

SilverMax NEMA 34

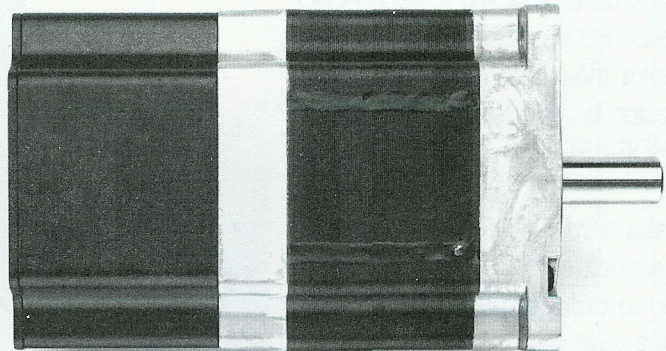
SilverMax NEMA 34 frame motor

SilverMax motors are offered in a variety of power ratings signified by a letter following the frame size: N, H or HC. The 34N class is the least expensive - lowest power motor offered.

The 34H has been the most powerful 34 offered, for high-torque applications less than 2000 RPM this motor has been a great solution.

The new 34HC is the most powerful motor offered in this class. Its' ability to overcome I²R losses and achieve high torque at speeds up to 4000 RPM truly lifts this motor to a unique position within the field of motion control.

QuickSilver Controls also offers this motor in an IP65 option.



NOTE: A Clamp Module (QCI-CLCF or QCI-CLOF) is recommended for use in most NEMA 34 applications to dissipate excess current generated when decelerating.

To specify a motor when ordering, create your part number from this table

	Motor Size	Series	Standard Options
QCI-34N	-1	-E	-01 Standard Configuration -65 IP65
QCI-34H	-1 -2 -3 -4	-E	
QCI-34HC	-2	-E	

Example: QCI-34N-1-E-01

Example: QCI-34H-2-E-01

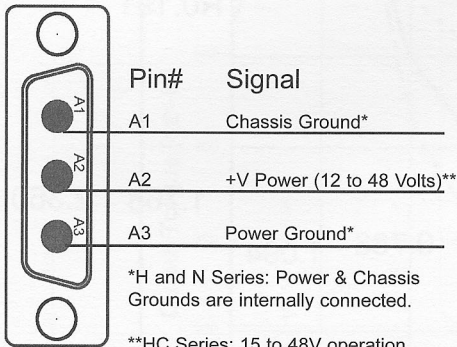
SilverMax QCI-34

Motor Specifications	QCI-34N-1	QCI-34H-1	QCI-34H-2	QCI-34H-3	QCI-34H-4	QCI-34HC
Maximum revolution speed (RPM)	2000	2000	2000	2000	2000	2500
Optimal revolution speed (RPM)	800	800	1000	900	800	1500
Peak torque at optimal speed (oz-in)	290	450	400	470	500	430
Continuous stall torque (oz-in)	450	550	900	1400	2000	1250
Peak power (Mech. Watts)	170	270	290	315	310	550
Rotor Inertia (oz-in ²)	7.8	7.8	14.7	21.9	29.0	14.7
Weight (pounds)	5.73	5.73	9.13	12.63	15.83	9.13
Length (inches)	5.13	5.13	6.65	8.13	9.68	6.65
Shaft Diameter	.500	.500	.500	.625	.625	.500
Maximum Current (amps)	8.0	8.0	8.0	8.0	8.0	15

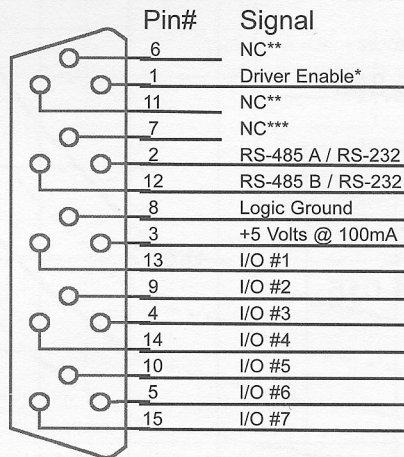
All specifications are at 48 Volt operation

SilverMax 34H 1 & 2 Mechanical Dimensions

DB-3 Power Connector



DB-15 Connector



*Driver Enable is connected to the +V power supply to enable the motor driver circuitry. 10 - 48V required to enable driver.

