

Multimode Relay MT

- 2/3 pole 10 A, 2 CO or 3 CO 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
- **■** White write on panel

Applications

Mechanical engineering, plant control



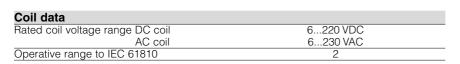
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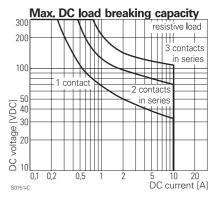
Approvals
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REGNr. 6182, c % us E214025
Technical data of approved types on request

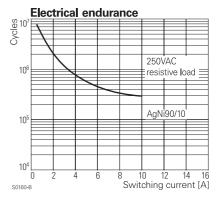
Contact data					
Contact configuration		2 CO or 3 CO			
Contact set	single cont.	single cont.	bifurcated		
Type of interruption	m	icro disconnectio	n		
Rated voltage / max. switching voltage AC		240 / 400 VAC			
Rated current	10 A	10 A	4 A		
Maximum breaking capacity AC	2500 VA	2500 VA	500 VA		
Limiting making capacity, max 20 ms	20 A	20 A	8 A		
Contact material	AgNi90/10	AgNi90/10	AgNi90/10		
		gold plated	gold plated		
Minimum contact load	12V/10mA	20mV/1mA	20mV/1mA		
Rated frequency of operation with / without load 20/100 min ⁻¹					
Operate- / release time DC coil		max 15 / 10 ms			
Bounce time DC coil NO / NC contact	max 4/5 ms				



Type	Contact	Load	Ambient	Cycles
			temp. [°C]	
IEC 61810				
MT22 DC coil	CO	10 A, 250 VAC, cosφ=1	35°C	100x10 ³
MT22 AC coil	CO	10 A, 250 VAC, cosφ=1	35°C	20x10 ³
MT32 DC coil	CO	10 A, 250 VAC, cosφ=1	35°C	100x10 ³
MT32 AC coil	CO	10 A, 250 VAC, cosφ=1	35°C	20x10 ³
MT2	CO	10 A, 250 VAC, resistive	40°C	30x10 ³
MT2	NO / NC	B300	40°C	6.000
MT2	CO	4 A, 25 VAC, resistive, bifurcated	40°C	30x10 ³
MT3	CO	10 A, 250 VAC, resistive	40°C	30x10 ³
UL 508				
MT3	NO / NC	B300	40°C	6.000
MT3	CO	4 A, 25 VAC, resistive, bifurcated	40°C	30x10 ³







change.



Multimode Relay MT (Continued)

Coil versions,	DC-coil
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Coil code		Rated	Operate	Release	Coil	Rated coil
STD	PD*)	voltage	voltage	voltage	resistance	power
		VDC	VDC	VDC	Ohm	W
006	0A6	6	4.5	0.6	32±10%	1.1
012	0B2	12	9.0	1.2	110±10%	1.3
024	0C4	24	18.0	2.4	475±10%	1.2
048	0E8	48	36.0	4.8	2000±10%	1.2
060	0G0	60	45.0	6.0	2850±10%	1.3
110	1B0	110	82.5	11.5	10000±12%	1.2
220	2C0	220	165.0	22.0	40000±15%	1.2

All figures are given for coil without preenergization, at ambient temperature +23°C *) Protection diode PD; standard polarity: 2-pole relays: +2/-7, 3-pole relays: +2/-10

Coil versions, AC-coil 50 / 60 Hz

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
		50 / 60 Hz	50 / 60 Hz		50 / 60 Hz
	VAC	VAC	VAC	Ohm	VA
006	6	4.8 / 5.1	2.4	5.3±10%	2.29/1.98
012	12	9.6 / 10.2	4.8	24±10%	2.19/1.86
024	24	19.2 / 20.4	9.6	86±10%	2.26/ 1.95
048	48	38.4 / 40.8	19.2	345±10%	2.28/1.97
060	60	48.0 / 51.0	24.0	544±10%	2.27/1.96
115	115	92.0 / 97.8	46.0	2000±10%	2.37/2.00
230	230	184.0 / 195.5	92.0	8300±12%	2.32/ 1.96

All figures are given for coil without preenergization, at ambient temperature +23°C

Insulation 2500 V_{rms} Dielectric strength coil-contact circuit open contact circuit $1500 \ V_{rms}$ 2500 V_{rms} adjacent contact circuits Clearance / creepage coil-contact circuit ≥ 2.8/4.0 mm \geq 2.8/4.0 mm adjacent contact circuits Material group of insulation parts Illa Insulation to IEC 61810-1 2 pole 3 pole Type of insulation coil-contact circuit basic basic open contact circuit micro disconnection micro disconnection adjacent contact circuits basic basic Rated insulation voltage 250 V 250 V Pollution degree 3 Rated voltage system 240 V 230 / 400 V Overvoltage category Ш Ш

