

## Load relay - EMG 45-ELR3/1,5 - 2942739

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Electronic load relay, for direct driving of equipment in the 3-phase network, with light indicator and protection circuit, output: 320 V AC .... 440 V AC/3x 1.5 A

### Product Features

- Wear-free
- High switching frequency
- Protective circuit in input and output



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	161.0 g
Custom tariff number	85364900
Country of origin	Germany

### Technical data

#### Input data

Input name	Device supply
Protective circuit	Reverse polarity protection Series polarity protection diode
	Surge protection
Status display	Yellow LED
Input name	Control input right/left
Nominal input voltage $U_N$	24 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.2
Typical input current at $U_N$	20 mA
Reaction time in normal load operation	20 ms
Transmission frequency	1 Hz (with ohmic load)

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## Technical data

### Input data

	1 Hz (At $\cos \phi = 0.5$ )
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### Output data load output

Nominal output voltage	400 V AC
Nominal output voltage range	320 V AC ... 440 V AC
Load current range	50 mA ... 1.5 A (see to derating)
Leakage current	typ. 7 mA
Residual voltage	typ. 1 V
Surge current	100 A ( $t_p = 10$ ms, at 25 °C)
Protective circuit	RC element RC element

### Connection data, control circuit

Connection name	Control circuits
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	24 ... 12

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### General

Test voltage input/output	3.5 kV
Mounting position	Vertical (horizontal DIN rail)
Assembly instructions	Can be aligned with > 20 mm spacing
Operating mode	100% operating factor
Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	EN 50178
Insulation	Basic insulation
Designation	Power station requirements
	EMC regulations

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## Technical data

### General

Standards/regulations	EN 61000-6-2
	EN 61000-6-4

### Dimensions

Width	45 mm
Height	75 mm
Depth	82.5 mm

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 55 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Degree of protection	IP20

### Standards and Regulations

Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	EN 50178
Insulation	Basic insulation
Designation	Power station requirements
	EMC regulations
Standards/regulations	EN 61000-6-2
	EN 61000-6-4

## Classifications

### eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371601
eCl@ss 5.1	27371601
eCl@ss 6.0	27371601
eCl@ss 7.0	27371601
eCl@ss 8.0	27371014

### ETIM

ETIM 2.0	EC000066
ETIM 3.0	EC000066
ETIM 4.0	EC000066
ETIM 5.0	EC002055

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## Classifications

### UNSPSC

UNSPSC 6.01	30211915
UNSPSC 7.0901	39121514
UNSPSC 11	39121514
UNSPSC 12.01	39121514
UNSPSC 13.2	39121514

## Approvals

### Approvals

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Approvals

EAC / EAC

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Ex Approvals

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Approvals submitted

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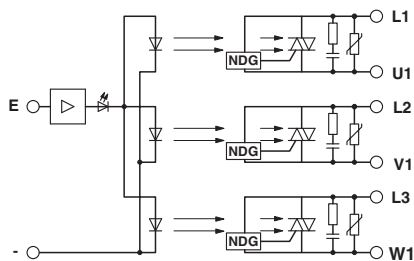
### Approval details

EAC

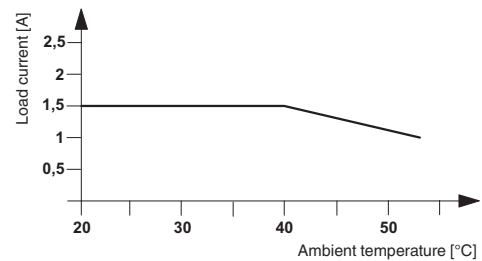
EAC

## Drawings

Block diagram



Diagram





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