



Features

- Compact design is only 0.54" (13.7mm) wide.
 Choice of SPDT rated 16A or DPDT rated 8A.
- Plugs into same sockets as our RT series.
- Sensitive DC coil (400mW) or AC coil (0.58VA @60 Hz).
- Test lever, mechanical indicator, LED and protection diode options.
- 4kV (8mm) coil-to-contact isolation
- RoHS Compliant (Directive 2002/95/EC).

Contact Data

Arrangements: 1 Form C (SPDT) and 2 Form C (DPDT).

Contact Set: Single contact.

Type of Interruption: Micro-disconnection.

Material: Silver-nickel 90/10.

Expected Mechanical Life: DC coil 10 million operations minimum.

AC coil 5 million operations minimum.

Switching Frequency With / Without Load: 6 / 600 operations min⁻¹.

Ratings:

Arrangement	1 Form C	2 Form C
Rated Current	16A	8A
Rated Voltage	240VAC	240VAC
Maximum Switching Voltage	400VAC	400VAC
Rated Breaking Capacity	4,000VA	2,000VA
Maximum Make Current (max 4s, 10% DF)	30A	15A

Contact Ratings

(All are for Form C contacts, 70°C, 50% duty factor)

Туре	Load	Cycles
XT37	16A, 250VAC, EN61810-1	30 x 10 ³
XT48	8A, 250VAC, DC Coil, EN61810-1	50 x 10 ³
XT48	8A, 250VAC, AC Coil, EN61810-1	30×10^{3}
XT31	16A, 250VAC, EN61810-1	30 x 10 ³
XT42	8A, 250VAC, DC Coil, EN61810-1	50 x 10 ³
XT42	8A, 250VAC, AC Coil, EN61810-1	30 x 10 ³
XT37	16A, 250VAC, General Purpose, UL508	30 x 10 ³
XT48	8A, 250VAC, General Purpose, DC Coil, UL508	50 x 10 ³
XT48	8A, 250VAC, General Purpose, AC Coil, UL508	30 x 10 ³
XT31	16A, 250VAC, General Purpose, UL508	30 x 10 ³
XT42	8A, 250VAC, General Purpose, DC Coil, UL508	50 x 10 ³
XT42	8A, 250VAC, General Purpose, AC Coil, UL508	30 x 10 ³

Insulation

Initial Dielectric Strength Between Open Contacts: 1,000Vrms. **Initial Dielectric Strength Between Coil and Contacts:**

5,000Vrms with socket RT78726 4,000Vrms with socket RT78725

Initial Dielectric Strength Between Poles: 2,500Vrms. Clearance / Creepage Coil-to-Contact: ≥ 8mm / 8mm.

Material Group of Insulation Parts: ≥ IIIa. Tracking Index of Relay Base: PTI 175 V.

Insulation to IEC 60664-1

Type of insulation coil-contact circuit: Reinforced. Type of insulation open contact circuit: Functional. Type of insulation adjacent contact circuits: Basic.

Rated Insulation Voltage: 250V

Pollution Degree: Rated Voltage System: 240V 400V

Overvoltage Category: III.

XT series

Interface Plug-in Relay 8 to 16 Amp, 1 or 2 Pole

c **%** us File E214025

NR B758 VDE

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

Coil Data

Rated Coil Voltage Range: 6-110VDC; 24-230VAC.

Operative Range: 2.

Coil Insulation System (Per UL1446): Class F.

Coil Power (Typ.): DC - 400mW; AC - 0.76VA @ 50Hz. / 0.58VA @ 60Hz.

DC Coil Data @ 23°C

Nominal Voltage VDC	DC Resistance in Ohms	Must Operate Voltage VDC	Drop-out Voltage VDC	Power for Opt. LED (mW)
12	360 ±10%	8.4	1.2	10
24	1,440 ±10%	16.8	2.4	19
48	5,520 ±10%	33.6	4.8	39
110	28,800 ±12%	77.0	11.0	87

NOTE: Observe coil polarity on models with the optional protection diode. A1 is positive and A2 is negative.

AC Coil Data @ 23°C

Nominal Voltage VAC	DC Resistance in Ohms	Must Operate Voltage (VAC) 50 Hz / 60 Hz	Drop-out Voltage VAC	Power for Opt. LED (VA)
24	350 ±10%	18.0 / 20.4	3.6	0.012
115	8,100 ±15%	86.3 / 97.8	17.3	0.054
230	32,500 ±10%	172.5 / 196.5	34.5	0.073

Operate Data

Must Operate Voltage: See Coil Data table.

Operate Time (DC Coil): 9 ms typical, at nom. voltage. Release Time (DC Coil): 6 ms typical, at nom. voltage. Bounce Time (DC Coil) NO / NC: 4 ms / 12 ms.

Environmental Data

Temperature Range:

Operating: -40°C to +70°C.

