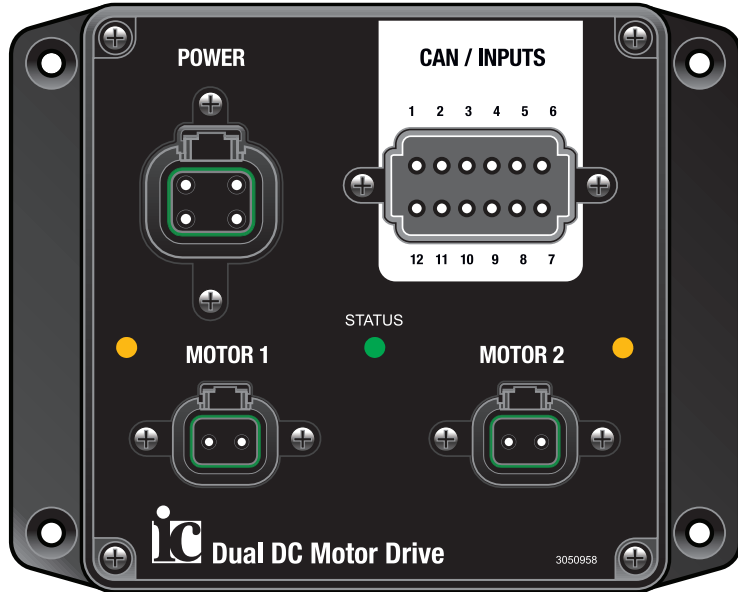




3050958 Dual DC Motor Driver Module



- Dual multiplex DC motor control module
- CAN bus operation
- 4-inputs for motor and valve limit switches
- 2 H-bridge outputs to provide power to two 12VDC motors

CONNECTOR J1 POWER

PIN	DESCRIPTION
1	MOT1 BATTERY +
2	MOT2 BATTERY +
3	MOT2 GROUND
4	MOT1 GROUND

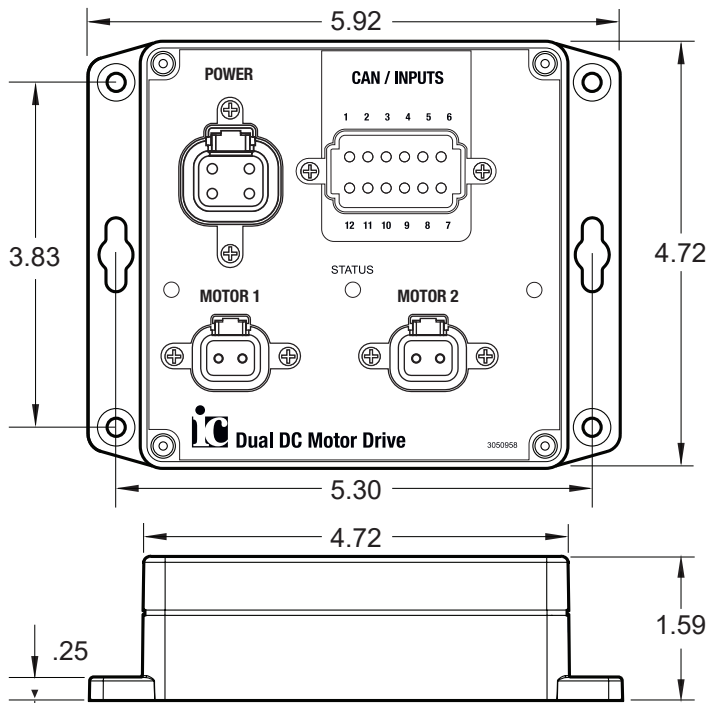
CONNECTOR J4 CAN / INPUTS

PIN	DESCRIPTION
1	CAN0 HI
2	CAN0 LO
3	EXT12V - MOT 1
4	INPUT 1 - MOT 1 LIM OPEN
5	INPUT 2 - MOT 1 LIM CLOSED
6	GROUND MOT 1
7	EXT12V - MOT 2
8	INPUT 3 - MOT 2 LIM OPEN
9	INPUT 4 - MOT 2 LIM CLOSED
10	GROUND MOT 2
11	INPUT 5 - SPARE
12	INPUT 6 - SPARE

FEATURES

- 4 low side active limit switch inputs (high side active inputs also available)
- 2 spare inputs
- 1H-bridge @ 25A continuous, 45A peak solid state output
- CAN bus interface with J1939 protocol
- Status LEDs providing state of the module and the motors

DIMENSIONS



CONNECTOR J2 / MOTOR 1

PIN	DESCRIPTION
1	MOT1 A
2	MOT1 B

CONNECTOR J3 / MOTOR 2

PIN	DESCRIPTION
1	MOT2 A
2	MOT2 B

TECHNICAL SPECIFICATIONS

Operating Voltage	7 to 32 VDC
Current Consumption	95 mA
Motor Current	25A continuous, 45A peak
Operating Temperature	-40°C to +105°C (-40°F to +220°F)
Storage Temperature	-40°C to +105°C (-40°F to +220°F)
Ingress Protection	IP67 rated enclosure
Electrical Protection	Reverse voltage polarity protection on all connections. Internal thermal fuses. CAN Bus protected to 24V. ESD protected to J1113-13 specifications. Transient voltage protected to J1113-11 and J1113-42. Indicator outputs are protected from reverse polarity, over-current, over-voltage, and voltage transients. Input circuits are protected from reverse polarity, over-current, over-voltage, and voltage transients. Watchdog timer supervises proper execution of software.
CAN Interface	CAN 2.0B port operating at 250kbps, J1939-11 or J1939-15 physical layer
Dimensions	5.92" X 4.72" X 1.59"