

Features

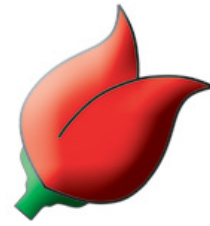
- **Triple Inductive Current Transducers (ICT)**
 - 3-Phase Inductive Current Monitoring
 - Fully Customisable Scales
 - High Noise Tolerance
- **Industry Standard 4-20mA Outputs**
 - 3 x 4-20mA Calibrated Outputs
- **Operates -20°C to +85°C**
 - All industrial components
- **Heavy Duty Enclosure**
 - Electroless Nickel Plated Mild Steel
 - Stainless Steel Flanges
 - Rugged Construction

Description

The L0HC Series Motor Mate is an integral triple output inductive current transducer designed for 3-phase electric motors, drives and transformers.

The L0HC Series Motor Mate can be factory calibrated to suit any monitoring requirement and is guaranteed to operate to within 5%ⁱ of full-scale over the entire monitoring range.

These devices are commonly used, in part, as current sensing protection devices in the application of AC Motor Protection schemes relative to AS1023.2. For more information as to how motor protection is achieved, see the Pempek Systems Whitepaper "PSWP-Application of AC Motor Protection".



Obelix

ICT MotorMate

Type L0HC



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ⁱ Typical Error is ± 2 percent.



Typical Applications

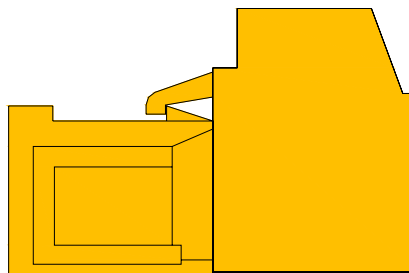
- Continuous Miners
- Continuous Haulage
- Long Wall Shearers
- Mobile Bolters
- Mobile Roof Supports
- Remote Control Scoops
- Remote Control Loaders
- Shuttle Cars
- Feeder Breakers
- Any industrial 3-Phase Electric Motor / Drive / Transformer.

Ordering Information

Part Number	Description
L0HC0701	Motor Mate - Horizontal Side Entry 300A-100A-300A
L0HC0801	Motor Mate - Horizontal Side Entry 200A-50A-200A
L0HC0901	Motor Mate - Horizontal Side Entry 500A-200A-500A
L0HC1001	Motor Mate - Horizontal Side Entry 250A-75A-250A
L0HC1701	Motor Mate - Horizontal Top Entry 200A-80A-200A
L0HC1801	Motor Mate - Horizontal Top Entry 500A-200A-500A
L0HC1901	Motor Mate - Horizontal Top Entry 200A-200A-200A
L0HC2001	Motor Mate - Horizontal Side Entry 350A-350A-350A
L0HC2101	Motor Mate - Vertical Side Entry 350A-350A-350A
L0HC2201	Motor Mate - Horizontal Side Entry 150A-150A-150A
L0HC2301	Motor Mate - Vertical Side Entry 150A-150A-150A
L0HC2401	Motor Mate - Horizontal Side Entry 75A-75A-75A
L0HC5001	Motor Mate - Horizontal Side Entry 500A-150A-500A
L0HC5101	Motor Mate - Horizontal Side Entry 120A-50A-120A
L0HC5201	Motor Mate - Horizontal Side Entry 250A-125A-250A
L0HC5301	Motor Mate - Horizontal Side Entry 200A-200A-200A
L0HC5401	Motor Mate - Horizontal Side Entry 200A-80A-200A
L0HC5501	Motor Mate - Horizontal Side Entry 200A-100A-200A
L0HC5601	Motor Mate - Horizontal Side Entry 50A-20A-50A
L0HC5601	Motor Mate - Horizontal Top Entry 50A-20A-50A

Interface Description

The Type L0HC Series MotorMates utilize industrial 'Klippon' style connectors that employ friction tabs to ensure secure fastening.





Wiring Assignments

Klippon 4-Pin Bootlace Connector Terminal		
PIN	Description	Signal
1	Phase A Signal Scaled	4-20mA
2	Phase B Signal Scaled	4-20mA
3	Phase C Signal Scaled	4-20mA
4	Reference Supply	Supply

The scaled signal represents the calibrated current range in AMPS: for example, 0-500A equates to 4-20mA etc.

Electrical Characteristics

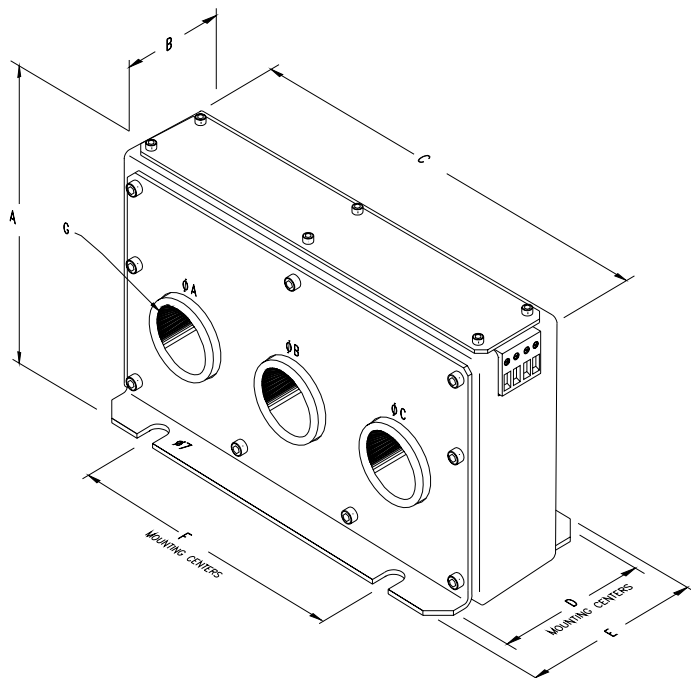
Supply	
Voltage	24VDC
Wattage MIN	0.3W
Wattage MAX	1.7W

Analog Outputs	
Installed	3
Type	4-20mA
Resolution	10 bits (1024 units)

Environmental	
Operating Temperature	Minus 20°C to +85°C
Humidity	Tested to 85%
MTBF	10,000 hours



Mechanical Characteristics



Dimension	Measurement	Description
A	97	Height
B	56	Depth
C	167	Width
D	71	Mounting Centre – Depth
E	86.5	Mounting Flange – Depth
F	100	Mounting Centre – Width
G	24	Cable Gauge

Notes

- All dimension measurements are in millimetres.

Material

- Enclosure is Electroless nickel plated mild steel.
- Mounting brackets are stainless steel.

Fasteners

- M4 x 10mm x 20
- M3 x 6mm x 10

Mass

1.7kg (3.7lb)