

RQ miniature relays

RQ1010

RQ2010

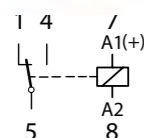
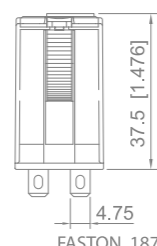
RQ2010N
N7

RQ1010

1 CHANGE-OVER CONTACT, 5 FASTON, SPDT

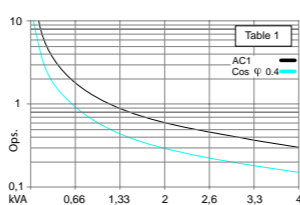


Dimensions mm [in]

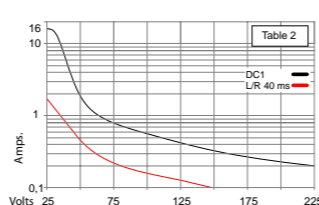


General application 16 A 250 V AC-1 0,5 A 110 V DC-1
Power 16 A 30 V DC-1 0,2 A 220 V DC-1

Electric life, ops x 10⁶



Maxim load in VDC



Standard types

AC 50 Hz, (60 Hz): 24, 48, 115, (120), 230, (240)
RQ1010NN, RQ1010LN, RQ1010
DC: 12, 24, 48, 110
RQ1010NN, RQ1010LN, RQ1010LD, RQ1010LE
AC/DC: RQ1010LU
Sockets: SQR20D

Contacts

Max. switching current 16 A
Max. peak inrush current, 20ms 40 A
Max. Switching voltage 250 V
Max. VAC load (table 1) 4 kVA
Max. VDC load see (table 2)
Contact material AgNi (std)

Insulation

Contact
Open contact 1000 V
Contact/coil 2,5 kV
Insulation resistance at 500 V >3G Ω
Insulation, EN 61810-1 2,5 kV / 3



Specifications

Pick-up time/bounce time 16 ms + ≤ 3 ms
Release time/bounce time 8 ms + ≤ 1 ms
Ambient temperature, operation/storage ... -40°C (no ice) 60°C/80°C
Mechanical life ops. VAC: 10 Mill./VDC: 20 Mill
VDC voltage endurance at rated load >100.000 ops.
Switching frequency at rated load 1200/h.
Protection class IP40 / RT1
Weight 43 g.

Coils

Pick-up voltage < 0,8 x Un
Release voltage > 0,1 x Un
Nominal power 1,2 VA (VAC) / 1,3 W (VDC)

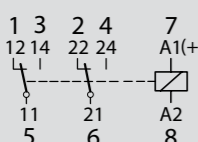
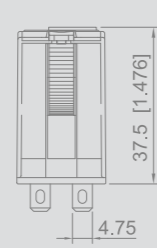
VAC	Ω	mA	VDC	Ω	mA
24	174	50	12	111	108
48	686	25	24	432	55
115	4K3	10,4	48	1K7	28
230	18K6	5,2	110	9K2	12

RQ2010

2 CHANGE-OVER CONTACTS, 8 FASTON, DPDT

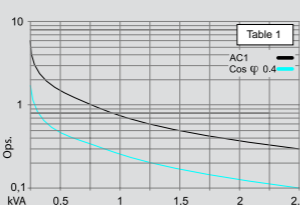


Dimensions mm [in]

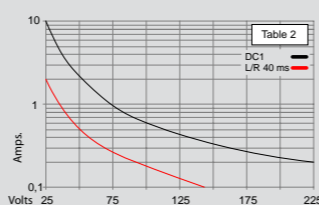


General application 10 A 250 V AC-1 0,5 A 110 V DC-1
10 A 30 V DC-1 0,2 A 220 V DC-1

Electric life, ops x 10⁶



Maxim load in VDC



Standard types

AC 50 Hz, (60 Hz): 24, 48, 115, (120), 230, (240)
RQ2010NN, RQ2010LN, RQ2010
DC: 12, 24, 48, 110
RQ2010NN, RQ2010LN, RQ2010LD, RQ2010LE
AC/DC: RQ2010LU
Sockets: SQB20D, SQW20X, SQP20X, SQP20F, SQB20I

Contacts

Max. switching current 10 A
Max. peak inrush current, 20ms 30 A
Max. Switching voltage 250 V
Max. VAC load (table 1) 2,5 kVA
Max. VDC load see (table 2)
Contact material AgNi (std), std + 0,2μ Au, std + 10μ Au

Insulation

Contacto
Open contact 1000 V
Contact/contact 2,5 kV
Contact/coil 2,5 kV
Insulation resistance at 500 V >3G Ω
Insulation, EN 61810-1 2,5 kV / 3



Specifications

Pick-up time/bounce time 16 ms / ≤ 3 ms
Release time/bounce time 8 ms + ≤ 1 ms
Ambient temperature, operation/storage ... -40°C (no ice) 60°C/80°C
Mechanical life ops. VAC: 10 Mill./VDC: 20 Mill
VDC voltage endurance at rated load >100.000 ops.
Switching frequency at rated load 1200/h.
Protection class IP40 / RT1
Weight 43 g.

