| Frame Size | Fan Series | Plastic Finger Guards | | .25" Plastic Filter with Foam Pad | Metal Finger Guard | Plug & Cord Set | Shock & Vibration Mount | Spacer | Mounting Screw Clip | Metal Mesh Filter | Screen | Bracket | Temp Sensor |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Barbed Insert | Thru Holes | | | | | | | | | | |
| 40 mm | **400, 400F, 400J** | | | | LZ29-1 | | | | | | | | |
| 60 mm | **600, 600F, 600N, 600NG, 600NV, 620** | | | | LZ28 | | | | | | | | |
| 60 mm | **620J** | | | | LZ28-1 | | | | | | | | |
| 80 mm | **8200J** | LZ32-3 | LZ32-2 | | LZ32-4 | | | | | | | | |
| 80 mm | **8000A, 8000N, 8000V, 8100** | LZ32-3 | LZ32-2, LZ32P | 10020-1-5170 | LZ22N | LZ120, LZ126 | 2678-2-2945 | | | LZ60-8 | | | |
| 80 mm | **8300, 8300V** | | | | LZ22N | | | LZ260 | LZ212 | LZ60-8 | | | LZ370 |
| 80 mm | **8400, 8400N, 8400V** | | | | LZ22N | | | LZ261 | | LZ60-8 | | | LZ370 |
| 92 mm | **3000, 3600, 3900** | LZ23-3 | LZ23-2 | 10023-1-5170 | LZ23 | LZ120, LZ126 | | | | | | | |
| 92 mm | **3300, 3300V** | LZ23-3 | LZ23-2 | | LZ23 | | | LZ260 | LZ212 | | | | LZ370 |
| 92 mm | **3400, 3400N, 3400NV** | LZ23-3 | LZ23-2 | | LZ23 | | | LZ261 | | | | | LZ370 |
| 92 mm | **3200J** | | | | LZ23-1 | | | | | | | | |
| 119 mm | **4000, 4000AX, 4000N, 4000Z, 4100N, 4200, 4200N, 4400F, 4600N, 4600AX** | LZ30-6 | LZ30-5, LZ30P | 10021-1-5170 | LZ30 | LZ120, LZ126 | 2678-2-2945 | | LZ210 | LZ60 | LZ40N | LZ40-1 | |
| 119 mm | **4300, 4300N, 4300V** | LZ30-6 | LZ30-5, LZ30P | | LZ30 | | | LZ260 | LZ212 | | | | LZ370 |
| 119 mm | **DV4100** | LZ30-6 | LZ30-5 | | LZ30 | | | | | | | | |
| 119 mm | **9900** | LZ30-6 | LZ30-5, LZ30P | 10021-1-5170 | LZ30 | | | | LZ210 | LZ60 | LZ40N | LZ40-1 | |
| 127 mm | **W2G115** | | 88601-2-2929 | 10024-1-5170 | 09496-2-4039<br>50951-2-4039 | 01433-4-6711<br>01478-4-6711<br>01357-4-6711 | | | | | | | |
| 127 mm | **W2K121** | | | 10024-1-5170 | | | | | | | | | |
| 127 mm | **5200N, DV5200, 5900** | LZ33-2 | LZ33-1 | | LZ35 | | | | LZ210 | | | | |
| 135 mm | **5100N, 5600** | | | | LZ25 | LZ120, LZ126 | | | LZ210 | | | | |
| 150 mm | **W2G130** | | | | 09498-2-4039 | | | | | | | | |
| 150 mm | **W2S130** | | | | 09498-2-4039<br>50950-2-4039 | | | | | | | | |
| 150 mm | **7100N, 7200N** | | | | LZ24 | | | | LZ210 | | | | |
| 150 mm | **W2E142** | | | | 03749-2-4039<br>50950-2-4039 | 01434-4-6711<br>01477-4-6711<br>01505-4-6711 | | | | | | | |
| 172 mm | **6200N, 6200NT, 6200NTD** | | | | LZ37 | LZ120, LZ126 | | | LZ215 | | | | |
| 172 mm | **6400, DV6400, 6400T** | | | | LZ38 | | | | | | | | |
| 172 mm | **DV6200, DV6200TD** | | | | LZ37 (inlet)<br>LZ39 (exhaust) | | | | | | | | |
| 172 mm | **W2E143** | | | | 04013-2-4039 | 01434-4-6711<br>01477-4-6711<br>01505-4-6711 | | | | | | | |
| 200 mm | **W1G180** | | | | 26388-2-4039 | | | | | | | | LZ370 |
| 225 mm | **W1G200T** | | | | 78128-2-4039 | | | | | | | | |
| 225 mm | **W2E200T** | | | | 78128-2-4039 | | | | | | | | |
| 280 mm | **W1G250T** | | | | 09418-2-4039 | | | | | | | | |
| 280 mm | **W2E250T** | | | | 09418-2-4039 | | | | | | | | |
| | **VARIOFAN** | | | | | | | | | | | | LZ370 |

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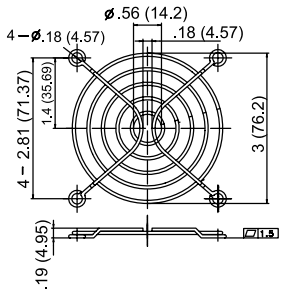
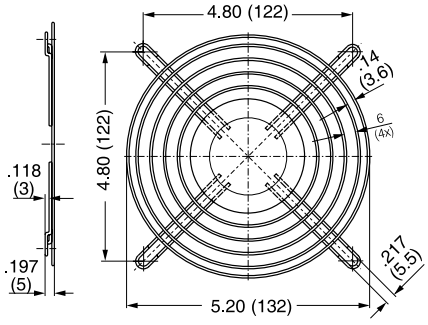
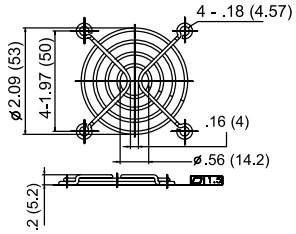
## LZ22N Series 8000



