

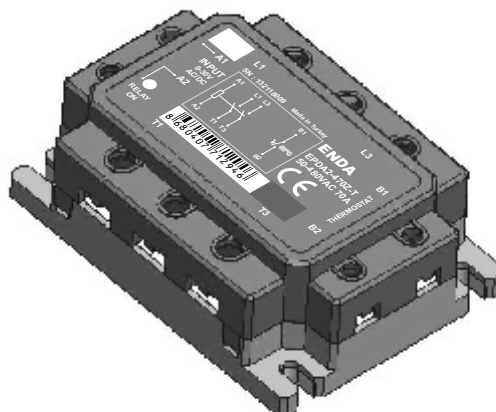


Read this document carefully before using this device. The guarantee will be expired by damaging of the device if you don't attend to the directions in the user manual. Also we don't accept any compensations for personal injury, material damage or capital disadvantages.

ENDA EPDA2 / EPAA2 Panel Mounted Three-phase Solid State Relays

Thank you for choosing ENDA EPDA2 / EPAA2 series Solid State Relays.

- * 460V AC load voltage.
- * 8-30V AC/DC or 90-240V AC input voltage.
- * Led status indicator for input voltage.
- * Zero-cross switching.
- * Applicable for three phase loads.
- * Built-in varistor protection.
- * Fan control thermostat (option).
- * Panel mounted.
- * CE marked according to European Norms.



CE **RoHS**
Compliant

ORDER CODE

Product Basic Code	EPDA2-470Z-T	Option	Thermostat T
Panel type SSR	EP	Switching	Zero crossing Z
Input voltage	8-30V AC/DC D 90-240V AC A	Load current	25A AC 25 40A AC 40 70A AC 70
Load voltage	AC A	Load voltage	50-460V AC 4
Pole number	Two-pole 2		

ENVIRONMENTAL CONDITIONS

Ambient-storage temperature	-25... +60 °C / -30... +100 °C (with no icing and condensation)
Relative humidity	50% Relative humidity for +40°C temperature increases up to 90% at +20°C. (with no condensation)
Pollution degree	2
Overvoltage category	II
Altitude	Max. 1000m
Protection	IP20 According to EN60529



KEEP AWAY device from exposed to corrosive, volatile and flammable gases or liquids and DO NOT USE the device in similar hazardous locations.

OUTPUT

Order Code	EPxA2-425Z-T	EPxA2-440Z-T	EPxA2-470Z-T
Load current, AC51/25°C (Arms)	25	40	70
Load voltage (Vrms)	50 - 460		
Overload current t=10ms/25°C (Arms)	85	150	300
Non rep.surge current/25°C (Arms)	240	400	800
On-state voltage drop (Vrms)	1,6		
Leakage current (mArms)	5	5	10
I ² t for fusing t=10ms (A²s)	200	800	1600
Frequency (Hz)	50 - 60		
Min. operating current (mArms)	160	160	400

THERMAL SPECIFICATIONS

T _j Junction temperature (°C)	≤125
R _{th(j-c)} Junction-case thermal resistance (°C/W)	≤0,6
R _{th(j-a)} Junction-ambient thermal resistance (°C/W)	≤20

INPUT

Order code	EPDA2-4xxZ-T	EPAA2-4xxZ-T
Input voltage	8 - 30Vac/dc	90 - 240Vac
Pick-up voltage	> 6Vac/dc	> 75Vac
Drop-out voltage	< 2Vac/dc	< 6Vac
Input current	< 17mAac/10mAdc	< 8mAac
Turn-on time	Maximum ½ Period	Maximum ½ Period
Turn-off time	Maximum ½ Period	Maximum ½ Period
LED indicator	If the input voltage >6V ac/dc, LED lights up.	If the input voltage >75V ac, LED lights up.

