

2944216

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Power solid-state relay, with LED and protective circuit in input and output circuits, input: 12 V DC, output: 5 - 36 V DC/max. 1 A

Commercial data

Item number	2944216
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	CK61C2
Catalog page	Page 138 (IF-2011)
GTIN	4017918081515
Weight per piece (including packing)	38.35 g
Weight per piece (excluding packing)	38.35 g
Customs tariff number	85364190
Country of origin	DE

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Technical data

Notes

Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area
Product properties	
Product type	Solid-state relay module
Application	Output function
Operating mode	100% operating factor
Insulation characteristics	
Insulation	Basic insulation
Insulation characteristics	
Insulation	Basic insulation

Electrical properties

Test voltage (Input/output)	3.5 kV AC (Input/output)
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Input data

Nominal input voltage U _N	12 V DC
Input voltage range in reference to ${\rm U}_{\rm N}$	0.9 1.1
Input voltage range	10.8 V DC 13.2 V DC
Switching threshold "0" signal in reference to ${\rm U}_{\rm N}$	≤ 0.33
Switching threshold "1" signal in reference to ${\rm U}_{\rm N}$	≥ 0.9
Typical input current at U _N	4 mA
Typical response time	0.1 ms
Typical turn-off time	0.2 ms
Status display	Yellow LED
Protective circuit	Reverse polarity protection; Polarity protection diode
Transmission frequency	500 Hz

Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
Output nominal voltage	24 V DC
Output voltage range	5 V DC 36 V DC
Limiting continuous current	1 A (see derating curve)
Surge current	2 A (t = 1 s)
Peak offstate voltage	45 V DC (Collector-emitter reverse voltage)
Voltage drop at max. limiting continuous current	≤ 1 V
Output circuit	2-conductor, floating

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	Protective circuit	Reverse polarity protection; Polarity protection diode
Сс	onnection data	
	Input side	

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm ² 4 mm ²
Conductor cross section flexible	0.2 mm ² 2.5 mm ²
Conductor cross section AWG	24 12

Output side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm² 4 mm²
Conductor cross section flexible	0.2 mm ² 2.5 mm ²
Conductor cross section AWG	24 12

Dimensions

Width	10 mm
Height	75 mm
Depth	102 mm

Material specifications

Color	green (RAL 6021)
Flammability rating according to UL 94	VO

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C 50 °C
Ambient temperature (storage/transport)	-20 °C 70 °C

Standards and regulations

Standards/regulations	IEC 60664
	EN 50178

Mounting

Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing
Mounting position	any



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Classifications

ECLASS

ECLASS-11.0	27371604
ECLASS-12.0	27371604
ECLASS-13.0	27371604

ETIM

	ETIM 9.0	EC001504		
UN	UNSPSC			
	UNSPSC 21.0	39122300		



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Environmental product compliance

REACh SVHC	Lead 7439-92-1
	Hexahydromethylphthalic anhydride
China RoHS	
China RoHS	Environmentally Friendly Use Period = 50 years

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