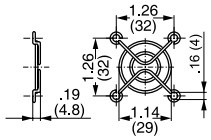

## LZ25 Series 5100/5600



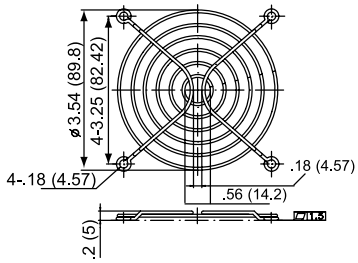

## LZ28 Series 600



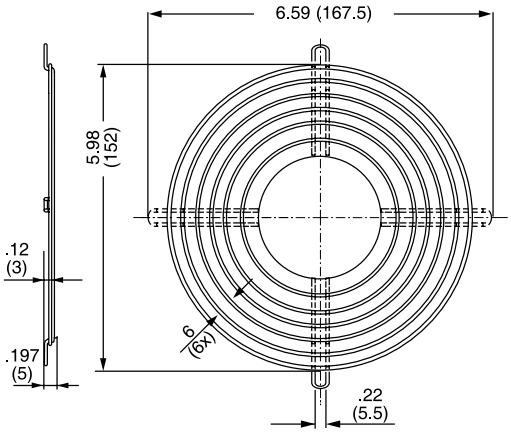

## LZ29-1 Series 400



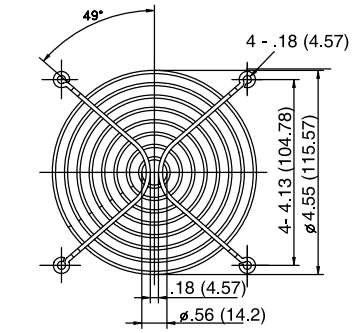

## LZ23 Series 3000




## LZ26 Series 6000

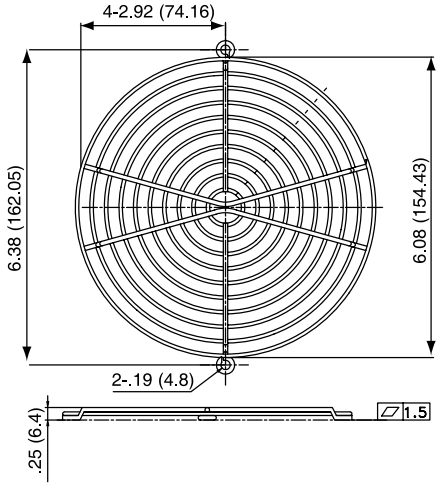



## LZ30/LZ30F Series 4000/9000

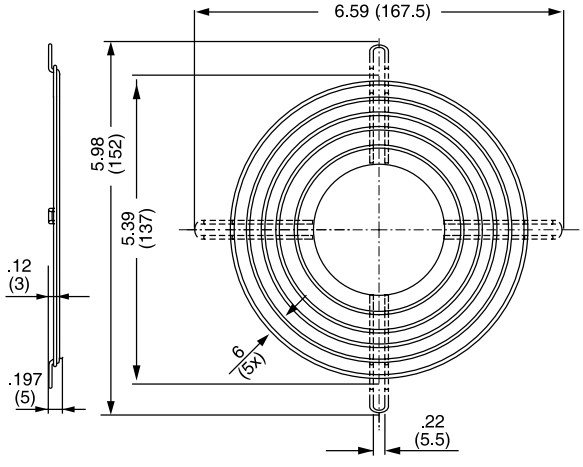



| Type | A |
|---|---|
| LZ30 | .22 (5.66) |
| LZ30F | .16 (4.06) |

## LZ24 Series 7000




## LZ27 Series 7000





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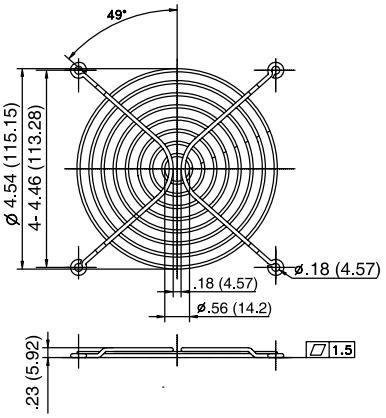
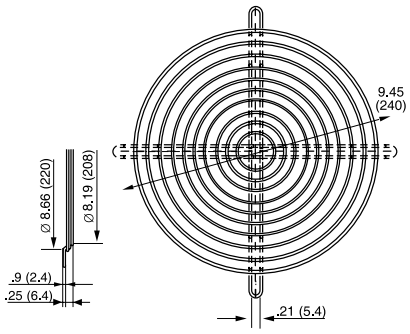
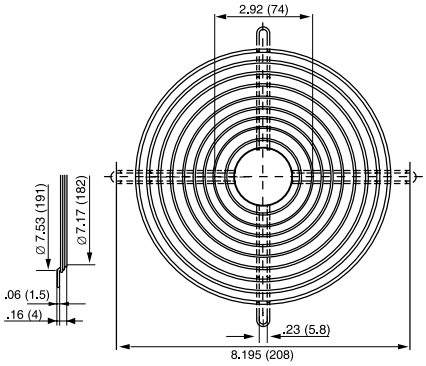
**09496-2-4039-1** Series W2G115



