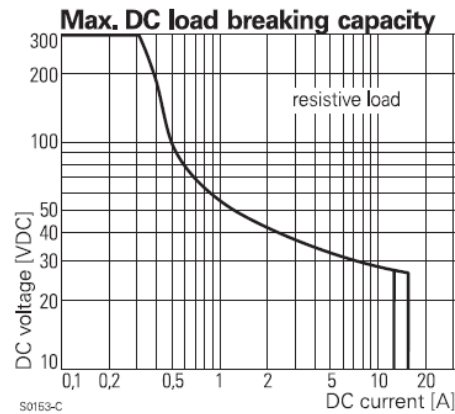


Mono-stable relay	
Self-consumption:	
Max. switching current DC	see diagram
Max. switching current AC:	16Aac
Max. input voltage DC:	300Vdc
Max. input voltage AC	250Vac



### 9.5 AUXILIARY RELAY MODULE ARM-02 (XTS)

This external module is connected to the plug (2) (described in chapter xx) by a 5m cable supplied with the accessory. It provides the XTS with auxiliary relays as described in sect. 7.5 - p. 31. This module can be mounted on DIN rail.

If the plug (2) is already used for the temperature sensor BTS-01, it should be moved to the free plug on ARM-02.



### 9.5 HILFSKONTAKTE MODUL ARM-02 (XTS)

Dieses Modul enthält die beiden Hilfskontakte welche im XTS nicht integriert sind. Diese Relais können über den XTS angesteuert werden und gleich genutzt werden wie die in den XTH und XTM beriets integrierten Hilfskontakte.

Das Modul kann auf einer DIN Schiene montiert werden.

Ist die Buchse (2) bereits durch die Temperatursonde BTS-01 besetzt, muss diese umgesteckt werden auf die freie Buchse am ARM-02.



### 9.5 MODULE DE RELAIS AUXILIAIRE ARM-02 (XTS)

Ce module externe, raccordé sur le connecteur (2) décrite au chap. 3.6.4 par un câble de 5m livré avec l'accessoire. Il permet à l'XTS de disposer des contacts auxiliaire tels que décrit chap. 7.5 - p. 30. Ce module est enfichable sur Rail DIN.

Si le connecteur (2) est déjà occupé par le capteur de température BTS-01, celui-ci sera déplacé sur le connecteur libre de l'ARM-01



### 9.5 MÓDULO DE RELÉS AUXILIARES ARM-02 (XTS)

Este módulo externo, conectado al conector (2) descrito en cap. 3.6.4 por un cable de 5m entregado con el accesorio. Permite al XTS disponer de contactos auxiliares como descritos en el cap. 7.5 - p. 30. Este módulo se puede poner en riel DIN.

Si el conector (2) ya está ocupado por el sensor de temperatura BTS-01, éste se desplazará sobre el conector libre del ARM-01.



**Power PCB Relay RT1**

- 1 pole 12A/16A, 1 form C (CO) or 1 form A (NO) contact
- DC or AC coil
- 5kV/10mm coil-contact, reinforced insulation
- Ambient temperature 85°C (DC coil)
- WG version: product in accordance to IEC 60335-1
- Reflow version: for THR (Through-Hole Reflow) soldering process



10144 C

Typical applications

Boiler control, timers, garage door control, POS automation, interface modules



Approvals

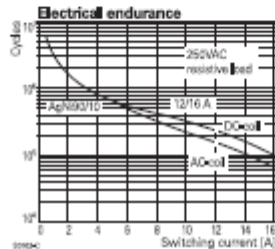
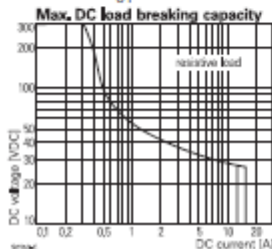
VDE REG.-Nr. 6106, cULus E214025, cCSAus 14385, CQC  
Technical data of approved types on request

Contact Data	12A	16A
Contact arrangement	1 form C (CO) or 1 form A (NO)	
Rated voltage	250VAC	
Max. switching voltage	400VAC	
Rated current	12A	16A
Limiting continuous current	12A	16A, UL: 20A
Limiting making current max. 4s, duty factor 10%	25A	30A
Breaking capacity max.	3000VA	4000VA
Contact material	AgNi 90/10, AgNi 90/10 gold plated	
Frequency of operation, with/without load		
DC coil	360/72000h <sup>-1</sup>	
AC coil	360/36000h <sup>-1</sup>	
Operate/release time max., DC coil	8/6ms	
Bounce time max., DC coil, form A/form B	4/6ms	
Electrical endurance	see electrical endurance graph <sup>1)</sup>	

