	Dia.60 x L.42
MED1238AN	Dia.60 x L.42
MED1225AN	Dia.60 x L.32
MED8225PT	Dia.32.5 x L.23

• Sinwan reserves the right to change data and improve electrical & mechanical design without notice.



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