

Read this document carefully before using this device. The guarantee will be expired by device demages if you don't attend to the directions in user manual. Also we don't accept any compensations for personal injury, material damage or capital disadvantages.

ENDA EPCR02 CURRENT PROTECTION RELAY

Thank you for choosing ENDA EPCR02 Rail mounted current protection relays.



- * Low-current protection
- * Current set value can be adjusted
- * Start, error condition time can be adjusted
- * Contact output for system control (OUT)
- * Rail monted, screw-terminal connection
- * CE marked according to European Norms

ORDER CODE EPCR02 - Current Protection Relay



Technical Specifications

OPERATING

ENDA Current protection relays are designed for in order to protecting the atached systems from overcurrent or low-current loads. Before device is turned on, timing, set and mode values must be set.

1- Overcurrent Protection: For this mode potentiometer must be on UpL position.

When device is powered, output relay status will be ON. During the first operation, system will loaded overcurrent at momentary. For this reason, in order to avoid the device from entering the error mode, start delay time activated. At the end of this period, if the measured current greater than adjusted set value, error condition activated. During this time, current value does not below the set value, output relay status will be OFF. Device restarts after 5 sec delay time but the start button must be pressed for running the system.

ALARM CONDITIONS

2- Low-current Protection: For this mode potentiometer must be on LoL position.

When device is powered, output relay status will be ON. During the first operation, in order to avoid the device from entering the error mode, start delay time activated. At the end of this period, if the measured current lower than adjusted set value, error condition activated. During this time, current value does not upper the set value, output relay status will be OFF. Device restarts after 5 sec delay time but the start button must be pressed for running the system

Start delay time activated

Repeated start delay time (5 seconds) activated

CONTROL		
Start delay time (t _S)	1, 2, 6, 8, 10 sec, can be selected on device.	
Error delay time (t _e)	0.5, 1, 2, 3, 4, 5 sec, can be selected on device.	
Current set value (A)	0.5, 1, 2, 3, 4, 5 A AC can be selected on device.	
Overcurrent protection	Mode potentiometer must be on UpL position.	
Low-current protection	Mode potentiometer must be on LoL position.	
Current frequency range	45-65 Hz.	

LEDx LED Status Description ON Device running PWR Device not running OFF ON Relay activated OUT OFF Relay deactivated AL1 OFF. AL2 OFF System running normaly (No faulty condition) AL1/AL2 AL1 ON, AL2 OFF Low current AL1 OFF, AL2 ON Overcurrent

AL1 and AL2 Blinking slowly

AL1 and AL2 Fast blink

While the Relay LED in ON state and If, the AL1 and/or AL2 alarm LEDs are in ON state, delay time is active. When delay time is over, out Relay and LED state turns off.

	CI	CO	
7	2	201	
	7.75		

SISEL MÜHENDISLIK ELEKTRONIK SAN VE TIC. A S Şerifali Mah. Barbaros Cad. No:18 Y.Dudullu 34775 ÜMRANİYE/İSTANBUL-TURKEY Tel: +90 216 499 46 64 Pbx. Fax: +90 216 365 74 01



ELECTRICAL CHARACTERISTICS Supply voltage 125-310V AC +%10 -%10 Operating frequency 45-65 Hz Power consumption Max. 10VA. Connection Screw-terminal connection. Reset time Max. 0.01 seconds Accuracy Depending on the effect of voltage : Max. %1 : Max. %5 Measurement error Depending on the effect of temperature : Max %1 FMC EN 61326-1: 2012 Safety requirements EN 61010-1: 2010 (pollution degree 2, overvoltage category II) Insulation test voltage 3kV AC min. 1 minute, 4,2kV DC min. 1 minute.

ENVIRONMENTAL CONDITIONS

Ambient/storage temperature	0 +50°C/-25 +70°C (With no condensation and icing).
Max. relative humidity	Max. humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40°C. (With no condensation and icing).
Rated pollution degree	IP20, According to EN 60529
Height	Max. 2000m

Do not use the device in locations subject to corrosive and flammable gasses.

Approx. 90g (after packaging)

Self extinguishing plastics

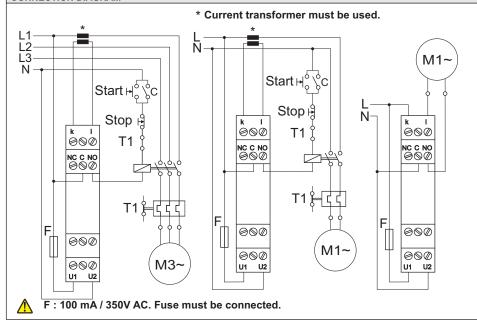
OUTPUTS

Control output (OUT)	Relay: 250V AC, 10A (for resistive load), NO+NC	
Life expectancy for relay	Without load 10.000.000 operation; 250V AC, 10A resistive load 50.000 operation.	
Control output state	Out LED control output (OUT) lights up when device is powered.	
CONTROL		
Mounting	Rail mounted (EN 60715, Th35)	
Dimensions	W18xH84xD62mm	

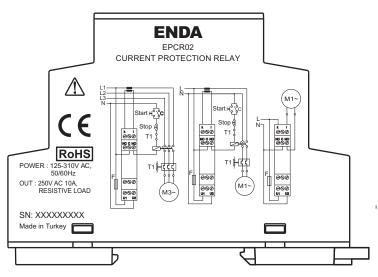


While cleaning the device, solvents (thinner, benzine, acid etc.) or corrosive materials must not be used.

CONNECTION DIAGRAM

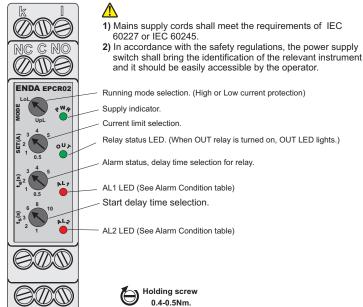


CONNECTION DIAGRAM





ENDA EPCR02 Series current protection relays are rail mounted devices. Make sure that the device is used only for intended purpose. The shielding must be grounded on the instrument side. During an installation, all of the cables that are connected to the device must be free of energy. The device must be protected against inadmissible humidity, vibrations, severe soiling and make sure that the operation temperature is not exceeded. All input and output lines that are not connected to the supply network must be laid out as shielded and twisted cables. These cables should not be close to the power cables or components. The installation and electrical connections must be carried on by a qualified staff and must be according to the relevant locally applicable regulations.



DIMENSIONS

