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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Relay Module - EMG 10-REL/KSR-120/21-LC - 2964445

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Relay module, with soldered-in miniature switching relay, contact (AgNi): Medium to large loads, 1 PDT, input voltage 120 V AC/DC


The figure shows the EMG 10-REL/  
KSR-G 24/21-LC variant

### Why buy this product

- Safe isolation according to DIN EN 50178 between coil and contact
- Integrated input circuit and interference suppression circuit



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 125110
Weight per Piece (excluding packing)	42.56 g
Custom tariff number	85364900
Country of origin	Germany

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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#### Dimensions

Width	10.6 mm
Height	75 mm
Depth	62.5 mm

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## Technical data

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 40 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

### Coil side

Nominal input voltage $U_N$	120 V AC/DC
Input voltage range in reference to $U_N$	0.8 ... 1.1
Typical input current at $U_N$	5 mA
Typical response time	7 ms
Typical release time	11 ms
Protective circuit	Bridge rectifier Bridge rectifier
	Surge protection Varistor
Operating voltage display	Yellow LED
Power dissipation for nominal condition	0.6 W

### 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.	140 W (at 24 V DC)
	53 W (at 48 V DC)
	45 W (at 60 V DC)
	35 W (at 110 V DC)
	55 W (at 220 V DC)
	1500 VA (for 250 V AC)

### General

Test voltage relay winding/relay contact	4 kV AC (50 Hz, 1 min.)
Operating mode	100% operating factor
Mechanical service life	Approx. $2 \times 10^7$ cycles
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated surge voltage/insulation	Basic insulation
Degree of pollution	2
Overvoltage category	III
Mounting position	any
Assembly instructions	In rows with zero spacing

## Relay Module - EMG 10-REL/KSR-120/21-LC - 2964445

### Technical data

#### Connection data input side

Connection name	Coil side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.2 mm² ... 4 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12

#### Connection data output side

Connection name	Contact side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.2 mm² ... 4 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12

### Standards and Regulations

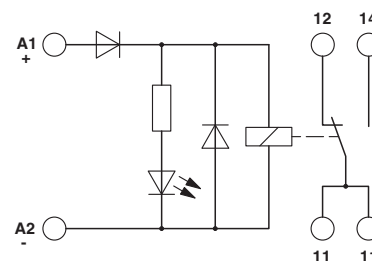
Connection in acc. with standard	CUL
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated surge voltage/insulation	Basic insulation
Degree of pollution	2
Overvoltage category	III

### Drawings

Connection diagram



Circuit diagram





## Relay Module - EMG 10-REL/KSR-120/21-LC - 2964445

### 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	27371601
eCl@ss 9.0	27371601

#### ETIM

ETIM 2.0	EC000196
ETIM 3.0	EC000196
ETIM 4.0	EC000196
ETIM 5.0	EC001437

#### UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39121515

### Approvals

#### Approvals

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##### Approvals

UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

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##### Ex Approvals

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##### Approvals submitted


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##### Approval details

## Relay Module - EMG 10-REL/KSR-120/21-LC - 2964445


### Approvals

UL Recognized 

cUL Recognized 

EAC

EAC

cULus Recognized 

### Accessories

#### Accessories

Marking material - EMG-SGKS 10 - 2947585



Equipment marker, narrow