EMT6-DB-066401

EMT6 Thermistor Overload Relay

CONTROLLED ENGINEERING COPY

Wire the PTC measuring circuit separately from power conductors, confirm the 230 V AC control supply, and prove trip, reset, lock, and contact behavior with the driven machine isolated.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	EMT6-DB-066401
Manufacturer part	EMT6-DB-066401
Hardware type	066401
System family	Eaton Moeller EMT6 machine-protection relay

1 PLAN — 2 ISOLATE — 3 CONNECT — 4 CONFIGURE — 5 TEST

APTER POWER SALES TEAM

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01 PRE-INSTALLATION PLAN

1. Verify EMT6-DB-066401 and catalog number 066401 before panel work.
2. Isolate the 230 V AC control circuit and prove all terminals de-energized.
3. Keep the PTC measuring pair separated from motor power and switching conductors.
4. Check total thermistor-loop resistance before energizing the relay.
5. Confirm the required manual or remote reset arrangement and lock setting.

MATCHED HARDWARE

- PTC thermistor chain
- machine contactor or control circuit
- 230 V AC control supply
- remote-reset circuit

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	EMT6-DB-066401 / EMT6-DB-066401 recorded
Physical interface	PTC thermistor chain
Companion check	machine contactor or control circuit
Functional proof	Evaluates a PTC thermistor circuit embedded in protected machinery
Application test	Motor-winding overtemperature protection

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Catalog number	066401
Control voltage	230 V AC, 50/60 Hz
Measuring circuits	1
Output contacts	1 NC + 1 NO
Trip resistance	3600 Ohm
Reset resistance	1600 Ohm
Measuring range	750 to 12000 Ohm
Rated switch current	6 A
Terminal torque	1.2 N m
Terminal screw	M3.5
Conductor range	0.5 to 2.5 mm2
Power consumption	3.5 VA AC
Degree of protection	IP20
Operating temperature	-25 to +60 degC

FIELD NOTE

Wire the PTC measuring circuit separately from power conductors, confirm the 230 V AC control supply, and prove trip, reset, lock, and contact behavior with the driven machine isolated.

03 COMMISSIONING WORKFLOW

1. Confirm EMT6-DB-066401 and part number EMT6-DB-066401 against the installed record.
2. Verify the physical connection to PTC thermistor chain.
3. Apply the documented technical values for catalog number.
4. Exercise the function: evaluates a ptc thermistor circuit embedded in protected machinery.
5. Run a controlled test for motor-winding overtemperature protection.
6. Record the final state, diagnostics and operator acceptance before release.

COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	EMT6-DB-066401 / EMT6-DB-066401 recorded
Physical interface	PTC thermistor chain
Companion check	machine contactor or control circuit
Functional proof	Evaluates a PTC thermistor circuit embedded in protected machinery
Application test	Motor-winding overtemperature protection

04 RETURN-TO-SERVICE RECORD

- [ ] Apply the published terminal torque without damaging fine control conductors.
- [ ] Use the TEST function to verify contact transfer and downstream interlock logic.
- [ ] Record the trip, reset, LED, and contact results before returning the motor to service.
- [ ] Confirm the intended process response before normal operation.

VERIFICATION RECORD

TECHNICIAN _____

DATE _____

CABINET / POSITION _____

FINAL DIAGNOSTIC STATE _____

FUNCTIONAL ACCEPTANCE CHECKLIST

- [ ] Confirm EMT6-DB-066401 remains assigned to the documented Eaton Moeller EMT6 machine-protection relay position.
- [ ] Verify the connection to PTC thermistor chain and machine contactor or control circuit.
- [ ] Exercise the intended function: evaluates a ptc thermistor circuit embedded in protected machinery.
- [ ] Retain the diagnostic and functional-test result for motor-winding overtemperature protection.

SOURCE IDENTIFIERS

Eaton EMT6 Thermistor Machine Protection Relay Product Data

Catalog 066401

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