Coils

Pick-up voltage < 0,8 x Un
Release voltage > 0,1 x Un
Nominal power 1,2 VA (VAC) / 1 W (VDC)

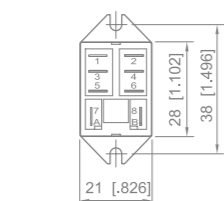
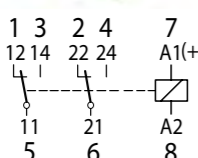
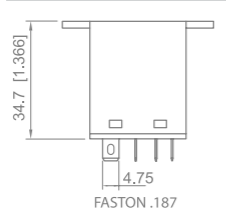
VAC	Ω	mA	VDC	Ω	mA
24	174	50	12	148	85
48	686	25	24	594	43
115	4K3	10,4	48	2K3	21
230	18K6	5,2	110	11K4	10

RQ2010N
N7

2 CHANGE-OVER CONTACTS, PANEL MOUNTING, 8 FASTON, DPDT

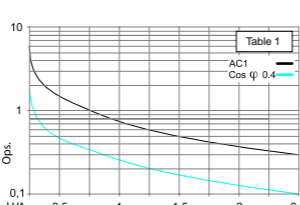


Dimensions mm [in]

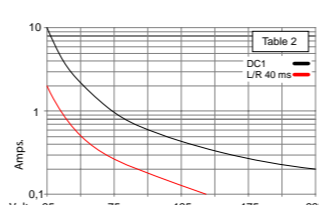


Panel mountable 10 A 250 V AC-1 0,5 A 110 V DC-1
10 A 30 V DC-1 0,2 A 220 V DC-1

Electric life, ops x 10⁶



Maxim load in VDC



Standard types

AC 50 Hz, (60 Hz): 24, 48, 115, (120), 230, (240)
RQ2010NN7
DC: 12, 24, 48, 110
RQ2010NN7

Contacts

Max. switching current 10 A
Max. peak inrush current, 20ms 30 A
Max. Switching voltage 250 V
Max. VAC load (table 1) 2,5 kVA
Max. VDC load see (table 2)
Contact material AgNi (std)

Insulation

Contact
Open contact 1000 V
Contact/contact 2,5 kV
Contact/coil 2,5 kV
Insulation resistance at 500 V >3G Ω
Insulation, EN 61810-1 2,5 kV / 3



Specifications

Pick-up time/bounce time 16 ms / ≤ 3 ms
Release time/bounce time 8 ms + ≤ 1 ms
Ambient temperature, operation/storage ... -40°C (no ice) 60°C/80°C
Mechanical life ops. VAC: 10 Mill./VDC: 20 Mill
VDC voltage endurance at rated load >100.000 ops.
Switching frequency at rated load 1200/h.
Protection class IP40 / RT1
Weight 43 g.

Coils

Pick-up voltage < 0,8 x Un
Release voltage > 0,1 x Un
Nominal power 1,2 VA (VAC) / 1 W (VDC)

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	10

RQ miniature relays

RQ2014

RQ2021

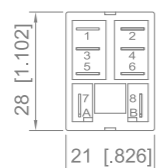
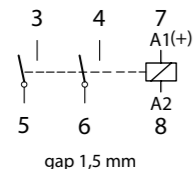
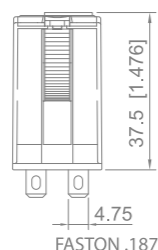
RQ2117

RQ2014

**2 OPEN CONTACTS,
6 FASTON, DPST**

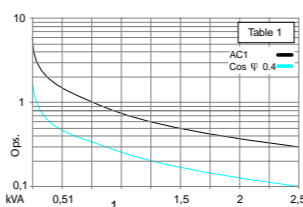


Dimensions mm [in]

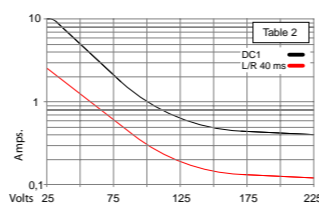


Power relay VDC 10 A 250 V AC-1 0,8 A 110 V DC-1
10 A 30 V DC-1 0,4 A 220 V DC-1

Electric life, ops x 10⁶



Maxim load in VDC



Standard types

AC 50 Hz, (60 Hz): 24, 48, 115, (120), 230, (240)
RQ2014NN, RQ2014LN, RQ2014
DC: 12, 24, 48, 110
RQ2014NN, RQ2014LN, RQ2014LD, RQ2014LE
AC/DC: RQ2014LU
Sockets: SQB20D, SQW20X, SQP20X, SQP20F, SQB20I

Contacts

Max. switching current 10 A
Max. peak inrush current, 20ms 30 A
Max. Switching voltage 250 V
Max. VAC load (table 1) 2,5 kVA
Max. VDC load see (table 2)
Contact material AgNi (std)

Insulation

Contact
Open contact 2000 V
Contact/contact 2,5 kV
Contact/coil 2,5 kV
Insulation resistance at 500 V >3G Ω
Insulation, EN 61810-1 2,5 kV / 3



Specifications

Pick-up time/bounce time 20 ms / ≤ 3 ms
Release time/bounce time 10 ms / ≤ 1 ms
Ambient temperature, operation/storage -40°C (no ice) 60°C/80°C
Mechanical life ops. VAC: 10 Mill./VDC: 20 Mill
VDC voltage endurance at rated load >100.000 ops.
Switching frequency at rated load 1200/h.
Protection class IP40 / RT1
Weight 43 g.

