

## M4

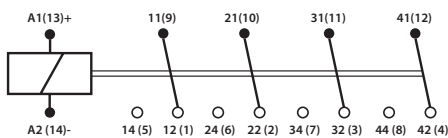
### Miniature, universal, 4-pole 6 A, 4 changeover contacts



Miniature, universal relay, supplied with 4 changeover contacts. Standard supplied with mechanical indication and manual test button. LED-indication and a pluggable diode module optional.

- Various coil voltages
- 4 changeover contacts 6 A
- AgNi contacts (AgNi/Au 0.2 µm optional)
- Mechanical indicator
- Manual test button
- Diode module optional
- LED-indicator optional
- PCB-connection optional
- Plug-in connection

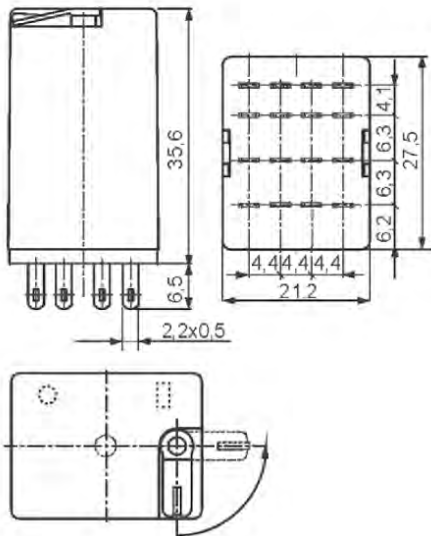
#### Connection diagram



#### Contact specifications

Contact material	AgNi
Number & configuration	4 C/O
Rated continuous current (ACI, IEC 60947)	6 A
Rated load (capacity) AC1	6 A / 250 VAC
Rated load (capacity) DC1	6 A / 24 VDC
Max. inrush current	12 A
Max. switching voltage	250 VAC
Min. switching voltage	10 V
Min. switched current	5 mA

#### Dimensions



#### Coil specifications

Nominal voltage (Un DC)	12-24-48-110-125-220 VDC
Nominal voltage (Un AC)	12-24-48-110-230 VAC
Power consumption (DC/AC)	0.9 W / 1.6 VA
Operating range	0.8...1.1 Un

#### Technical data

Mechanical life cycles	$\geq 2 \times 10^7$
Pull-in time DC/AC	10/13 ms
Release time DC/AC	8/3 ms
Ambient temperature	DC: -40 °C...+70 °C, AC: -40 °C...+55 °C
Protection category	IP40
Connection	Plug-in
Dimensions	27.5 x 21.2 x 35.6 mm
Weight	35 g

#### Remarks

Standard AC coil is 50/60 Hz  
Available as PCB-version or with PCB-sockets on request

#### Ordering codes

M4-D012	12 VDC	321000401
M4-D024	24 VDC	321000402
M4-D048	48 VDC	321000403

#### + LED-indication

M4-D012	12 VDC	321000451
M4-D024	24 VDC	321000452
M4-D048	48 VDC	321000453

Detailed information and datasheets are available on [www.morssmitt.com](http://www.morssmitt.com)

More ordering codes page 18

# Industrial relays

## M-relays

### Ordering codes

#### M2-relays

Coil voltage	Type	Article number	+ LED-indication	Article Number
12 VDC	M2-D012	321000301	M2-L-D012	321000351
24 VDC	M2-D024	321000302	M2-L-D024	321000352
48 VDC	M2-D048	321000303	M2-L-D048	321000353
110 VDC	M2-D110	321000304	M2-L-D110	321000354
125 VDC	M2-D125	321000310	M2-L-D125	321000360
220 VDC	M2-D220	321000311	M2-L-D220	321000361
12 VAC 50/60Hz	M2-A012	321000305	M2-L-A012	321000355
24 VAC 50/60Hz	M2-A024	321000306	M2-L-A024	321000356
48 VAC 50/60Hz	M2-A048	321000307	M2-L-A048	321000357
110 VAC 50/60Hz	M2-A110	321000308	M2-L-A110	321000358
230 VAC 50/60Hz	M2-A230	321000309	M2-L-A230	321000359

*Other voltages on request*

#### M3-relays

Coil voltage	Type	Article number	+ LED-indication	Article Number
12 VDC	M3-D012	321001001	M3-L-D012	321001151
24 VDC	M3-D024	321001002	M3-L-D024	321001152
48 VDC	M3-D048	321001003	M3-L-D048	321001153
110 VDC	M3-D110	321001004	M3-L-D110	321001154
125 VDC	M3-D125	321001010	M3-L-D125	321001160
220 VDC	M3-D220	321001011	M3-L-D220	321000361
12 VAC 50/60Hz	M3-A012	321001005	M3-L-A012	321001155
24 VAC 50/60Hz	M3-A024	321001006	M3-L-A024	321001156
48 VAC 50/60Hz	M3-A048	321001007	M3-L-A048	321001157
110 VAC 50/60Hz	M3-A110	321001008	M3-L-A110	321001158
230 VAC 50/60Hz	M3-A230	321001009	M3-L-A230	321001159

*Other voltages on request*

#### M4-relays


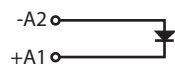
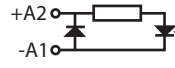
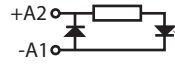
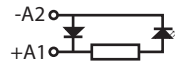
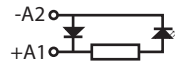
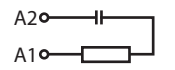
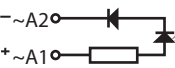
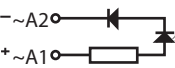
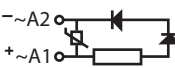
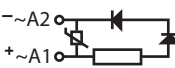


