



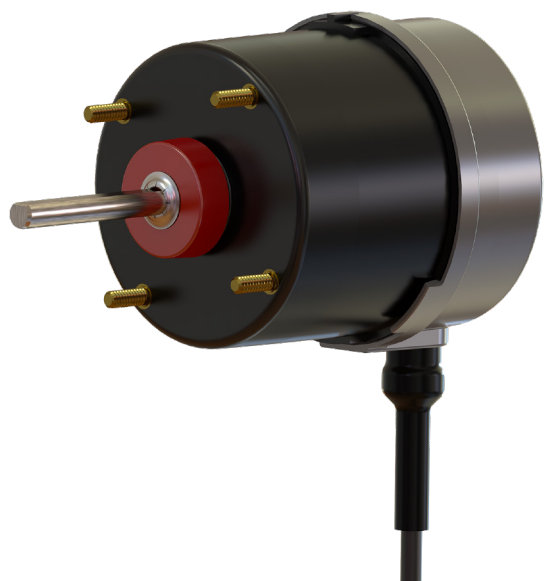
## TECHNICAL DATA SHEET

# Q-Sync®: The Most Efficient Commercial Refrigeration Motor in History

The Next Big Leap in Efficiency is Here

### The next generation of motors has arrived.

Designed to be the highest efficiency motor ever created, Q-Sync® motor technology is the first giant leap forward in motor design in more than 50 years. Its unique design uses up to 50% less energy than EC motors, and up to 80% less than shaded-pole, while providing consistent power output and airflow in any application. By using grid supplied AC current without the need to rectify to DC, Q-Sync® offers consistent operation with higher power factors than alternative offerings. The Q-Sync® motor is designed for superior reliability and service life with universal mounts that easily adapt to most applications (and when combined with our complete fan assembly make installation 4X faster!).



Q-Sync® 38-50W 60Hz/230V

## PRODUCT SPECIFICATIONS

Q-Sync® Synchronous Motor

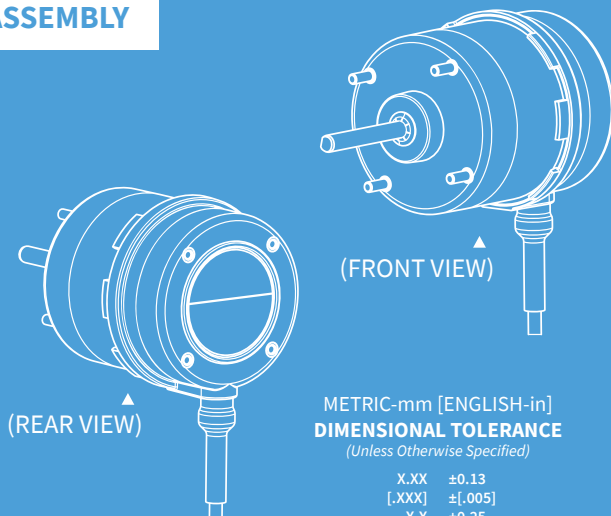
Model	QSM50-2A-CC
Customer model	30077-00
Volts	230 V
Voltage Range	207-253 V
Running Current (Amps)	0.282 A
Locked Rotor Current (Amps)	3.12 A
Horse Power	1/15 HP
Watts	50 W
RPM	1800
Frequency	60 Hz
Rotation (opposite end of shaft)	CCW
Phase	1
Temp	-40°C - 55°C (-40°F - 122°F)
Protection	Thermally Protected
CSA / UL File Number	E465664
Class	Class A (105 C)
Motor Type	Continuous Air Over
Plug	2 Pin Lyall M-2-24
Cable Length	16 Inches long
Cable Rating	300 V, 105 C 18/2 CSA
Cable Rating	300 V, 105 C 18/2 UL
Shaft Diameter	8 mm / .3125 in
Mounting Pattern	4 Hole Front Mount
Mounting Pattern	4 Hole Rear Mount
Mounting Stud Size	10-32 in
Moisture Protection	IP65
Fan Blade Pitch	12 inches, 18 degrees
Fan Blade Pitch	10 inches, 22 degrees
Speeds	Single
Design Life	10 years
Warranty	2 years
Maximum Operating Altitude	3048 m / 10,000 ft
Weight Motor Only	3 lbs / 1.36 kg
Weight Motor Only, Boxed	3.5 lbs / 1.58 kg
Box Dimension Motor Only	LxWxH 7.25 in x 7.5 in x 6.5 in
Efficiency @50W (rated power)	81%
Power Factor	0.97
Amps	0.282 A
Volts	230 V