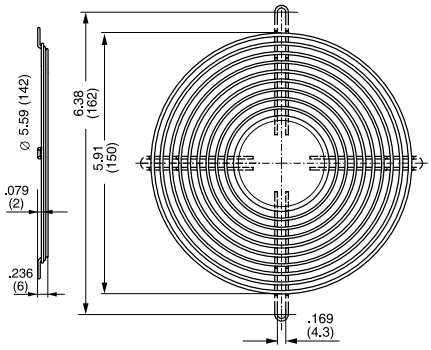

**78128-2-4039** Series W1G200/W2E200



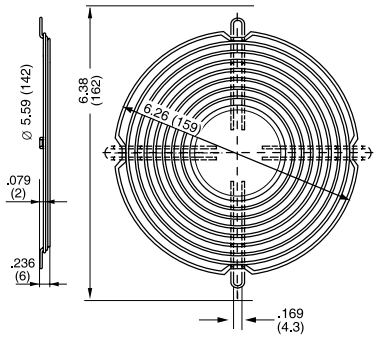

**26388-2-4039** Series W1G180



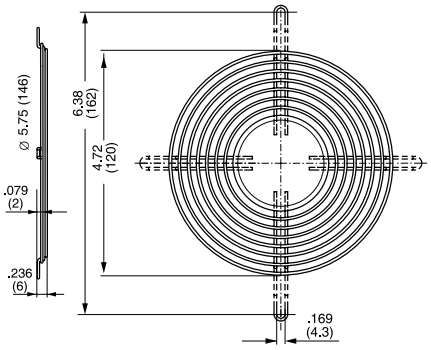

**50950-2-4039** Series W2E142




**50952-2-4039** Series W2E143




**50951-2-4039** Series W2G115




## Part Number Changes -

| Old Part | New Part |
|---|---|
| 9480-2-4039-1 | LZ22N |
| 9483-2-4039-1 | LZ23 |
| 9497-2-4039-1 | LZ30 |
| 9497-2-4039-2 | LZ30F |
| 9498-2-4039-1 | LZ24 |
| 92163-2-2929 | LZ32P |
| 92165-2-2929 | LZ30P |



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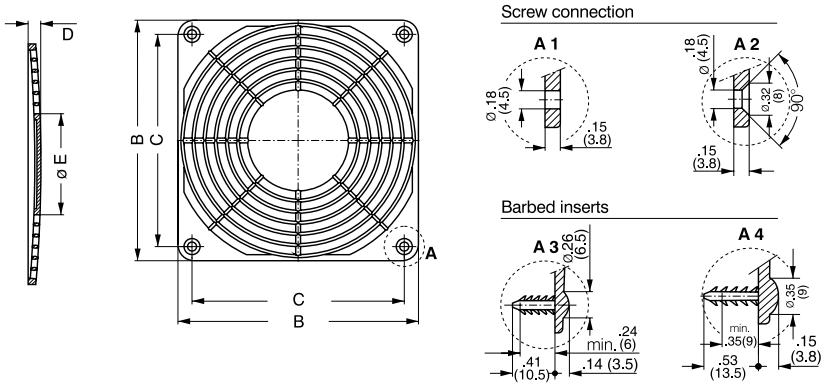
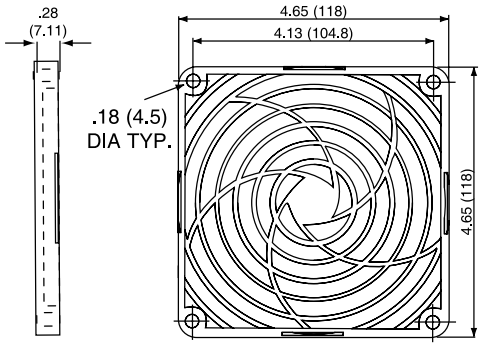
| Part Number | Fan series |
|---|---|
| LZ32-2 | 8000 |
| LZ32-3 | 8000 |
| LZ32P | 8000 |
| LZ23-2 | 3000 |
| LZ23-3 | 3000 |
| LZ30-5 | 9000 |
| LZ30-6 | 9000 |
| LZ30P | 9000 |
| LZ30-5 | 4000 |
| LZ30-6 | 4000 |
| LZ30P | 4000 |
| LZ33-1 | 5200 |
| LZ33-2 | 5200 |
| LZ33-1 | 5900 |
| LZ33-2 | 5900 |

Dimensions LZ 32..

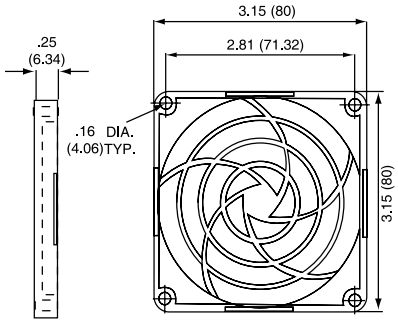
| Finger Guards | Mounting | B | C | D | E |
|---|---|---|---|---|---|
| LZ32-2 | A 1 | 3.15 (80) | 2.82 (71.5) | .28 (7) | 1.34 (34) |
| LZ32-3 | A 3 | 3.15 (80) | 2.82 (71.5) | .28 (7) | 1.34 (34) |
| LZ23-2 | A 1 | 3.64 (92.5) | 3.25 (82.5) | .26 (6.5) | 1.81 (46) |
| LZ23-3 | A 3 | 3.64 (92.5) | 3.25 (82.5) | .26 (6.5) | 1.81 (46) |
| LZ30-5 | A 2 | 4.69 (119) | 4.14 (105) | .26 (6.5) | 1.97 (50) |
| LZ30-6 | A 4 | 4.69 (119) | 4.14 (105) | .26 (6.5) | 1.97 (50) |
| LZ33-1 | A 2 | 5.0 (127) | 4.47 (113.5) | .26 (6.5) | 1.97 (50) |
| LZ33-2 | A 4 | 5.0 (127) | 4.47 (113.5) | .26 (6.5) | 1.97 (50) |