Coil voltage	Type	Article number	+ LED-indication	Article Number
12 VDC	M4-D012	321000401	M4-L-D012	321000451
24 VDC	M4-D024	321000402	M4-L-D024	321000452
48 VDC	M4-D048	321000403	M4-L-D048	321000453
110 VDC	M4-D110	321000404	M4-L-D110	321000454
125 VDC	M4-D125	321000410	M4-L-D125	321000460
220 VDC	M4-D220	321000411	M4-L-D220	321000461
12 VAC 50/60Hz	M4-A012	321000405	M4-L-A012	321000455
24 VAC 50/60Hz	M4-A024	321000406	M4-L-A024	321000456
48 VAC 50/60Hz	M4-A048	321000407	M4-L-A048	321000457
110 VAC 50/60Hz	M4-A110	321000408	M4-L-A110	321000458
230 VAC 50/60Hz	M4-A230	321000409	M4-L-A230	321000459

*Other voltages on request*

## Accessories



Type	MS-35	CM-1	DPM-1	M-connect-5
Name	Relay retaining clip	Relay retaining clip	Description plate	Interconnection strip
Mounting on	VM-sockets	VM-sockets	VM-sockets	VM-sockets
Applicable for	M2-, M3-, M4 relays	M2-, M3-, M4 relays	M2-, M3-, M4 relays	M2-, M3-, M4 relays
Material	Plastic	Metal	Plastic	
Weight	4 g			
Article number	321000509	321000503	321000522	321000523

Type	Schematic	Voltage	Colour	Article Nr.
<b>DM-1</b> Limits overvoltage on DC coils.		6 - 230 VDC		321000507
<b>DM-2</b> Limits overvoltage on DC coils		6 - 230 VDC		321000524
<b>DLM-3R</b> Limits overvoltage on DC coils Coil energizing indication		6 - 12 VDC	Red	321000525
		24 - 60 VDC	Red	321000526
		110 - 230 VDC	Red	321000527
<b>DLM-3G</b> Limits overvoltage on DC coils Coil energizing indication		6 - 12 VDC	Green	321000528
		24 - 60 VDC	Green	321000529
		110 - 230 VDC	Green	321000530
<b>DLM-4R</b> Limits overvoltage on DC coils Coil energizing indication		6 - 12 VDC	Red	321000531
		24 - 60 VDC	Red	321000532
		110 - 230 VDC	Red	321000533
<b>DLM-4G</b> Limits overvoltage on DC coils Coil energizing indication		6 - 12 VDC	Green	321000534
		24 - 60 VDC	Green	321000535
		110 - 230 VDC	Green	321000536
<b>RCM-5</b> Protection against EMC disturbance Limits overvoltage		6 - 24 VAC 24 - 60 VAC 110 - 230 VAC		321000537 321000538 321000539
<b>LM-6R</b> Coil energizing indication		6 - 12 VAC/DC	Red	321000540
		24 - 60 VAC/DC	Red	321000541
		110 - 230 VAC/DC	Red	321000542
<b>LM-6G</b> Coil energizing indication		6 - 12 VAC/DC	Green	321000543
		24 - 60 VAC/DC	Green	321000544
		110 - 230 VAC/DC	Green	321000545
<b>LVM-7R</b> Limits overvoltage on AC and DC coils Coil energizing indication		6 - 12 VAC/DC	Red	321000546
		24 - 60 VAC/DC	Red	321000547
		110 - 230 VAC/DC	Red	321000548
<b>LVM-7G</b> Limits overvoltage on AC and DC coils Coil energizing indication		6 - 12 VAC/DC	Green	321000549
		24 - 60 VAC/DC	Green	321000550
		110 - 230 VAC/DC	Green	321000551
<b>VM-8</b> Limits overvoltage on AC coils No indication		24 VAC 130 VAC 230 VAC		321000552 321000553 321000554
<b>RM-9</b> Limits overvoltage on AC coils		110 - 230 VAC		321000555



# Industrial relays

## M-relays

### Sockets



Type	VM-2R	VM-3R	VM-4R
Applicable for	M2	M3	M4
Contact rating AC1	12 A	10 A	6 A
Terminals	Screw	Screw	Screw
Mounting	35 mm rail	35 mm rail	35 mm rail
Standards	CE, EN 60715	CE, EN 60715	CE, EN 60715
Dimensions	76.3 x 27 x 42.5 mm	76.3 x 27 x 42.5 mm	76.3 x 27 x 42.5 mm
Weight	61 g	61 g	61g
Article number	321000520	321000510	321000519



Type	VM-2L	VM-3L	VM-4L
Applicable for	M2	M3	M4
Contact rating AC1	12 A	10 A	6 A
Terminals	Screw	Screw	Screw
Mounting	35 mm rail	35 mm rail	35 mm rail
Standards	CE, EN 60715	CE, EN 60715	CE, EN 60715
Dimensions	75 x 27 x 61 mm	75 x 27 x 61 mm	75 x 27 x 61 mm
Weight	71 g	71 g	71g
Article number	321000521	321000511	321000512



Type	VM-4	VM-4CC	VM-2PCB	VM-4PCB
Applicable for	M4	M4	M2	M4
Contact rating AC1	12 A	6 A	12 A	6 A
Terminals	Screw	Spring	Soldering	Soldering
Mounting	35 mm rail	35 mm rail	PCB	PCB
Standards	CE, EN 60715	CE, EN 60715	CE	CE
Dimensions	66.4 x 29.5 x 29 mm	95 x 31 x 29 mm	29.2 x 21.6 x 11.2 mm	29.2 x 21.6 x 11.2 mm
Weight	55 g	74 g	6 g	6 g
Article number	321000516	321000513	321000514	321000515