

3RH, 3TH Contactor Relays

3RH11 coupling relays (interface) for switching auxiliary circuits, 4-pole

Overview

DC operation

IEC 60947, EN 60947.

The 3RH11 coupling relays for switching auxiliary circuits are tailored to the special requirements of working with electronic controls.

The 3RH11 coupling relays cannot be extended with auxiliary switch blocks.

The coupling relays have a low power consumption, an extended operating range of the solenoid coil and an integrated surge suppressor for damping opening surges (exceptions: 3RH11 ...HB40 and 3RH11 ...MB40-0KT0).

Selection and ordering data

DC operation

Low power consumption

Extended operating range of the solenoid coils

Integrated coil circuit

PU (UNIT, SET, M)= 1
PS* = 1 unit
PG = 101



3RH11 ...-1.B40



3RH11 ...-2.B40

Surge suppressor	Rated operational current I_e /AC-15/AC-14 at 230 V	Auxiliary contacts		DT	Screw terminals			DT	Cage Clamp terminals		
		Ident. No. acc. to EN 50011	Version		Weight per PU approx.	Price per PU	Weight per PU approx.				
					Order No.	Price per PU	kg	Order No.	Price per PU	kg	

A



For screw and snap-on mounting onto TH 35 standard mounting rail

Size S00

Terminal designations according to EN 50011

Rated control supply voltage $U_s = 24$ V DC, operating range **0.7 to 1.25 x U_s**

Power consumption of the solenoid coils **2.3 W** at 24 V (no auxiliary switch blocks can be mounted)

Diode, varistor or RC element, attachable	6	40 E	4	--	▶	3RH11 40-1HB40	0.260 B	3RH11 40-2HB40	0.260
		31 E	3	1	▶	3RH11 31-1HB40	0.260 B	3RH11 31-2HB40	0.260
		22 E	2	2	▶	3RH11 22-1HB40	0.260 B	3RH11 22-2HB40	0.260
Built-in diode	6	40 E	4	--	▶	3RH11 40-1JB40	0.260 B	3RH11 40-2JB40	0.260
		31 E	3	1	▶	3RH11 31-1JB40	0.260 B	3RH11 31-2JB40	0.260
		22 E	2	2	▶	3RH11 22-1JB40	0.260 B	3RH11 22-2JB40	0.260
Built-in varistor	6	40 E	4	--	▶	3RH11 40-1KB40	0.260 B	3RH11 40-2KB40	0.260
		31 E	3	1	▶	3RH11 31-1KB40	0.260 B	3RH11 31-2KB40	0.260
		22 E	2	2	▶	3RH11 22-1KB40	0.260 B	3RH11 22-2KB40	0.260

Rated control supply voltage $U_s = 24$ V DC, operating range **0.85 to 1.85 x U_s**

Power consumption of the solenoid coils **1.4 W** at 24 V (no auxiliary switch blocks can be mounted)

Diode, varistor or RC element, attachable	6	40 E	4	--	B	3RH11 40-1MB40-0KT0	0.260 B	3RH11 40-2MB40-0KT0	0.260
		31 E	3	1	B	3RH11 31-1MB40-0KT0	0.260 B	3RH11 31-2MB40-0KT0	0.260
		22 E	2	2	A	3RH11 22-1MB40-0KT0	0.260 B	3RH11 22-2MB40-0KT0	0.260
Built-in diode	6	40 E	4	--	B	3RH11 40-1VB40	0.260 B	3RH11 40-2VB40	0.260
		31 E	3	1	A	3RH11 31-1VB40	0.260 B	3RH11 31-2VB40	0.260
		22 E	2	2	B	3RH11 22-1VB40	0.260 B	3RH11 22-2VB40	0.260
Built-in varistor	6	40 E	4	--	B	3RH11 40-1WB40	0.260 B	3RH11 40-2WB40	0.260
		31 E	3	1	A	3RH11 31-1WB40	0.260 B	3RH11 31-2WB40	0.260
		22 E	2	2	A	3RH11 22-1WB40	0.260 B	3RH11 22-2WB40	0.260

For accessories, see page 3/102 and 3/104.

3RT10 coupling relays (interface),
for switching motors, 3-pole, 3 ... 11 kW

Overview

DC operation

IEC 60947, EN 60947.

The 3RT10 coupling relays for switching motors are tailored to the special requirements of working with electronic controls.

The 3RT10 1 coupling relays cannot be extended with auxiliary switch blocks.

Two single-pole auxiliary switch blocks can be fitted to the 3RT10 2 coupling relays (see Accessories on page 3/97).