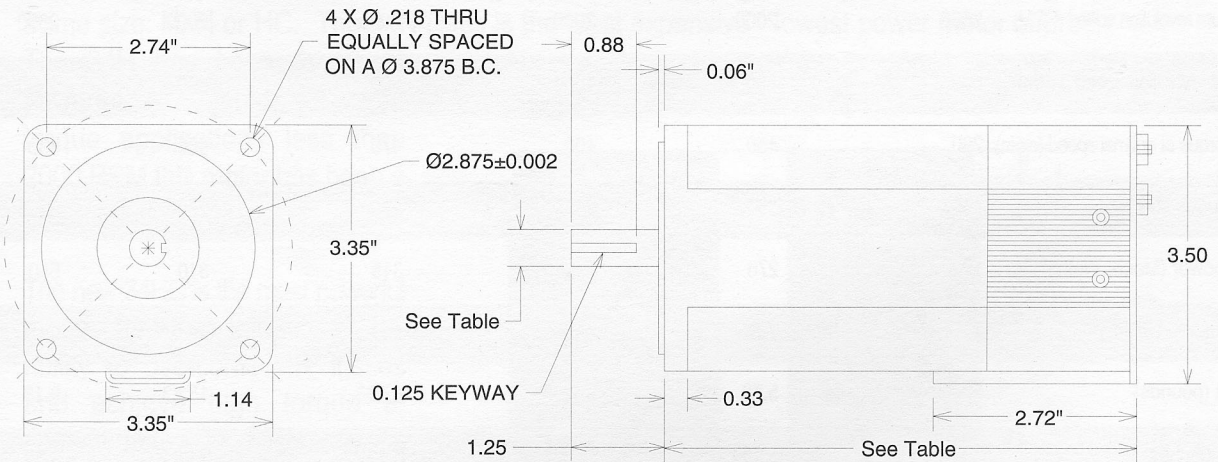
I/O lines 1, 2 & 3 have an internal 4.7k ohm resistor connected to the internal +5 volt power supply.

**HC Series: Controller Power Ground

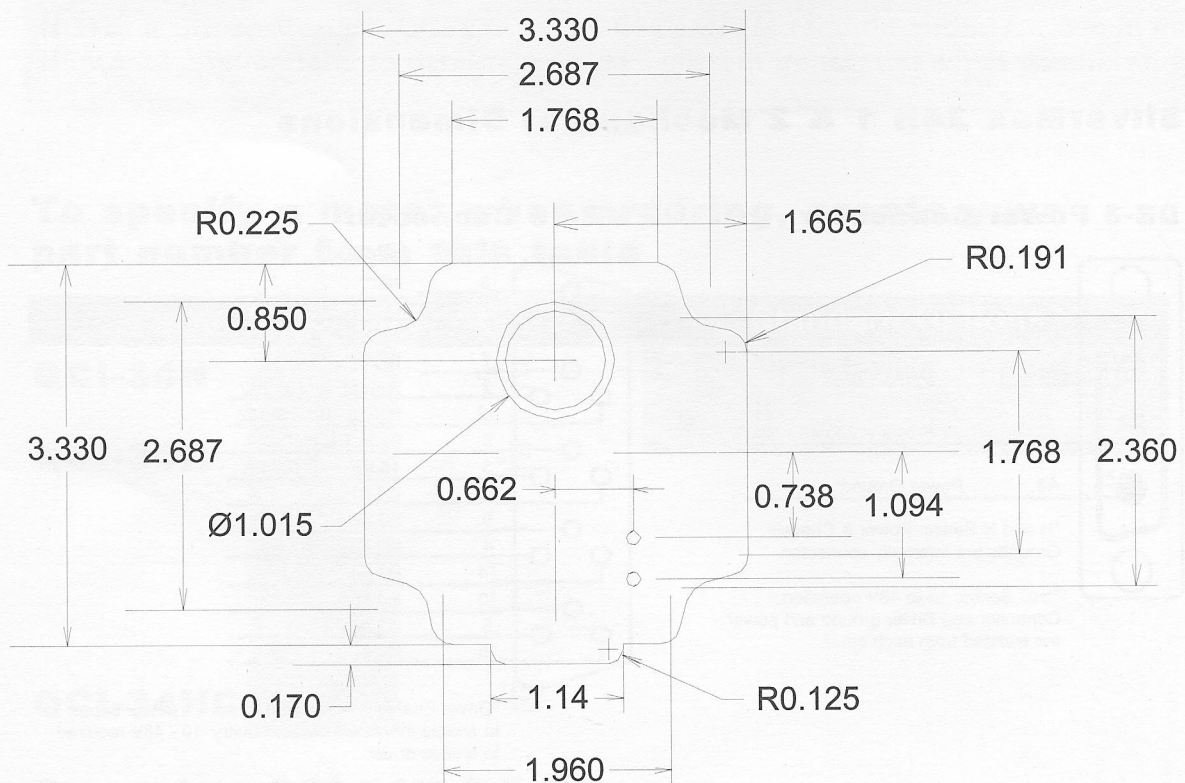
***HC Series: Controller Power, 8 - 48V required.

