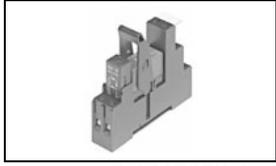


## 5-1415073-1 Product Details



**5-1415073-1**  
(RT3S4R24)

TE Internal Number: 5-1415073-1



### Industrial Relays (General Purpose)

 [Converted to EU RoHS/ELV Compliant](#)  
(Statement of Compliance)

#### Product Highlights:

- RT Package Series
- Contact - Current Class = 10A to 20A Class, Greater Than 16A
- Contact - Rated Current = 16 A
- Terminal Type = Screw Terminals
- Contact - Arrangement = 1 Form C (CO)

### Documentation & Additional Information

#### Product Drawings:

- None Available

#### Catalog Pages/Data Sheets:

- [Relay Package Package RT](#) (PDF, English)

#### Product Specifications:

- None Available

#### Application Specifications:

- None Available

#### Instruction Sheets:

- None Available

#### CAD Files: (CAD Format & Compression Information)

- [2D Drawing](#) (DXF, Version A)
- [3D Model](#) (IGES, Version A)
- [3D Model](#) (STEP, Version A)

#### Additional Information:

- [Product Line Information](#)

#### Related Products:

- [Tooling](#)

### Product Features (Please use the Product Drawing for all design activity)

#### Product Type Features:

- Series = RT Package
- Terminal Type = Screw Terminals

#### Electrical Characteristics:

- Contact - Current Class = 10A to 20A Class, Greater Than 16A
- [Contact - Rated Current \(A\)](#) = 16
- Contact - Limiting Continuous Current (A) = 16
- Contact - Limiting Making Current (A) = 30
- Contact - Limiting Breaking Current (A) = 16
- Insulation - Initial Dielectric Between Coil/Contact Class = 500V to 1000V Class
- Insulation - Initial Dielectric Between Open Contacts (V rms) = 5000
- Insulation - Initial Dielectric Between Contacts and Coil (V rms) = 1000
- Contact - Rated Voltage (VAC) = 240
- Contact - Switching Voltage Max. (VAC) = 400
- Contact - Limiting Short-Time Current (A) = 16
- Coil - Rated Voltage (VAC) = 24
- [Coil - Resistance \(Ω\)](#) = 350
- [Coil - Rated Power, AC \(VA\)](#) = 1.00
- Coil - Rated Power Class = 0.5VAW to 1.0VA Class
- Insulation - Creepage Class = >8mm Class
- Insulation - Clearance Class = >8mm Class
- Insulation - Special Features = Tracking Index of Relay Base PTI250

#### Dimensions:

- Mechanical - Length Class = >60mm Class
- Length (mm [in]) = 77.00 [3.031]
- Mechanical - Width Class = 12mm to 16mm Class
- Width (mm [in]) = 15.80 [0.622]
- Mechanical - Height Class = >50mm Class

#### Body Features:

- Mount Type = DIN Rail
- Weight (g [oz]) = 54.00 [1.905]

#### Contact Features:

- Contact Material = AgNi90/10
- Contact - Number of Poles = 1

#### Configuration Features:

- [Contact - Arrangement](#) = 1 Form C (CO)
- [Coil - Magnetic System](#) = Monostable, AC
- Coil - Special Features = LED, Electrical Indicator

#### Industry Standards:

- [RoHS/ELV Compliance](#) = RoHS compliant, ELV compliant
- [Lead Free Solder Processes](#) = Not relevant for lead free process
- RoHS/ELV Compliance History = Converted to comply with RoHS directive
- Approved/Registered Standards = VDE, cULus

#### Environmental:

- Environmental - Category of Protection = RTI
- Environmental - Ambient Temperature, Max. (°C [°F]) = 70 [158]
- Environmental - Ambient Temperature Class = 50°C to 70°C Class

#### Packaging Features:

- Packaging Method = Box

#### Other:

- Brand = Schrack

- Height (mm [in]) = 69.00 [2.716]
- Insulation - Clearance Between Contact and Coil (mm [in]) = 10 [0.394]
- Insulation - Creepage Between Contact and Coil (mm [in]) = 10 [0.394]

