

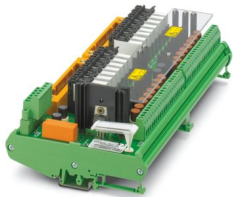
UM-2KS50-RM/16MR/SDV144/SO243 - Relay module



2319854

<https://www.phoenixcontact.com/us/products/2319854>

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16-channel VARIOFACE input relay module with screw connection and 50-pos. system connection, coil side is protected and non-isolated (optional), for Yokogawa SDV 144 cards, module width: 240 mm

Commercial data

Item number	2319854
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK2A9N
GTIN	4046356440332
Weight per piece (including packing)	705.5 g
Weight per piece (excluding packing)	684 g
Customs tariff number	85364900
Country of origin	DE

Technical data

Product properties

Product type	Interface module
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Insulation characteristics: Air clearances and creepage distances, input/output

Insulation	Safe isolation, reinforced insulation
Overvoltage category	III
Pollution degree	2

Insulation characteristics: Air and creepage distances, output/output

Insulation	Safe isolation, reinforced insulation
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Pollution degree	2

Electrical properties

Air clearances and creepage distances, input/output

Rated insulation voltage	150 V
Rated surge voltage	4 kV (1.2/50 µs)

Air and creepage distances, output/output

Rated insulation voltage	150 V
Rated surge voltage	4 kV (1.2/50 µs)

Supported controller: YOKOGAWA ProSafe-RS

Suitable I/O card	SDV144
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Input data

Nominal input voltage U_N	125 V AC (Supply, (P1+, P2+), pluggable fuse (IEC 60127-3/IV, 1AT))
Input voltage range in reference to U_N	0.9 ... 1.1
Input voltage range	112.5 V AC ... 137.5 V AC
Typical input current at U_N	4 mA (± 10 % per channel, pluggable fuse (IEC 60127-3/IV, 0.05AT))
Protective circuit	Freewheeling diode Reverse polarity protection; Polarity protection diode
Operating voltage display	Green LED
Status display/channel	Red LED (fuse failure display)

Output data

Switching

Contact switching type	1 N/O contact
Contact material	AgSnO, hard gold-plated
Maximum switching voltage	24 V AC/DC
Limiting continuous current	50 mA

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Maximum inrush current	1 A (Supply 24 V DC/2 A, (P1+, P2+), pluggable fuse (IEC 60127-3/IV, 2AT))
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Connection data

Field level

Connection method	Screw connection
Number of connections	2
Number of positions	20
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

Controller level

Connection method	Yokogawa, KS compatible
Number of connections	2
Number of positions	50
Tightening torque	0.5 Nm

Supply

Connection method	Screw connection
Number of positions	6
Conductor cross-section rigid	0.34 mm ² ... 2.5 mm ²
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 12

Signaling

Status display present	yes
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Dimensions

Width	240 mm
Height	125.5 mm
Depth	76 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP00
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-20 °C ... 50 °C
Altitude	≤ 2000 m

Standards and regulations

Air clearances and creepage distances, input/output

Standards/regulations	EN 61010-2-201
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Air and creepage distances, output/output

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Standards/regulations	EN 61010-2-201
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Mounting

Mounting type	DIN rail mounting
Mounting position	any

Notes

Notes on operation	Observe the maximum switching power of the relays used
Notes on operation	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
Notes on operation	The outputs are not suitable for switching different line conductors. The sum of the switching voltages used for adjacent outputs must not exceed the rated insulation voltage value
Notes on operation	The necessary requirements for insulation (basic insulation or reinforced insulation) from adjacent modules (in DIN-rail direction) must be realized by applying suitable measures (e. g., partition plates).
Notes on operation	For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met.

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Classifications

UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com