

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

Applications

Mechanical engineering, plant control



Contact data			
Contact configuration		2 CO or 3 CO	
Contact set	single cont.	single cont.	bifurcated
Type of interruption	m	icro disconnectio	n
Rated current	10 A	10 A	4 A
Rated voltage / max.switching voltage AC		240/400 VAC	
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
Mechanical endurance		20x10 ⁶ cycles	
Rated frequency of operation with / without	load	20/100 min ⁻¹	

Contact	ratings
Contact	iauiiyə

Туре	Load	Cycles
MT321	10 A, 250 VAC, CO contact, cosφ=1, 360/h, df 50%, 35°C	2.2x10 ⁵
MT321	lon 50 A, loff 5 A, 3x440 VAC, NO, cosφ=0.3, AC15, normal cond.	6x10 ³
MT321	lon 30 A, loff 3 A, 3x440 VAC, NC, cosφ=0.3, AC15, normal cond.	6x10 ³
MT3	2 A, 125 V, L/R 30 ms, 3 NO contacts in series, 1800/h, DF 10%	1x10 ⁵
MT2	0.7 A, 125 V, L/R 20 ms, 2 NO contacts in series, 1800/h, DF 10%	2x10 ⁵
MT2	1 A, 125 V, L/R 20 ms, 2 NO contacts in series, 1800/h, DF 10%	4x10 ⁴

Coil data	
Rated coil voltage range DC coil	6220 VDC
AC coil	6230 VAC
Coil power DC coil	1.2 W
AC coil	2.3 VA
Operative range	2

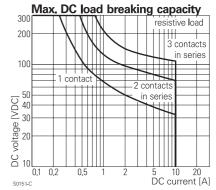
Cail	versions.	DC-coil

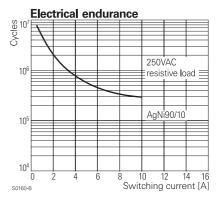
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Coil code)	Rated	Operate	Release	Coil	Rated coil
STD	PD*)	voltage	voltage	voltage	resistance	power
		VDČ	VDČ	VDC	Ohm	W
006	0A6	6	4.5	0.6	32±10%	1.1
012	0B2	12	9.0	1.2	110±10%	1.3
024	0C4	24	18.0	2.4	475±10%	1.2
048	0E8	48	36.0	4.8	2000±10%	1.2
060	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

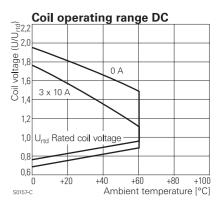
All figures are given for coil without preenergization, at ambient temperature +23°C
*) Protection diode PD; standard polarity: 2-pole relays: +2 / -7, 3-pole relays: +2 / -10



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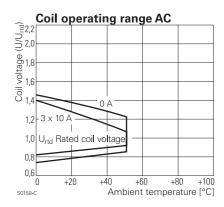


Multimode Relay MT (Continued)

Coil versions, AC-coil 50/60 Hz

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
		50/60Hz	50/60Hz		50/60Hz
	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

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	≥ 2.8/4.0 mm
adjacent contact circuits	≥ 2.8/4.0 mm
Material group of insulation parts	≥ IIIa
Insulation to IEC 60664-1	
Type of insulation coil-contact circuit	basic
open contact circuit	functional
adjacent contact circuits	basic
Rated insulation voltage	250 V
Pollution degree	2
Rated voltage system	240/400 V

Overvoltage category

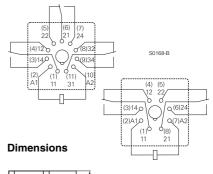
Other data	
RoHS - Directive 2002/95/EC	compliant as per product date code 0415
Ambient temperature range DC coil	-40+60°C
AC coil	-45+50°C
Operate- / release time	12/5 ms
Bounce time NO / NC contact	4 ms
Vibration resistance (function) NO / NC contact	ot 5/2 g
Shock resistance (function) NO / NC contact	50/10 g
Category of protection	RTI - dust protected
Relay weight	80 g
Packaging unit	25 pcs

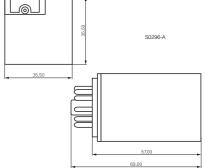
A	C	C	e	S	S	0	ri	e	S

For details see datasheet	Accessories Multimode Relay MT

Terminal assignment

Bottom view on pins





Product key

Туре			
Contact of	configuration		
2	2 CO contacts, 8-pin	3	3 CO contacts, 11-pin
Contact r	naterial		
2	AgNi 90/10	В	AgNi 90/10 bifurcated contacts, gold plated
	AgNi 90/10, gold plated		
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Version

Coil

3 DC with test button AC with test button and bipolar LED and LED

Coil code: please refer to coil versions table, preferred types in bold print Other types on request

DC with test button

Datasheet Issued 2008/07 www.tycoelectronics.com

Dimensions are in mm unless otherwise specified and are shown for reference purposes only.

Product specification according to IEC 61810-1.
Product data, technical parameters, test conditions and

AC with test button

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processing information only to be used together with the 'Definitions' at schrackrelays.com in the

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'Schrack' section.

Specifications subject to change.





Multimode Relay MT (Continued)

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	Ŭ	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	9	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	0-1393092-1
MT326230				230 VAC	0-1393092-2
MT328024			AC+LED	24 VAC	0-1393092-4
MT328115			test button	115 VAC	0-1393092-7
MT328230				230 VAC	0-1393092-8
MT331024		AgNi 90/10	DC	24 VDC	1-1393092-1
MT331110		gold plated	with test button	110 VDC	1-1393092-3
MT331220		J - 1		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