Other data

Mechanical endurance

20x10⁶ cycles

Material

RoHS - Directive 2002/95/EC

compliant as per product date code 0415

Environment

Ambient temperature range DC coil -40...+60°C AC coil

-45...+50°C

Vibration resistance (function) NO / NC contact Shock resistance (function) NO / NC contact

5/2 g 50/10 g

Category of protection

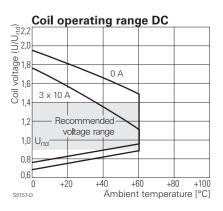
RTI - dust protected

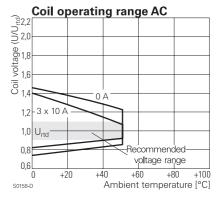
Processing

Relay weight 80 g Packaging unit 25 pcs

Accessories

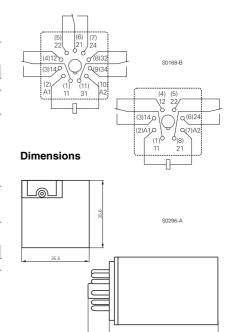
Accessories Multimode Relay MT For details see datasheet





Terminal assignment

Bottom view on pins





Multimode Relay MT (Continued)

Product	key		Typical product key M7	Γ	3	2	6	230
Type M	T Multimode Relay MT							
Contact of	configuration							
	2 CO contacts (2 form C), 8-pin	3	3 CO contacts (3 form C), 11-pin					
Contact n	naterial					,		
2	AgNi 90/10	В	AgNi 90/10 bifurcated contacts, gold plated	t				
3	AgNi 90/10, gold plated							
Version								
1	DC with test button	6	AC with test button					
3	DC with test button	8	AC with test button					
	and bipolar LED		and LED					
Coil								
Co	oil code: please refer to coil versions tal	ole, prefe	erred types in bold print					

Other types on request

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Product key	Contact configuration	Contact material	Version	Coil	Part number
MT221012	2 CO contacts	AgNi 90/10	DC	12 VDC	4-1393090-9
MT221024	8-pin		with test button	24 VDC	5-1393090-0
MT221048			_	48 VDC	5-1393090-1
MT221060				60 VDC	5-1393090-2
MT221110				110 VDC	5-1393090-3
MT221220				220 VDC	5-1393090-4
MT223024			DC+LED+test button	24 VDC	5-1393090-7
MT226012			AC	12 VAC	6-1393090-3
MT226024			test button	24 VAC	6-1393090-4
MT226048				48 VAC	6-1393090-5
MT226115				115 VAC	6-1393090-7
MT226230				230 VAC	6-1393090-8
MT228024			AC+LED	24 VAC	6-1393090-9
MT228115			test button	115 VAC	7-1393090-0
MT228230				230 VAC	7-1393090-1
MT321012	3 CO contacts	AgNi 90/10	DC	12 VDC	6-1393091-8
MT321024	11-pin	,	with test button	24 VDC	7-1393091-0
MT321048	·			48 VDC	7-1393091-1
MT321060				60 VDC	7-1393091-2
MT321110				110 VDC	7-1393091-4
MT321220				220 VDC	7-1393091-7
MT323024			DC+LED+test button	24 VDC	8-1393091-4
MT3230C4			DC+LED+PT+TB	24 VDC	7-1393091-9
MT326012			AC	12 VAC	9-1393091-6
MT326024			test button	24 VAC	9-1393091-7
MT326048				48 VAC	9-1393091-8
MT326115				115 VAC	1393092-1
MT326230				230 VAC	1393092-2
MT328024			AC+LED	24 VAC	1393092-4
MT328115			test button	115 VAC	1393092-7
MT328230				230 VAC	1393092-8
MT331024		AgNi 90/10	DC	24 VDC	1-1393092-1
MT331110		gold plated	with test button	110 VDC	1-1393092-3
MT331220		gold platod	With tool button	220 VDC	1-1393092-5
MT333024			DC+LED+test button	24 VDC	1-1393092-8
MT3330C4			DC+LED+PD+TB	24 VDC	1-1393092-6
MT333110			DC+LED	110 VDC	2-1393092-0
MT333220			test button	220 VDC	2-1393092-0
MT336115			AC	115 VAC	2-1393092-2
MT336230			test button	230 VAC	2-1393092-3
MT338024			AC+LED	24 VAC	2-1393092-0
MT338115			test button	115 VAC	8-1415025-1
MT338230			test button	230 VAC	2-1393092-8

change.