## LZ30P




## LZ32P

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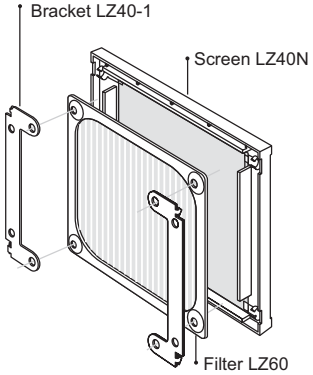
| Part Number | Series |
|---|---|
| LZ212 | 8300 |
| LZ260 | 8300 |
| LZ261 | 8400 |
| LZ212 | 3300 |
| LZ260 | 3300 |
| LZ210 | 9000 |
| LZ40N | 9000 |
| LZ40-1 | 9000 |
| LZ60 | 9000 |
| LZ210 | 4000 |
| LZ40N | 4000 |
| LZ40-1 | 4000 |
| LZ60 | 4000 |
| LZ212 | 4300 |
| LZ260 | 4300 |
| LZ210 | 5100 |
| LZ210 | 5600 |
| LZ210 | 5200 |
| LZ210 | 5900 |
| LZ210 | 7000 |
| LZ370 | VARIOFAN |

## Filter Kit for 119mm fans

| | |
|---|---|
| 10016-1-5170 | Grill Guard |
| 10017-1-5170 | Grill Guard and Filter |
| 10018-1-5170 | Grill Guard, Filter, Spacer |

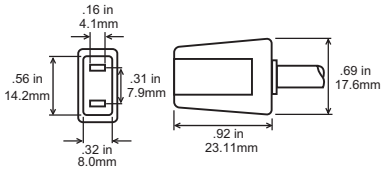
## LZ 40N / LZ 40-1 / LZ 60

LZ40N of black, fiberglass reinforced plastic with inserted aluminium wire mess LZ60. Mounting with brackets LZ40-1.




## LZ 120

Connecting cable with molded plug. (PVC, black). Stranded wires with multi-core cable ends. For all types of fans with flat pins .12 x .02 in (3.0 x 0.5 mm).




| Type | Cable Length in. (mm) | Pins |
|---|---|---|
| **LZ120** | 24 (610) | .02 (.5) |
| **LZ126** | 39.4 (1000) | .02 (.5) |
| Additional versions are available on special order | | |

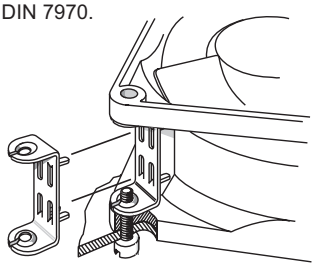
## Plug and Cord Sets

.1 10 x .02 inch (2.8 x .5 mm)

| RIGHT ANGLE | CONNECTION |
|---|---|
| 24 inch (610mm) | 1434-4-6711-1 |
| 36 inch (914mm) | 1434-4-6711-3 |
| 80 inch (2032mm) | 1434-4-6711-80 |

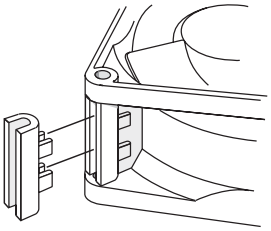
## LZ 212

Screw clip of rust-resistant spring steel. For mounting fans with threaded pin 3.5 DIN 7970.



## LZ 260 / LZ 261

Spacer of fiberglass reinforced plastic. For screw mounting over both fan and mounting flanges.



## LZ 370

Temperature sensor for speed-controlled fan operation. Temperature range 30...50 C.

Required performance date:

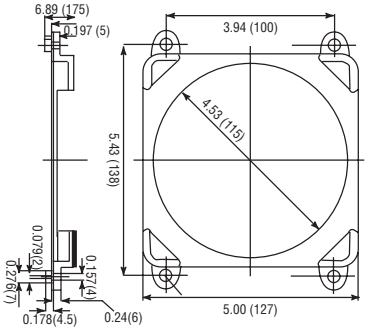
| | |
|---|---|
| $R_{25}$ | = 100 KΩ ±5% |
| B-value | = 4190 ± 2% |
| $P_{max}$ | = 0,25 W |

## LZ 210

Screw clip of hardened steel. For mounting fans with threaded pin 6-32 UNC and/or 3.5 DIN 7970.

## 2678-2-2945

Plastic shock and vibration mount for 119/120 mm fans.





