

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



2900893

<https://www.phoenixcontact.com/us/products/2900893>

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VARIOFACE output module, with 8 miniature relays, 1 changeover contact with lockable manual actuation 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 | 2900893 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C421 |
| Product key | DK2191 |
| GTIN | 4046356545129 |
| Weight per piece (including packing) | 462 g |
| Weight per piece (excluding packing) | 435 g |
| Customs tariff number | 85369010 |
| Country of origin | DE |

Technical data

Product properties

| | |
|-------------------------|---------------------------|
| Product type | Interface module |
| No. of channels | 8 |
| Operating mode | 100% operating factor |
| Mechanical service life | 5x 10 ⁶ 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 | 260 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 |
|-------------------|-------|

Supported controller: MITSUBISHI MELSEC L

| | |
|-------------------|----------|
| Suitable I/O card | LY41PT1P |
| | LY42PT1P |

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 | 18 mA |
| Typical response time | 9 ms |
| Typical release time | 6 ms |
| Protective circuit | Free-wheeling diode (integrated in relay) |
| Operating voltage display | Green LED |
| Status display/channel | Yellow LED (integrated in relay) |

Output data

Switching

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

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| | |
|---------------------------------------|---------------------------|
| 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) |
| | 62 W (48 V DC) |
| | 42 W (60 V DC) |
| | 55 W (110 V DC) |
| | 66 W (220 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 ² ... 4 mm ² |
| Conductor cross-section flexible | 0.2 mm ² ... 2.5 mm ² |
| 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 ² ... 4 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 |
|------------------------|-----|

Dimensions

| | |
|--------|--------|
| Width | 127 mm |
| Height | 112 mm |
| Depth | 62 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 | DIN EN 50178 |
| | IEC 60664 |

Mounting

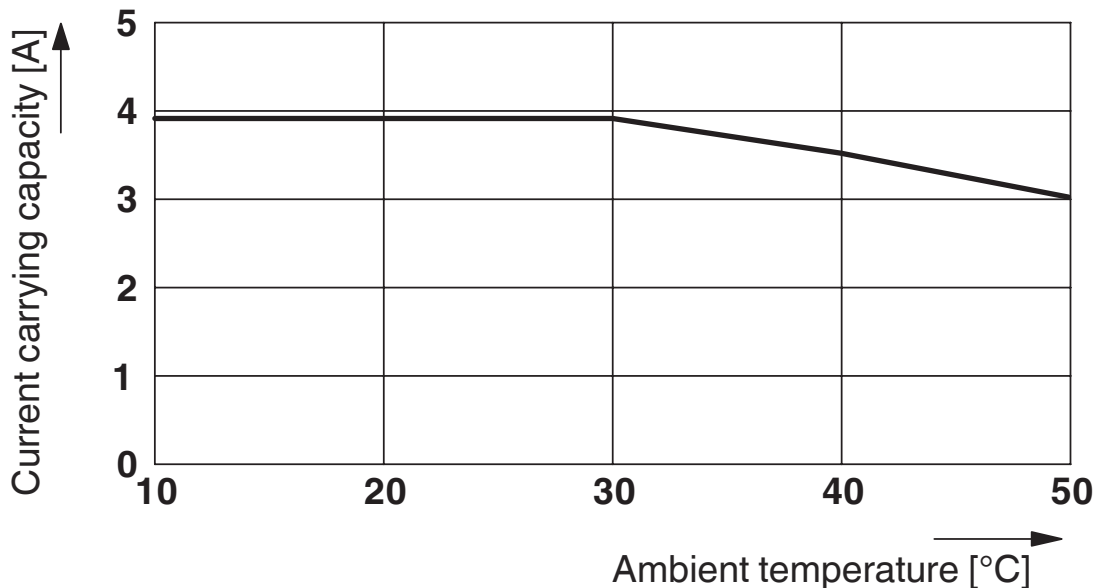
| | |
|-------------------|---------------------------|
| Mounting type | DIN rail mounting |
| Assembly note | in rows with zero spacing |
| Mounting position | any |

Notes

| | |
|--------------------|--|
| 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. |
|--------------------|--|

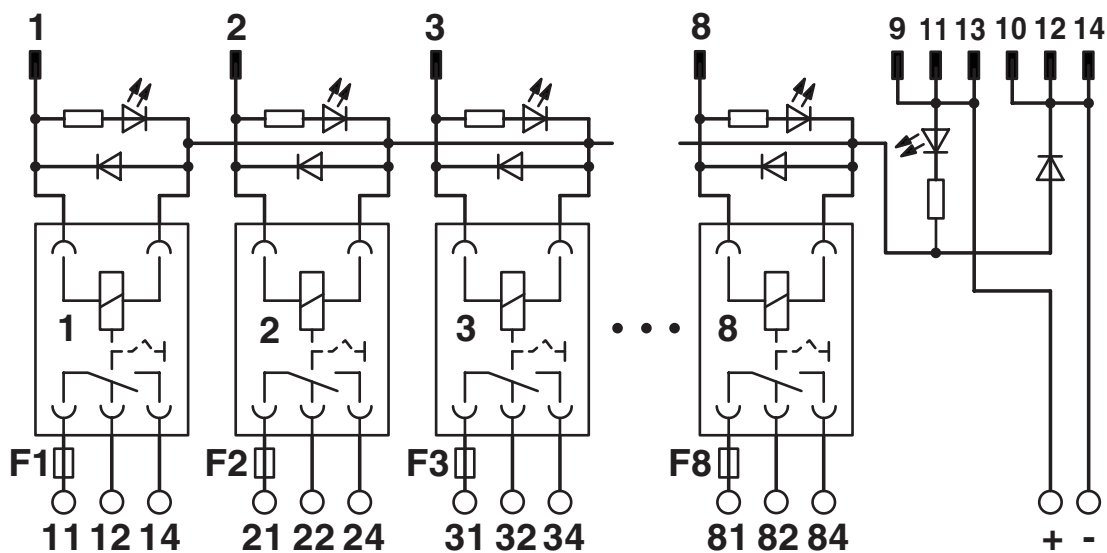
Drawings

Diagram



Derating curve for limiting continuous current

Circuit diagram



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Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121432 |
|-------------|----------|

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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.) | Lead(CAS: 7439-92-1) |
|-------------------------------------|----------------------|

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