IP65  
CERTIFIED

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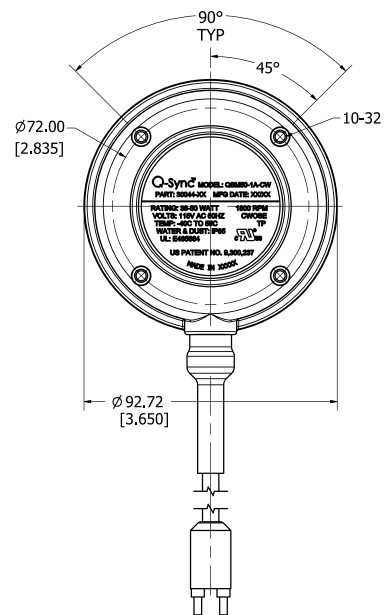
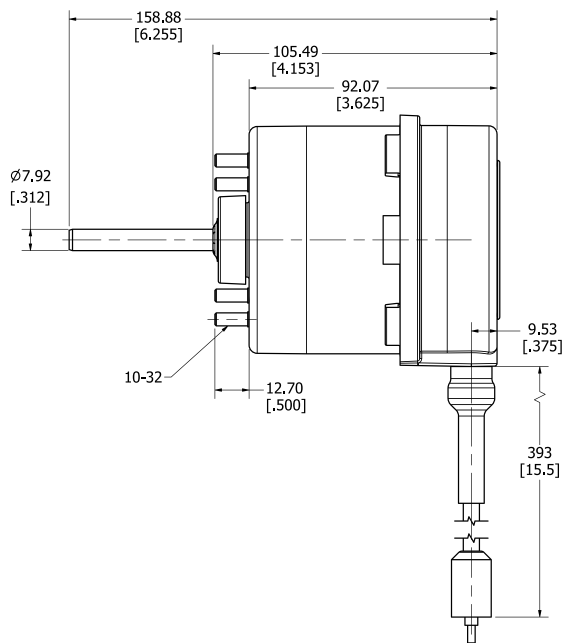
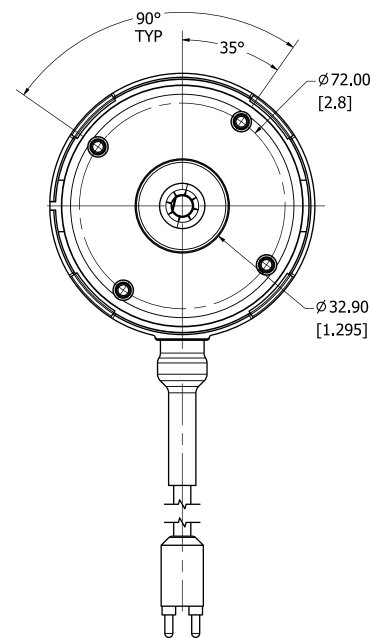
## ASSEMBLY



METRIC-mm [ENGLISH-in]  
**DIMENSIONAL TOLERANCE**  
 (Unless Otherwise Specified)

X.XX	±0.13
[.XXX]	±[.005]
X.X	±0.25
[.XX]	±[.010]
X	±0.5
[.X or FRACTIONAL]	±[.020]

Do Not Scale Print



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