Contact ratings

Type	Contact	Load	Cycles
<b>IEC 61810</b>			
RT314 DC-coil	A (NO)	16A, 250VAC, $\cos\phi=1$ , 85°C	30x10 <sup>3</sup>
RT314 DC-coil	C (CO)	16A, 250VAC, $\cos\phi=1$ , 85°C	10x10 <sup>3</sup>
RT314 DC-coil	A (NO)	10A, 400VAC, $\cos\phi=1$ , 85°C	150x10 <sup>3</sup>
RT114 DC-coil	A (NO)	12A, 250VAC, $\cos\phi=1$ , 85°C	50x10 <sup>3</sup>
RT114 AC-coil	A (NO)	12A, 250VAC, $\cos\phi=1$ , 70°C	100x10 <sup>3</sup>
<b>UL 508</b>			
RT314	A/B (NO/NC)	20A, 250VAC, general purpose, 85°C	6x10 <sup>3</sup>
RT334	A (NO)	16A, 250VAC, gen. purpose, 85°C	50x10 <sup>3</sup>
RT314	A (NO)	1hp, 240VAC, 40°C	1x10 <sup>3</sup>
RT314	A (NO)	FLA/LRA, 4.5/13.1A, 480VAC, 70°C	100x10 <sup>3</sup>
<b>EN60947-5-1</b>			
RT314 DC-coil	A/B (NO/NC)	2A, 24VDC, DC13	6.050
<b>EN60730-1</b>			
RT314 DC-coil	A (NO)	12/2A, 250VAC, 85°C	100x10 <sup>3</sup>

<sup>1)</sup> For reflow solderable versions: actual contact performance may be influenced by the reflow soldering process.



Contact Data (continued)

Mechanical endurance	
DC coil	>30x10 <sup>6</sup> operations
AC coil	>10x10 <sup>6</sup> operations
AC coil, reflow version	>5x10 <sup>6</sup> operations

Coil Data

Coil voltage range, DC coil/ AC coil	5 to 110VDC / 24 to 230VAC
Operative range, IEC 61810	2
Coil insulation system according UL	class F

Coil versions, DC coil

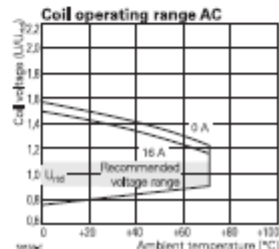
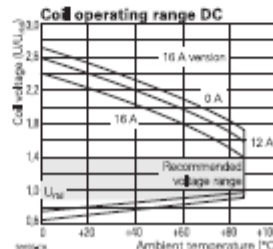
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance $\Omega \pm 10\%^{2)}$	Rated coil power mW
005	5	3.5	0.5	62	403
006	6	4.2	0.6	90	400
009	9	6.3	0.9	200	400
012	12	8.4	1.2	360	400
024	24	16.8	2.4	1440	400
048	48	33.6	4.8	5520	417
060	60	42.0	6.0	8570 <sup>3)</sup>	420
110	110	77.0	11.0	28800 <sup>3)</sup>	420

<sup>2)</sup> Coil resistance  $\pm 12\%$ .  
All figures are given for coil without pre-energization, at ambient temperature +23°C.  
Other coil voltages on request.

Coil versions, AC coil 50/60 Hz

Coil code	Rated voltage VAC	Operate voltage VAC	Release voltage VAC	Coil resistance $\Omega \pm 15\%^{2)}$	Rated coil power VA
524	24	18.0	3.6	350 <sup>3)</sup>	0.76
615	115	86.3	17.3	8100	0.76
620	120	90.0	18.0	8800	0.75
700	200	150.0	30.0	24350	0.76
730	230	172.5	34.5	32500	0.74

<sup>2)</sup> Coil resistance  $\pm 10\%$ .  
All figures are given for coil without pre-energization, at ambient temperature +23°C, 50 Hz.  
Other coil voltages on request.



**Insulation Data**

Initial dielectric strength	
between open contacts	1000V <sub>rms</sub>
between contact and coil	5000V <sub>rms</sub>
Clearance/creepage	
between contact and coil	≥10/10mm
Material group of insulation parts	IIIa
Tracking Index of relay base	PTI 250V
reflow version	PTI 175V

**Other Data**

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at [www.te.com/customersupport/rohssupportcenter](http://www.te.com/customersupport/rohssupportcenter)

Resistance to heat and fire	
WG version or Reflow version	according EN60335, par30
Ambient temperature	
DC coil	-40 to 85°C
AC coil	-40 to 70°C
Category of environmental protection, IEC 61810	
standard version	RTII - flux proof, RTIII - wash tight
reflow version	RTII - flux proof
Vibration resistance (functional)	
form A/form B contact, 30 to 500Hz	20g/5g
Shock resistance (destructive)	100g

**Other Data (continued)**

Terminal type	
standard version	PCB-THT, plug-in
reflow version	PCB-THR
Mounting distance	AC coil: ≥2.5mm
Weight	14g
Resistance to soldering heat	THT, IEC 60068-2-20
RTII	270°C/10s
RTIII	260°C/5s
Resistance to soldering heat	THR
reflow soldering (for reflow version)	forced gas convection <sup>4)</sup> or vapour phase <sup>5)</sup>
temperature profile	according EN61730
Packaging/unit	tube/20 pcs., box/500 pcs.

<sup>4)</sup> Infrared heating not allowed

<sup>5)</sup> recommended fluid LS290

**Accessories**

For details see datasheet [Accessories Industrial Power Relay HT](#)

NOTE: Indicated contact ratings and electrical endurance data for direct wiring of relays (according IEC 61810-1); for relays mounted on sockets deratings may apply.