

Multimode Relay MT

2 / 3 pole 10 A, DC- or AC-coil



F0161-A

Features

- 2 C/O or 3 C/O contacts
- Cadmium-free contacts
- DC and AC coils
- Mechanical indicator as standard
- Electrical indicator
- New test system with front operated finger protected push-to-test button and integral locking test tab

Applications

Mechanical engineering, plant control



Technical data of approved types on request

Contact data

Configuration	2 C/O contact or 3 C/O contact	
Type of contact	single contacts	bifurcated contacts
Rated current	10 A	4 A
Rated voltage / max.breaking voltage AC	250 Vac / 440 Vac	
Maximum breaking capacity AC	2500 VA	500 VA
Make current (max. 4 s at duty cycle 10%)	20 A	8 A
Contact material	AgNi 90/10	
Minimum contact load	24 V, 10 mA	20 mV, 1 mA gold plated

Contact ratings

Type	Load	Operations	Standard
MT321	10 A, 250 Vac, C/O contact	1x10 ⁵	VDE 0435

Coil data

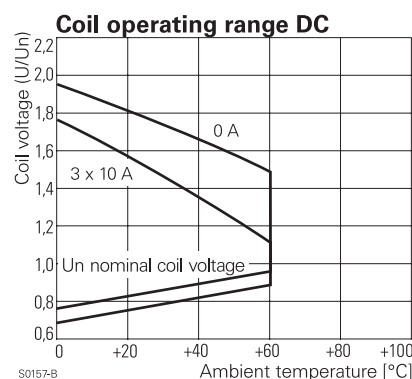
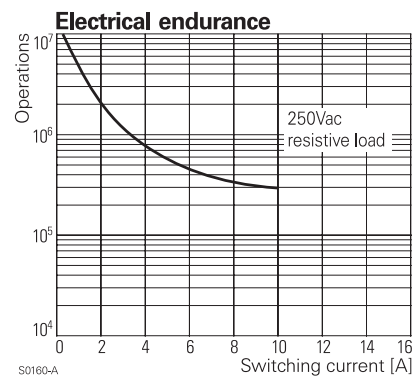
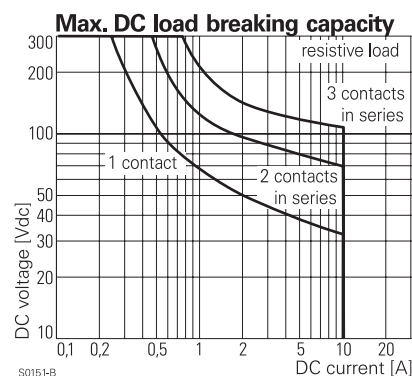
Nominal voltage	DC coil	6...220 Vdc
	AC coil	6...230 Vac
Nominal coil power	DC coil	typ. 1.2 W
	AC coil	typ. 2.3 VA
Operate category		1 / a

Coil versions, DC-coil

Coil code standard	PD*	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Coil resistance Ω	Coil current mA
006	0A6	6	4.5	0.6	32±10%	187.5
012	0B2	12	9.0	1.2	110±10%	109.1
024	0C4	24	18.0	2.4	475±10%	50.5
048	0E8	48	36.0	4.8	2000±10%	24.0
060	0G0	60	45.0	6.0	2850±10%	21.1
110	1B0	110	82.5	11.5	10000±12%	11.0
220	2C0	220	165.0	22.0	40000±15%	5.5

All figures are given for coil without preenergization, at ambient temperature +20 °C

* Protection diode PD; standard polarity: 2-pole relays: +2 / -7, 3-pole relays: +2 / -10



Relays

Mo
2 / 3

Coil

Coil code	Maximum voltage Vac	Coil resistance Ω	Coil current mA
004	7.8	5.3±10%	381.7
018	15.6	24±10%	182.5
026	31.2	86±10%	94.2
042	62.4	345±10%	47.5
060	78.0	544±10%	37.8
110	149.5	2000±10%	20.6
230	299.0	8300±12%	10.1

All figures are nominal values, at ambient temperature +20 °C

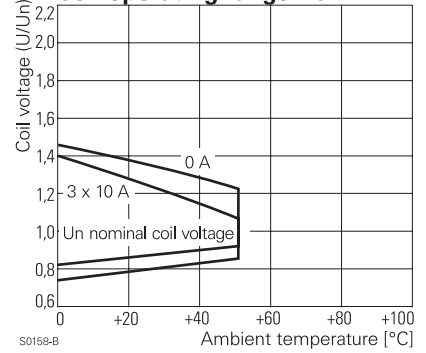
Insulation

Dielectric strength	2500 V _{rms}
Insulation resistance	1500 V _{rms}
Leakage current	2500 V _{rms}
Creepage distance	2.8 / 4 mm
Surge voltage	250 V
Overvoltage category	3
Insulation class	III
Surge current	C / 250
Partial discharge	CTI 175

Mechanical

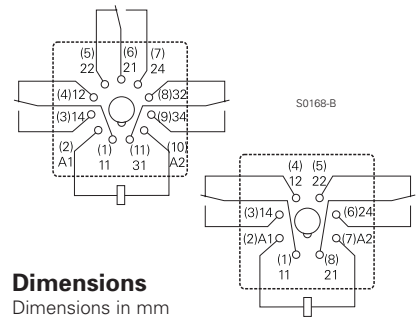
Coil type	V-0
DC-coil operating temperature	-45...+60 °C
AC-coil operating temperature	-45...+50 °C
Life expectancy	>20x10 ⁶ operations
Switching speed	20 min ⁻¹ / 100 min ⁻¹
Make time	12 / 5 ms
Break time	4 ms
Impact resistance	>5 / 2 g
Shock resistance	>50 / 10 g
Contact protection	RT I - dust protected
Weight	80 g
Quantity	25 pcs.
Accessories	see accessories MT

Coil operating range AC



Terminal assignment

View on solder pins



Dimensions

Dimensions in mm

