

Multiple relay module - EMUG 45- 4REL/KSR-G 24/21 - 2943767

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Relay module, multi-channel, with 4 soldered-in miniature switching relays for DC voltage with light indicator and 1 PDT each, contact for medium to large loads, input voltage 24 V DC

Key commercial data

package_quantity	5
GTIN	4017918081317

Technical data

Dimensions

Width	45 mm
Height	60 mm
Depth	79 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 55 °C
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Coil side

Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	0.8 ... 1.1
Nominal input current at U_{IN}	21 mA
Typical response time	7 ms
Typical release time	11 ms
Operating voltage display	Yes
Protective circuit	Damping diode, polarity protection Damping diode, polarity protection diode

Contact side

Contact type	Single contact, 1-PDT
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Maximum inrush current	8 A
Limiting continuous current	6 A
Interrupting rating (ohmic load) max.	95 W (at 24 V DC)
Interrupting rating (ohmic load) max.	50 W (at 48 V DC)
Interrupting rating (ohmic load) max.	45 W (at 60 V DC)
Interrupting rating (ohmic load) max.	35 W (at 110 V DC)

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Contact side

Interrupting rating (ohmic load) max.	55 W (at 220 V DC)
Interrupting rating (ohmic load) max.	1500 VA (for 250 V AC)

General

Test voltage relay winding/relay contact	2.5 kV AC (50 Hz, 1 min.)
Operating mode	100% operating factor
Mechanical service life	Approx. 2×10^7 cycles
Standards/regulations	IEC 60664
Standards/regulations	IEC 60664 A
Standards/regulations	DIN VDE 0110
Standards/regulations	DIN VDE 0109-11, draft
Standards/regulations	DIN EN 50178/VDE 0160
Standards/regulations	IEC 60255/DIN VDE 0435 (in relevant parts)
Pollution degree	2
Surge voltage category	III
Mounting position	Any
Assembly instructions	In rows with zero spacing

Connection data

Connection method	Screw/plug-in connection
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classifications

eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371001
eCl@ss 7.0	27371001
eCl@ss 8.0	27371001

ETIM

ETIM 2.0	EC000196
ETIM 3.0	EC000196
ETIM 4.0	EC000196
ETIM 5.0	EC000196

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121543
UNSPSC 11	39121543
UNSPSC 12.01	39121543
UNSPSC 13.2	39121543

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accessories

EMG-GKS 12 - 2947035



MSTB-SET/EMUG 45- 4REL - 1780248

MSTBP-SET/EMUG 45- 4REL - 1780277

MVSTBR-SET/EMUG 45- 4REL - 1780303

FRONT-MSTB-SET/EMUG 45- 4REL - 1780332

Drawings

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Circuit diagram