Coils

Pick-up voltage < 0,8 x Un
Release voltage > 0,1 x Un
Nominal power 1,5 VA (VAC) / 1,5 W (VDC)

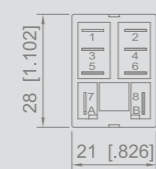
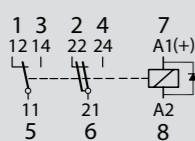
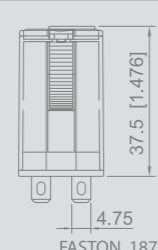
VAC	Ω	mA	VDC	Ω	mA
24	153	62	12	99	121
48	611	31	24	388	61
115	3K6	13	48	1K5	32
230	14K6	6,5	110	8K	14

RQ2021

**2 CONTACTS, 1 POWER,
1 SIGNAL, 8 FASTON, DPDT**

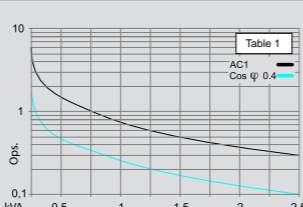


Dimensions mm [in]

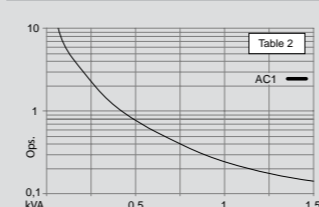


General application 10 A 250 V AC-1 10 A 30 V DC-1
+ low signal 6 A 250 V AC-1 6 A 30 V DC-1

Electric life, ops x 10⁶



Maxim load in VDC



Standard types

AC 50 Hz, (60 Hz): 24, 115, 230, (240)
RQ2021NN, RQ2021LN, RQ2021
DC: 24, 48, 110
RQ2021NN, RQ2021LN, RQ2021LD, RQ2021LE
AC/DC: RQ2021LU
Sockets: SQB20D, SQW20X, SQP20X, SQP20F, SQB20I

Contacts

Max. switching current 10 A/6 A
Max. peak inrush current, 20ms 30 A/15 A
Max. Switching voltage 250 V
Max. VAC load (table 1) 2,5 kVA
Contact material AgNi / AgNi + 0,2μ Au

Insulation

Contact
Open contact 1000 V / 1000 V
Contact/contact 2,5 kV
Contact/coil 2,5 kV
Insulation resistance at 500 V >3G Ω
Insulation, EN 61810-1 2,5 kV / 3



Specifications

Pick-up time/bounce time 20 ms / ≤ 3 ms
Release time/bounce time 10 ms / ≤ 1 ms
Ambient temperature, operation/storage -40°C (no ice) 60°C/80°C
Mechanical life ops. VAC: 10 Mill./VDC: 20 Mill
VDC voltage endurance at rated load >100.000 ops.
Switching frequency at rated load 1200/h.
Protection class IP40 / RT1
Weight 43 g.

Coils

Pick-up voltage < 0,8 x Un
Release voltage > 0,1 x Un
Nominal power 1,2VA (VAC) / 1W (VDC)

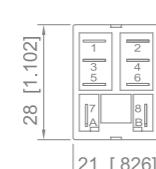
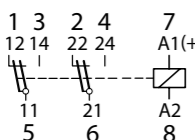
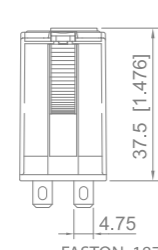
VAC	Ω±10%	mA	VDC	Ω±10%	mA
24	174	50	24	594	40
115	4K3	10,4	48	2K3	20,8
230	18K6	5,2	110	11K4	9,6

RQ2117

**2 TWIN CONTACTS,
8 FASTON, DPDT**

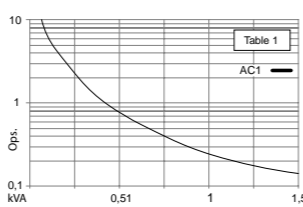


Dimensions mm [in]

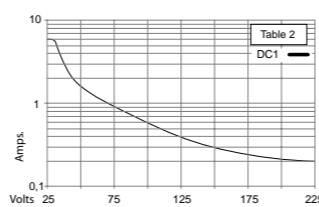


Low signal 6 A 250 V AC-1 6 A 30 V DC-1
5mA / 5 V 1mA / 5 V DC-1

Electric life, ops x 10⁶



Maxim load in VDC



Standard types

AC 50 Hz, (60 Hz): 24, 48, 115, (120), 230, (240)
RQ2117NN, RQ2117LN, RQ2117
DC: 12, 24, 48, 110
RQ2117NN, RQ2117LN, RQ2117LD, RQ2117LE
AC/DC: RQ2117LU
Sockets: SQB20D, SQW20X, SQP20X, SQP20F, SQB20I

Contacts

Max. switching current 6 A
Max. peak inrush current, 20ms 15 A
Max. Switching voltage 250 V
Max. VAC load (table 1) 1,2 kVA
Max. VDC load see (table 2)
Contact material AgNi + 0,2μ Au, (std), std + 10μ Au

Insulation

Contact
Open contact 1000 V
Contact/contact 2,5 kV
Contact/coil 2,5 kV
Insulation resistance at 500 V >3G Ω
Insulation, EN 61810-1 2,5 kV / 3



Specifications

Pick-up time/bounce time 16 ms / ≤ 3 ms
Release time/bounce time 8 ms / ≤ 1 ms
Ambient temperature, operation/storage -40°C (no ice) 60°C/80°C
Mechanical life ops. VAC: 10 Mill./VDC: 20 Mill
VDC voltage endurance at rated load >100.000 ops.
Switching frequency at rated load 1200/h.
Protection class IP40 / RT1
Weight 43 g.