The coupling relays have a low power consumption, an extended operating range of the solenoid coil and an integrated surge suppressor for damping opening surges (exceptions: 3RT10 1.-1HB4. and 3RT10 1.-.MB4.-0KT0).

Selection and ordering data

DC operation

Low power consumption

Extended operating range of the solenoid coils

Integrated coil circuit

PU (UNIT, SET, M)= 1
 PS* = 1 unit
 PG = 101



3RT10 1.-1.B4.



3RT10 1.-2.B4.

Surge suppressor	Rated data AC-2 and AC-3, T_U : Up to 60 °C		Auxiliary contacts		DT	Screw terminals		Weight per PU approx.	DT	Cage Clamp terminals		Weight per PU approx.
	Operational current I_e up to 400 V	Rating of induction motors at 50 Hz and 400 V	Ident. No.	Version		Order No.	Price per PU			Order No.	Price per PU	
A	400 V	400 V						kg				kg
			NO	NC								

For screw and snap-on mounting onto TH 35 standard mounting rail

Size S00

Terminal designations according to EN 50012

Rated control supply voltage $U_s = 24$ V DC, coil operating range **0.7 to 1.25** x U_s Power consumption of the solenoid coils **2.3 W** at 24 V (no auxiliary switch blocks can be mounted)

Diode, varistor or RC element, attachable	7	3	10	1	--	▶	3RT10 15-1HB41	0.260	B	3RT10 15-2HB41	0.260
			01	--	1	▶	3RT10 15-1HB42	0.260	B	3RT10 15-2HB42	0.260
Built-in diode	7	3	10	1	--	▶	3RT10 15-1JB41	0.260	▶	3RT10 15-2JB41	0.260
			01	--	1	▶	3RT10 15-1JB42	0.260	▶	3RT10 15-2JB42	0.260
Built-in varistor	7	3	10	1	--	▶	3RT10 15-1KB41	0.260	▶	3RT10 15-2KB41	0.260
			01	--	1	▶	3RT10 15-1KB42	0.260	▶	3RT10 15-2KB42	0.260
Diode, varistor or RC element, attachable	9	4	10	1	--	▶	3RT10 16-1HB41	0.260	B	3RT10 16-2HB41	0.260
			01	--	1	▶	3RT10 16-1HB42	0.260	B	3RT10 16-2HB42	0.260
Built-in diode	9	4	10	1	--	▶	3RT10 16-1JB41	0.260	▶	3RT10 16-2JB41	0.260
			01	--	1	▶	3RT10 16-1JB42	0.260	▶	3RT10 16-2JB42	0.260
Built-in varistor	9	4	10	1	--	▶	3RT10 16-1KB41	0.260	▶	3RT10 16-2KB41	0.260
			01	--	1	▶	3RT10 16-1KB42	0.260	▶	3RT10 16-2KB42	0.260
Diode, varistor or RC element, attachable	12	5.5	10	1	--	▶	3RT10 17-1HB41	0.260	B	3RT10 17-2HB41	0.260
			01	--	1	▶	3RT10 17-1HB42	0.260	B	3RT10 17-2HB42	0.260
Built-in diode	12	5.5	10	1	--	▶	3RT10 17-1JB41	0.260	▶	3RT10 17-2JB41	0.260
			01	--	1	▶	3RT10 17-1JB42	0.260	A	3RT10 17-2JB42	0.260
Built-in varistor	12	5.5	10	1	--	▶	3RT10 17-1KB41	0.260	▶	3RT10 17-2KB41	0.260
			01	--	1	▶	3RT10 17-1KB42	0.260	▶	3RT10 17-2KB42	0.260

For accessories, see page 3/108.

3RT Coupling Relays

**3RT10 coupling relays (interface),
for switching motors, 3-pole, 3 ... 11 kW**

DC operation

Low power consumption

Extended operating range of the solenoid coils

Integrated coil circuit

PU (UNIT, SET, M)= 1

PS* = 1 unit

PG = 101



3RT10 1.-1.B4.



3RT10 1.-2.B4.