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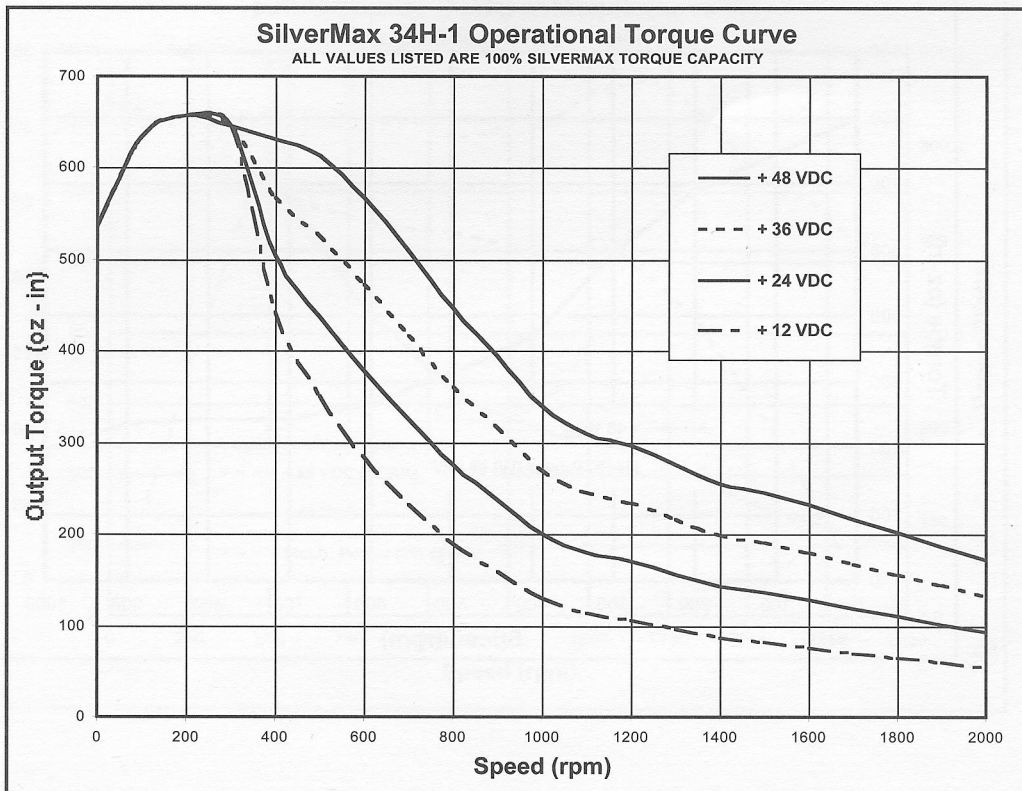
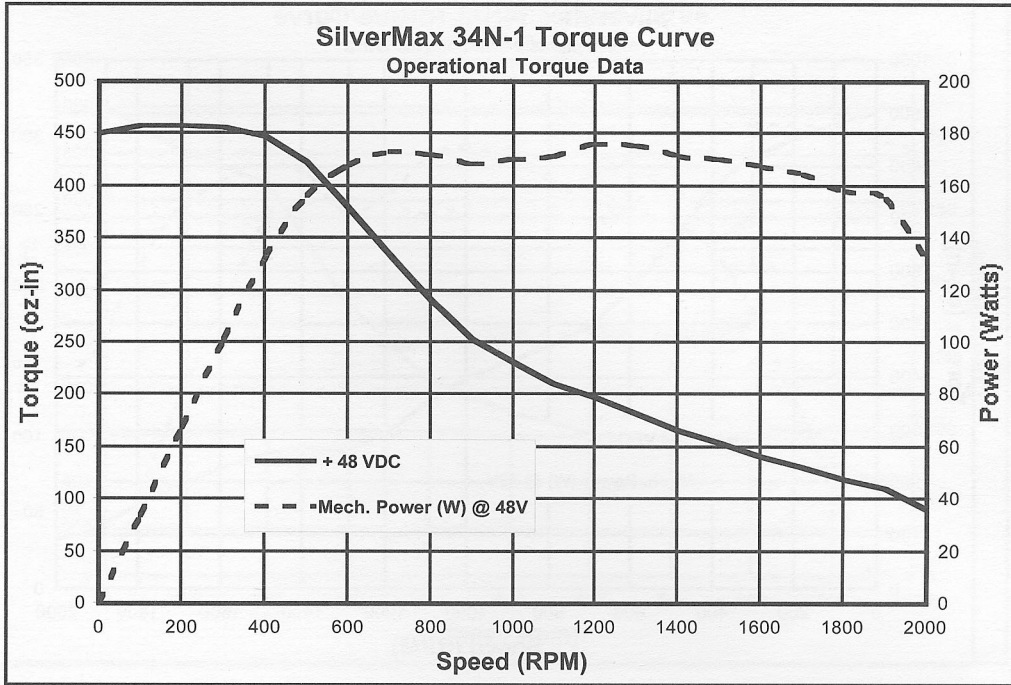
SilverMax 34 Mechanical Dimensions