Coils

Pick-up voltage < 0,8 x Un
Release voltage > 0,1 x Un
Nominal power 1,2 VA (VAC) / 1 W (VDC)

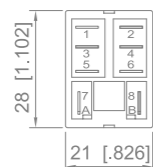
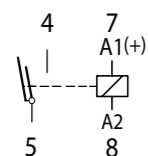
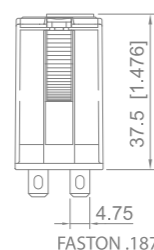
VAC	Ω	mA	VDC	Ω	mA
24	174	50	12	148	85
48	686	25	24	594	43
115	4K3	10,4	48	2K3	21
230	18K6	5,2	110	11K4	11

RQ1018

**1 OPEN CONTACT, TUNGSTEN,
4 FASTON, SPST**



Dimensions mm [in]

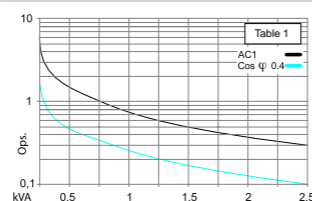


FASTON .187

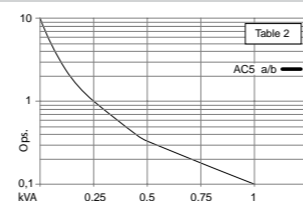
Relay for switching on lamps

One contact NO 10 A 250 V AC-1 6 A 250 V AC-5a/b

Electric life, ops x 10⁶



Maxim load in VDC



Standard types

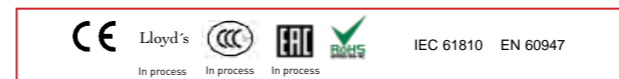
AC 50 Hz, (60 Hz): 24, 48, 115, (120), 230, (240)
 RQ1018NN, RQ1018LN, RQ1018
 DC: 12, 24, 48, 110
 RQ1018NN, RQ1018LN, RQ1018LD, RQ1018LE
 AC/DC: RQ1018LU
Sockets: SQB20D, SQW20X, SQP20X, SQP20F, SQB20I

Contacts

Max. switching current 10 A
 Max. peak inrush current, 20ms 500 A
 Max. Switching voltage 250 V
 Max. VAC load (table 1) 2,5 kVA
 Max. VDC load see (table 2)
 Contact material AgNi + W (std)

Insulation

Contacto
 Open contact 1000V
 Contact/coil 2,5 kV
 Insulation resistance at 500 V >3G Ω
 Insulation, EN 61810-1 2,5 kV / 3



Specifications

Pick-up time/bounce time 20 ms / ≤ 3 ms
 Release time/bounce time 10 ms / ≤ 1 ms
 Ambient temperature, operation/storage -40°C (no ice) 60°C/80°C
 Mechanical life ops. VAC:10 Mill./VDC:20 Mill
 VDC voltage endurance at rated load >100.000 ops.
 Switching frequency at rated load 1200/h.
 Protection class IP40 / RT1
 Weight 43 g.

Coils

Pick-up voltage < 0,8 x Un
 Release voltage >0,1 x Un
 Nominal power 1,5 VA (VAC) / 1,5 W (VDC)

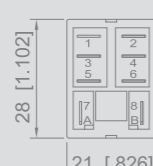
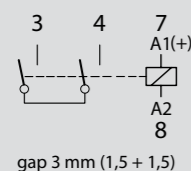
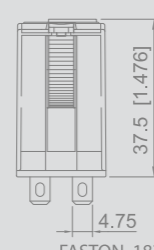
VAC	Ω	mA	VDC	Ω	mA
24	153	62	12	99	121
48	611	31	24	388	61
115	3K6	13	48	1K5	32
230	14K6	6,5	110	8K	14

RQ1015

**1 DOUBLE MAKE OPEN
CONTACT, 4 FASTON, SPST**



Dimensions mm [in]

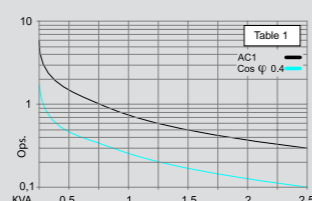


FASTON .187

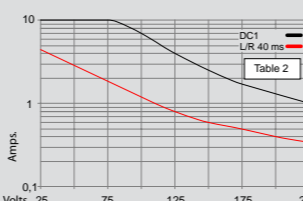
Power Relay VDC 10 A 250 V AC-1 16 A 110 V DC-1

