



TECHNICAL DATA SHEET

Q-Sync[®] HVAC Permanent Magnet Synchronous Fan Motors

Ground-breaking technology that increases your system's SEER rating.

- Minimize the system's compressor and condenser sizes AND achieve required SEER levels
- Better control of airflow with precise speed control and no speed droop
- More efficient motors with power factors near unity



Q-Sync[®] HVAC 1/2Hp 60Hz

PRODUCT SPECIFICATIONS

Q-Sync[®] HVAC Synchronous Motor

Model QSM0.50-3C-CC		
	120 VAC	230 VAC
Customer model	30090	30090
Voltage Range	95-132 V	176-264 V
Running Current (Amps)	3.67 A	1.84 A
Locked Rotor Current (Amps)	10 A	5 A
Horse Power	1/2 Hp	1/2 Hp
Watts	375 W	375 W
Variable Speed	600-1200 RPM	600-1200 RPM
Frequency	60 Hz	60 Hz
Rotation (opposite end of shaft)	CC-CW	CC-CW
Phase	1	1
Temp	-40°C to +55°C	-40°C to +55°C
Protection	Impedance Protected	Impedance Protected
CSA / UL File Number	E465664	E465664
Class	Class A (105 C)	Class A (105 C)
Motor Type	Continuous Air Over	Continuous Air Over
Plug	Not Supplied	Not Supplied
Standard 1/2" electrical access hole	1/2 Inch Access Hole	1/2 Inch Access Hole
3/16 Faston connections to Circuit Board	3/16 in	3/16 in
Motor Length	7.51 in	7.51 in
Shaft diameter	0.5 in	0.5 in
Shaft Mounting	0.455 Flat	0.455 Flat
Shaft Length	4.96 in	4.96 in
4 hole, 1/4-20 UNC on 3.75 diameter	4 Hole Front Mount	4 Hole Front Mount
Moisture Protection	IP65	IP65
Weight Motor Only	22.0 lbs	22.0 lbs
Efficiency @375W (rated power)	91.13%	91.00%
Power Factor	0.94	0.94