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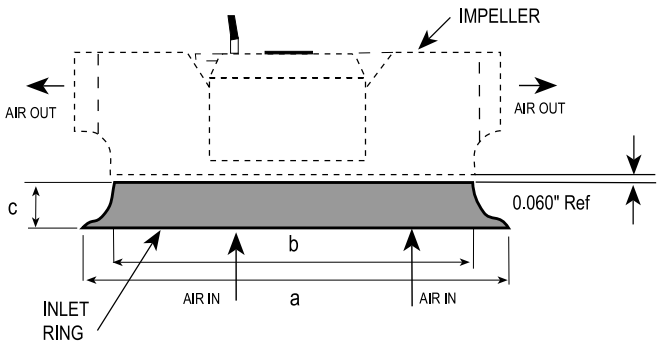


| Part Number | Impeller Number | Max. Dimensions (inches) a | b | c |
|---|---|---|---|---|
| 9566-2-4013 | 133 | 5.08 (129) | 3.43 (87) | 0.51 (13) |
| 9588-2-4013 | 175, 180 &190 | 7.28 (185) | 5.12 (130) | 0.67 (17) |
| 9609-2-4013 | 220 | 9.96 (253) | 6.10 (155) | 0.79 (20) |
| 9597-2-4013 | R1G225<br>R4E225-AR<br>R2E225-BB | 8.27 (210) | 5.87 (149) | 1.10 (28) |
| 9607-2-4013 | R4S225<br>R4E225-AC<br>250 | 8.78 (223) | 6.57 (167) | 0.87 (22) |
| 9614-2-4013 | 280 | 10.04 (255) | 7.40 (188) | 0.98 (25) |
| 9621-2-4013 | 310 | 11.81 (300) | 7.60 (193) | 1.69 (43) |
| 51357-2-4013 | 355 | 13.78 (350) | 8.90 (226) | 2.36 (60) |


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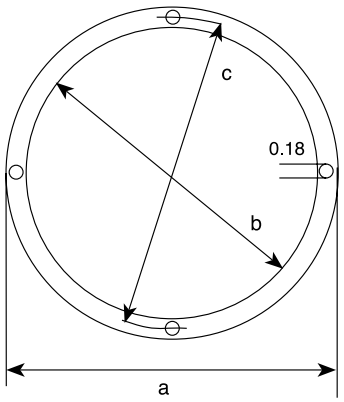
| Part Number | Blower Wheel Size | Max. Dim.- in. (mm) a | b | c |
|---|---|---|---|---|
| 9489-2-4039 | 085 | 3.5 (90) | 2.9 (74) | 3.3 (84) |
| 9485-2-4039 | 097 ? | - | - | 4.5 (114) |
| 9490-2-4039 | 108 | 5.0 (126) | 4.3 (110) | 4.7 (118) |
| 9494-2-4039 | 120 | 5.5 (140 | 4.9 (124) | 5.2 (132) |
| 9500-2-4039 | 133 ? | - | - | 5.7 (145) |
| 9492-2-4039 | 140/146 | 6.6 (168) | 6.0 (152) | 6.2 (158) |
| 9503-2-4039 | 160 | 7.1 (180) | 6.4 (162) | 6.9 (175) |
| 9493-2-4039 | 180 | 8.1 (205) | 7.2 (183) | 7.6 (194) |

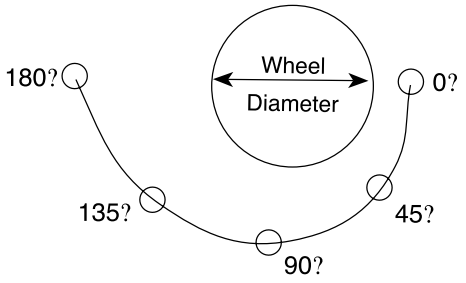
? – Dual inlet wire guard with three holes at 120?



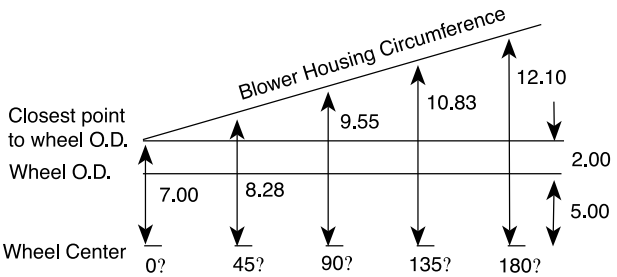

Material is galvanized wire.

## Technical Note on Scroll Housings

18? EXPANSION, FOR REFERENCE ONLY




REFERENCE ONLY BASED ON A 10 INCH DIAMETER WHEEL




ANGLE AROUND WHEEL FROM STARTING POINT
(a half scroll housing expands for approx. 180 degrees)

NOTE: Expansion angle must always increase.

Forward Curved Wheels use 6? - 12 ? expansion, 10? normal
Backward Curved Wheel normally uses 18? half scroll
MODIFY TO SUIT YOUR NEEDS



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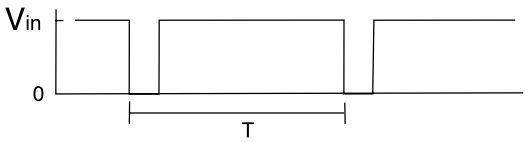
## Hall Effect Monitor

Selected ebm blowers ordered with this option monitor the speed of the blower with a device consisting of a magnet and solid state switch built into the motor. The output signal is a low voltage DC pulse train that can be incorporated into the end product to trigger an audible or visual alarm or to initiate an orderly system shutdown. This device is suited for telecommunications, computer, peripheral and copier applications, or others as required.

### Hall Effect Monitor for AC Models



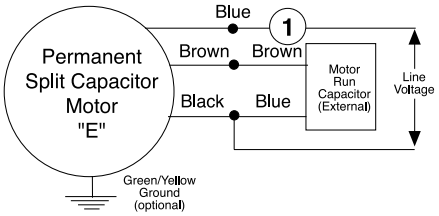

Input = 4.5 to 16 VDC; T = 60/RPM; Vout v
Output Impedance = 4.7 K nominal.

