

Power Relay RM 8

- 2 pole 25 A, 2 form C (2 CO) contacts
- DC or AC coil
- Mechanical indicator
- Push-to-test button
- Chassis or DIN rail mount

Typical applications
Cleaning equipment, heating and cooling equipment.



Approvals

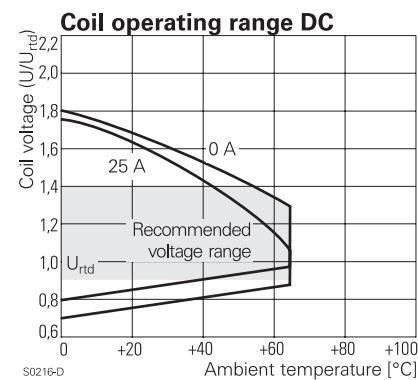
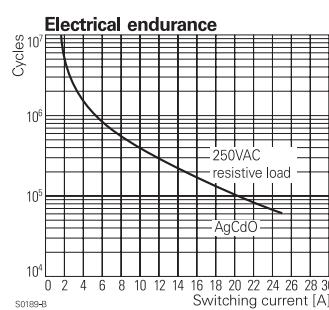
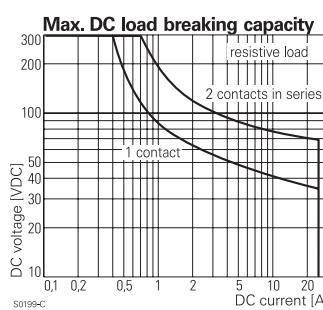
VDE Cert. No. 40003144, UL E214025,
Technical data of approved types on request.

Contact Data

| | |
|---|-------------------------|
| Contact arrangement | 2 form C (CO) |
| Rated voltage | 400VAC |
| Max. switching voltage | 400VAC |
| Rated current | 25A |
| Limiting making current, 20ms max. | 60A |
| Switching power | 6000VA |
| Contact material | AgCdO, AgNi90/10 |
| Min. recommended contact load | 24VDC/100mA |
| Frequency of operation, with/without load, DC coil | 960/6000h ⁻¹ |
| Operate/release time max., DC coil | 15/10ms |
| Bounce time max., form A/form B, DC coil | 4/6ms |

Contact ratings

| Type | Contact | Load | Cycles |
|----------------------|-------------|--|--------------------|
| IEC 61810 | | | |
| RM8 | C (CO) | 25 A, 250 VAC, cosφ=1 35°C | 10x10 ³ |
| RM82 | C (CO) | 25 A, 250 VAC, cosφ=1 DC-coil, 65°C | 10x10 ³ |
| RM82 | C (CO) | 25 A, 250 VAC, cosφ=1 AC-coil, 40°C | 10x10 ³ |
| UL 508 | | | |
| RM80 | A/B (NO/NC) | 25 A, 240 VAC, 1 phase per pole, general purpose 40°C | 6x10 ³ |
| RM8 | A/B (NO/NC) | 25 A, 415 VAC, resistive, 45°C | 10x10 ³ |
| RM82 | A/B (NO/NC) | 16 A, 415 VAC, resistive, 70°C | 30x10 ³ |
| RM82 | A/B (NO/NC) | 240 VAC, 1phase, 2HP, 50°C | 6x10 ³ |
| Mechanical endurance | | | |
| | | 10x10 ⁶ operations | |



Power Relay RM 8 (Continued)
Coil Data (continued)
Coil versions, AC coil

| Coil code STD | LED | Rated voltage VAC | Operate voltage 50/60Hz VAC | Release voltage 50/60Hz VAC | Coil resistance $\Omega \pm 10\%^{1)}{2)}$ | Rated coil power 50/60Hz VA |
|------------------|-----|-------------------------|--------------------------------------|--------------------------------------|--|--------------------------------------|
| 506 | R06 | 6 | 4.8/5.1 | 1.8 | 4.7 | 2.86/2.36 |
| 512 | R12 | 12 | 9.6/10.2 | 3.6 | 19.5 | 2.71/2.27 |
| 524 | R24 | 24 | 19.2/20.4 | 7.2 | 80 | 2.62/2.00 |
| 548 | R48 | 48 | 38.4/40.8 | 14.4 | 320 | 2.60/2.17 |
| 560 | R60 | 60 | 48.0/51.0 | 18.0 | 500 | 2.62/2.20 |
| 615 | S15 | 115 | 92.0/97.8 | 34.5 | 1850 | 2.65/2.22 |
| 730 | T30 | 230 | 184.0/195.5 | 69.0 | 7500 | 2.69/2.26 |
| 900 | V00 | 400 | 320.0/340.0 | 120.0 | 23500 ²⁾ | 2.61/2.20 |

2) Coil resistance $\pm 15\%$.

All figures are given for coil without pre-energization, at ambient temperature +23°C.