One contact NO 10 A 30 V DC-1 1 A 220 V DC-1

Electric life, ops x 10⁶



Maxim load in VDC



Standard types

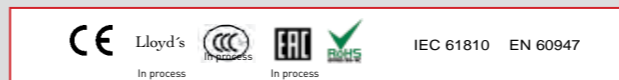
AC 50 Hz, (60 Hz): 24, 48, 115, (120), 230, (240)
 RQ1015NN, RQ1015LN, RQ1015
 DC: 12, 24, 48, 110
 RQ1015NN, RQ1015LN, RQ1015LD, RQ1015LE
 AC/DC: RQ1015LU
Sockets: SQB20D, SQW20X, SQP20X, SQP20F, SQB20I

Contacts

Max. switching current 10 A
 Max. peak inrush current, 20ms 30 A
 Max. Switching voltage 250 V
 Max. VAC load (table 1) 2,5 kVA
 Max. VDC load ver (Table 2)
 Contact material AgNi (std)

Insulation

Contact
 Open contact 2,5 kV
 Contact/contact 2,5 kV
 Contact/coil 2,5 kV
 Insulation resistance at 500 V >3G Ω
 Insulation, EN 61810-1 2,5 kV / 3



Specifications

Pick-up time/bounce time 20 ms / ≤ 3 ms
 Release time/bounce time 10 ms / ≤ 1 ms
 Ambient temperature, operation/storage -40°C (no ice) 60°C/80°C
 Mechanical life ops. VAC:10 Mill./VDC:20 Mill
 VDC voltage endurance at rated load >100.000 ops.
 Switching frequency at rated load 1200/h.
 Protection class IP40 / RT1
 Weight 43 g.

Coils

Pick-up voltage < 0,8 x Un
 Release voltage >0,1 x Un
 Nominal power 1,5 VA (VAC) / 1,3 W (VDC)

VAC	Ω	mA	VDC	Ω	mA
24	153	62	12	111	108
48	611	31	24	432	55
115	3K6	13	48	1K7	27
230	14K6	6,5	110	9K2	12

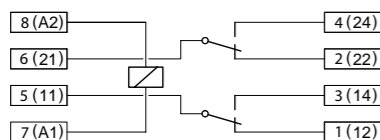
SQ miniature relays sockets

- SQB20
- SQB20D
10
- SQW20
- SQP20X
- SQP20F

SQB20 2 POLE, RAIL DIN

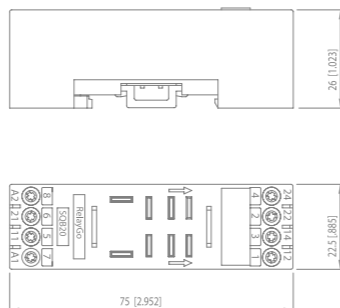


Connection diagram



Socket for RQ relays, with clip and marking label
10 A / 250 V

Dimensions mm [in]



Specifications

Rated load 16 A / 250 V

Insulation

Test voltage, (Vrms/ 1 min.)
 Contacts/coils 2,5 kV
 All terminals/DIN rail 2,5 kV
 Terminal/terminal 25 W

Cross-section of connecting wire

Single-wire 4 mm² ó 2 x 2,25 mm²
 Multi-wire 22 - 14 AWG
 Cable with tip 4 mm²
 Max. screw torque 1,2 Nm
 Screw dimensions M3, Pozi
 Retaining clip plastic integrated



Socket for RQ relays

Socket for RQ, 2 poles plug-in relays RQ2010, RQ2010NN7, RQ2014, RQ2021, RQ2117, RQ1018, RQ1015

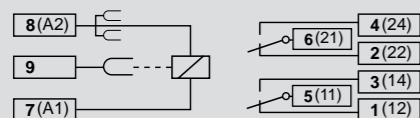
Mounting in rail DIN and panel
 Coding label.
 Numeration EN/DIN

According to the norm EN 60947-1 and IEC 61810-1

SQB20D 10 2 POLES, RAIL DIN, LOGICAL DISPOSITION IN- OUT

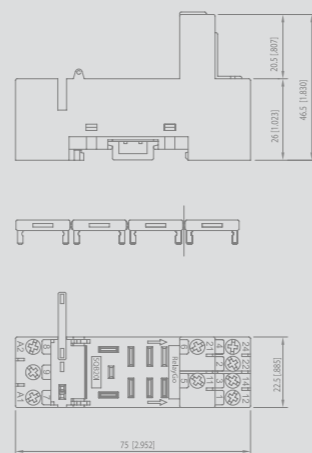


Connection diagram



Socket for RQ relays, with clip and marking label
10 A / 250 V

Dimensions mm [in]



Specifications

Rated load 10 A / 250 V

Insulation

Test voltage, (Vrms/ 1 min.)
 Contacts/coils 2,5 kV
 All terminals/DIN rail 2,5 kV
 Terminal/terminal 2,5 kV

Cross-section of connecting wire

Single-wire 4 mm² or 2 x 2,25 mm²
 Multi-wire 22 - 14 AWG
 Cable with tip 4 mm²
 Max. screw torque 1,2 Nm
 Screw dimensions M3, Pozi
 Retaining clip plastic integrated



