

Features

- DPDT or 3PDT contact arrangements.
- 4 amp bifurcated contact available.
- AC and DC coils.
- Protection Diode available (DC coils).
- Mechanical indicator all models.
- Electrical indicator available.
- Test actuator with front operated finger protected push to test button and integral locking test tab.

Contact Data @ 25°C

Arrangements: 2 Form C (DPDT).

3 Form C (3PDT. **Material:** 10 amp; Silver-nickel 90/10 with or without gold plating.

4 amp; Silver-nickel 90/10 with gold plating. Expected Mechanical Life: 20 million operations minimum. Ratings:

UL/CSA NO/NC @ 25°C:

4 amp (Bifurcated) 250VAC Resistive 30,000 ops. 10 amp 240VAC Resistive 30,000 ops. 1/2 HP 240VAC 30,000 ops. 1/4 HP 120VAC 30,000 ops. B300 Pilot duty 30,000 ops.

VDE @ 35°C:

10 amp 250VAC Resistive 100,000 ops., DC Coil, AC Coil N/O. 20,000 ops., AC Coil N/C.

Initial Dielectric Strength

Between Open Contacts: 1,500VAC. Between Coil and Contacts: 2,500VAC. Between Poles: 2,500VAC. Creepage/Clearance Coil-Contact: 4/2.8mm.

Coil Data @ 25°C

Nominal Coil Power: 1.2W, 2.3VA.

DC Data

Nominal Voltage VDC	DC Resistance in Ohms ±10%	Must Operate Voltage VDC	Must Release Voltage VDC	Nominal Coil Current (mA)
06	32	4.5	0.6	187.5
12	110	9	1.2	109.1
24	475	18	2.4	50.5
48	2,000	36	4.8	24.0
60	2,850	45	6.0	21.1
110	10,000	82.5	11.5	11.0
220	40,000	165	22.0	5.5

AC Data

Nominal Voltage VAC	DC Resistance in Ohms ±10%	Must Operate Voltage VAC	Must Release Voltage VAC	Nominal Coil Current (mA)
06	5.3	4.8	2.4	381.7
12	24	9.6	4.8	182.5
24	86	19.2	9.6	94.2
48	345	38.4	19.2	47.5
60	544	48	24	37.8
115	2,000	92	46	20.6
230	8,300	184	92	10.1

Dimensions are in inches over (millimeters) unless otherwise specified.

MT series 10 Amp General Purpose Relay

CE

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

Operate Data

Must Operate Voltage: See Coil Data table. Operate Time: 12 ms typical, at nom. voltage. Release Time: 5 ms typical, at nom. voltage. Bounce Time: 4 ms typical, at nom. voltage. Switching Rate: 1,200 ops./hr. max. at rated load.

Environmental Data

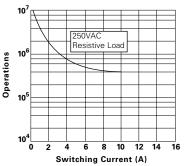
Temperature Range:

 Operating: -45°C to +60°C DC coil. -45°C to +50°C AC coil.

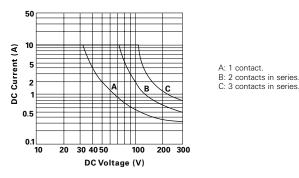
 Vibration: 30 to 1,500 Hz. at 5g N/O, 2g N/C.

 Shock: 50g N/O, 10g N/C.

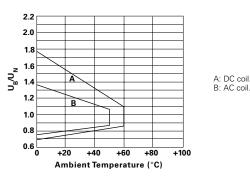
Electrical Life



Max. DC Load Breaking Capacity



Coil Operating Range

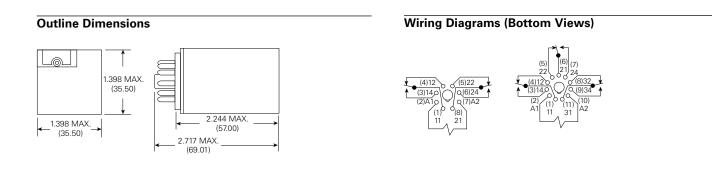


Specifications and availability subject to change.

