

Solid-state relay terminal block - DEK-OV- 5DC/ 24DC/ 10 - 2961752

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Power solid-state relay terminal block, input: DC voltage, output: DC voltage, input voltage: 5 V DC

Product Features

- Actuator version available
- EB-DIK insertion bridges
- Labeling and mounting with user-friendly modular terminal blocks
- Wear-free switching of up to 24 V DC/10 A or 240 V AC/800 mA
- Integrated output protective circuit
- Zero voltage switch at AC output
- Electrical isolation between input and output at up to 2.5 kVrms
- Status indicator
- Integrated input circuit



Key commercial data

package_quantity	10
GTIN	4017918927950

Technical data

Note:

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

Width	6.2 mm
Height	80 mm
Depth	56 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Input data

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Input data

Nominal input voltage U_N	5 V DC
Input voltage range in reference to U_N	0.8 ... 1.2
Switching threshold "0" signal in reference to U_N	≤ 0.4
Switching threshold "1" signal in reference to U_N	≥ 0.8
Typical input current at U_N	5.1 mA
Typical response time	250 μ s
Typical turn-off time	800 μ s
Operating voltage display	Yellow LED
Type of protection	Protection against polarity reversal
Type of protection	Surge protection
Transmission frequency	100 Hz

Output data

Output voltage range	5 V DC ... 30 V DC
Limiting continuous current	10 A (see derating curve)
Surge current	100 A (t = 20 ms)
Voltage drop at max. limiting continuous current	< 50 mV
Output circuit	3-conductor, ground-referenced
Type of protection	Protection against polarity reversal
Type of protection	Surge protection

Connection data

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

General

Test voltage input/output	2.5 kV AC
Test voltage input/output	2.5 kV (50 Hz, 1 min.)
Mounting position	Any
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor
Name	Standards/regulations
Standards/regulations	IEC 60664
Standards/regulations	EN 50178

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General

Standards/regulations	IEC 62103
Rated surge voltage / insulation	Basic insulation
Pollution degree	2
Surge voltage category	III

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	EC001504
ETIM 3.0	EC001504
ETIM 4.0	EC001504
ETIM 5.0	EC001504

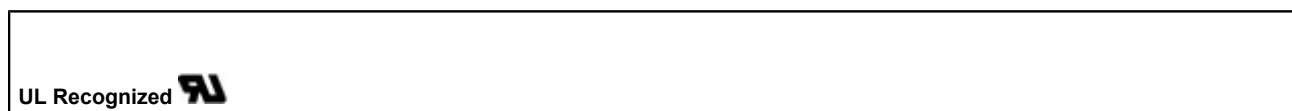
UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121542
UNSPSC 11	39121542
UNSPSC 12.01	39121542
UNSPSC 13.2	39121542

approvals

UL Recognized / cUL Recognized / cULus Recognized /

Approval details



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approvals



accessories

Partition plate

D-DEK 1,5 GN - 2716949



Bridge

EB 2- DIK RD - 2716693



EB 3- DIK RD - 2716745



EB 4- DIK RD - 2716758



Solid-state relay terminal block - DEK-OV- 5DC/ 24DC/ 10 - 2961752

accessories

EB 5- DIK RD - 2716761



EB 10- DIK RD - 2716774



EB 2- DIK BU - 2716648



EB 3- DIK BU - 2716651



EB 4- DIK BU - 2716664



Solid-state relay terminal block - DEK-OV- 5DC/ 24DC/ 10 - 2961752

accessories

EB 5- DIK BU - 2716677



EB 10- DIK BU - 2716680



EB 80- DIK BU - 2715940



EB 80- DIK RD - 2715953



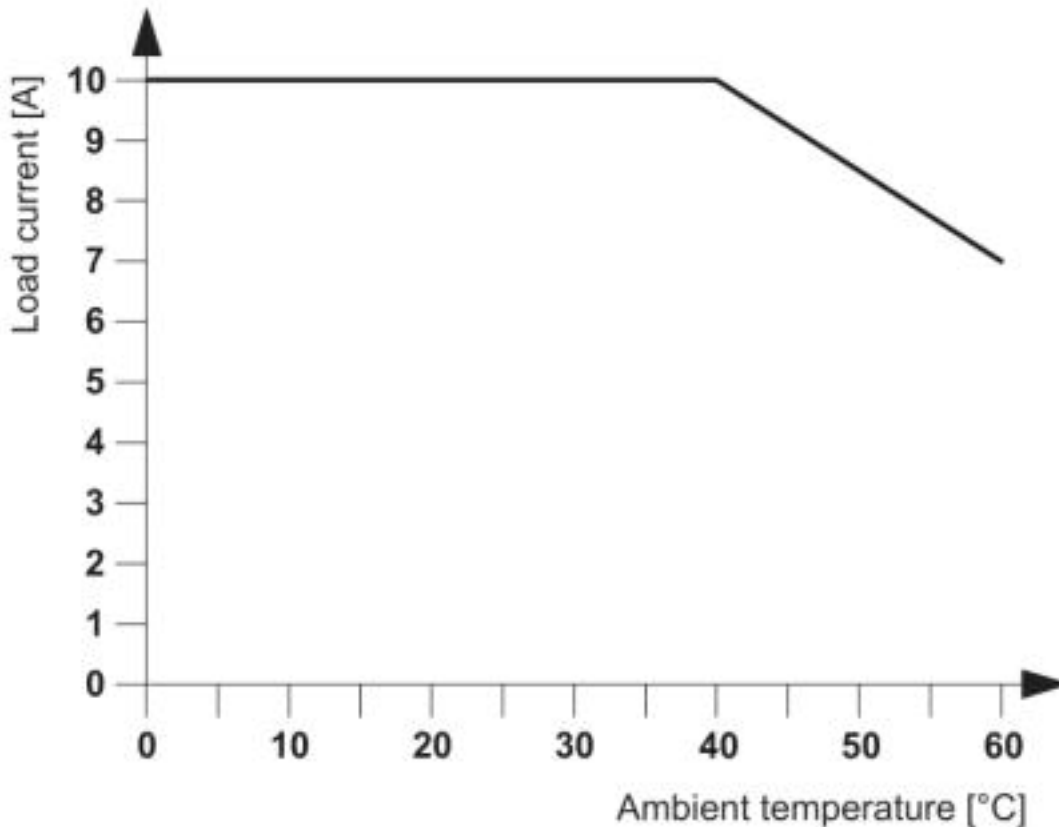
EB 80- DIK WH - 2715788



Drawings

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Diagram



Circuit diagram