**Relay Package RT**

- Relay package consisting of RT relay, DIN-rail socket, plastic retaining clip, module and marking tag
- 1 CO with 16 A or 2 CO with 8 A rated load
- Sensitive DC- or AC coil
- Reinforced insulation (protection class II / VDE 0700), safe separation to VDE 0160
- Jumper bars for interconnection
- Further accessories see Accessories RT



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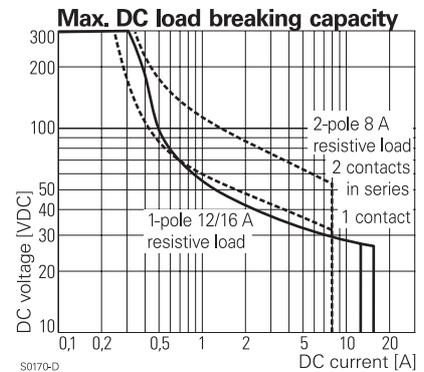
**Approvals**

Relay: REG.-Nr. 6106, us E214025

Socket: REG.-Nr. 6106, us E135149  
 Technical data of approved types on request

Contact data	1-pole	2-pole
Contact configuration	1 CO	2 CO
Contact set	single contact	
Type of interruption	micro disconnection	
Rated voltage / max. switching voltage AC	240 / 400 VAC	
Rated current	16 A*)	8 A
Limiting continuous current	16 A*)	8 A, UL: 10 A
Maximum breaking capacity AC	4000 VA	2000 VA
Limiting making capacity,max 4 s, df 10%	30 A	15 A
Contact material	AgNi 90/10, AgNi90/10 gold plated	
Rated frequency of operation with / without load	6 / 1200 min <sup>-1</sup>	

\*) For full load current (16 A) the relay terminals 11-21, 12-22 and 14-24 have to be bridged.



S0170-D

**Contact ratings**

For contact ratings see datasheet Interface Power relay RT

**Coil data**

Rated coil voltage range DC coil	24 VDC
AC coil	24, 115, 230 VAC
Operative range to IEC 61810	2

**Coil versions, DC-coil**

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ohm	Rated coil power mW
LC4	24	16.8	2.4	1440±10%	400

**Coil versions, AC-coil 50Hz**

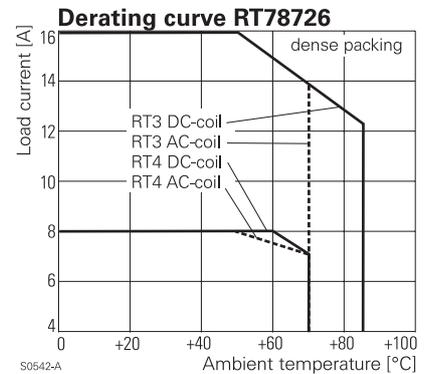
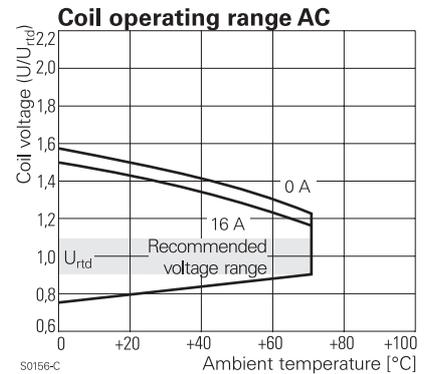
Coil code	Rated voltage VAC	Operate voltage 50 Hz VAC	Release voltage 50 Hz VAC	Coil resistance Ohm	Rated coil power 50 Hz VA
R24	24	18.0	3.6	350±10%	0.76
S15	115	86.3	17.3	8100±15%	0.76
T30	230	172.5	34.5	32500±15%	0.74

All figures are given for coil without preenergization, at ambient temperature +23°C  
 Other coil voltages on request

