

## Reversing load relay - CM 90-ELR-W3/5-R - 2940113

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Electronic reversing load relay, for direct driving of 3-phase equipment in the 3-phase network, with light indicator and protection circuit, output: 400 V AC/ 3 x 5 A

### Key commercial data

Packing unit	1 PCE
Weight per Piece (excluding packing)	662.9 GRM
Custom tariff number	85364900
Country of origin	Germany

### Technical data

#### Dimensions

Width	90 mm
Height	75 mm
Depth	116 mm

#### Ambient conditions

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

#### Input data

Input name	Device supply
Nominal supply voltage	24 V DC
Switch-over frequency	2.5 Hz (RL / LL)
Protective circuit	Protection against polarity reversal Polarity protection diode
	Surge protection
Input name	Control input right/left

#### Output data

Output name	AC output
Nominal output voltage	400 V AC +10 % -20 %

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## Technical data

### Output data

Nominal output voltage range	320 V AC ... 440 V AC
Periodic peak reverse voltage	1000 V
Mains frequency	50 Hz
	60 Hz
Continuous load current	3x 5 A (see derating curve)
Load current	min. 150 mA
Leakage current	7 mA
Residual voltage	1.7 V
Surge current	230 A (t = 10 ms)
Protective circuit/component	RCV circuit
Surge voltage protection	750 V
Output name	Reply output: Alarm Contact
Nominal output voltage	24 V DC +25% -20%
Continuous load current	100 mA
Protective circuit/component	Decoupling diode
Type of protection	Free running
Protective circuit/component	Damping diode
Status display	LED
Output name	Reply output: "right / left"
Number of outputs	2
Nominal output voltage	24 V DC +25% -20%
Continuous load current	100 mA
Protective circuit/component	Decoupling diode
Type of protection	Free running
Protective circuit/component	Damping diode
Status display	LED

### Connection data

Connection method	Screw connection
Stripping length	8 mm
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14
Screw thread	M3

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## Technical data

### General

Test voltage input/output	3.5 kV AC
Mounting position	Vertical (horizontal DIN rail)
Assembly instructions	Can be aligned with spacing = 20 mm
Operating mode	100% operating factor
Standards/regulations	IEC 60664
	IEC 60664 A
	DIN VDE 0110
	DIN VDE 0106-101
	DIN VDE 0160 (in relevant parts)
	IEC 801-5

## 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

### ETIM

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

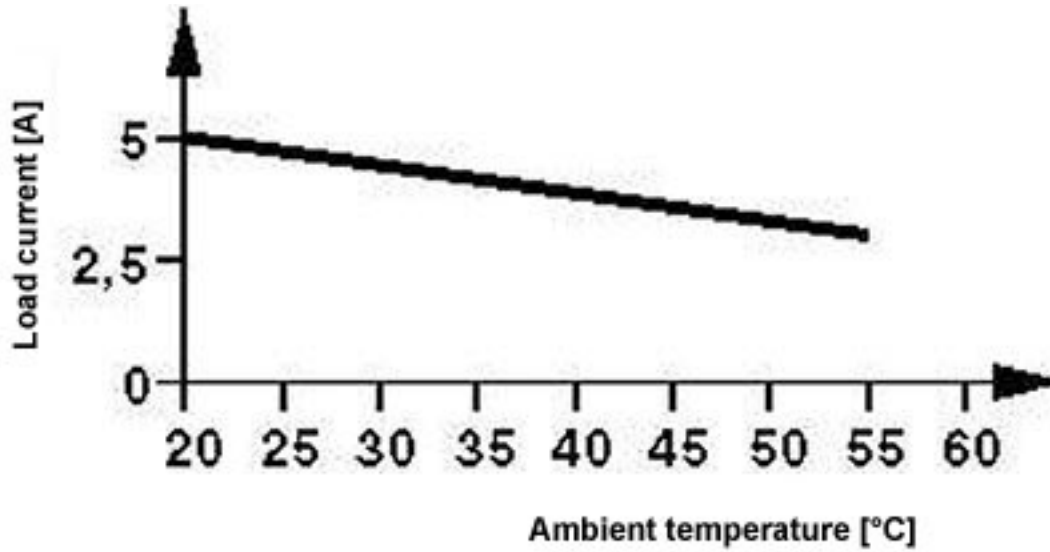
### UNSPSC

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

## Drawings

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Diagram



Circuit diagram

