

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



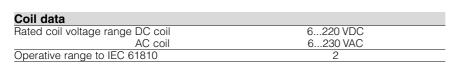
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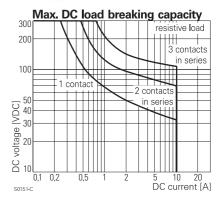
Approvals	
REGNr. 6182	2, c
	roved types on request

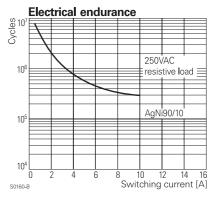
Contact data					
Contact configuration	2 CO or 3 CO				
Contact set	single cont.	single cont.	bifurcated		
Type of interruption	m	icro disconnectio	n		
Rated voltage / max. switching voltage AC		240 / 400 VAC			
Rated current	10 A	10 A	4 A		
Maximum breaking capacity AC	2500 VA	2500 VA	500 VA		
Limiting 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 le	eration 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				



	,-			
Туре	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









Multimode Relay MT (Continued)

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COII	versions.	DC-COII

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

Dielectric strength coil-contact circuit	2500) V _{rms}
open contact circuit	1500) V _{rms}
adjacent contact circuits	2500) V _{rms}
Clearance / creepage coil-contact circuit	≥ 2.8/4	4.0 mm
adjacent contact circui	ts ≥ 2.8/4	4.0 mm
Material group of insulation parts		la
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 2 230 / 400 V Rated voltage system 240 V Overvoltage category Ш Ш

Other data

Mechanical endurance	20x10 ⁶ cycles

Material

RoHS - Directive 2002/95/EC compliant as per product date code 0415

Environment

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

AC coil -45...+50°C 5/2 g

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

50/10 g

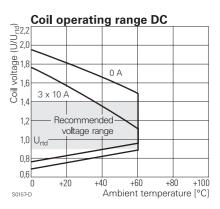
Category of protection

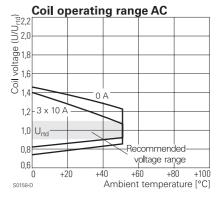
RTI - dust protected

Processing

Relay weight 80 g Packaging unit 25 pcs

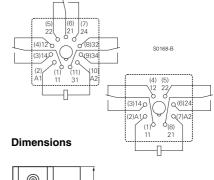
Accessories
For details see datasheet Accessories Multimode Relay MT

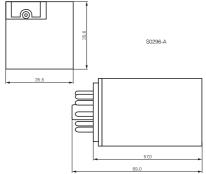




Terminal assignment

Bottom view on pins





change.



Multimode Relay MT (Continued)

Product	key		Typical product key MT	3	2	6	230
Type MT	「 Multimode Relay MT						
Contact co	onfiguration						
2	2 CO contacts (2 form C), 8-pin	3	3 CO contacts (3 form C), 11-pin				
Contact m	naterial				_		
2	AgNi 90/10	В	AgNi 90/10 bifurcated contacts, gold plated				
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	il code: please refer to coil versions tal	ole, prefe	erred types in bold print				

Other types on request

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	3	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				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	2-1393092-2
MT336115			AC	115 VAC	2-1393092-5
MT336230			test button	230 VAC	2-1393092-6
MT338024			AC+LED	24 VAC	2-1393092-7
MT338115			test button	115 VAC	8-1415025-1
MT338230				230 VAC	2-1393092-8

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