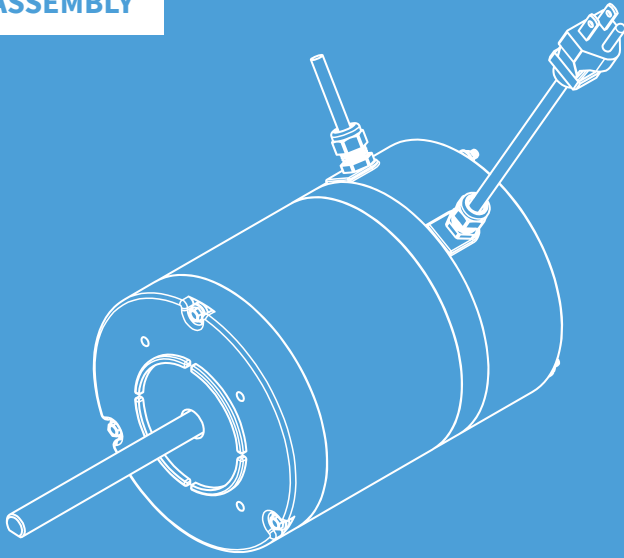
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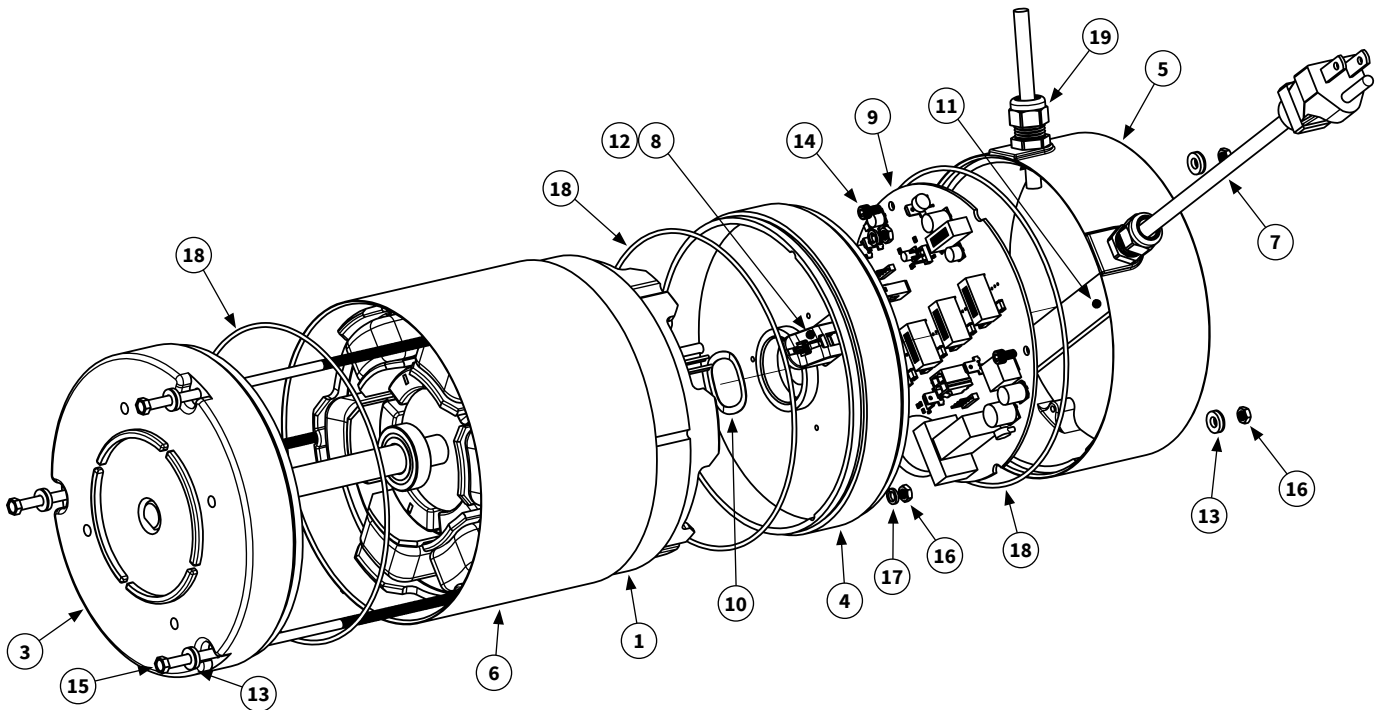
UL 1004-2
UL 60730-1

ASSEMBLY



PARTS LIST

Item	Qty	Part #	Description
1	1	30091	Wound Stator Assembly, 1/2 Hp
2	1	30092	Rotor Assembly
3	1	40056	Front Cover
4	1	40081	Mid Cover
5	1	40188	Rear Cover
6	1	40085	Case
7	1	30093	Power Cord Assembly
8	1	30220	Sensor Cable Assembly (1/2 Hp)
9	1	30202	PCB Assembly, Motor Control
10	1	60135	Wave Disc Spring
11	1	40060	Thermal Pad (A)
12	3	60086	Screw, Pan HD 4-40 x .375 LG (91772A108)
13	6	60149	Neoprene Rubber Sealing Washer, 18-8 SS, No. 8 (94709A112)
14	3	60141	Screw, Soc HD, SS, 6-32 x .250 LG (92196A144)
15	3	60084	Screw, Hex HD, 8-32 x 7.75 LG
16	6	60142	Hex Nut, 8-32, Narrow
17	3	60143	Split Lock Washer, No. 8 (98437A106)
18	3	60150	O-Ring, EPDM Rubber, .070 DIA (9557K141)
19	1	30238	Sensing Cord Assembly



NOTICE OF CONFIDENTIAL INFORMATION

Information contained herein is Confidential. Where furnished with a proposal, the recipient shall use it solely for the purposes of inspection, installation, or maintenance. Where furnished to a supplier, it shall be used solely in the performance of the contract. The information shall not be used or disclosed by the recipient for any other purpose.

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