### Hall Effect Monitor for Brushless DC Models

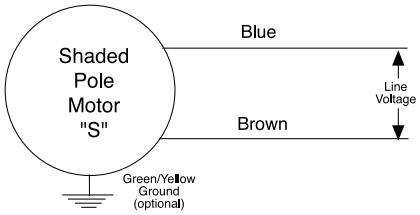
2 pulse / revolution – Vout 5v; Output current = 5mA max.

## MOTOR WIRING DIAGRAMS

**A. PSC "Type E" Motor**

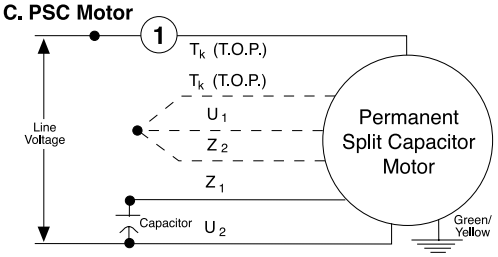



**B. Shaded Pole Motor**

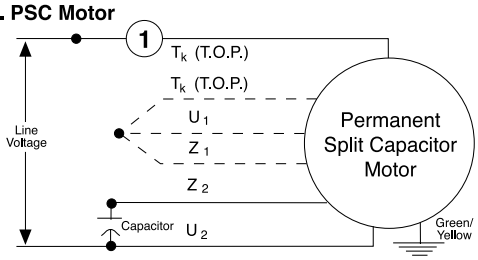



(1) An extra capacitor can be connected in series to yield lower RPM for multi-speed requirements

**C. PSC Motor**




**D. PSC Motor**




Dotted lines not supplied on all designs



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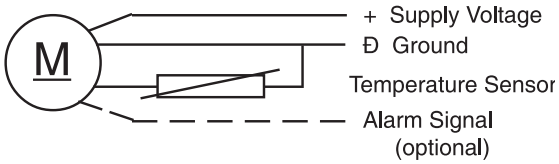
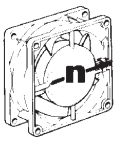
**VarioFans have Temperature Dependent Speed Control**

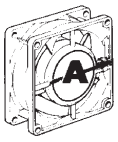



## Alarms & Connectors for ebm/Papst Tubeaxial Fans



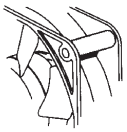
**S /2 /12**

**Speed Sensor**
DC Fan with integrated sensor for externally speed monitoring



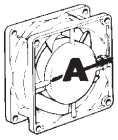
**/5 /17**

**Alarm Circuit**
DC Fan with integrated alarm circuit for speed monitoring



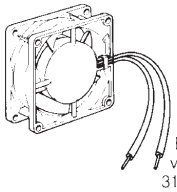
**D**

**Housing Reinforcement**
Fan housing with stiffening ribs. For mounting over both flanges



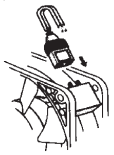
**/10**

**Alarm Signal**
DC Fan with integrated fan failure sensor



**W**

**Connection Leads**
Electrical connection via 2 leads AWG 22, 310 mm long



**Connector Design**

Type 6 = 2,8 x 0,8 mm **6**
Type 8 = 2,8 x 0,5 mm **8**

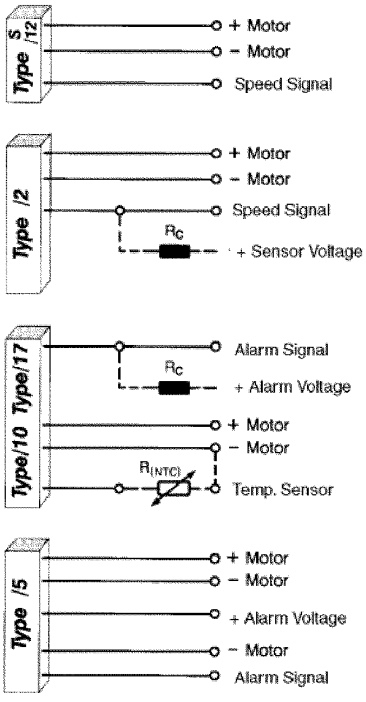
Type 7 = 2,8 x 0,8 mm **7**
Type 9 = 2,8 x 0,5 mm **9**

## Characteristics of Fan Signals and Operation with different Alarm Signals

Speed Sensor Type: S, /2, /12
These fans produce speed-proportional square-wave signals via an integrated sensor. This 'electronic' tachometer is used to monitor the fan speed.

Alarm Signal Type: /10
These fans produce a continuous signal output when operating interference-free. When fan speed falls below 75 - 85% of the nominal speed, short low impulses are generated. The greater the fall below the alarm speed, the greater the low impulse width becomes. At rest there is a continuous low signal.

Alarm Switching Signal Type: /5, /17
These fans produce speed-dependent, directly usable high/low square-wave signals via integrated alarm switching circuits.
/5 models: Switching circuit is galvanically separated with a separate current supply.
/17: Direct current supply via motor; the switching circuit is not separate.