Surge suppressor	Rated data AC-2 and AC-3, T_{ij} : Up to 60 °C	Auxiliary contacts		DT	Screw terminals		Weight per PU approx.	DT	Cage Clamp terminals		Weight per PU approx.
		Ident. No.	Version		Order No.	Price per PU			Order No.	Price per PU	
	Operational current I_e up to 400 V A	Rating of induction motors at 50 Hz and 400 V kW									
			NO NC				kg				kg

For screw and snap-on mounting onto TH 35 standard mounting rail

Size S00

Terminal designations according to EN 50012

Rated control supply voltage $U_s = 24$ V DC, operating range **0.85 to 1.85 x U_s**

Power consumption of the solenoid coils **1.4 W** at 24 V (no auxiliary switch blocks can be mounted)

Diode, varistor or RC element, attachable	7	3	10 01	1 --	-- 1	B B	3RT10 15-1MB41-0KT0 3RT10 15-1MB42-0KT0	0.260 B 0.260 B	3RT10 15-2MB41-0KT0 3RT10 15-2MB42-0KT0	0.260 0.260
Built-in diode	7	3	10 01	1 --	-- 1	B B	3RT10 15-1VB41 3RT10 15-1VB42	0.260 B 0.260 B	3RT10 15-2VB41 3RT10 15-2VB42	0.260 0.260
Built-in varistor	7	3	10 01	1 --	-- 1	A B	3RT10 15-1WB41 3RT10 15-1WB42	0.260 B 0.260 B	3RT10 15-2WB41 3RT10 15-2WB42	0.260 0.260
Diode, varistor or RC element, attachable	9	4	10 01	1 --	-- 1	B B	3RT10 16-1MB41-0KT0 3RT10 16-1MB42-0KT0	0.260 B 0.260 B	3RT10 16-2MB41-0KT0 3RT10 16-2MB42-0KT0	0.260 0.260
Built-in diode	9	4	10 01	1 --	-- 1	B B	3RT10 16-1VB41 3RT10 16-1VB42	0.260 B 0.260 B	3RT10 16-2VB41 3RT10 16-2VB42	0.260 0.260
Built-in varistor	9	4	10 01	1 --	-- 1	B B	3RT10 16-1WB41 3RT10 16-1WB42	0.260 B 0.260 B	3RT10 16-2WB41 3RT10 16-2WB42	0.260 0.260
Diode, varistor or RC element, attachable	12	5.5	10 01	1 --	-- 1	B B	3RT10 17-1MB41-0KT0 3RT10 17-1MB42-0KT0	0.260 B 0.260 B	3RT10 17-2MB41-0KT0 3RT10 17-2MB42-0KT0	0.260 0.260
Built-in diode	12	5.5	10 01	1 --	-- 1	B B	3RT10 17-1VB41 3RT10 17-1VB42	0.260 B 0.260 B	3RT10 17-2VB41 3RT10 17-2VB42	0.260 0.260
Built-in varistor	12	5.5	10 01	1 --	-- 1	B B	3RT10 17-1WB41 3RT10 17-1WB42	0.260 B 0.260 B	3RT10 17-2WB41 3RT10 17-2WB42	0.260 0.260

For accessories, see page 3/108.

3RT Coupling Relays

**3RT10 coupling relays (interface),
for switching motors, 3-pole, 3 ... 11 kW**

- DC operation**
- Low power consumption**
- Extended operating range of the solenoid coils**
- Integrated coil circuit**

PU (UNIT, SET, M)= 1
 PS* = 1 unit
 PG = 101



3RT10 2.-1KB40



3RT10 2.-3KB40

Surge suppressor	Rated data AC-2 and AC-3, T_U : Up to 60 °C	Auxiliary contacts		DT	Screw terminals		Weight per PU approx.	DT	Cage Clamp terminals for coil terminals		Weight per PU approx.
		Ident. No.	Version		Order No.	Price per PU			Order No.	Price per PU	
	Operational current I_e up to 400 V	Rating of induction motors at 50 Hz and 400 V									
A	kW		NO NC			kg				kg	

For screw and snap-on mounting onto TH 35 standard mounting rail

Size S0

Rated control supply voltage $U_s = 24$ V DC, coil operating range **0.7 to 1.25 x U_s**
 Power consumption of the solenoid coils **4.2 W** at 24 V (**2 single-pole auxiliary switch blocks can be mounted**)

Varistor mounted	12	5.5	--	--	--	▶	3RT10 24-1KB40	0.600	B	3RT10 24-3KB40	0.600
	17	7.5	--	--	--	▶	3RT10 25-1KB40	0.600	▶	3RT10 25-3KB40	0.600
	25	11	--	--	--	▶	3RT10 26-1KB40	0.600	▶	3RT10 26-3KB40	0.600

For accessories, see page 3/103.

* You can order this quantity or a multiple thereof.



