

## 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



F0165-B



## Approvals

VDE REG.-Nr. 40003144, UL E214025,  
 Technical data of approved types on request

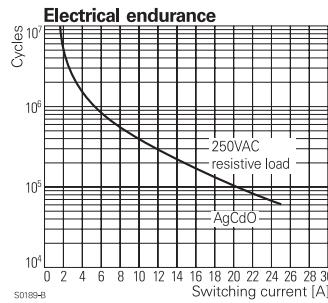
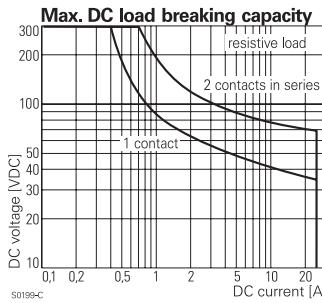
## Contact Data

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 <sup>-1</sup>
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
<b>IEC 61810</b>			
RM8	C (CO)	25 A, 250 VAC, cosφ=1	35°C
UL 508			
RM80	A/B (NO/NC)	25 A, 240 VAC, 1 phase per pole, general purpose 40°C	6x10 <sup>3</sup>
RM8	A/B (NO/NC)	25 A, 415 VAC, resistive, AC-Coil 45°C	10x10 <sup>3</sup>
RM80	A/B (NO/NC)	25 A, 415 VAC, resistive, DC-Coil 50°C	10x10 <sup>3</sup>
RM82	A/B (NO/NC)	16 A, 415 VAC, resistive, 70°C	30x10 <sup>3</sup>
RM82	A/B (NO/NC)	240 VAC, 1phase, 2HP, 50°C	6x10 <sup>3</sup>

Mechanical endurance 10x10<sup>6</sup> operations



## Power Relay RM 8 (Continued)

## Coil Data (continued)

## Coil versions, AC coil

Coil code	Rated voltage	Operate voltage 50/60Hz	Release voltage 50/60Hz	Coil resistance $\Omega \pm 10\%^{1,2)}$	Rated coil power 50/60Hz
506	R06	6	4.8/5.1	1.8	4.7
512	R12	12	9.6/10.2	3.6	19.5
524	R24	24	19.2/20.4	7.2	80
548	R48	48	38.4/40.8	14.4	320
560	R60	60	48.0/51.0	18.0	500
615	S15	115	92.0/97.8	34.5	1850
730	T30	230	184.0/195.5	69.0	7500
900	V00	400	320.0/340.0	120.0	23500 <sup>2)</sup>

 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](http://www.te.com/customersupport/rohssupportcenter)

## Ambient temperature

DC coil	-45 to +65°C
AC coil	-45 to +40°C
16 A contact load	-45 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

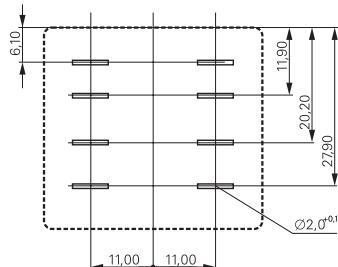
Cover retention, pull/push force	quick-connect
----------------------------------	---------------

Weight	81g
--------	-----

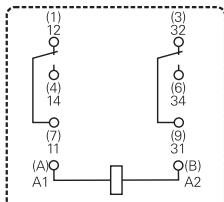
Packaging unit	10/25 pcs.
----------------	------------

## Terminal assignment

Bottom view on pins



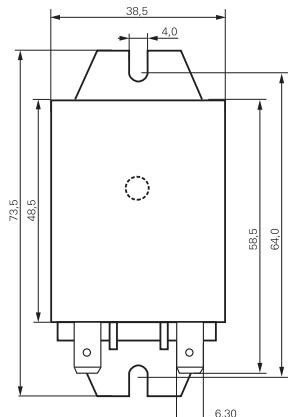
S0269-AG



S0269-AD

## Dimensions

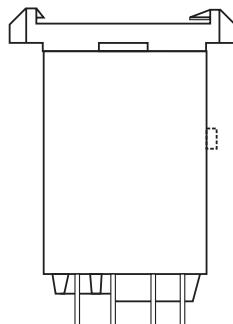
Cover with mounting brackets, 6.3mm quick connect terminals



S0298-BC

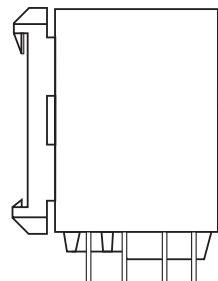
Cover with DIN-snap-on attachment

horizontal



S0298-BD

vertical



S0298-BE

## 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

<b>0</b>	AgCdO, without test button	<b>3</b>	AgCdO, with test button
<b>2</b>	AgNi90/10, without test button	<b>7</b>	AgNi90/10, with test button

## Enclosure

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

## Coil

Coil code: please refer to coil versions table

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