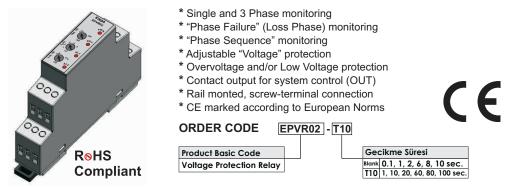


Read this document carefully before using this device. The guarantee will be expired by device demages if you don't attend to the directions in user manual. Also we don't accept any compensations for personal injury, material damage or capital disadvantages.

# ENDA EPVR02 VOLTAGE PROTECTION RELAY

Thank you for choosing ENDA EPVR02 Rail mounted voltage protection relays.



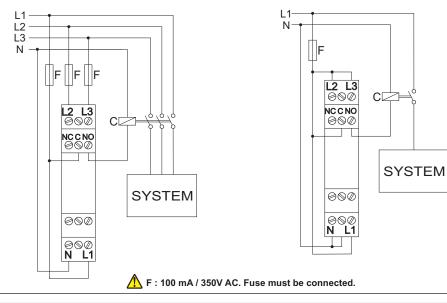
# **Technical Specifications**

OPERAT	ING					
	age protection es and overloa		ned in order to prote	ct systems from surges, imbalance between the phase sequence of the		
1- Phase F				ected, output relay status will be OFF immediately. With the return to the out relay status will be ON immediately.		
			n case of incorrect phase sequence connection, relay status will be OFF immediately. With the return to the normal state of the phase sequences, the output relay status will be ON immediately.			
		ons of the mains cha	es exceeds, output relay status will be OFF end of the set delay time. Little anges is not considered. System has 3% (6V) hysteresis protection for			
	ltage and/or v Voltage pro			input phase exceeds 40% and/or fall to 40%, output relay status will be OF to the normal operating voltage, output relay status will be ON immediately		
	alarm sequer	nces : Phase f	ailure, phase seque	ence, overvoltage and very low voltage, high voltage, low voltage.		
CONTRO						
Delay time (te) adjustment			0.1, 1, 2, 6, 8, 10 c	or 1, 10, 20, 60, 80, 100sec. (for EPVR02-T10) can be selected on device		
Voltage lov		L) adjutment		C can be selected on device.		
Voltage lov Voltage up	per limit (Up	L) adjutment DL) adjutment	240, 270, 300 VA			
/oltage lov /oltage up lysteresis	per limit (Up (V)		240, 270, 300 VA 6 VAC.	C can be selected on device.		
/oltage lov /oltage up lysteresis Overvoltag	per limit (Up (V) ge (V)		240, 270, 300 VA 6 VAC. 308 VAC.	C can be selected on device.		
/oltage lov /oltage up lysteresis Overvoltag _ow voltag	per limit (Up (V) ge (V) ge (V)	bĹ) adjutment	240, 270, 300 VA 6 VAC.	C can be selected on device.		
/oltage low /oltage up Hysteresis Dvervoltag Low voltag	per limit (Up (V) ge (V)	bĹ) adjutment	240, 270, 300 VA 6 VAC. 308 VAC.	C can be selected on device.		
/oltage lov /oltage up lysteresis Overvoltag _ow voltag	per limit (Up (V) ge (V) ge (V) CONDITIC	bĹ) adjutment	240, 270, 300 VA 6 VAC. 308 VAC.	C can be selected on device.		
/oltage lov /oltage up lysteresis Dvervoltag ow voltag ALARM LEDx	per limit (Up (V) ge (V) ge (V) CONDITIC	DL) adjutment	240, 270, 300 VA 6 VAC. 308 VAC.	C can be selected on device. C can be selected on device.		
/oltage low /oltage up lysteresis Overvoltag ow voltag	per limit (Up (V) ge (V) ge (V) CONDITIC	DNS DNS D Status OFF	240, 270, 300 VA 6 VAC. 308 VAC.	C can be selected on device. C can be selected on device. Description		
Voltage lov Voltage up Hysteresis Dvervoltag Low voltag ALARM LEDx PWR	per limit (Up (V) ge (V) ge (V) CONDITIC	DNS DNS DStatus ON	240, 270, 300 VA 6 VAC. 308 VAC.	C can be selected on device. C can be selected on device. Description Device running		
/oltage lov /oltage up lysteresis Dvervoltag ow voltag ALARM LEDx	per limit (Up (V) ge (V) ge (V) CONDITIC	DNS DNS DStatus OFF	240, 270, 300 VA 6 VAC. 308 VAC.	C can be selected on device. C can be selected on device. Description Device running Device not running		
Voltage lov Voltage up Hysteresis Dvervoltag Low voltag ALARM LEDx PWR	per limit (Up (V) je (V) CONDITIC LE AL1 OFF,	DNS DStatus ON OFF ON OFF AL2 OFF	240, 270, 300 VA 6 VAC. 308 VAC.	C can be selected on device. C can be selected on device. Description Device running Device not running Relay activated Relay deactivated System running normaly (No faulty condition)		
Voltage lov Voltage up Hysteresis Dvervoltag Low voltag ALARM LEDx PWR	per limit (Up (V) je (V) CONDITIC LE AL1 OFF, AL1 ON,	DNS DStatus OFF OFF OFF AL2 OFF AL2 OFF	240, 270, 300 VA 6 VAC. 308 VAC.	C can be selected on device. C can be selected on device. Description Device running Device not running Relay activated Relay deactivated		
Voltage lov Voltage up Hysteresis Dvervoltag Low voltag ALARM LEDx PWR	Per limit (Up (V) ge (V) CONDITIC CONDITIC LE AL1 OFF, AL1 OFF, AL1 OFF,	DNS DStatus ON OFF ON OFF AL2 OFF AL2 OFF AL2 ON	240, 270, 300 VA 6 VAC. 308 VAC.	C can be selected on device. C can be selected on device. Description Device running Device not running Relay activated Relay deactivated System running normaly (No faulty condition)		
foltage low /oltage up/ lysteresis Overvoltag cow voltag ALARM LEDx PWR OUT	Per limit (Up (V) Je (V) Je (V) CONDITIC CONDITIC LE AL1 OFF, AL1 OFF, AL1 OFF, AL1 ON,	DNS D Status ON OFF OFF AL2 OFF AL2 OFF AL2 ON AL2 ON AL2 ON	240, 270, 300 VA 6 VAC. 308 VAC. 132 VAC.	C can be selected on device. C can be selected on device. Device running Device not running Relay activated Relay deactivated System running normaly (No faulty condition) Low voltage		
Altage low foltage up dysteresis overvoltag ow voltag ALARM ( LEDx PWR OUT AL1	per limit (Up (V) je (V) je (V) CONDITIC CONDITIC LE AL1 OFF, AL1 OFF, AL1 OFF, AL1 ON, AL1 Blinkir	DNS DStatus ON OFF ON OFF AL2 OFF AL2 OFF AL2 OFF AL2 ON AL2 ON ng slowly, AL2 OI	240, 270, 300 VA 6 VAC. 308 VAC. 132 VAC.	C can be selected on device. C can be selected on device. Description Device running Device not running Relay activated Relay deactivated System running normaly (No faulty condition) Low voltage High voltage		
Voltage lov Voltage up Hysteresis Divervoltag ALARM LEDx PWR OUT	per limit (Up (V) je (V) je (V) CONDITIC CONDITIC LE AL1 OFF, AL1 OFF, AL1 OFF, AL1 ON, AL1 Blinkir	DNS D Status ON OFF OFF AL2 OFF AL2 OFF AL2 ON AL2 ON AL2 ON	240, 270, 300 VA 6 VAC. 308 VAC. 132 VAC.	C can be selected on device. C can be selected on device. Description Device running Device not running Relay activated Relay deactivated System running normaly (No faulty condition) Low voltage High voltage Low and High voltage		
Altage low foltage up lysteresis Dvervoltag ow voltag ALARM i LEDx PWR OUT	AL1 OFF,	DNS DStatus ON OFF ON OFF AL2 OFF AL2 OFF AL2 OFF AL2 ON AL2 ON ng slowly, AL2 OI	240, 270, 300 VA 6 VAC. 308 VAC. 132 VAC.	C can be selected on device. C can be selected on device. Description Device running Device not running Relay activated Relay deactivated System running normaly (No faulty condition) Low voltage High voltage Low and High voltage Voltage very low		