3TX7, 3RS18 Coupling Relays

3TX7 Coupling Relays, Narrow Design

Relay couplers

Application

AC and DC operation

EN 60947, EN 60664-1 and EN 50005.






In the coupling links in double-decker design, the connections are arranged on two levels; the units are extremely compact. Connection method: screw or spring-type terminals. For test purposes, versions are available with manual-0-automatic switches.

The input and output coupling links differ with regard to the positioning of the terminals and the LEDs. For equipment identification purposes, each coupling link has a blank labeling plate.

In accordance with the technical specifications of electronic systems, the coupling links have a lower power consumption.

Selection and ordering data

AC and DC operation · for snap-on mounting onto TH 35 standard mounting rail

Rated control supply voltage U_s at AC 50/60 Hz	Contacts Version		Width	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
V	NO	CO	mm							kg
3TX7 002 relay coupling links with screw terminals										
Output coupling links					Screw terminals 					
 3TX7 002-1....	24 AC/DC	1	--	11,5	▶	3TX7 002-1AB00	1	1 unit	101	0,035
	24 AC/DC	1 ¹⁾	--	11,5	▶	3TX7 002-1AB02	1	1 unit	101	0,035
	24 AC/DC	--	1	17,5	▶	3TX7 002-1BB00	1	1 unit	101	0,045
	230 AC/DC	--	1	17,5	▶	3TX7 002-1BF00	1	1 unit	101	0,045
	24 AC/DC	2 ²⁾	--	22,5	▶	3TX7 002-1CB00	1	1 unit	101	0,061
	24 AC/DC	--	2 ^{1) 2)}	22,5	▶	3TX7 002-1FB02	1	1 unit	101	0,061
 3TX7 002-2....	Input coupling links									
	24 AC/DC	1	--	11,5	▶	3TX7 002-2AB00	1	1 unit	101	0,035
	110 AC/DC	1	--	11,5	▶	3TX7 002-2AE00	1	1 unit	101	0,035
	230 AC/DC ²⁾	1	--	11,5	▶	3TX7 002-2AF00	1	1 unit	101	0,035
	230 AC/DC ²⁾	1	--	11,5	▶	3TX7 002-2AF05	1	1 unit	101	0,035
	230 AC/DC	--	1 ^{1) 3)}	17,5	▶	3TX7 002-2BF02	1	1 unit	101	0,045
3TX7 003 relay coupling links with spring-type terminals										
Output coupling links					Spring-type terminals 					
 3TX7 003	24 AC/DC	1	--	11,5	▶	3TX7 003-1AB00	1	1 unit	101	0,035
	24 AC/DC	--	1	17,5	▶	3TX7 003-1BB00	1	1 unit	101	0,045
	24 AC/DC	2 ²⁾	--	22,5	▶	3TX7 003-1CB00	1	1 unit	101	0,055
	Input coupling links									
	230 AC/DC	1	--	11,5	A	3TX7 003-2AF00	1	1 unit	101	0,035

Note:

For coil voltages which are not listed, see SITOP power DC Power Supplies, e. g. 6EP1 331-2BA10 and 6EP1 731-2BA00, in "Power Supplies".

1) Hard gold-plated contacts.





2) The same potential must be applied to the output contacts of the 2 NO/2 CO relays.

3) Observe max. permissible cable length, (see Technical specifications, page 3/1).

