

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



F0161-A

Approvals

VDE REG.-Nr. 6182, **CE** 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	micro disconnection		
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 gold plated	AgNi90/10 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

Type	Load	Cycles
MT321	10 A, 250 VAC, CO contact, cosφ=1, 360/h, df 50%, 35°C	2.2x10 ⁵
MT321	I _{on} 50 A, I _{off} 5 A, 3x440 VAC, NO, cosφ=0.3, AC15, normal cond.	6x10 ³
MT321	I _{on} 30 A, I _{off} 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

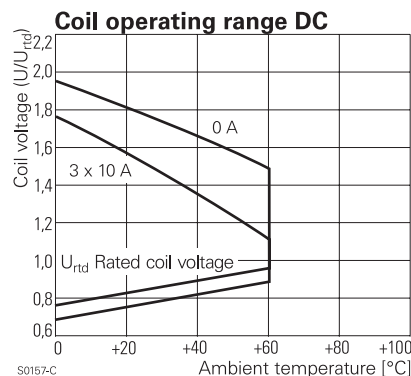
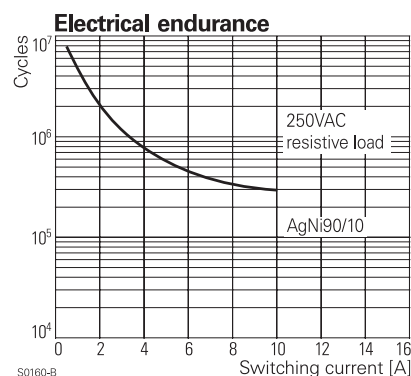
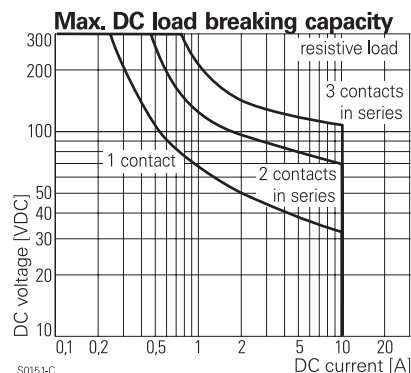
Rated coil voltage range DC coil	6...220 VDC
AC coil	6...230 VAC
Coil power DC coil	1.2 W
AC coil	2.3 VA
Operative range	1

Coil versions, DC-coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ohm	Rated coil power W
STD PD*)					
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



Multimode Relay MT (Continued)

Coil versions, AC-coil 50/60 Hz

Coil code	Rated voltage	Operate voltage 50/60Hz	Release voltage 50/60Hz	Coil resistance	Rated coil power 50/60Hz
	VAC	VAC	VAC	Ohm	VA
006	6	4.8	2.4	5.3 ± 10%	2.29/1.98
012	12	9.6	4.8	24 ± 10%	2.19/1.86
024	24	19.2	9.6	86 ± 10%	2.26/1.95
048	48	38.4	19.2	345 ± 10%	2.28/1.97
060	60	48.0	24.0	544 ± 10%	2.27/1.96
115	115	92.0	46.0	2000 ± 10%	2.37/2.00
230	230	184.0	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	≥ 2.8/4.0 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	III

Other data

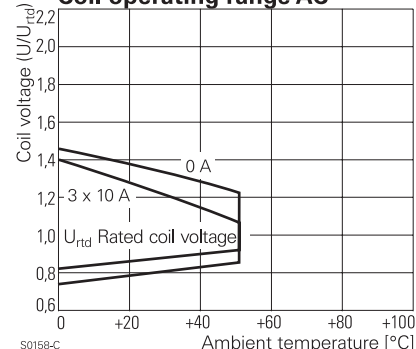
RoHS - Directive 2002/95/EC	compliant as per product date code 0415
Ambient temperature range DC coil	-40...+60°C
AC coil	-45...+50°C
Operate- / release time	12/5 ms
Bounce time NO / NC contact	4 ms
Vibration resistance (function) NO / NC contact	5/2 g
Shock resistance (function) NO / NC contact	50/10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