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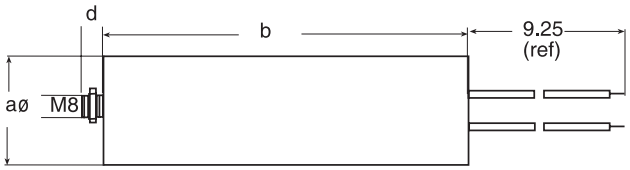
HOW TO USE CAPACITORS FOR MULTI-SPEED BLOWERS
It is possible to make any ebm blower with a PSC motor a multi-speed blower by adding a second or third capacitor on the load line (blue) at or near the value of the motor run capacitor. Actual capacitor value and RPM achieved are dependent on the nature of each application.

## PLASTIC CAPACITORS

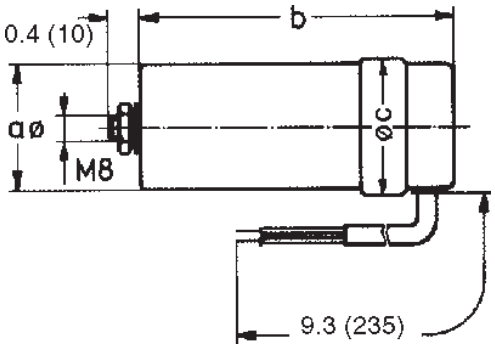
| Part Number | Size (mfd) | Temp. Range (°C) | Max. Dim in. (mm) a | b | d |
|---|---|---|---|---|---|
| 02100-4-7320 | 1 | -25 to +85 | 1.1 (28) | 2.2 (55) | 0.5 (12) |
| 99282-4-7320 | 1.5 | -25 to +85 | 1.1 (28) | 2.2 (55) | 0.5 (12) |
| 99283-4-7320 | 2 | -25 to +85 | 1.1 (28) | 2.2 (55) | 0.5 12) |
| 02103-4-7320 | 2.5 | -25 to +85 | 1.1 (28) | 2.2 (55) | 0.5 (12) |
| 02102-4-7320 | 3 | -25 to +85 | 1.1 (28) | 2.2 (55) | 0.5 (12) |
| 99284-4-7320 | 4 | -25 to +85 | 1.3 (32) | 2.2 (55) | 0.5 12) |
| 02101-4-7320 | 5 | -25 to +85 | 1.4 (36) | 2.3 (58) | 0.5 (12) |
| 99285-4-7320 | 6 | -25 to +85 | 1.4 (36) | 2.8 (70) | 0.5 (12) |
| 99286-4-7320 | 8 | -25 to +85 | 1.6 (40) | 2.6 (67) | 0.5 (12) |
| 99287-4-7320 | 10 | -25 to +85 | 1.6 (40) | 2.8 (70) | 0.5 (12) |

(For larger sizes consult factory)




## METAL CAPACITORS

| Part Number | Size (mfd) | Temp. Range (ûC) | Max. Dim. in (mm) a | b | c |
|---|---|---|---|---|---|
| 2151-4-7320 | 1 | -25 to +85 | 1.0 (25) | 2.9 (74) | 1.1 (29) |
| 2155-4-7320 | 1.5 | -25 to +85 | 1.0 (25) | 2.9 (74) | 1.1 (29) |
| 2156-4-7320 | 2 | -25 to +85 | 1.0 (25) | 2.9 (74) | 1.1 (29) |
| 2159-4-7320 | 2.5 | -25 to +85 | 1.2 (30) | 2.8 (71) | 1.3 (34) |
| 2160-4-7320 | 3 | -25 to +85 | 1.2 (30) | 3.9 (99) | 1.3 (34) |
| 2161-4-7320 | 4 | -25 to +85 | 1.2 (30) | 4.1 (104) | 1.3 (34) |
| 2162-4-7320 | 5 | -25 to +85 | 1.4 (35) | 4.1 (104) | 1.5 (39) |
| 2163-4-7320 | 6 | -25 to +85 | 1.4 (35) | 4.0 (101) | 1.5 (38) |
| 2164-4-7320 | 7 | -25 to +85 | 1.6 (40) | 4.0 (101) | 1.7 (43) |
| 2165-4-7320 | 8 | -25 to +85 | 1.4 (35) | 4.0 (101) | 1.5 (38) |
| 2166-4-7320 | 10 | -25 to +85 | 1.4 (35) | 3.9 (99) | 1.5 (39) |
| 2167-4-7320 | 12 | -25 to +85 | 1.6 (40) | 3.9 (99) | 1.7 (43) |
| 2168-4-7320 | 16 | -25 to +75 | 1.8 (46) | 6.3 (160) | 1.9 (48) |
| 2169-4-7320 | 20 | -25 to +75 | 1.8 (46) | 6.3 (160) | 1.9 (48) |
| 2170-4-7320 | 25 | -25 to +75 | 1.8 (46) | 6.3 (160) | 1.9 (48) |