ELECTRICAL CHARACTERI	STICS		
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		
	Measurement error : Max. %5		
	Depending on the effect of temperature : Max %1		
EMC	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 CONDITI	ONS		
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	n locations subject to corrosive and flammable gasses.		
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		
Weight	Approx. 90g (after packaging)		
Enclosure material	Self extinguishing plastics.		
While cleaning the devi	ce,solvents (thinner,benzine,acid etc.) or corrosive materials must not be used.		

Three Phase Connection

#### Single Phase Connection

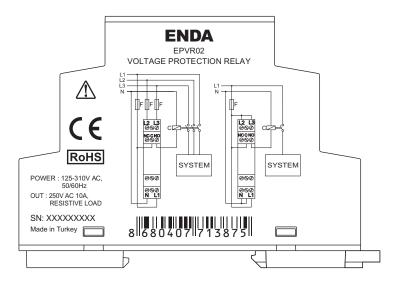




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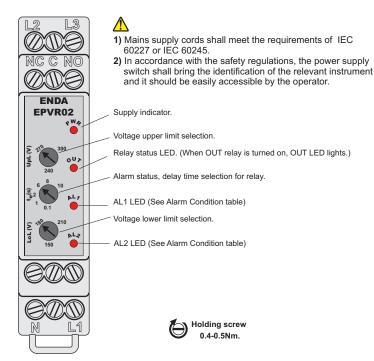
# **CONNECTION DIAGRAM**



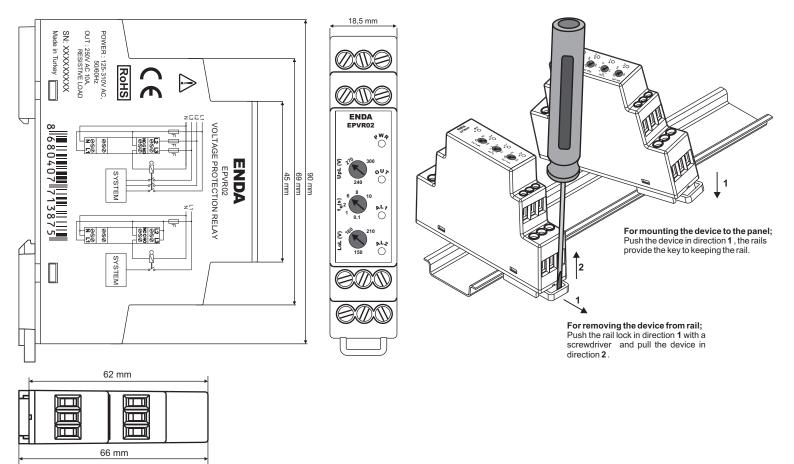


ENDA EPVR02 Series voltage protection relays are rail mounted devices. Make sure that the device is used only for intended purpose. The shielding must be grounded on the instrument side. During an installation, all of the cables that are connected to the device must be free of energy. The device must be protected against inadmissible 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. regulations

### DIMENSIONS



MONTAGE





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