Back View of IP65 34 Frame showing connector placement

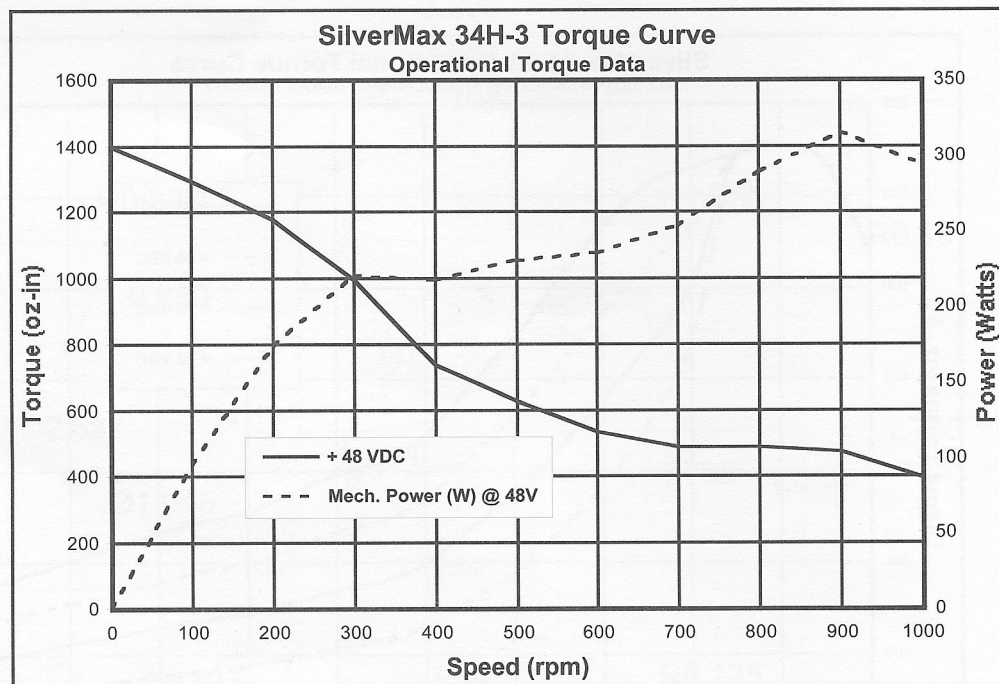
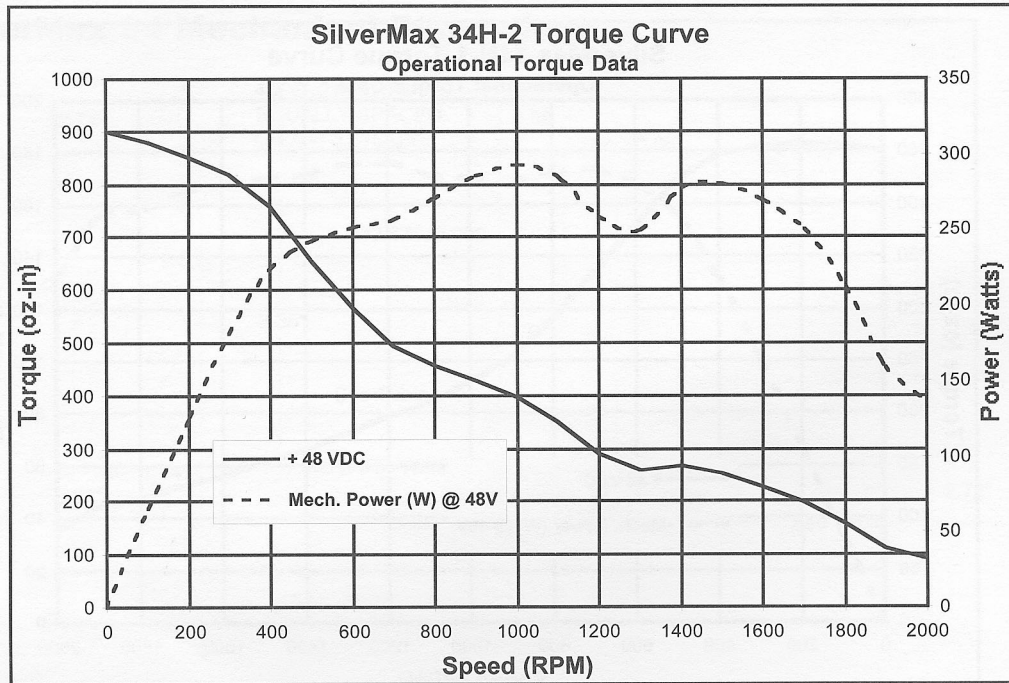