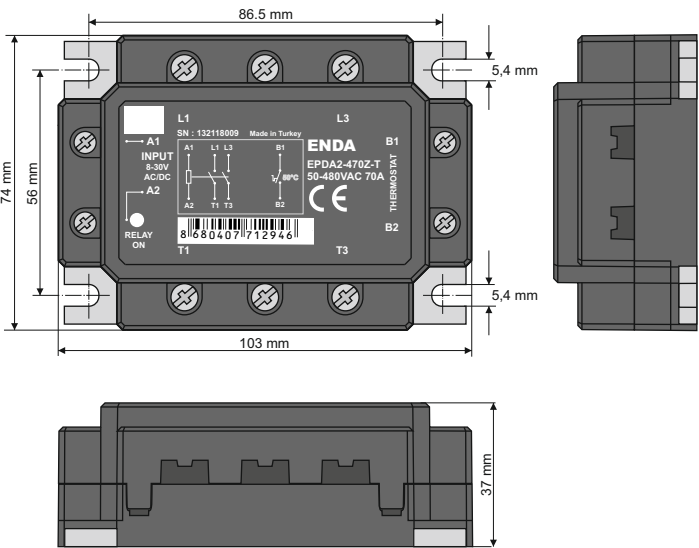
GENERAL

Order code	EPxA2-4xxZ-T
Dimensions	W103xH74xD37mm
Weight	275g (After packaging)
Isolation voltage	2500Vrms between I/O terminals for 1 min.
Connection	For power line 16mm² (with cable terminal 25mm²) cable, for signal line 4mm² cable can be connected.
Terminal screw torque	For power line max. 2,2Nm, for signal line max. 1,2Nm.
Product standard	EN 60947-4-3
Mounting	With M5 screws is mounted to the panel.
Enclosure material	Self extinguishing plastics (According to EN 60695-11-10 V-O)
	The temperature is above 50°C, the SSR works. (24Vdc 2A, 120Vac 2A)

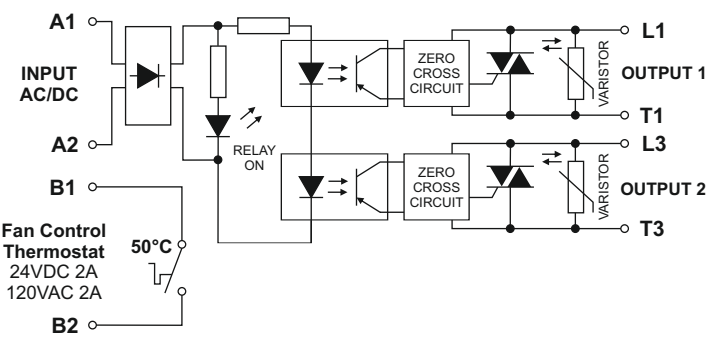


Avoid any liquid contact when the device is switched on.
DO NOT clean the device with solvent (thinner, gasoline, acid etc.) and / or abrasive cleaning agents.