Insulation Data

| | |
|---|---------------------------|
| Initial dielectric strength between open contacts | 1500Vrms |
| between contact and coil | 2500Vrms |
| between adjacent contacts | 4000Vrms |
| Initial surge withstand voltage between contact and coil | 5000V(1.2/50μs) |
| between adjacent contacts | 6000V(1.2/50μs) |
| Clearance/creepage between contact and coil | $\geq 4.0/14.9\text{mm}$ |
| between adjacent contacts | $\geq 15.3/15.3\text{mm}$ |
| Material group of insulation parts | IIIa |

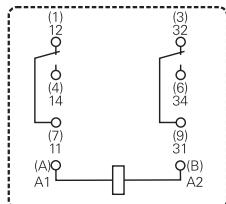
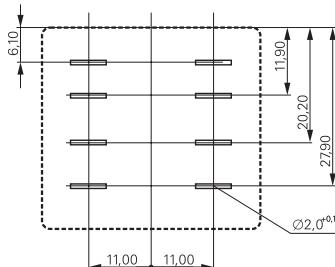
Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content
refer to the Product Compliance Support Center at
www.te.com/customersupport/rohssupportcenter

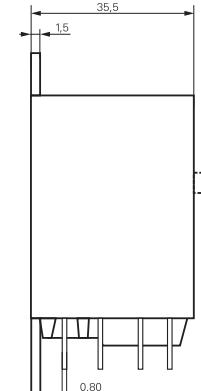
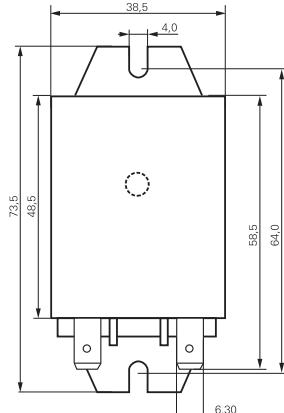
| | |
|--|----------------------|
| Ambient temperature for mounting/handling in operation | -20 to +40°C |
| DC coil | -40 to +65°C |
| AC coil | -40 to +40°C |
| 16 A contact load | -40 to +70°C |
| Category of environmental protection IEC 61810 | RTI - dust protected |
| Vibration resistance (functional) form A (NO)/form B (NC) | 10/5g, 30 to 150Hz |
| Terminal type | quick-connect |
| Cover retention, pull/push force | 100/100N |
| Weight | 81g |
| Packaging unit | 10/25 pcs. |

Terminal assignment

Bottom view on pins

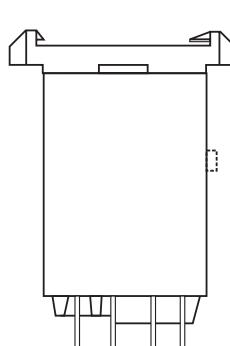

Dimensions

Cover with mounting brackets, 6.3mm quick connect terminals

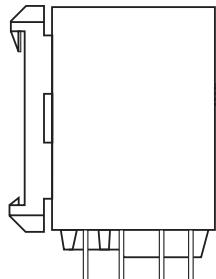


Cover with DIN-snap-on attachment

horizontal



vertical



Power Relay RM 8 (Continued)

Product code structure

 Typical product code **RM** **8** **0** **9** **024**

Type

RM Power relay RM8

Contact configuration

8 2 form C contacts (2 CO), 25A

Version

| | | | |
|----------|--------------------------------|----------|-----------------------------|
| 0 | AgCdO, without test button | 3 | AgCdO, with test button |
| 2 | AgNi90/10, without test button | 7 | AgNi90/10, with test button |

Enclosure

| | |
|----------|--|
| 5 | cover with mounting brackets, 6.3mm quick connect terminals |
| 8 | cover with DIN-snap-on attachment, horizontal, 6.3mm quick connect terminals |
| 9 | cover with DIN-snap-on attachment, vertical, 6.3mm quick connect terminals |

Coil

Coil code: please refer to coil versions table

| Product code | Contacts | Cont. material | Version | Enclosure | Coil | Coil | Part number |
|--------------|----------------------------|----------------|------------------------|--------------------------------------|---------|---------------------------|---|
| RM805024 | 2 form C, 2 CO contacts | AgCdO AgNi | Without test button | Mounting brackets quick c. 6.3 mm | DC-coil | 24VDC | 2-1393844-7 7-1415544-3 |
| RM825024 | 25 A | AgCdO | | | AC-coil | 24VAC 115VAC 230VAC | 2-1393147-9 3-1393147-1 3-1393147-3 |
| RM805524 | | AgCdO | | | | | 5-1415544-8 |
| RM805615 | | AgCdO | | | | | 2-1393844-9 |
| RM805730 | | AgCdO | | | | | 3-1393147-7 |
| RM825730 | | AgNi | | | | | 5-1393149-8 |
| RM808024 | | AgCdO | | DIN-snap-on | DC-coil | 24VDC | 3-1393147-7 |
| RM808524 | | AgCdO | | horizontal | AC-coil | 24VAC | 2-1393149-7 |
| RM808730 | | AgCdO | | | | 230VAC | 3-1393149-8 |
| RM809024 | | AgCdO | | DIN-snap-on | DC-coil | 24VDC | 3-1393149-9 |
| RM809615 | | AgCdO | | vertical | AC-coil | 115VAC | 5-1393147-8 |
| RM809730 | | AgCdO | | | | 230VAC | 3-1393147-9 |
| RM835024 | | AgCdO | With test button | mounting brackets quick c. 6.3 mm | DC-coil | 24VDC | 4-1393147-1 |
| RM835524 | | AgCdO | | | AC-coil | 24VAC | 4-1393147-3 |
| RM835615 | | AgCdO | | | | 115VAC | 4-1393147-4 |
| RM835730 | | AgCdO | | | | 230VAC | 4-1393147-6 |
| RM838024 | | AgCdO | | DIN-snap-on | DC-coil | 24VDC | 4-1393147-8 |
| RM838524 | | AgCdO | | horizontal | AC-coil | 24VAC | 5-1393147-0 |
| RM838730 | | AgCdO | | | | 230VAC | 5-1393147-1 |
| RM839024 | | AgCdO | | DIN-snap-on | DC-coil | 24VDC | 5-1393147-4 |
| RM839524 | | AgCdO | | vertical | AC-coil | 24VAC | 5-1393147-5 |
| RM839730 | | AgCdO | | | | 230VAC | 5-1393147-6 |

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