Accessories

For details see datasheet

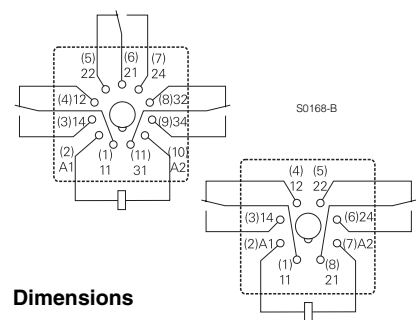
Accessories Multimode Relay MT

Coil operating range AC

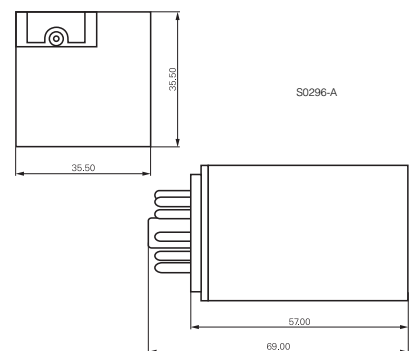


Terminal assignment

Bottom view on pins



Dimensions



Product key

Type

Contact configuration

2 2 CO contacts, 8-pin **3** 3 CO contacts, 11-pin

Contact material

2 AgNi 90/10 **B** AgNi 90/10 bifurcated contacts, gold plated
3 AgNi 90/10, gold plated

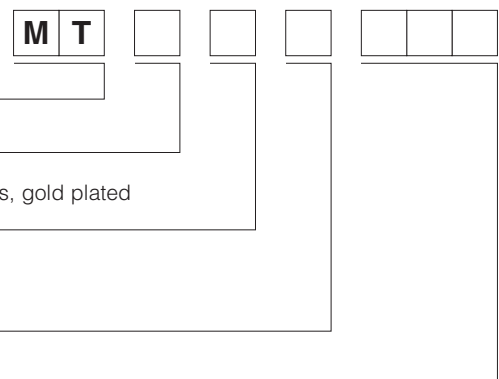
Version

1 DC with test button **6** AC with test button
3 DC with test button and bipolar LED **8** AC with test button and LED

Coil

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

Other types on request



Multimode Relay MT (Continued)

Product key	Contact configuration	Contact material	Version	Coil	Part number
MT221012	2 CO contacts 8-pin	AgNi 90/10	DC with test button	12 VDC	4-1393090-9
MT221024				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 AC	24 VDC	5-1393090-7
MT226012				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				24 VAC	6-1393090-9
MT228115				115 VAC	7-1393090-0
MT228230				230 VAC	7-1393090-1
MT321012	3 CO contacts 11-pin	AgNi 90/10	DC with test button	12 VDC	6-1393091-8
MT321024				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				24 VDC	7-1393091-9
MT326012			AC	12 VAC	9-1393091-6
MT326024				24 VAC	9-1393091-7
MT326048			test button	48 VAC	9-1393091-8
MT326115				115 VAC	0-1393092-1
MT326230				230 VAC	0-1393092-2
MT328024				24 VAC	0-1393092-4
MT328115				115 VAC	0-1393092-7
MT328230				230 VAC	0-1393092-8
MT331024		AgNi 90/10 gold plated	DC with test button	24 VDC	1-1393092-1
MT331110				110 VDC	1-1393092-3
MT331220				220 VDC	1-1393092-5
MT333024				24 VDC	1-1393092-8
MT3330C4				24 VDC	1-1393092-6
MT333110			DC+LED	110 VDC	2-1393092-0
MT333220				220 VDC	2-1393092-2
MT336115			AC	115 VAC	2-1393092-5
MT336230				230 VAC	2-1393092-6
MT338024			AC+LED	24 VAC	2-1393092-7
MT338115				115 VAC	8-1415025-1
MT338230			test button	230 VAC	2-1393092-8

Данный компонент на территории Российской Федерации

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

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