UNIVERSAL RTD / MP-3000

Product Data Sheet

2D78559G01

Universal RTD Interface Module

RTD CAPACITY	MOTOR WINDING RTD INPUTS	MOTOR BEARING RTD INPUTS	LOAD BEARING RTD INPUTS
11	6	2	2

Cutler-Hammer 2D78559G01 is the Universal RTD module used to bring temperature measurements into the MP-3000 motor protection relay. It accepts up to eleven RTDs allocated to motor windings, motor bearings, load bearings and an auxiliary measuring point.

01 TECHNICAL DATA

RTD capacity	11
Motor winding RTD inputs	6
Motor bearing RTD inputs	2
Load bearing RTD inputs	2
Auxiliary RTD inputs	1
Control supply	120 V AC
Power demand	6 VA
Optical link distance	400 ft / 121.9 m maximum
Wired link distance	499 ft / 152 m maximum
Electrical data connection	Three conductors

Eaton MP-3000 Instruction Manual IM02602002E, URTD accessory identity, sensor data and connection diagrams.

02 ADDITIONAL PRODUCT DATA

Recommended RTD wiring	Shielded three-conductor, 18 AWG
Mounting orientation	Any orientation
RTD terminals per channel	3
Minimum optical-fiber bend radius	Greater than 50.8 mm
Supported RTD elements	10 ohm copper; 100/120 ohm nickel; 100 ohm platinum

03 PRODUCT FUNCTION

The module multiplexes these temperature readings onto an optical link or a three-conductor electrical connection. A separate 120 V AC supply powers the module, allowing it to be mounted near the RTD wiring while the protection relay remains at the control-panel location.

04 SYSTEM COMPATIBILITY

Provide 120 V AC control power with a 6 VA allowance at the module location. The optical connection may extend to 121.9 m and the electrical communication link to 152 m; the manual recommends optical transmission where practicable.

05 REFERENCE

Eaton MP-3000 Instruction Manual IM02602002E, URTD accessory identity, sensor data and connection diagrams.

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