Vibration Resistance (functional): 20g N/O, 5g N/C, 30 to 500 Hz.

Shock Resistance (destruction): 100g.

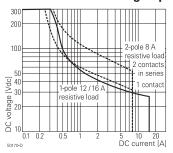
Mechanical Data

Flammability Class (per UL94): V-0. Category of Protection: RTII.

Mounting Distance: 4.5mm, dense packing of sockets.

Relay Weight: .56 oz. (16 g) approximately

Max. DC Load Breaking Capacity (resistive load)

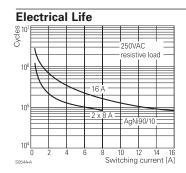


Ambient temperature [°C]



Coil Operating Range Page 22 Page 23 Page 24 Page 24

+20



Ordering Information

Ambient temperature [°C]

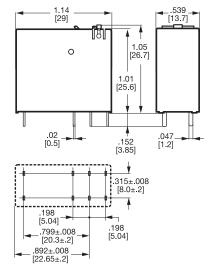
XT 3 4 024 Typical Part Number > 1. Basic Series: XT = Compact Plug-in General Purpose Relay. 2. Version: 3 = 1 pole, 16A, 5mm pinning 4 = 2 pole, 8A, 5mm pinning 3. Contact Arrangement and Test/Indicator Option: 1 Form C (SPDT), no test lever or mechanical indicator. 7 = 1 Form C (SPDT), with test lever and mechanical indicator. 2 = 2 Form C (DPDT), no test lever or mechanical indicator. 8 = 2 Form C (DPDT), with test lever and mechanical indicator. 4. Contact Material: 4 = AgNi 90/105. Coil Code: DC Coils DC Coils with Optional LED and Diode AC Coils AC Coils with Optional LED R24 = 24VAC, with LED S15 = 115VAC, with LED 012 = 12VDCLB2 = 12VDC, with LED and protection diode 524 = 24VACLC4 = 24VDC, with LED and protection diode 024 = 24VDC615 = 115VAC048 = 48VDCT30 = 230VAC, with LED LE8 = 48VDC, with LED and protection diode 730 = 230VACM80 = 110VDC, with LED and protection diode 110 = 110VDC

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

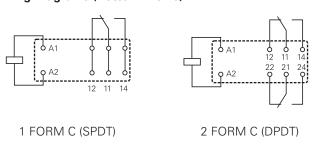
XT374R24 XT314012 XT314524 XT374LB2 XT374T30 XT424024 XT424615 XT484LC4 XT314024 XT314615 XT374LC4 XT374S15 XT424012 XT424524 XT484LB2 XT484R24 XT484T30

NOTE: All part numbers listed above are RoHS compliant.

Outline Dimensions



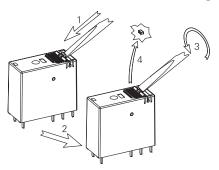
Wiring Diagrams (Bottom Views)



NOTE: Observe coil polarity on models with the optional protection diode. A1 is positive and A2 is negative.



Conversion of Test Lever to Locking Capability

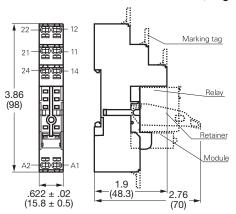


A standard XT series relay with a test lever is delivered with the locking function of the test lever disabled. In this state, a small plastic nib is designed to interfere with the lever moving to the locking position in normal operation; however, if the test lever is moved too forcefully, it may bypass the normal test position and go to the locked position.

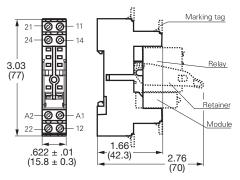
To enable the locking function, please remove the small plastic nib as illustrated in the drawing at left. The lever may then move to its locking position with no undue force required.

Available Sockets & Accessories for use with XT Series Relays

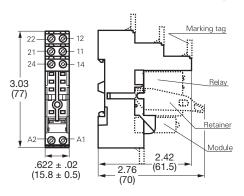
RT7872P
DIN Rail Socket with Poke In Terminals, Logical Arrangement



RT78725
DIN Rail Socket with Screw Terminals, Conventional Arrangement



RT78726
DIN Rail Socket with Screw Terminals, Logical Arrangement



Socket Selection Table

Socket Part No.	Termination	Mounting Style
RT78726	Screw Terminals, Conventional Arrangement Screw Terminals, Logical Arrangement Poke-in (screwless) Terminals, Logical Arrangement	DIN-rail DIN-rail DIN-rail

Accessory Selection Table

Accessory Part No.	Description
RT17017	Plastic Retaining Clip
RT17040	Plastic Snap-on Marking Tag
RT170P1	Jumper Bar (for use with Socket RT170P1)
PTM (various)	LED and Protection Modules*

^{*} Consult factory for details concerning various available modules.

NOTE: All part numbers listed above are RoHS compliant.

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