Socket for RQ relays

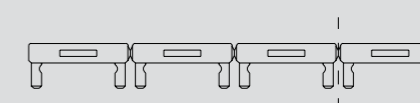
Socket for RQ, 2 poles plug-in relays RQ2010, RQ2010NN7, RQ2014, RQ2021, RQ2117, RQ1018, RQ1015

Mounting in rail DIN and panel
 Coding label.
 Numeration EN/DIN

According to the norm EN 60947-1 and IEC 61810-1

Accessories

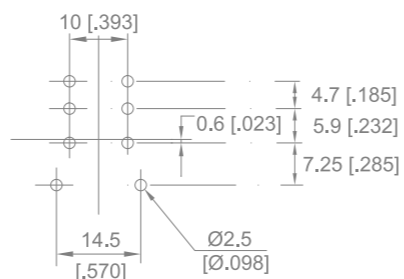
Coil bridge BQ14 for socket SQB20D



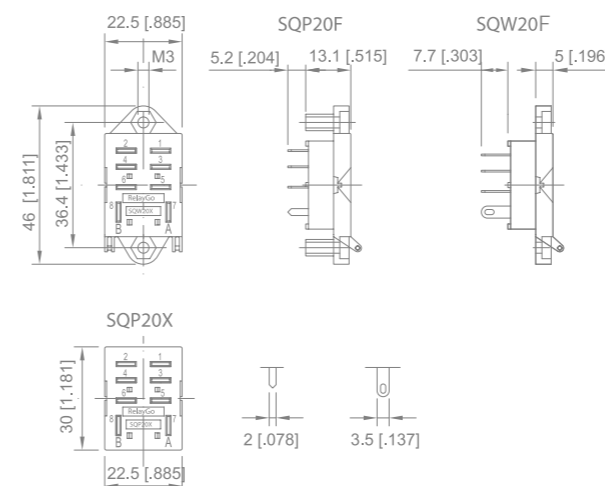
SQW20F 2 POLES, PANEL MOUNTING, SOLDERING WITH CABLES



PCB mounting



Dimensions mm [in]



Socket for RQ relays

Socket for RQ, 2 poles plug-in relays RQ2010, RQ2010NN7, RQ2014, RQ2021, RQ2117, RQ1018, RQ1015

Specifications

Rated load 10 A / 250 V
 Insulation (terminal/terminal) 2,5 kV



SQP20X 2 POLES, PRINTED CIRCUIT



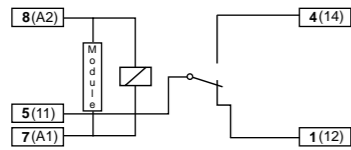
SQP20F 2 POLES, PRINTED CIRCUIT, MOUNTABLE WITH SCREW M3



SQR10 — 1 POLE, RAIL DIN



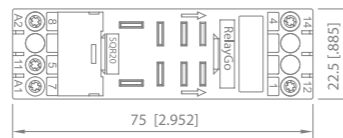
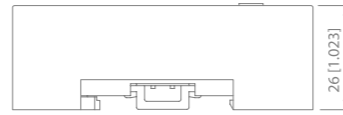
Connection diagram



Socket for RQ1010 relays, with clip and marking label
16 A / 250 V

Dimensions mm [in]

SQR10 para RQ1010 (16A) relés



Specifications

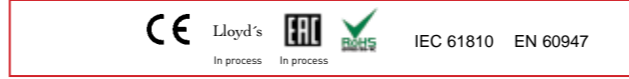
Rated load 16 A / 250 V

Insulation

Test voltage, (Vrms/ 1 min.)
 Contacts/coils 2,5 kV
 All terminals/DIN rail 2,5 kV
 Terminal/terminal 2,5 kV

Cross-section of connecting wire

Single-wire 4 mm² or 2 x 2,25 mm²
 Multi-wire 22 - 14 AWG
 Cable with tip 4 mm²
 Max. screw torque 1,2 Nm
 Screw dimensions M3, Pozi
 Retaining clip plastic integrated



Socket for RQ1010 relays

Socket for RQ, 1 pole plug-in relays RQ1010

Mounting in rail DIN and panel
 Coding label.
 Numeration EN/DIN

According to the norm EN 60947-1 and IEC 61810-1

SQ

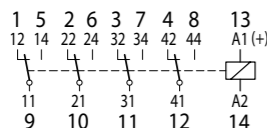
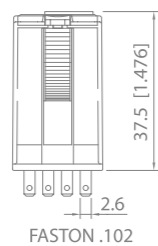
SQ

RQ4110

**4 CHANGE-OVER CONTACTS,
14 FASTON, FPDT**

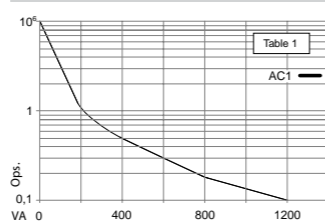


Dimensions mm [in]

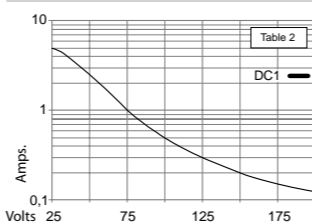


General application **5 A 250 V AC-1**
5 A 30 V DC-1 0,2 A 110 V DC-1

Electric life, ops x 10⁶



Maxim load in VDC



Standard types

AC 50 Hz, (60 Hz): 24, 48, 115, (120), 230, (240)
RQ4110NN, RQ4110LN, RQ4110
DC: 12, 24, 48, 110
RQ4110NN, RQ4110LN, RQ4110LD, RQ4110LE
AC/DC: RQ4110LU
Sockets: SQB40D, SQW40F, SQP40X, SQP40F

