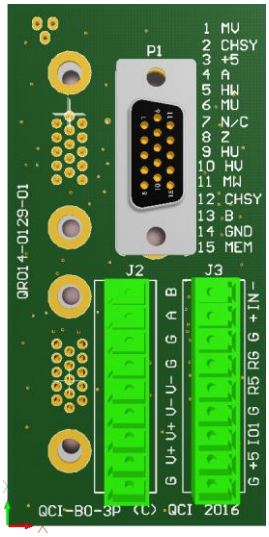
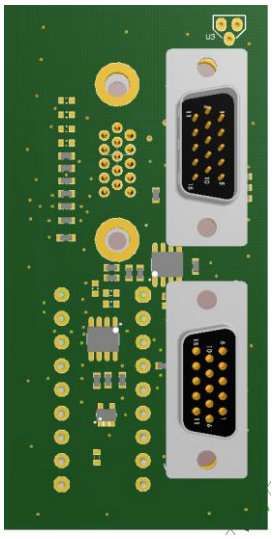
3-Phase Breakout Module QCI-BO-3P and QCI-BO-3P3

The QCI-BO-3P and QCI-BO-3P3 breakout modules enable SilverSterling S2 series controllers and SilverSterling S3 series controllers, respectively, to drive 3-phase motors with single-ended encoder and hall effect devices. The breakout board includes a differential amplifier with a X3 gain and can ordered to accept a 0 to +10V or ±10V analog input to scale down to 0 to 3.3V.

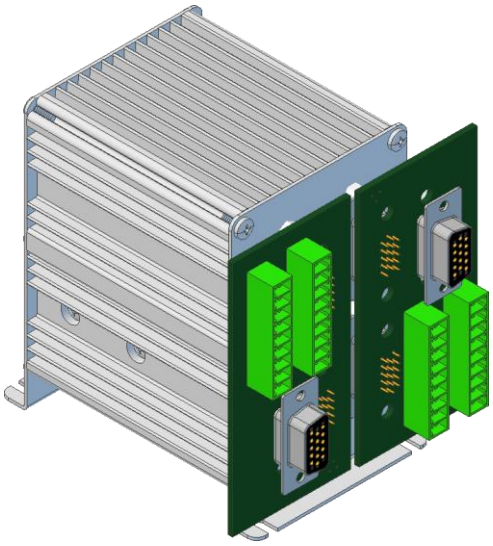
SilverSterling S2 controllers require software revision 23-22.
SilverSterling S3 controllers require software revision 33-21.



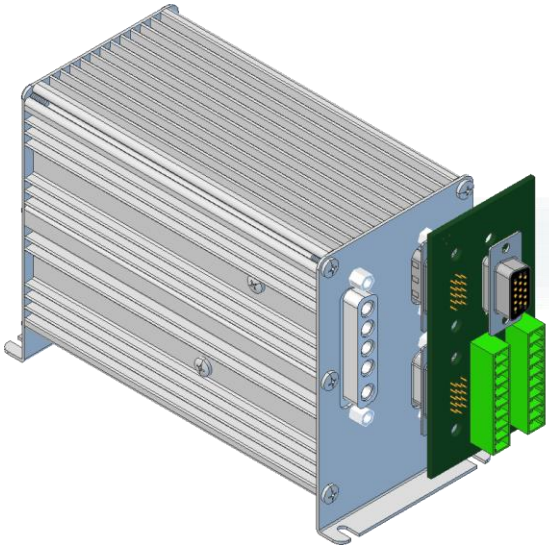
Front view of QCI-BO-3Px



Back view of QCI-BO-3Px



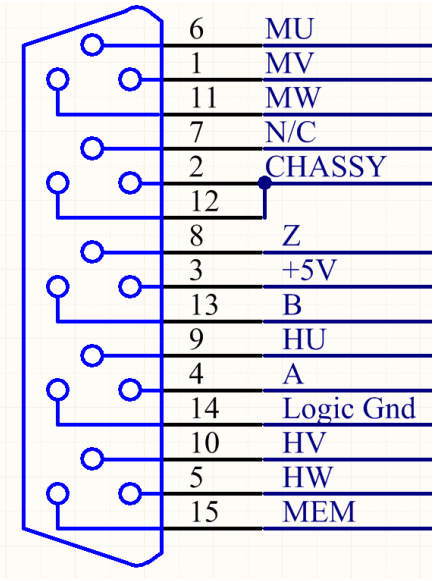
QCI-S2-X2-IG with two QCI-BO-3P Breakouts



QCI-S3-IG with QCI-BO-3P3 Breakout

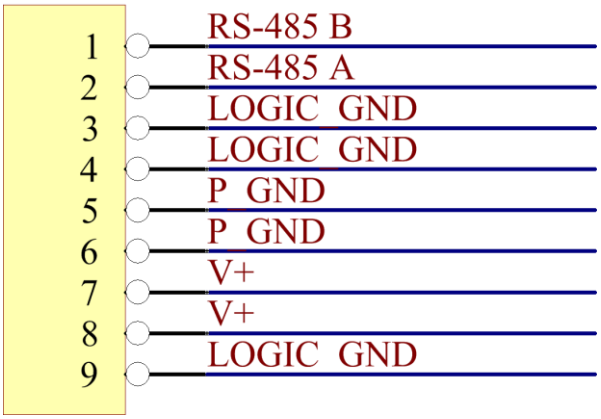
Connector Descriptions

P1

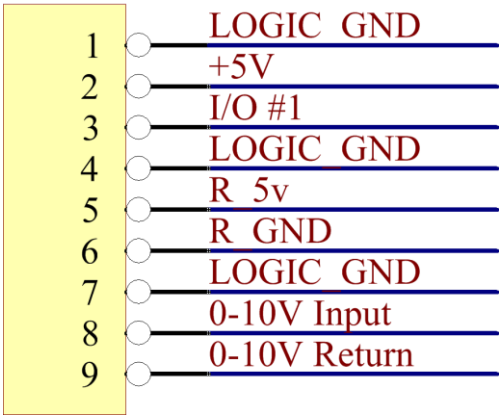


Pin	Signal Description
1	Motor Phase V
2	CHASSY
3	+5v Supply
4	Encoder A
5	Hall Sense Phase W
6	Motor Phase U
7	No Connect
8	Encoder Z
9	Hall Sense Phase U
10	Hall Sense Phase V
11	Motor Phase W
12	CHASSY
13	Encoder B
14	Logic Ground
15	Motor Memory; if available.

J2



J3



Special Builds

QCI-BO-3PS0081 & QCI-BO-3P3S0081 bring out CAN signals to J3 connector:

- CAN High is brought out to Pin 5 on J3. Labeled as R5 in silkscreen.
- CAN Low is brought out to Pin 6 on J3. Labeled as RG in silkscreen.
- CAN Ground is brought out to Pins 1, 3, and 7. Labeled as G in silkscreen.