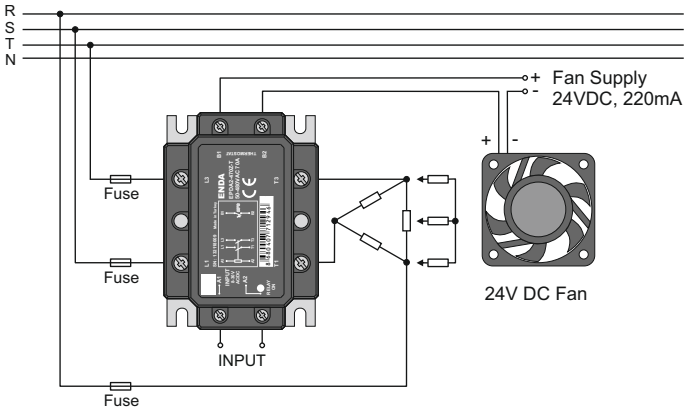
DIMENSIONS



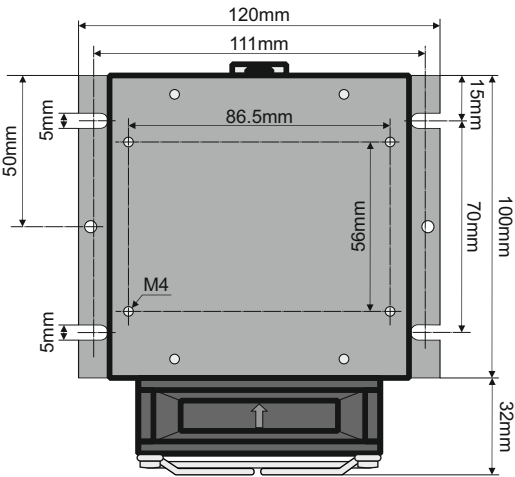
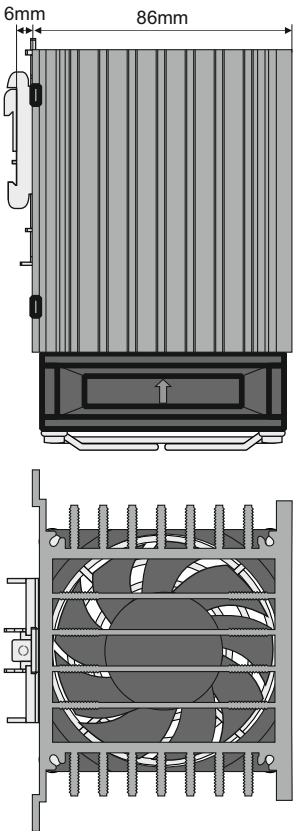
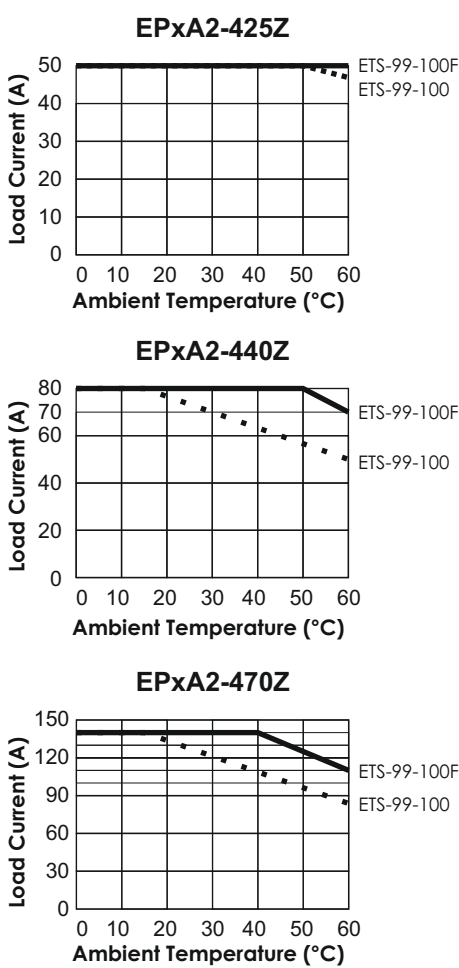
CONNECTION DIAGRAM



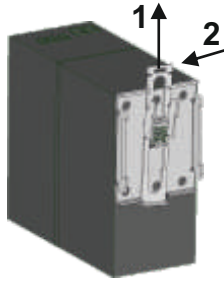
CONNECTION SAMPLES



ENDA ETS-99-100F
RAIL AND PANEL MOUNTED HEAT SINK



INSTALLATION



To mounting the device on rail :
Lock the tab of the mounting apparatus by pulling in direction 1 with a screwdriver. Place the device on the rail and push the tab in direction 2 (to the side) and make shure the device is interlocked to the rail.

To remove the device :
Pull up and lock the tab of the mounting apparatus by pulling in direction 1 with a screwdriver. Remove the device from rail.

Heat Sink Order Code	SSR Current (A)	Dimensions WxHxD (mm)	Thermal Resistance (°C/W)
ETS-99-100	3x25	99x87x100	0,75
ETS-99-100F	3x40-3x50	99x87x125	0,34