Contacts

Max. switching current 5 A
Max. peak inrush current, 20ms 15 A
Max. Switching voltage (same polarity) 250 V
Max. VAC load (table 1) 1250 kVA
Max. VDC load see (table 2)
Contact material AgNi+0,2μ Au, (std), std +10μ Au

Insulation

Contact
Open contact 1000 V
Contact/contact 2 kV
Contact/coil 2,5 kV
Insulation resistance at 500 V >3G Ω
Insulation, EN 61810-1 2,5 kV / 3



Specifications

Pick-up time/bounce time 10 ms / ≤ 3 ms
Release time/bounce time 6 ms / ≤ 1 ms
Ambient temperature, operation/storage -40°C (no ice) 60°C/80°C
Mechanical life ops. VAC:10 Mill./VDC:20 Mill
VDC voltage endurance at rated load >100.000 ops.
Switching frequency at rated load 1200/h.
Protection class IP40 / RT1
Weight 43 g.

Coils

Pick-up voltage < 0,8 x Un
Release voltage >0,1 x Un
Nominal power 1,2 VA (VAC) / 1 W (VDC)

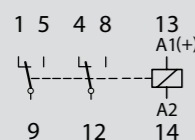
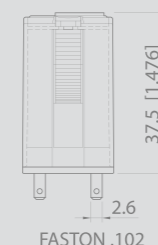
VAC	Ω	mA	VDC	Ω	mA
24	174	50	12	148	81
48	686	25	24	594	40
115	4K3	10,4	48	2K3	21
230	18K6	5,2	110	11K4	11

RQ2112

**2 CHANGE-OVER CONTACTS
SENSITIVE, 8 FASTON, DPDT**

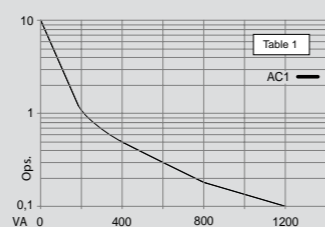


Dimensions mm [in]

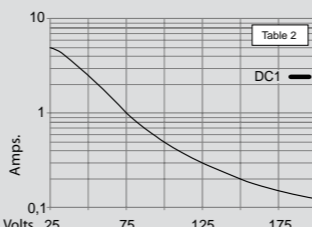


Sensitive 500 mW DC, 800 mVA AC.
Margin of operation **0,8...1,7 x Un**
5 A 250 V AC-1 5 A 30 V DC-1

Electric life, ops x 10⁶



Maxim load in VDC



Standard types

AC 50 Hz, (60 Hz): 24, 48, 115, (120), 230, (240)
RQ2112NN, RQ2112LN
DC: 12, 24, 48, 110
RQ2112NN, RQ2112LN, RQ2112LD, RQ2112LE
AC/DC: RQ2112LU
Sockets: SQB40D, SQW40F, SQP40X, SQP40F

Contacts

Max. switching current 5 A
Max. peak inrush current, 20ms 15 A
Max. Switching voltage 250 V
Max. VAC load (table 1) 1200 kVA
Max. VDC load see (table 2)
Contact material AgNi+0,2μ Au (std), std +10μ Au

Insulation

Contact
Open contact 1000 V
Contact/contact 2,5 kV
Contact/coil 2,5 kV
Insulation resistance at 500 V >3G Ω
Insulation, EN 61810-1 2,5 kV / 3



Specifications

Pick-up time/bounce time 10 ms / ≤ 3 ms
Release time/bounce time 6 ms / ≤ 1 ms
Ambient temperature, operation/storage -40°C (no ice) 60°C/80°C
Mechanical life ops. VAC:10 Mill./VDC:20 Mill
VDC voltage endurance at rated load >100.000 ops.
Switching frequency at rated load 1200/h.
Protection class IP40 / RT1
Weight 40 g.

Coils

Pick-up voltage < 0,8 x Un
Release voltage >0,1 x Un
Nominal power 0,8 VA (VAC) / 0,5 W (VDC)

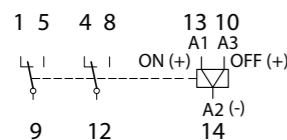
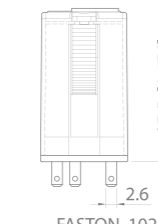
VAC	Ω	mA	VDC	Ω	mA
24	238	33	12	288	42
48	1K	17	24	1K1	21
115	5K9	7	48	4K6	10
230	23K9	3,5	110	24K2	4,5

RQ2119

**2 CHANGE-OVER CONTACTS,
REMANENCE, 9 FASTON
DPDT**

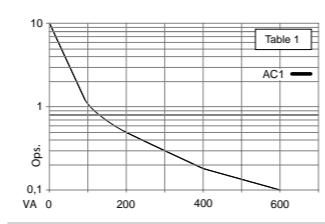


Dimensions mm [in]