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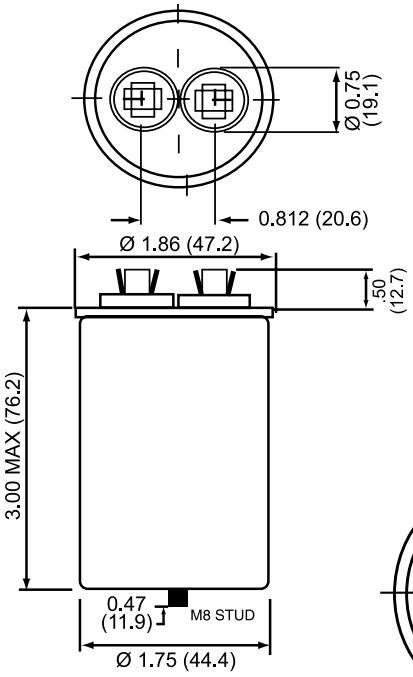
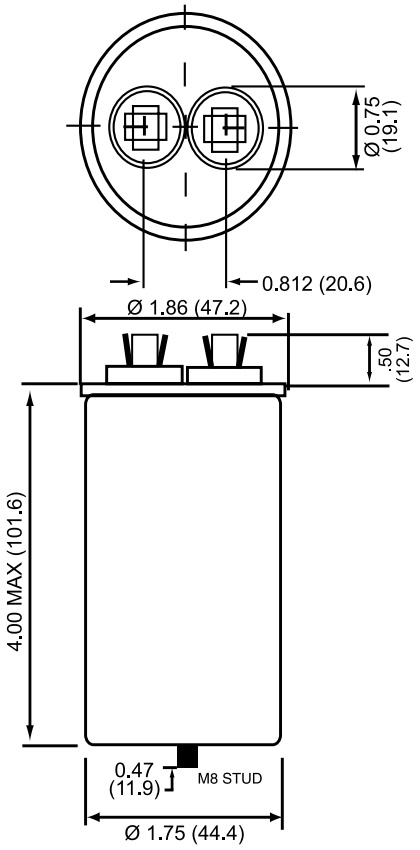
## with UL, CSA and VDE Approvals

| Part Number | Size (mfd) | Temp Range ?C |
|---|---|---|
| 450-20-0017 | 1 | -20 to +85 |
| 450-20-0018 | 1.5 | -20 to +85 |
| 450-20-0019 | 2 | -20 to +85 |
| 450-20-0020 | 2.5 | -20 to +85 |
| 450-20-0021 | 3 | -20 to +85 |
| 450-20-0022 | 4 | -20 to +85 |
| 450-20-0023 | 5 | -20 to +85 |
| 450-20-0024 | 6 | -20 to +85 |
| 450-20-0025 | 7 | -20 to +85 |
| 450-20-0026 | 8 | -20 to +85 |
| 450-20-0027 | 10 | -20 to +85 |
| 450-20-0028 | 12 | -20 to +85 |



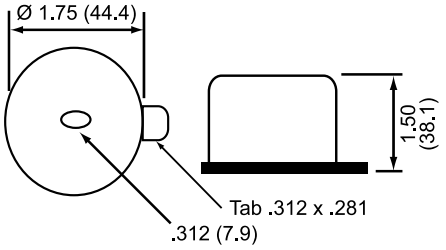

LARGER SIZE (see drawing)

| Part Number | Size (mfd) | Temp Range ?C |
|---|---|---|
| 450-20-0029 | 16 | -20 to +85 |
| 450-20-0030 | 20 | -20 to +85 |
| 450-20-0031 | 25 | -20 to +85 |
| 450-20-0033 | 30 | -20 to +85 |
| 450-20-0034 | 40 | -20 to +85 |




| Part Number for Boot | 710-00-0042 |
|---|---|

Boot Dimensions




* UL File # for capacitors E133000(N)
CSA File # for capicitors LR96263

UL File # for Boot SA6016(N)



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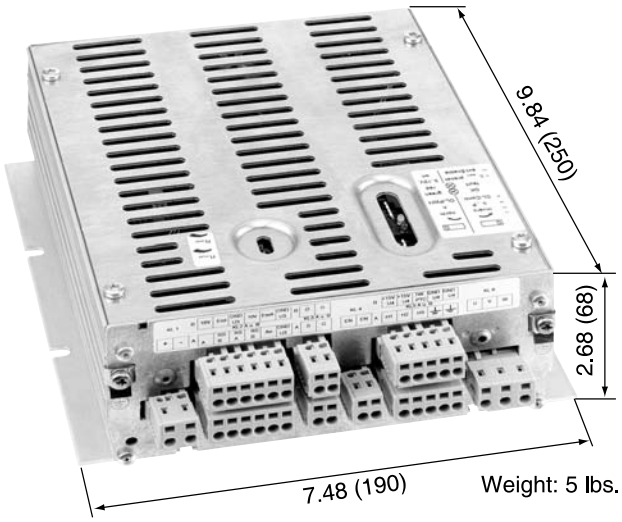
# Part Numbers:
# CHW050-AA01-70
# CHW050-AA01-71




## RATINGS:

100-120 VAC, 50/60 Hz, 250 W input
200-277 VAC, 50/60 Hz, 500 W input
2.4 A
Power Factor: >0.98 at 500 W
Leakage Current: 10 mA
Maximum ambient temperature: 40° C

## STANDARDS:

| | |
|---|---|
| UL508C | Power Conversion Equipment file # E208140 |
| EN50081-1 | RFI Emissions |
| EN50082-2 | RFI Susceptibility |
| DIN EN61000-3-2 | Harmonics |

## Standard features with CHW050-AA01-71:

Digital ebm BUS interface
Green power ON indicator LED
Red ALARM indicator LED
Alarm relay NC
Alarm relay NO
Temperature and locked rotor protection
Short circuit protection
Limited ground fault protection
Cage clamp connector included

## Additional features with CHW050-AA01-70:

Open collector tach Output (3 pulses/rev.)
0-10 V external sensor input
0-10 V control imput
Enable imput
Potentiometers for MIN and MAX settings
10 VDC / 20 mA stabilized power supply
18 VDC / 25 mA non-stabilized power supply

## Available Accessories:

| | |
|---|---|
| 25711-2-0199 | Application software LISA |
| 21487-1-0174 | Transceiver RS232 / RS485 |
| 25710-1-0174 | Repeater RS485 |

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

**Офис по работе с юридическими лицами:**

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