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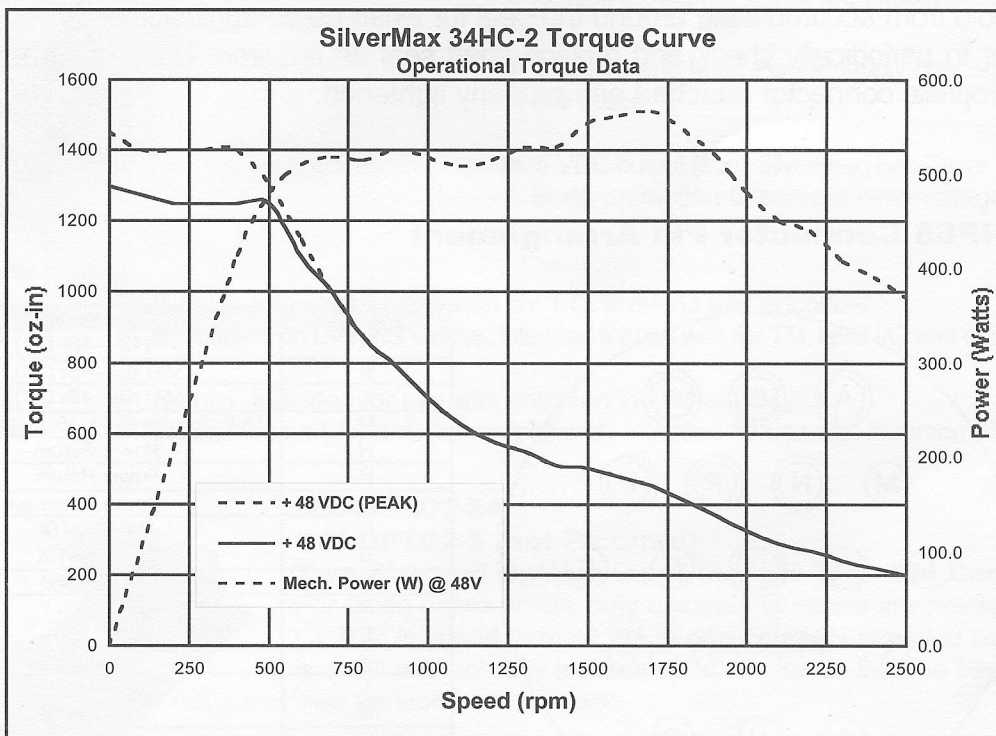
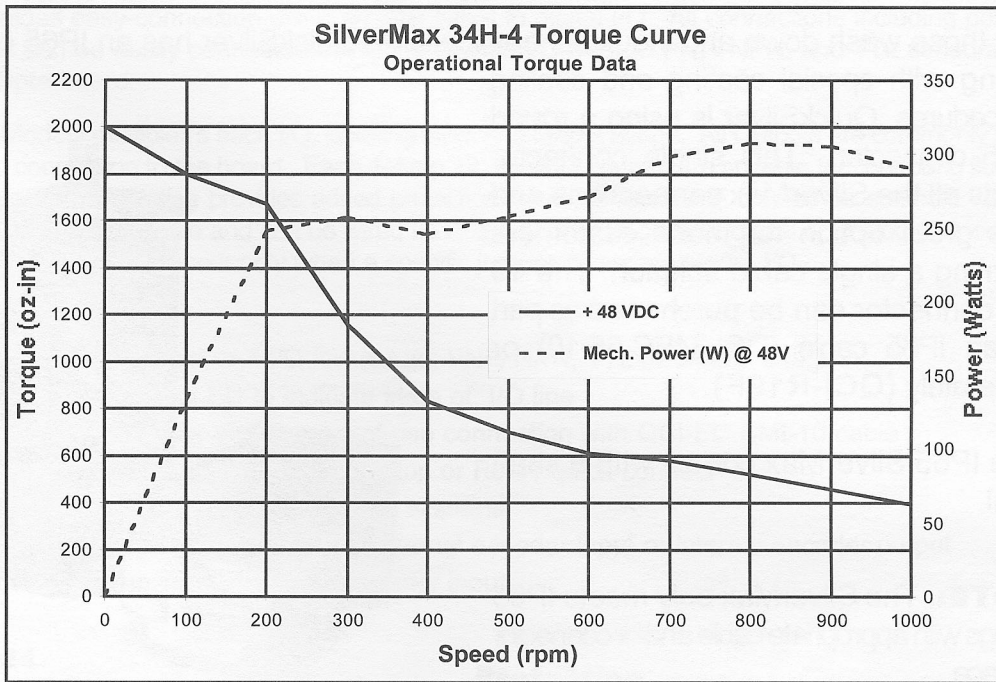