3TX7, 3RS18 Coupling Relays

3TX7 Coupling Relays, Narrow Design

Relay couplers

Rated control supply voltage U_s at AC 50/60 Hz	Contacts Version		Manual-0-automatic switch for testing purposes	Width	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	V	NO									
3TX7 004 relay couplers with screw terminals											
Output coupling links						Screw terminals 					
 3TX7 004-1LB0	24 AC/DC	--	1	Without	6,2	▶	3TX7 004-1LB00	1	1 unit	101	0,035
	24 AC/DC	--	1 ²⁾	Without	6,2	▶	3TX7 004-1LB02	1	1 unit	101	0,035
	24 AC/DC	--	1	with	12,5	▶	3TX7 004-1BB10	1	1 unit	101	0,052
	230 AC/DC	--	1	Without	6,2	▶	3TX7 004-1LF00	1	1 unit	101	0,035
	230 AC/DC	--	1	Without	12,5 ¹⁾	▶	3TX7 004-1BF05	1	1 unit	101	0,051
	24 AC/DC	1	--	Without	6,2	▶	3TX7 004-1MB00	1	1 unit	101	0,035
	230 AC/DC	1	--	Without	6,2	▶	3TX7 004-1MF00	1	1 unit	101	0,035
Input coupling links											
	24 AC/DC	1 ²⁾	--	Without	6,2	▶	3TX7 004-2MB02	1	1 unit	101	0,035
	110 AC/DC	1 ²⁾	--	Without	6,2	▶	3TX7 004-2ME02	1	1 unit	101	0,035
	230 AC/DC	1 ²⁾	--	Without	6,2	▶	3TX7 004-2MF02	1	1 unit	101	0,035
3TX7 005 relay couplers with spring-type terminals											
Output coupling links						Spring-type terminals 					
 3TX7 005-2MB02	24 AC/DC	--	1	Without	6,2	▶	3TX7 005-1LB00	1	1 unit	101	0,035
	24 AC/DC	--	1 ²⁾	Without	6,2	▶	3TX7 005-1LB02	1	1 unit	101	0,035
	24 AC/DC ³⁾	--	1	Without	6,2	B	3TX7 005-1LN00	1	1 unit	101	0,035
	230 AC/DC	--	1	Without	6,2	▶	3TX7 005-1LF00	1	1 unit	101	0,035
	24 AC/DC	1	--	Without	6,2	▶	3TX7 005-1MB00	1	1 unit	101	0,035
	230 AC/DC	1	--	Without	6,2	▶	3TX7 005-1MF00	1	1 unit	101	0,035
Input coupling links											
	24 AC/DC	1 ²⁾	--	Without	6,2	C	3TX7 005-2MB02	1	1 unit	101	0,035
	230 AC/DC	1 ²⁾	--	Without	6,2	B	3TX7 005-2MF02	1	1 unit	101	0,035

Note:

For replacement products, see 3RS18 coupling links with industrial housing or other 3TX7 0 products.

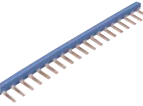

For coil voltages which are not listed, see SITOP power DC Power Supplies, e. g. 6EP1 331-2BA10 and 6EP1 731-2BA00, in "Power Supplies".

1) For long cables.

2) Hard gold-plated contacts.

3) Extended operating range 0.7 ... 1.25 x U_s .

Accessories

For coupling links	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type								kg
Connecting comb, blue								
 3TX7 004-8AA00	3TX7 004	For linking the same potentials 24 terminals, current carrying capacity for infeed max. 26 A Width 6,2 mm	▶	3TX7 004-8AA00	1	1 unit	101	0,017
Connecting cable, blue								
 3TX7 004-8BA00	3TX7 002 and 3TX7 004 with screw terminals 3TX7 003 and 3TX7 005 with spring-type terminals	with infeed, blue 24 terminals, current carrying capacity for infeed max. 12 A length of cable between 2 terminals approx. 11 cm in each case	A	3TX7 004-8BA00	1	1 unit	101	0,040

3TX7, 3RS18 Coupling Relays

3TX7 Coupling Relays, Narrow Design

Relay couplers with plug-in connection





Benefits

Advantages

- Plug-in base couplers with spring-type terminals and 6.2 mm width
- Fast exchange with permanent wiring (plug-in relay)
- The wire inlet and terminals can be reached from the front. This results in faster wiring time and wiring errors are prevented.
- Tested complete units → short mounting time
- Single relays available as components
- Linking of control supply voltage and control signals with 16-pole connecting comb

- Galvanic isolation plate for isolating different voltages for neighboring units
- Device variants with hard gold-plated contacts, hence high contact reliability
- 24 V DC version also available as variant with NO contact
- Integrated reverse polarity protection and EMC arc-suppression diode
- Clearly visible functional state of the relay coupler by yellow LED
- Protective separation according to EN 50178
- 230 V AC/DC versions available

Selection and ordering data

Rated control supply voltage U_s at AC 50/60 Hz	Contacts Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
V	 NO  CO							kg
Plug-in base couplers, 6.2 mm, complete with relay								
			Screw terminals 					
24 DC	1	--	A	3TX7 014-1AM00	1	5 units	101	0,035
24 DC	--	1	A	3TX7 014-1BM00	1	5 units	101	0,035
24 AC/DC	--	1	A	3TX7 014-1BB00	1	5 units	101	0,035
115 AC/DC	--	1	A	3TX7 014-1BE00	1	5 units	101	0,045
230 AC/DC	--	1	A	3TX7 014-1BF00	1	5 units	101	0,041
Plug-in base couplers, 6.2 mm, complete with relay and hard gold-plating¹⁾								
24 DC	--	1	A	3TX7 014-1BM02	1	5 units	101	0,035
24 AC/DC	--	1	A	3TX7 014-1BB02	1	5 units	101	0,035
115 AC/DC	--	1	A	3TX7 014-1BE02	1	5 units	101	0,041
230 AC/DC	--	1	A	3TX7 014-1BF02	1	5 units	101	0,035
Plug-in base couplers, 6.2 mm, complete with relay								
			Spring-type terminals 					
24 DC	1	--	A	3TX7 015-1AM00	1	5 units	101	0,045
24 DC	--	1	A	3TX7 015-1BM00	1	5 units	101	0,045
24 AC/DC	--	1	A	3TX7 015-1BB00	1	5 units	101	0,045
115 AC/DC	--	1	A	3TX7 015-1BE00	1	5 units	101	0,045
230 AC/DC	--	1	A	3TX7 015-1BF00	1	5 units	101	0,045
Plug-in base couplers, 6.2 mm, complete with relay and hard gold-plating¹⁾								
24 DC	--	1	A	3TX7 015-1BM02	1	5 units	101	0,045
24 AC/DC	--	1	A	3TX7 015-1BB02	1	5 units	101	0,040
115 AC/DC	--	1	A	3TX7 015-1BE02	1	5 units	101	0,045
230 AC/DC	--	1	A	3TX7 015-1BF02	1	5 units	101	0,045

¹⁾ The versions with hard gold-plated contacts feature high contact reliability (also for low currents) and are therefore especially suitable for steady-state inputs of programmable logic controllers.

3TX7, 3RS18 Coupling Relays

3TX7 Coupling Relays, Narrow Design

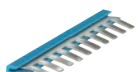
Relay couplers with plug-in connection

For coupling links	Rated control supply voltage U_s AC 50/60 Hz V	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
--------------------	--	---------	----	-----------	--------------	-------------------	-----	----	-----------------------------

Replacement relay modules¹⁾, 6.2 mm, 1 changeover contact


		For complete unit							
3TX7 014	12 DC	• 24 V AC/DC	A	3TX7 014-7BQ00		1	20 units	101	0,035
		• 24 V DC, hard gold-plating	A	3TX7 014-7BQ02		1	20 units	101	0,035
3TX7 014	24 DC	• 24 V DC	A	3TX7 014-7BM00		1	20 units	101	0,035
		• 24 V DC, hard gold-plating	A	3TX7 014-7BM02		1	20 units	101	0,035
3TX7 014	60 DC	• 115 V or 230 V AC/DC	A	3TX7 014-7BP00		1	20 units	101	0,035
		• 115 V or 230 V AC/DC, hard gold-plated	A	3TX7 014-7BP02		1	20 units	101	0,035

Connecting comb, blue

	3TX7 014	--	For linking the same potentials 16 terminals, current carrying capacity for infeed max. 6 A	A	3TX7 014-7AA00	1	5 units	101	0,035
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3TX7 014-7AA00


Galvanic isolation plates


	3TX7 014 and 3TX7 015	--	--	A	3TX7 014-7CE00	1	10 units	101	0,035
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3TX7 014-7CE00

¹⁾ The versions with hard gold-plated contacts feature high contact reliability (also for low currents) and are therefore especially suitable for steady-state inputs of programmable logic controllers.

3TX7 014-...	3TX7 015-...	(+)A1/(-)A2	NO (13/14) CO (11/12/14)	3TX7 014-...	FTR-LY..	APE..	V23092-..
...1AM00 ¹⁾	24 V DC	NO	NO (13/14)	...7BM00 ¹⁾	..CA024Y	..30024	..A1024-A301
...1BM00 ¹⁾	24 V DC	CO	CO (11/12/14)	...7BM00 ¹⁾	..CA024Y	..30024	..A1024-A301
...1BB00 ¹⁾	24 V AC/DC	CO	CO (11/12/14)	...7BQ00 ¹⁾	..CA012Y	..30012	..A1012-A301
...1BE00 ¹⁾	115 V AC/DC	CO	CO (11/12/14)	...7BP00 ¹⁾	--	..30060	..A1060-A301
...1BF00 ¹⁾	230 V AC/DC	CO	CO (11/12/14)	...7BP00 ¹⁾	--	..30060	..A1060-A301
...1BM02 ²⁾	24 V DC	CO	CO (11/12/14)	...7BM02 ²⁾	..CA024V	..30124	..A1024-A201
...1BB02 ²⁾	24 V AC/DC	CO	CO (11/12/14)	...7BQ02 ²⁾	..CA012V	..30112	..A1012-A201
...1BE02 ²⁾	115 V AC/DC	CO	CO (11/12/14)	...7BP02 ²⁾	--	..30160	..A1060-A201
...1BF02 ²⁾	230 V AC/DC	CO	CO (11/12/14)	...7BP02 ²⁾	--	..30160	..A1060-A201

¹⁾  = AgSn0

²⁾  = AgSn0+Au

3TX7, 3RS18 Coupling Relays

3TX7 Coupling Relays, Narrow Design

Semiconductor couplers

Overview

AC and DC operation

EN 60664-1, EN 60947 and EN 50005;
optocouplers: EN 60747-5, IEC 61131-2 (programmable controllers).


In the coupling links in double-decker design, the connections are arranged on two levels; the units are extremely compact. Connection method: screw or spring-type terminals. For test purposes, versions are available with manual-0-automatic switches.

The input and output coupling links differ with regard to the positioning of the terminals and the LEDs. For equipment identification purposes, each coupling link has a blank labeling plate.

In accordance with the technical specifications of electronic systems, the coupling links have a lower power consumption.

Selection and ordering data

AC and DC operation - for snap-on mounting onto TH 35 standard mounting rail

Rated control supply voltage U_s at AC 50/60 Hz	Switching voltage	Switching current	Width	DT	Screw terminals 	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
V	V	A	mm		Order No.	Price per PU			kg

3TX7 002 semiconductor couplers with screw terminals, 1 transistor

Output coupling links

24 DC	48 ... 264 AC	1,8	12,5	▶	3TX7 002-3AB00	1	1 unit	101	0,033
	< 60 DC	1,5	11,5	▶	3TX7 002-3AB01	1	1 unit	101	0,035

Input coupling links

24 AC/DC	< 30 DC	0,1	12,5	▶	3TX7 002-4AB00	1	1 unit	101	0,031
110 ... 240 AC	< 30 DC	0,1	12,5	▶	3TX7 002-4AG00	1	1 unit	101	0,035




3TX7 002

Rated control supply voltage U_s at AC 50/60 Hz	Switching voltage	Switching current	Manual-0-automatic switch for testing purposes	Width	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
V	V	A		mm							kg

3TX7 004 semiconductor couplers with screw terminals

Output coupling links

						Screw terminals 					
24 DC	≤ 48 DC	0,5	Without	6,2	▶	3TX7 004-3AB04	1	1 unit	101	0,034	
24 DC	11 ... 30 DC	1,5	Without	6,2	▶	3TX7 004-3PB54	1	1 unit	101	0,029	
24 DC	≤ 30 DC	3	Without	6,2	▶	3TX7 004-3PB74	1	1 unit	101	0,032	
110 ... 230 AC/DC	≤ 30 DC	3	Without	6,2	A	3TX7 004-3PG74	1	1 unit	101	0,033	
24 DC	≤ 30 DC	5	Without	12,5	▶	3TX7 004-3AC04	1	1 unit	101	0,052	
24 DC	≤ 30 DC	5	With	12,5	B	3TX7 004-3AC14	1	1 unit	101	0,061	
24 DC	24 ... 250 AC	2	Without	12,5	▶	3TX7 004-3AC03	1	1 unit	101	0,060	

Input coupling links


110 ... 230 AC/DC	≤ 30 DC	0,1	Without	6,2	▶	3TX7 004-4PG24	1	1 unit	101	0,034
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3TX7 004-3AB04

3TX7 005 semiconductor couplers with spring-type terminals

Output coupling links

						Spring-type terminals 					
24 DC	≤ 48 DC	0,5	Without	6,2	▶	3TX7 005-3AB04	1	1 unit	101	0,031	
24 DC	11 ... 30 DC	1,5	Without	6,2	▶	3TX7 005-3PB54	1	1 unit	101	0,025	
24 DC	≤ 30 DC	3	Without	6,2	A	3TX7 005-3PB74	1	1 unit	101	0,027	
110 ... 230 AC/DC			Without	6,2	A	3TX7 005-3PG74	1	1 unit	101	0,027	
24 DC	≤ 30 DC	5	Without	12,5	▶	3TX7 005-3AC04	1	1 unit	101	0,047	
24 DC			With	12,5	C	3TX7 005-3AC14	1	1 unit	101	0,051	
24 DC	24 ... 250 AC	2	Without	12,5	C	3TX7 005-3AC03	1	1 unit	101	0,056	

Input coupling links

110 ... 230 AC/DC	≤ 30 DC	0,1	Without	6,2	▶	3TX7 005-4PG24	1	1 unit	101	0,031
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Note:

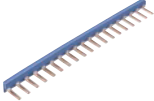

For replacement products, see 3RS18 coupling links with industrial housing or other 3TX7 0 products. For coil voltages which are not listed, see SITOP power DC Power Supplies, e. g. 6EP1 331-2BA10 and 6EP1 731-2BA00, in "Power Supplies".

3TX7, 3RS18 Coupling Relays

3TX7 Coupling Relays, Narrow Design

Semiconductor couplers

Accessories

For coupling links	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Type								
Connecting comb, blue								
	3TX7 004		For linking the same potentials ▶	3TX7 004-8AA00	1	1 unit	101	0,017
3TX7 004-8AA00			24 terminals, current carrying capacity for infeed max. 26 A Width 6,2 mm					
Connecting cable, blue								
	3TX7 002 and 3TX7 004 with screw terminals 3TX7 003 and 3TX7 005 with spring-type terminals	With infeed, blue	A	3TX7 004-8BA00	1	1 unit	101	0,040
3TX7 004-8BA00		24 terminals, current carrying capacity for infeed max. 12 A length of cable between 2 terminals approx. 11 cm in each case						

3

* You can order this quantity or a multiple thereof.

3TX7, 3RS18 Coupling Relays

3RS18 Coupling Relays with Industrial Housing

Relay couplers

Overview




The new 3RS18 coupling relays are couplers in the well-proven standard 22.5 mm timing relay enclosure. The series comprises relays with 1, 2 and 3 changeover contacts with screw and spring-type connections for combined voltages and wide voltage ranges.

The relay coils are protected internally with noise suppression diodes.

Benefits

- Wide voltage range: One product for all voltages
- The industrial housing supports the same connection methods as the timing relay including spring-type connections, 2 wires can be clamped
- Versions with solid-state compatible outputs (hard gold-plating)
- Up to 3 changeover contacts with only 22.5 mm width.

Selection and ordering data

Rated control supply voltage U_s at AC 50/60 Hz	Contacts Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
V	CO							kg
Coupling relays with industrial housing with screw terminals, 22.5 mm								
Wide voltage range			Screw terminals 					
 3RS18 00-1....	24 ... 240 AC/DC	2	A	3RS18 00-1BW00	1	1 unit	101	0,143
		3	A	3RS18 00-1HW00	1	1 unit	101	0,168
		3 ¹⁾	A	3RS18 00-1HW01	1	1 unit	101	0,168
Combination voltage								
24 AC/DC and 110 ... 120 AC	1	A	3RS18 00-1AQ00	1	1 unit	101	0,116	
	2	A	3RS18 00-1BQ00	1	1 unit	101	0,142	
	3	C	3RS18 00-1HQ00	1	1 unit	101	0,173	
	3 ¹⁾	C	3RS18 00-1HQ01	1	1 unit	101	0,173	
24 AC/DC and 220 ... 240 AC	1	A	3RS18 00-1AP00	1	1 unit	101	0,112	
	2	A	3RS18 00-1BP00	1	1 unit	101	0,142	
	3	A	3RS18 00-1HP00	1	1 unit	101	0,166	
	3 ¹⁾	A	3RS18 00-1HP01	1	1 unit	101	0,170	
Coupling relays with industrial housing with spring-type terminals, 22.5 mm								
Wide voltage range			Spring-type terminals 					
24 ... 240 AC/DC	2	A	3RS18 00-2BW00	1	1 unit	101	0,128	
	3	A	3RS18 00-2HW00	1	1 unit	101	0,144	
	3 ¹⁾	C	3RS18 00-2HW01	1	1 unit	101	0,145	
Combination voltage								
24 AC/DC and 110 ... 120 AC	1	C	3RS18 00-2AQ00	1	1 unit	101	0,104	
	2	C	3RS18 00-2BQ00	1	1 unit	101	0,120	
	3	C	3RS18 00-2HQ00	1	1 unit	101	0,147	
	3 ¹⁾	C	3RS18 00-2HQ01	1	1 unit	101	0,147	
24 AC/DC and 220 ... 240 AC	1	A	3RS18 00-2AP00	1	1 unit	101	0,104	
	2	A	3RS18 00-2BP00	1	1 unit	101	0,122	
	3	A	3RS18 00-2HP00	1	1 unit	101	0,143	
	3 ¹⁾	C	3RS18 00-2HP01	1	1 unit	101	0,147	

¹⁾ Hard gold-plated contacts.