

# UM- 8RM/KSR-G24/21/SI/PLC - Active module



2900892

<https://www.phoenixcontact.com/us/products/2900892>

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VARIOFACE output module, with 8 miniature relays, 1 changeover contact and fuse each, plugged, for 24 V DC (incl. relay)



## Your advantages

- Slim overall width of just 127 mm
- Polarity protection diode
- Supply voltage indicator (LED)
- LED status indicator and freewheeling diode per signal path
- Fuse per output circuit as short-circuit protection
- Plug-in miniature relays each, with a changeover contact with or without lockable manual actuation

## Commercial data

Item number	2900892
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK2191
GTIN	4046356545112
Weight per piece (including packing)	435 g
Weight per piece (excluding packing)	434.8 g
Customs tariff number	85369010
Country of origin	DE

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## Technical data

### Product properties

Product type	Interface module
No. of channels	8
Operating mode	100% operating factor
Mechanical service life	3x 10 <sup>7</sup> cycles
With components	yes

Insulation characteristics: Air and creepage distances, output/output

Overvoltage category	III
Pollution degree	2

### Electrical properties

Air and creepage distances, output/output

Rated insulation voltage	300 V AC
Rated surge voltage	4 kV (Basic insulation between output contact current paths) 6 kV (Safe isolation and reinforced insulation between input circuit and output contact paths)

Supported controller MITSUBISHI MELSEC Q

Suitable I/O card	QY82P
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Supported controller MITSUBISHI MELSEC L

Suitable I/O card	LY41PT1P LY42PT1P
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### Input data

Nominal input voltage $U_N$	24 V DC
Input voltage range in reference to $U_N$	0.9 ... 1.1
Input voltage range	21.6 V DC ... 26.4 V DC
Typical input current at $U_N$	17 mA
Typical response time	8 ms
Typical release time	10 ms
Protective circuit	Freewheeling diode
Operating voltage display	Green LED
Status display/channel	Yellow LED

### Output data

Switching

Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC

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	63 V DC
Minimum switching voltage	12 V AC/DC
Limiting continuous current	3.9 A (observe derating)
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	93 W (24 V DC)
	58 W (48 V DC)
	48 W (60 V DC)
	975 VA (250 V AC)
Output fuse	4 A 5x20 fuse (slow-blow)

## Connection data

### Controller level

Connection method	IDC/FLK pin strip
Number of connections	1
Number of positions	14
Pitch	2.54 mm

### Field level

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 12

### Supply

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Number of connections	2
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 12

## Signaling

Status display present	yes
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## Dimensions

Width	127 mm
Height	112 mm
Depth	59.5 mm

## Material specifications

Color	green (RAL 6021)
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP00
Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

## Standards and regulations

### Air and creepage distances, output/output

Standards/regulations	EN 61010-2-201
	IEC 60664

## Mounting

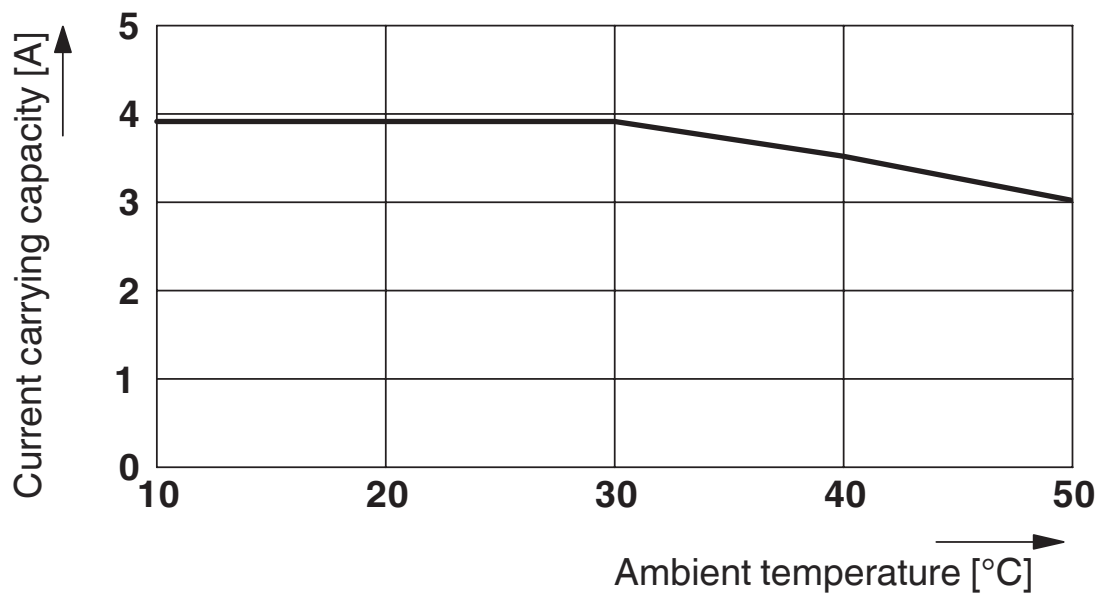
Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

## 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.

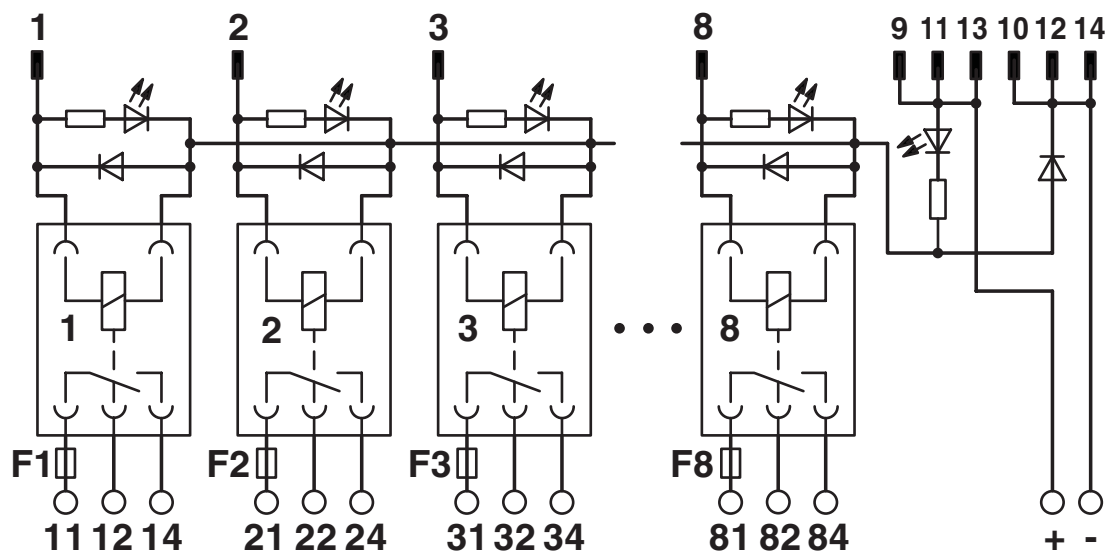
## Drawings

Diagram



Derating curve for limiting continuous current

Circuit diagram



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## Classifications

### ETIM

ETIM 8.0	EC002780
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a)

### 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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)

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