Quicksilver Controls, Inc.

SilverMax QCI-34



SilverMax QCI-34



Quicksilver Controls, Inc.

SilverMax NEMA 34-IP65

New SilverMax NEMA 34 Frame IP65

For those wash down and industrial applications, QuickSilver has an IP65 option. Along with special coating and sealing procedures, QuickSilver is using a round IP65 connector. This single connector holds all the SilverMax connections and is a great option for those customers wanting a single cable solution. The 19 pin connector can be purchased as part of an IP65 cable (QCI-34EC-65-10) or separately (QCI-R19F).

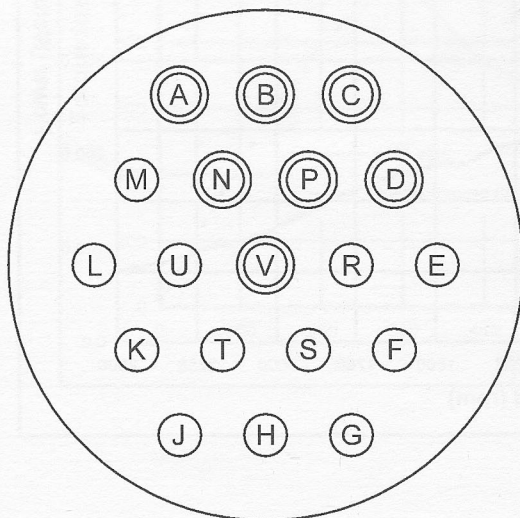
The IP65 SilverMax comes with a shaft seal.

NOTE: The SilverMax only meets IP65 ratings with appropriate cable and/or connector in place.

NOTE: The shaft should be either horizontal or pointed downward to prevent a puddle from accumulating around the seal for wash-down applications. User to periodically check and replace shaft seal as required. Units only rated with appropriate connector attached and properly tightened.



34-IP65 Connector Pin Arrangement



Pin	Description
A	V+ (12v - 48v DC)
B	V+ (12v - 48v DC)
C	V+ (12v - 48v DC)
M	Motor Enable (Tie to V+ to enable)
N	Power Return
P	Power Return
D	Power Return
L	RS-485A/TX
U	RS-485B/RX
V	Chassis Gnd
R	I/O 1
E	I/O 2
K	+5 Volts
T	I/O 3
S	I/O 4
F	I/O 5
J	I/O 6
H	Logic Ground
G	I/O 7