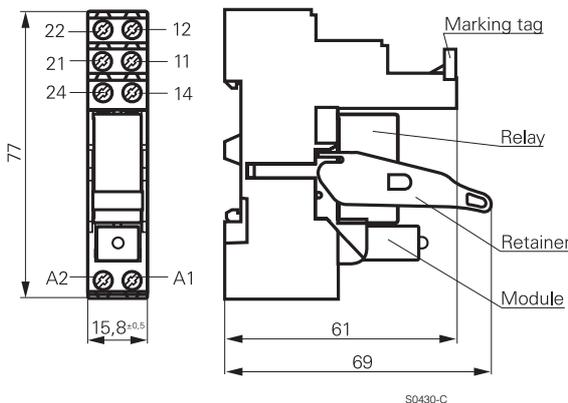
**Relay Package RT (Continued)**

Insulation	1-pole	2-pole
Dielectric strength coil-contact circuit		5000 V <sub>rms</sub>
open contact circuit		1000 V <sub>rms</sub>
adjacent contact circuits		2500 V <sub>rms</sub>
Clearance / creepage coil-contact circuit	≥ 10 / 10 mm	
Material group of insulation parts	IIIa	
Tracking index of relay base	PTI 250 V	
Insulation to IEC 60664-1		
Type of insulation coil-contact circuit		reinforced
open contact circuit		micro disconnection
adjacent contact circuits		functional
Rated insulation voltage		250 V
Pollution degree,	3	2
Rated voltage system	240 V	230 / 400 V
Overtoltage category		III

Other data		
Mechanical endurance	1-pole	2-pole
DC coil	> 30 x 10 <sup>6</sup>	>30 x 10 <sup>6</sup>
AC coil	> 10 x 10 <sup>6</sup>	>5 x 10 <sup>6</sup>
Material	RoHS - Directive 2002/95/EC compliant as per product date code 0535	
Environment	Ambient temperature range DC coil -20...+85°C	
	AC coil -20...+70°C	
Processing	Terminals screw	
Terminal screw torque acc. IEC 61984 max.	0.5 Nm	
	0.7 Nm	
Wire cross section	single wire 2 x 2.5 mm <sup>2</sup>	
fine wire	2 x 2.5 mm <sup>2</sup>	
with bootlace crimp (DIN 46228/1)	2 x 1.5 mm <sup>2</sup>	
Insertion cycles	A (10)	
Max. Insertion Force total	100 N	
Mounting distance	≥ 0, dense packing of sockets	
Weight	54 g	
Packaging unit	10 pcs	



**Dimensions**



**Relay Package RT (Continued)**

<b>Product key</b>	Typical product key	<b>RT</b>	<b>4S</b>	<b>4</b>	<b>T30</b>
<b>Type</b>	RT Relay Package RT				
<b>Version</b>	<b>3S</b> Relay set: RT 1-pole CO (1 form C), 16 A, red LED <b>4S</b> Relay set: RT 2-pole CO (2 form C), 8 A, red LED				
<b>Contact material</b>	<b>4</b> AgNi 90/10, CO contact <b>5</b> AgNi 90/10 gold plated, CO contact				
<b>Coil</b>	<b>LC4</b> 24 VDC <b>S15</b> 115 VAC	<b>R24</b> 24 VAC <b>T30</b> 230 VAC			

Other types on request

Product key	Socket	Retainer	Marking tag	Module	Relay	Coil	Part number
RT3S4LC4	RT78726	RT17017	RT17040	PTML0024	RT314024	24 VDC	4-1415073-1
RT3S4R24				PTML0524	RT314524	24 VAC	5-1415073-1
RT3S4S15				PTML0730	RT314615	115 VAC	5-1415528-1
RT3S4T30				PTML0730	RT314730	230 VAC	6-1415073-1
RT3S5LC4				PTML0024	RT315024	24 VDC	7-1415073-1
RT3S5R24				PTML0524	RT315524	24 VAC	8-1415073-1
RT3S5T30				PTML0730	RT315730	230 VAC	9-1415073-1
RT4S4LC4				PTML0024	RT424024	24 VDC	1-1415073-1
RT4S4R24				PTML0524	RT424524	24 VAC	2-1415073-1
RT4S4S15				PTML0730	RT424615	115 VAC	8-1415532-1
RT4S4T30				PTML0730	RT424730	230 VAC	3-1415073-1
RT4S5LC4				PTML0024	RT425024	24 VDC	1415074-1
RT4S5R24				PTML0524	RT425524	24 VAC	1-1415074-1
RT4S5T30				PTML0730	RT425730	230 VAC	2-1415074-1