

Multimode Relay MT

- 2/3 pole 10A, 2 form C (CO) or 3 form C (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

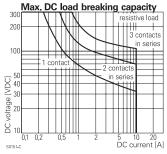
Typical applications Mechanical engineering, plant control.

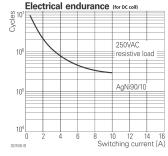
Approvals
VDE Cert. No. 40009096, UL E214025
Technical data of approved types on request.

Contact Data				
Contact arrangement	2 form (C (CO) or 3 form	n C (CO)	
Rated voltage		240VAC		
Max. switching voltage		400VAC		
Rated current	10A		10A	
Limiting making current, max. 20ms	20A		20A	
Limiting breaking current	10A		10A	
Switching power	2500VA		2500VA	
Contact material	AgNi90/10		AgNi90/10	
	-		gold plated	
Contact style	single		single	
	contact		contact	
Min. recommended contact load	12V		20mV	
	at 10mA		at 1mA	
Initial voltage drop	30mV	at 100mA/6VA	C/1kHz	
Frequency of operation, with/withou	it load	1200/6000h-1		
Operate time max., DC coil		15ms		
Release time max., DC coil		10ms		
Bounce time max., DC coil, form A/form B 4/10ms				

Contact ratings

Oontaot ratii	190		
Туре	Contact	Load	Cycles
IEC 61810			
MT22 DC coil	C (CO)	10A, 250VAC, cosφ=1, 35°C	100x10 ³
MT22 AC coil	C (CO)	10A, 250VAC, cosφ=1, 35°C	20x10 ³
MT32 DC coil	C (CO)	10A, 250VAC, cosφ=1, 35°C	100x10 ³
MT32 AC coil	C (CO)	10A, 250VAC, cosφ=1, 35°C	20x10 ³
UL 508			
MT3	A (NO)/B (NC)	B300, 40°C	6.000
MT2	C (CO)	10A, 250VAC, resistive, 40°	30x10 ³
MT2	A (NO)/B (NC)	B300 40°C	6.000
MT3	C (CO)	10A, 250VAC, resistive, 40°C	100x10 ³







Contact Data (continued)	
Mechanical endurance	
DC coil	20x10 ⁶ operations
_ AC coil	20x10 ⁶ operations

Coil Data		
Coil voltage range	6 to 220VDC	
	6 to 230VAC	
Operative range, IEC 61810	2	
Coil insulation system according UI	class 130 (B)	

		, DC coil				
Coil c	ode	Rated	Operate	Release	Coil	Rated coil
STD	PD ³⁾	voltage	voltage	voltage	resistance	power
		VDC	VDC	VDC	$\Omega \pm 10\%^{1)2)}$	W
006	0A6	6	4.5	0.6	32	1.1
012	0B2	12	9.0	1.2	110	1.3
024	0C4	24	18.0	2.4	475	1.2
048	0E8	48	36.0	4.8	2000	1.2
060	0G0	60	45.0	6.0	2850	1.3
110	1B0	110	82.5	11.5	100001)	1.2
220	2C0	220	165.0	22.0	400002)	1.2

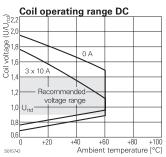
- 1) Coil resistance ±12%, 2) Coil resistance ±15%.
- 3) Protection diode PD; standard polarity: 2-pole relays: +2 / -7, 3-pole relays: +2 / -10. All figures are given for coil without pre-energization, at ambient temperature $+23^{\circ}$ C.

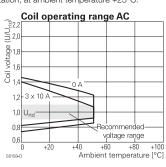
Coil versions, AC coil, 50/60Hz

Coll vers	sions, AC co	011, 50/60HZ			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
		50/60Hz	50/60Hz		50/60Hz
	VAC	VAC	VAC	$\Omega \pm 10\%^{1)}$	VA
006	6	4.8/5.1	1.8	5.3	2.29/1.98
012	12	9.6/10.2	3.6	24	2.19/1.86
024	24	19.2/20.4	7.2	86	2.26/1.95
048	48	38.4/40.8	14.4	345	2.28/1.97
060	60	48.0/51.0	18.0	544	2.27/1.96
115	115	92.0/97.8	34.5	2000	2.37/2.00
230	230	184.0/195.5	69.0	83001)	2.32/1.96

1) Coil resistance ±12%.

All figures are given for coil without pre-energization, at ambient temperature +23°C.







Multimode Relay MT (Continued)

Insulation Data		
Initial dielectric strength		
between open contacts	1500Vrms	
between contact and coil	2500Vrms	
between adjacent contacts	2500Vrms	
Clearance/creepage		
between contact and coil	≥2.8/4mm	
between adjacent contacts	≥2.8/4mm	
Material group of insulation parts	Illa	

Other Data	
Material compliance: EU RoHS/ELV,	China RoHS, REACH, Halogen content
refer to the F	Product Compliance Support Center at
www.te.com	m/customersupport/rohssupportcenter
Ambient temperature	
DC coil	-40 to +60°C
AC coil	-40 to +50°C
Category of environmental protection	
IEC 61810	RTI - dust protected
Vibration resistance (functional),	
form A (NO)/form B (NC)	5/2g
Shock resistance (functional),	
form A (NO)/form B (NC)	50/10g
Terminal type	plug-in
Cover retention, pull/push force	100/100N
Weight	80g

Packaging unit Accessories

deratings may apply.

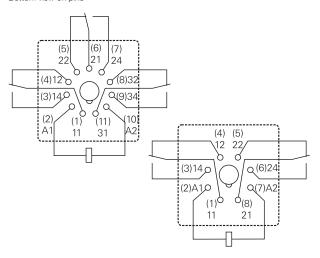
For details see datasheet Accessories Multimode Relay MT

Note: indicated contact ratings and electrical endurance data for direct wiring of relays (according IEC 61810-1); for relays mounted on sockets

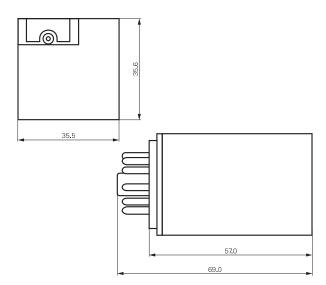
25 pcs.

Terminal assignment

Bottom view on pins

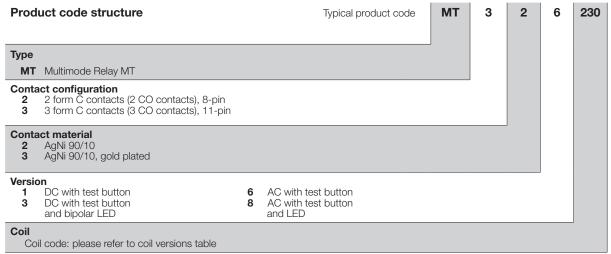


Dimensions





Multimode Relay MT (Continued)



Other types on request

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

Mouser Electronics

Authorized Distributor

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TE Connectivity: