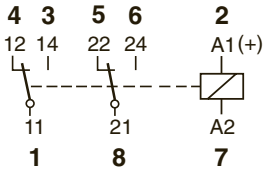
RELECO by TURCK



C2-A20

CE

General purpose
Two pole, change-over contacts

10 A 250 V AC1 0.5 A 110 V DC1
10 A 30 V DC1 0.2 A 220 V DC1

Contacts

Materials: Standard, code 0	AgNi
Optional, code 8	AgNi + 10µ Au
Max. switching current	10 A
Max. peak inrush current (20 ms)	30 A
Max. switching voltage	250 V
Max. AC load (Table 1)	2.5 KVA
Max. DC load	See Table 2

Coils (Ohms ±10% @ 20ºC)

Pull-in voltage	≤0.8 x **Un**
Drop-out voltage	≥0.1 x **Un**
Nominal coil power	2.2 VA (AC) / 1.3 W (DC)

VAC	Ω	mA	VDC	Ω	mA
24	67	92	24	433	54
48	296	46	48	1K8	27
115	1K7	19	110	9K2	12
230	7K1	9.5	220	36K1	6

Insulation

Dielectric strength (1 minute): Open contacts	1000 V
Between adjacent poles	2.5 KV
Between contacts and coil	2.5 KV
Isolation resistance at 500 V	≥3 GΩ
Isolation, IEC 61810-5:	2.5 KV

Specifications

Operate time + bounce time	16 ms
Release time + bounce time	8 ms
Ambient temperature	-40ºC (no ice) to +70ºC
Mechanical life ops.	10 Mill. AC, 20 Mill. DC relays
Electrical life at nominal load	≥100,000 ops.
Operating frequency at nominal load	1200 / hour
Protection degree	IP 40 / RT1
Weight avg.	90 g

Standard Types

AC 50 Hz, (60 Hz): **24, 48, 115,** (120)**, 230**, (240)

X = **LED** (standard)	**C2-A20X ..... VAC**
RC suppressor	**C2-A20R ..... VAC**
DC 24, 48, 110, 220	
X = **LED**, no polarity (standard)	**C2-A20X.....VDC**
Free-wheeling diode	**C2-A20DX.....VDC**
Polarity and free-wheeling diodes	**C2-A20FX.....VDC**
AC/DC bridge rectifier (24 or 48 V)	**C2-A20BX.....VDC**

Table 1 Electrical Life, ops. x 10^6

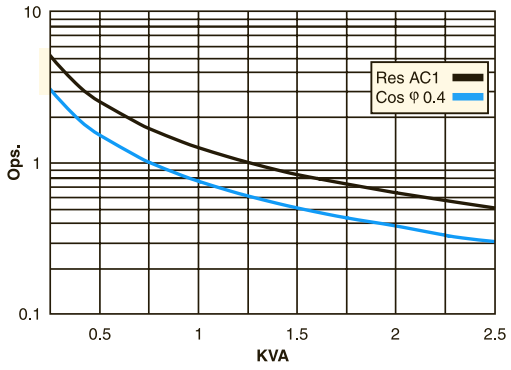
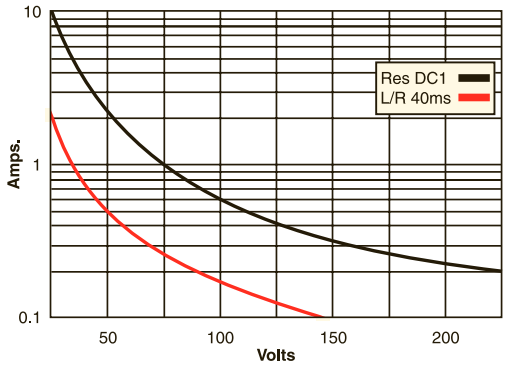
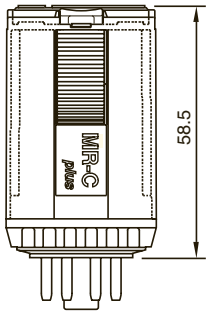
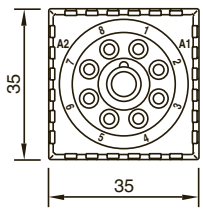


Table 2 Max. DC Load



Dimensions - mm





Lloyd´s IEC 61810 EN 60947

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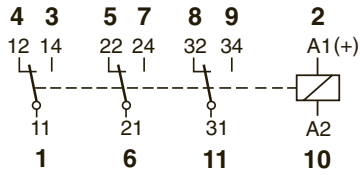


C3-A30

General purpose
Three pole, change-over contacts

10 A 250 V AC1 0.5 A 110 V DC1
10 A 30 V DC1 0.5 A 220 V DC1

Contacts

Materials : Standard, code 0	AgNi
Optional, code 8	AgNi + 10µ Au
Max. switching current	10 A
Max. peak inrush current (20 ms)	30 A
Max. switching voltage	250 V
Max. AC load (Table 1)	2.5 KVA
Max. DC load	See Table 2

Coils (Ohms ±10% @ 20ºC)

Pull-in voltage	≤0.8 x **Un**
Drop-out voltage	≥0.1 x **Un**
Nominal coil power	2.2 VA (AC) / 1.3 W (DC)

VAC	Ω	mA	VDC	Ω	mA
24	67	92	24	443	54
48	296	46	48	1K8	27
115	1K7	19	110	9K2	12
230	7K1	9.5	220	36K1	6

Insulation

Dielectric strength (1 minute): Open contacts	1000 V
Between adjacent poles	2.5 KV
Between contacts and coil	2.5 KV
Isolation resistance at 500 V	≥3 GΩ
Isolation, IEC 61810-5:	2.5 KV / 3

Specifications

Operate time + bounce time	16 ms
Release time + bounce time	8 ms
Ambient temperature	-40ºC (no ice) to +70ºC
Mechanical life ops.	10 Mill. AC, 20 Mill. DC relays
Electrical life at nominal load	≥100,000 ops.
Operating frequency at nominal load	1200 / hour
Protection degree	IP 40 / RT1
Weight avg.	95 g

Standard Types

AC 50 Hz, (60 Hz)**: 24, 48, 115,** (120)**, 230,** (240)

X = **LED** (standard)	**C3-A30X ..... VAC**
RC suppressor	**C3-A30R ..... VAC**

DC 24, 48, 110, 220

X = LED, no polarity (standard)	**C3-A30X ..... VDC**
Free-wheeling diode	**C3-A30DX ..... VDC**
Polarity and free-wheeling diodes	**C3-A30DX ..... VDC**
AC/DC bridge rectifier (24 or 48 V)	**C3-A30BX ..... VDC**

Table 1 Electrical Life, ops. x 10^6

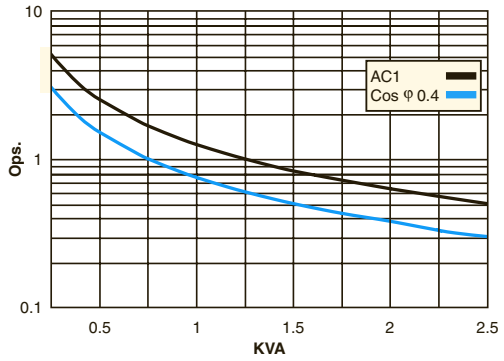
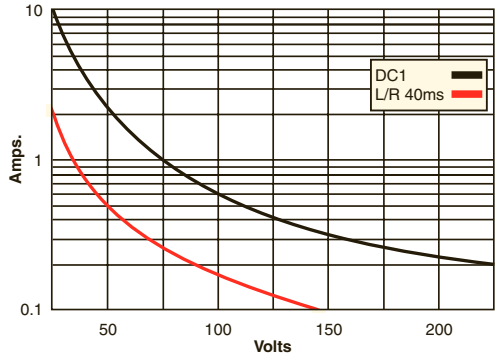
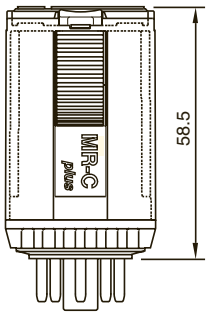
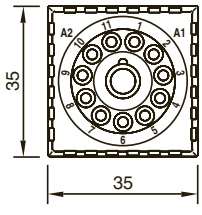


Table 2 Max. DC Load



Dimensions - mm





Lloyd´s IEC 61810 EN 60947

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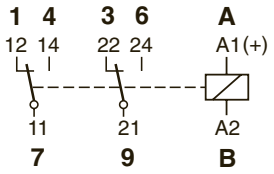


C5-A20

General purpose
Two change-over contacts

16 A 400 V AC1 0.5 A 110 V DC1
16 A 30 V DC1 0.2 A 220 V DC1

Contacts

Materials: Standard, code 0	AgNi
Max. switching current	16 A
Max. peak inrush current (20 ms)	40 A
Max. switching voltage	400 V
Max. AC load (Table 1)	4 KVA
Max. DC load	See Table 2

Coils (Ohms ±10% @ 20ºC)

Pull-in voltage	≤0.8 x **Un**
Drop-out voltage	≥0.1 x **Un**
Nominal coil power	2.4 VA (AC) / 1.4 W (DC)

VAC	Ω	mA	VDC	Ω	mA
24	65	100	24	414	58
48	286	50	48	1K6	30
115	1K7	21	110	8K1	13
400	18K8	6	220	34K5	6

Insulation

Dielectric strength (1 minute): Open contacts	1000 V
Between adjacent poles	4 KV
Between contacts and coil	4 KV
Isolation resistance at 500 V	≥3 GΩ
Isolation, IEC 61810-5:	4 KV / 3

Specifications

Operate time + bounce time	20 ms
Release time + bounce time	10 ms
Ambient temperature	-40ºC (no ice) to +70ºC
Mechanical life ops.	10 Mill. AC, 20 Mill. DC relays
Electrical life at nominal load	≥100,000 ops.
Operating frequency at nominal load	1200 / hour
Protection degree	IP 40 / RT1
Weight avg.	90 g

Standard Types

AC 50 Hz, (60 Hz): 24, 48, 115, (120)**, 230,** (240)**, 400**

X = **LED** (standard)	**C5-A20X ..... VAC**
RC suppressor	**C5-A20R ..... VAC**

DC 24, 48, 110, 220

X = LED, no polarity (standard)	**C5-A20X .....VDC**
Free-wheleing diode	**C3-A20DX ....VDC**
Polarity and free-wheeling diodes	**C5-A20FX ....VDC**
AC/DC bridge rectifier (24 or 48 V)	**C5-A20BX ....VDC**

IEC 61810 EN 60947

Table 1 Electrical Life, ops. x 10^6

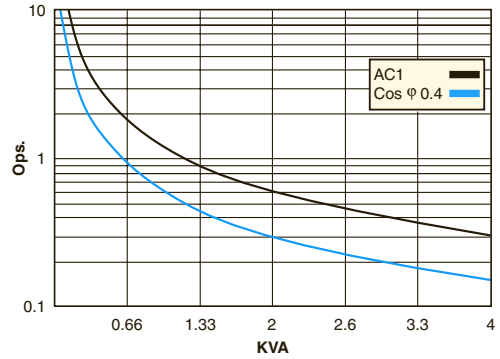
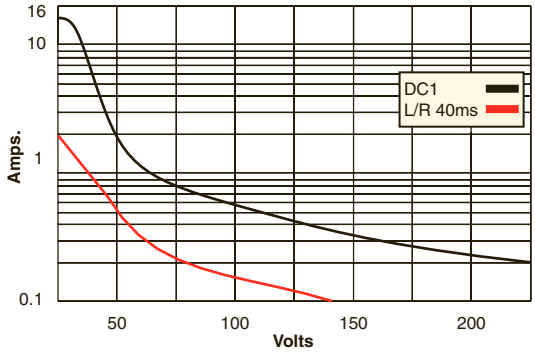
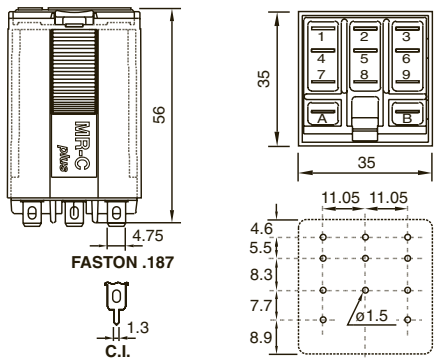


Table 2 Max. DC Load



Dimensions - mm



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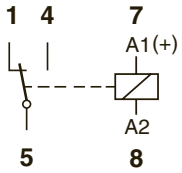


C7-A10

CE

General purpose

One change-over contact, 16 A

16 A 250 V AC1 **0.5 A 110 V DC1**

16 A 30 V DC1 **0.2 A 220 V DC1**

Contacts

Materials: Standard, code 0	AgNi
Max. switching current	16 A
Max. peak inrush current (20 ms)	40 A
Max. switching voltage	250 V
Max. AC load (Table 1)	4 KVA
Max. DC load	See table 2

Plug only in S7-16 socket

Coils (Ohms ±10% @ 20ºC)

Pull-in voltage	≤0.8 x **Un**
Drop-out voltage	≥0.1 x **Un**
Nominal coil power	1.2 VA (AC) / 1.3 W (DC)

VAC	Ω	mA	VDC	Ω	mA
24	174	50	12	111	108
48	686	25	24	432	55
115	4K3	10.4	48	1K7	28
230	18K6	5.2	110	9K2	12

Insulation

Dielectric strength (1 minute): Open contacts	1000 V
Between contacts and coil	2.5 KV
Isolation resistance at 500 V	≥3 GΩ
Isolation, IEC 61810-5:	2.5 KV / 3

Specifications

Operate time + bounce time	16 ms
Release time + bounce time	8 ms
Ambient temperature	-40ºC (no ice) to +70ºC
Mechanical life ops.	10 Mill. AC, 20 Mill. DC relays
Electrical life at nominal load	≥100,000 ops.
Operating frequency at nominal load	1200 / hour
Protection degree	IP 40 / RT1
Weight avg.	43 g

Standard Types

AC 50 Hz, (60 Hz): **24, 48, 115,** (120)**, 230,** (240)

X = **LED** (standard) **C7-A10X ..... VAC**

DC 12, 24, 48, 110,

X = LED, no polarity (standard) **C7-A10X ..... VDC**

Free-wheeling diode **C7-A10DX ..... VDC**

Polarity and free-wheeling diodes **C7-A10FX ..... VDC**

AC/DC bridge rectifier (24 or 48 V) **C7-A10BX ..... VDC**

IEC 61810 EN 60947

Table 1 Electrical Life, ops. x 10^6

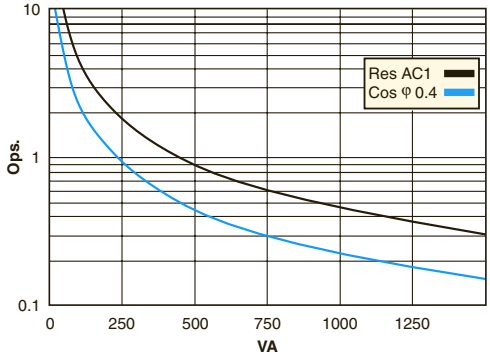
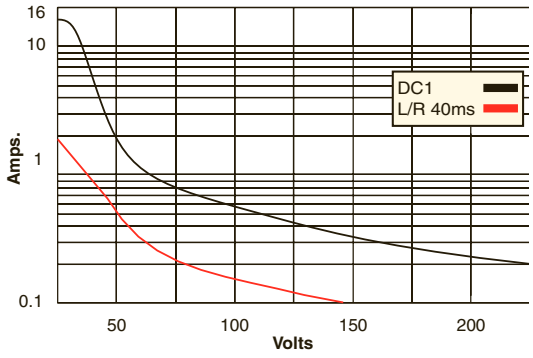
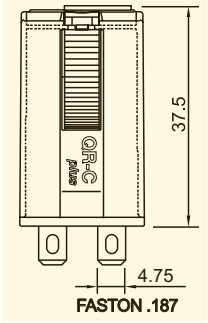
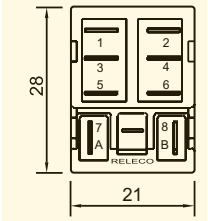


Table 2 Max. DC Load



Dimensions - mm





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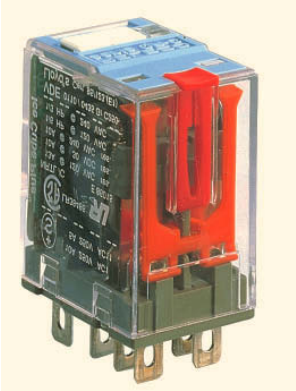


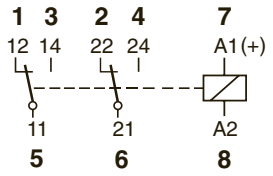


Table 1 Electrical Life, ops. x 10^6

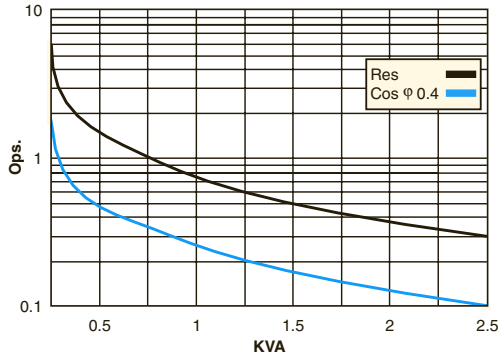
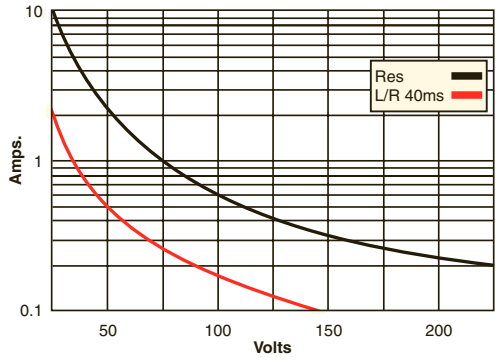
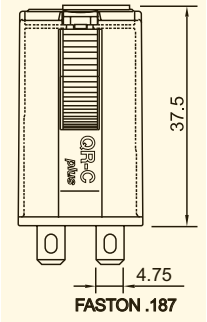
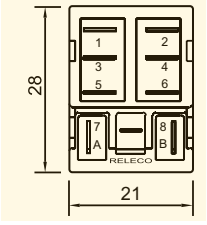


Table 2 Max. DC Load



Dimensions - mm





C7-A20

CE

General purpose
Two pole, change-over contacts

10 A 250 V AC1 0.5 A 110 V DC1
10 A 30 V DC1 0.2 A 220 V DC1

Contacts

Materials:	Standard, code 0	AgNi
	Optional, code 8	AgNi + 10µ Au
Max. switching current		10 A
Max. peak inrush current (20 ms)		30 A
Max. switching voltage		250 V
Max. AC load (Table 1)		2.5 KVA
Max. DC load		See Table 2

Coils (Ohms ±10% @ 20ºC)

Pull-in voltage	≤0.8 x **Un**
Drop-out voltage	≥0.1 x **Un**
Nominal coil power	1.2 VA (AC) / 1 W (DC)

VAC	Ω	mA	VDC	Ω	mA
24	174	50	12	148	85
48	686	25	24	594	43
115	4K3	10.4	48	2K3	21
230	18K6	5.2	110	11K4	11

Insulation

Dielectric strength (1 minute): Open contacts	1000 V
Between adjacent poles	2.5 KV
Between contacts and coil	2.5 KV
Isolation resistance at 500 V	≥3 GΩ
Isolation, IEC 61810-5:	2.5 KV / 3

Specifications

Operate time + bounce time	16 ms
Release time + bounce time	8 ms
Ambient temperature	-40ºC (no ice) to +70ºC
Mechanical life ops.	10 Mill. AC, 20 Mill. DC relays
Electrical life at nominal load	≥100,000 ops.
Operating frequency at nominal load	1200 / hour
Protection degree	IP 40 / RT1
Weight avg.	43 g

Standard Types

AC 50 Hz, (60 Hz): **24, 48, 115,** (120)**, 230,** (240)

X = LED (standard)	**C7-A2OX ..... VAC**

DC 12, 24, 48, 110,

X = LED, no polarity (standard)	**C7-A2OX ..... VDC**
Free-wheeling diode	**C7-A2ODX ..... VDC**
Polarity and free-wheeling diodes	**C7-A2OFX ..... VDC**
AC/DC bridge rectifier (24 or 48 V)	**C7-A2OBX ..... VDC**

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S2-B

Two pole, one level, coding ring
Integrated clip and marking label

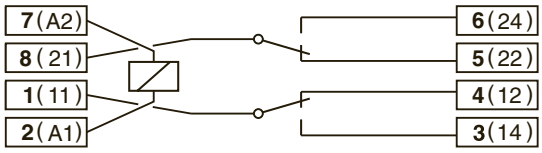
10 A / 300 V

Socket for MRC, 8-Pin Plug-In Relay Types C2-A20, C2-G20, C2-T21

- Accepts the exclusive RELECO coding ring for coding both relay and socket.
- DIN rail or panel mountable
- Removable label
- EN/DIN and sequencial numbering

According to EN 60947 and IEC 61810

Wiring Diagram

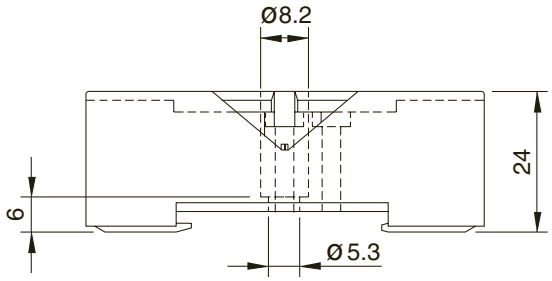


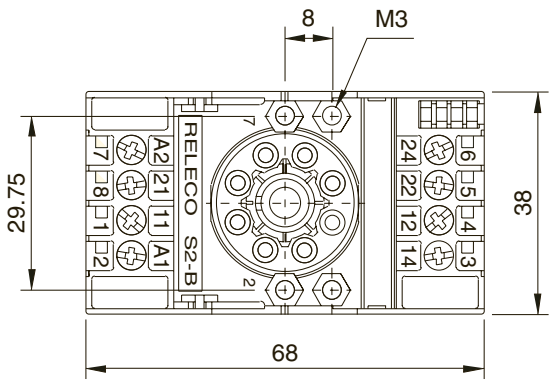
Specifications

Nominal Load:	10 A / 250 V
Insulation:	
Dielectric strength, 1 minute	
Between contacts and coil	2.5 KV
Between all terminals and rail DIN	2.5 KV
Between adjacent poles	2.5 KV
Wire In-Lets Capacity:	
Solid wire	4 mm^2 or 2 x 2.25 mm^2
Multi - core	
22 - 14 AWG	
Ferrule tip terminals	4 mm^2
Max. screw torque	1.2 Nm
Screw dimensions	M3, Pozi
Integrated hold-down clip	
Removable marking label	

Lloyd´s

Dimensions - mm





RELECO by TURCK

S3-B

Three pole, one level, coding ring
Integrated clip and marking label

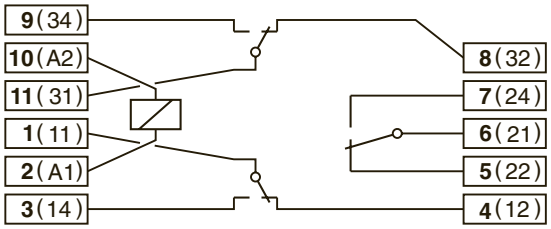
10 A / 250 V

Socket for MRC, 11-Pin Plug-In Relays Types C3-A30, C3-G30, C3-T31, C3-X10, C3-M10, C3-R20, C3-E24, C3-N34

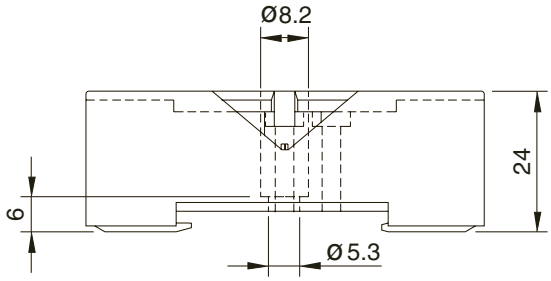
- Accepts the exclusive RELECO coding ring for coding both relay and socket.
- DIN rail or panel mountable
- Removable label
- EN/DIN and sequencial numbering

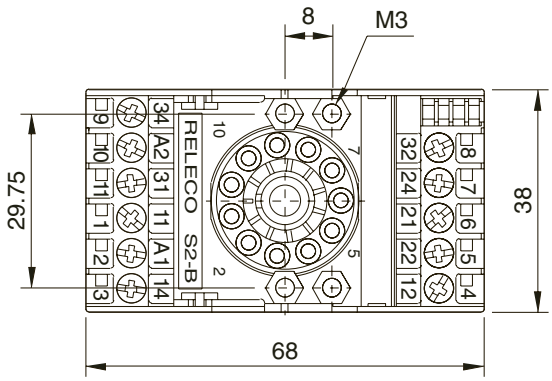
According to EN 60947 and IEC 61810

Wiring Diagram



Dimensions - mm



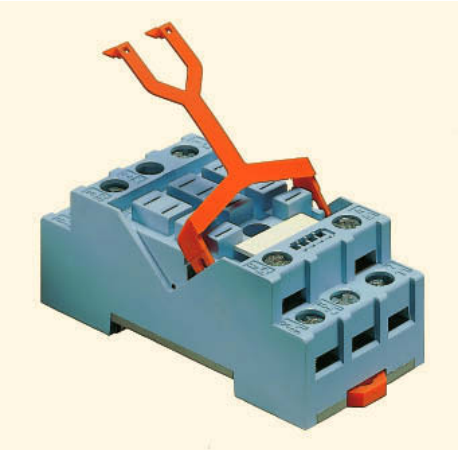


Specifications

Nominal Load:	10 A / 250 V
Insulation:	
Dielectric strength, 1 minute	
Between contacts and coil	2.5 KV
Between all terminals and rail DIN	2.5 KV
Between adjacent poles	2.5 KV
Wire In-Lets Capacity:	
Solid wire	4 mm^2 or 2 x 2.25 mm^2
Multi - core	
22 - 14 AWG	
Ferrule tip terminals	4 mm^2
Max. screw torque	1.2 Nm
Screw dimensions	M3, Pozi
Integrated hold-down clip	
Removable marking label	

Lloyd´s S FI N D

RELECO by TURCK



S5-S

Three pole, two level, logic wiring
Integrated clip and marking label

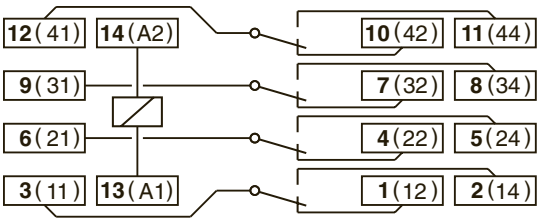
16 A / 400 V

Socket for MRC, 11-Pin Plug-In Relay Types C5-A20, C5-A30, C5-G30, C5-X10, C5-M10, C5-M20, C5-R20

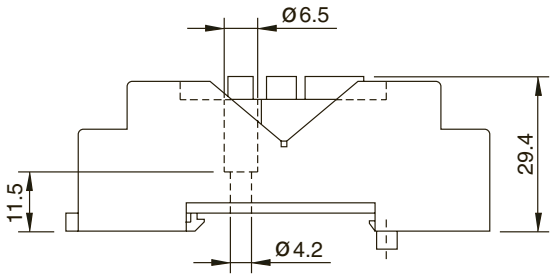
- DIN rail or panel mountable
- Removable label
- EN/DIN and sequencial numbering

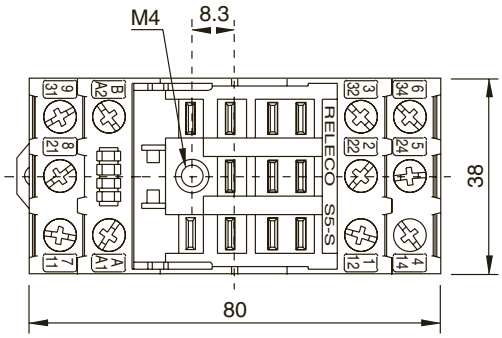
According to EN 60947 and IEC 61810

Wiring Diagram



Dimensions - mm

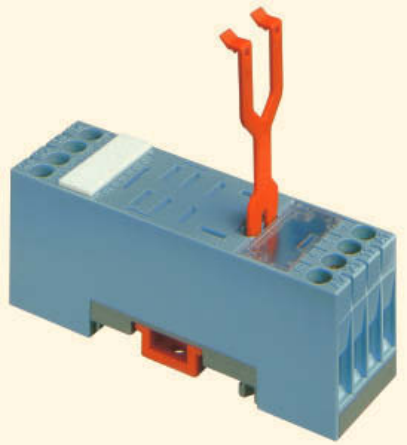




Specifications

Nominal Load:	16 A / 400 V
Insulation: Dielectric strength, 1 minute	
Between contacts and coil	4 KV
Between all terminals and rail DIN	4 KV
Between adjacent poles	4 KV
Wire In-Lets Capacity:	
Solid wire	4 mm^2 or 2 x 2.25 mm^2
Multi - core	
22 - 14 AWG	
Ferrule tip terminals	4 mm^2
Max. screw torque	1.2 Nm
Screw dimensions	M3, Pozi
Integrated hold-down clip	
Removable marking label	

RELECO by TURCK



S7-M

Two pole, one level
Integrated clip and marking label

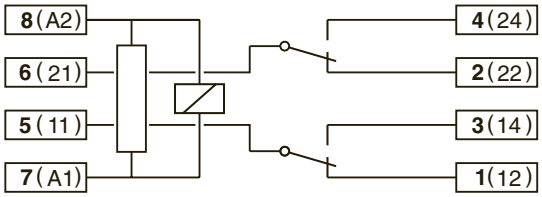
10 A / 250 V

Socket for QRC, 2-Pole Plug-In Relay Types C7-A20, C7-T21, C7-G20, C7-X10, C7-W10

- DIN rail or panel mountable
- Removable label
- EN/DIN and sequencial numbering

According to EN 60947 and IEC 61810

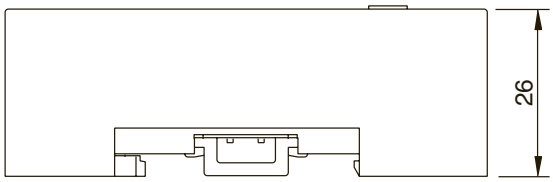
Wiring Diagram

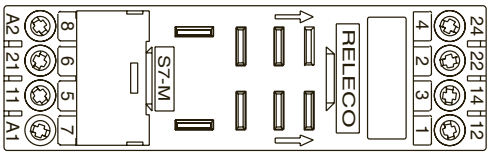


Specifications

Nominal Load:	10 A / 250 V
Insulation: Dielectric strength, 1 minute	
Between contacts and coil	2.5 KV
Between all terminals and rail DIN	2.5 KV
Between adjacent poles	2.5 KV
Wire In-Lets Capacity:	
Solid wire	4 mm^2 or 2 x 2.25 mm^2
Multi - core	
22 - 14 AWG	
Ferrule tip terminals	4 mm^2
Max. screw torque	1.2 Nm
Screw dimensions	M3, Pozi
Integrated hold-down clip	
Removable marking label	

Dimensions - mm





Lloyd´s

S7-16

One pole, one level
Integrated clip and marking label

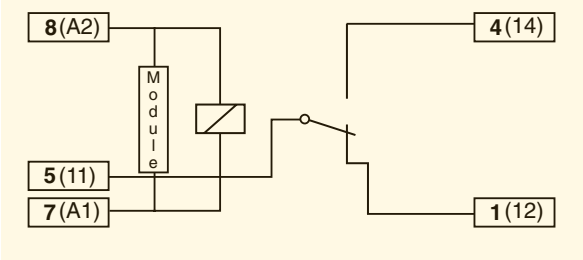
16 A / 250 V

Socket for MRC, 1-Pole Plug-In Relay Types C7-A10

- DIN rail or panel mountable
- Removable label
- EN/DIN and sequencial numbering

According to EN 60947 and IEC 61810

Wiring Diagram



Specifications

Nominal Load:	16 A / 250 V
Insulation: Dielectric strength, 1 minute	
Between contacts and coil	2.5 KV
Between all terminals and rail DIN	2.5 KV
Between adjacent poles	2.5 KV
Wire In-Lets Capacity:	
Solid wire	4 mm^2 or 2 x 2.25 mm^2
Multi - core	
22 - 14 AWG	
Ferrule tip terminals	4 mm^2
Max. screw torque	1.2 Nm
Screw dimensions	M3, Pozi
Integrated hold-down clip	
Removable marking label	

Dimensions - mm

S7-16 para relé C7-A10 (16A)