tyco Electronics		C	atalog 1308242 Issued 3-03				SCHRACK
Ordering Inform	mation						
-	Туј	bical Part Number 🕨	MT	3	2	1	012
1. Basic Series: MT = General pu	urpose relay.						
2. Contact Arrang 2 = 2 Form C (D 3 = 3 Form C (31	PDT) 8 pin						
3 = Silver Nickel	al: 90/10 with mechanical actua 90/10, gold plated, with mec r Nickel 90/10 bifurcated cont	hanical actuator.			_		
6 = AC coil with	test-button and LED.					J	
5. Coil Voltage: Standard 006 = 6VDC 012 = 12VDC 024 = 24VDC 048 = 48VDC 060 = 60VDC 110 = 110VDC 220 = 220VDC	With protection diode 0A6 = 6VDC 0B2 = 12VDC 0C4 = 24VDC 0E8 = 48VDC 0G0 = 60VDC 1B0 = 110VDC 2C0 = 220VDC	Standard With pr 006 = 6VAC 012 = 12VAC 024 = 24VAC 048 = 48VAC 060 = 60VAC 115 = 115VAC 230 = 230VAC	rotection diode N/A N/A N/A N/A N/A N/A N/A				_

Our authorized distributors are more likely to stock the following items for immediate delivery.

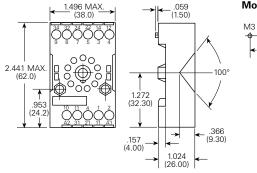
			-		
MT221012	MT226024	MT226230	MT321024	MT326115	
MT221024	MT226115	MT321012	MT326024	MT326230	



MT Sockets and Accessories

MT78750 10A, 400VAC 11 Pin Socket

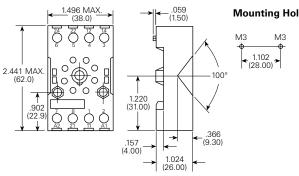




Mounting Hole Centers

M3

MT78755 10A, 400VAC 8 Pin Socket



Hold-Down Spring MT28800

subject to change.

Mounting Hole Centers

www.tycoelectronics.com Technical support: Refer to inside back cover. 743

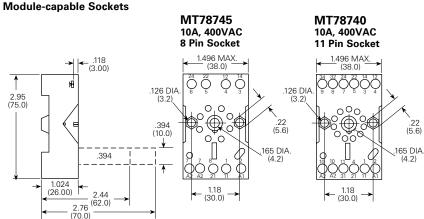
Dimensions are shown for reference purposes only.

Hold-Down Spring MT28800

Dimensions are in inches over (millimeters) unless otherwise specified.

Specifications and availability

SCHRACK



Socket Selection Table Stock items are boldfaced.

Stock items are boldfaced.			Stock items are boldfaced.		
Socket	Socket Type and Termination	Hold-Down Spring	Module	Туре	
MT78750 MT78755 MT78740 MT78745	11-pin, DIN Rail w/ Screw Terminals 8-pin, DIN Rail w/ Screw Terminals 11-pin, module-capable, DIN Rail w/ Screw Terminals 8-pin, module-capable, DIN Rail w/ Screw Terminals	MT28800 MT28800 MT28800 MT28800 MT28800	MTMZ0W00 MTMF0W00	Delay ON timing module Multifunction timing module	

Catalog 1308242 Issued 3-03

LED and Protection Module Selection Table

Stock items are boldfaced.

Module	Туре
MTMT00A0	Protection diode 1N4007
MTMU0524	RC-network 24 – 115 VAC
MTMU0730	RC-network 230 VAC
MTML0024	LED 24 VAC / VDC
MTML0615	LED 115 VAC

Timing Module Functional Data

Nominal Voltage: 24 - 240 VAC / VDC Frequency: 48 - 63 Hz. Precision of Time Setting: $\pm 0.5\%$. **Readiness for Repetition:** ≤ 0.5% or 5 ms. Influence of Temperature: ≤ 0.1% /°C. Time Range Switchable: 0.05 s - 240 h in 8 ranges. Ambient Temperature: -25°C to +55°C.

Timing Function Diagrams U/t **Delay ON** R U/t **Delay OFF** s R U/t Single shot leading edge s R U/t Single shot trailing edge S R U/t Single shot R Delay ON triggered by signal contact U/tFlasher starting with pause U/i Flasher starting with pulse

R

Timing Module Selection Table

Dimensions are shown for 744 reference purposes only.