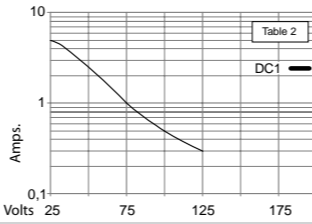


Magnetic remanence **5 A 1200 V AC-1**
5 A 30 V DC-1 0,2 A 110 V DC-1

Electric life, ops x 10⁶



Maxim load in VDC



Standard types

AC 50 Hz, (60 Hz): 24, 48, 115, (120), 230, (240)
RQ2119NN
DC: 12, 24, 48, 60
RQ2119NN
Sockets: SQB40D, SQW40F, SQP40X, SQP40F

Contacts

Max. switching current 5 A
Max. peak inrush current, 20ms 15 A
Max. Switching voltage 120 V
Max. VAC load (table 1) 1200 kVA
Max. VDC load see (table 2)
Contact material AgNi+0,2μ Au

Insulation

Contact
Open contact 1000 V
Contact/contact 2 kV
Contact/coil 2 kV
Insulation resistance at 500 V >3G Ω
Insulation, EN 61810-1 2,5 kV / 3



Specifications

Pick-up time/bounce time 50 ms.
Ambient temperature, operation/storage -40°C (no ice) 60°C/80°C
Mechanical life ops. VAC:10 Mill./VDC:20 Mill
VDC voltage endurance at rated load >100.000 ops.
Switching frequency at rated load 1200/h.
Protection class IP40 / RT1
Weight 43 g.

Coils

Pick-up voltage 1,2 VA / W
Release voltage 0,3 VA / W

VAC	ON mA	OFF mA	VDC	ON mA	OFF mA
24	50	8	12	100	25
48	25	4	24	50	12
115	10	2	48	25	6
230	5	1	60	20	5

SQ miniature relays sockets

SQW40F 4 POLES, PANEL MOUNTING, SOLDERING WITH CABLES



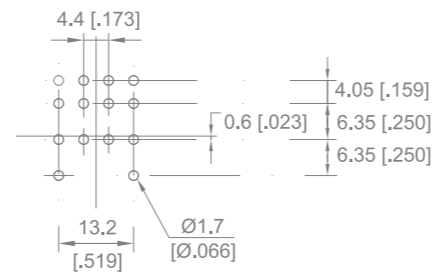
SQP40X 4 POLES, PRINTED CIRCUIT



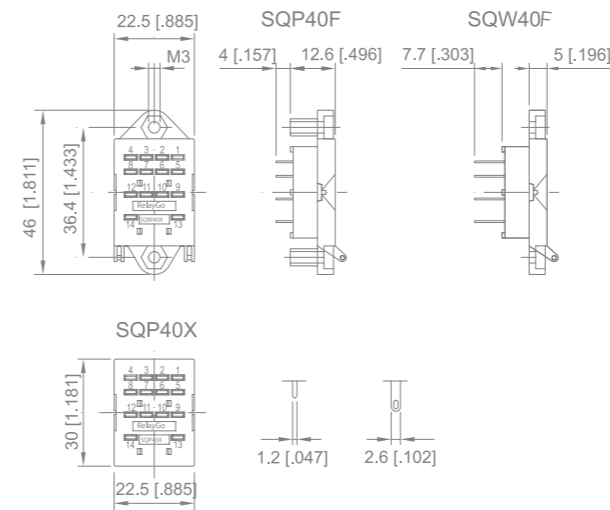
SQP40F 4 POLES, PRINTED CIRCUIT, MOUNTABLE WITH SCREW M3



PCB mounting



Dimensions mm [in]



Socket for RQ relays

Socket for RQ, four / two poles plug-in relays RQ4110, RQ2112, RQ2119

Specifications

Rated load 6 A / 250 V
 Insulation (terminal/terminal) 2,5 kV

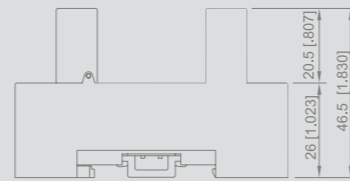


SQB40 4 POLES, RAIL DIN

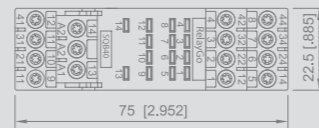
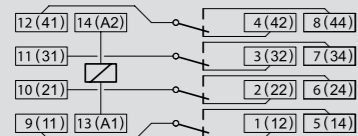


Socket for RQ4 relays, with clip and marking label
 10 A / 250 V

Dimensions mm [in]



Connection diagram



Specifications

Rated load 6 A / 250 V
 Insulation
 Test voltage, (Vrms/ 1 min.)
 Contacts/coils 2,5 kV
 All terminals/DIN rail 2,5 kV
 Terminal/terminal 2,5 kV

Cross-section of connecting wire

Single-wire 4 mm² or 2 x 2,25 mm²
 Multi-wire 22 - 14 AWG
 Cable with tip 4 mm²
 Screw dimensions M3, Pozis
 Max. screw torque 1,2 Nm
 Retaining clip plastic integrated

Socket for RQ relays

Socket for RQ, four / two poles plug-in relays RQ4110, RQ2112, RQ2119

According to the norm EN 60947-1 and IEC 61810-1





Kühn Controls AG

Notes:

You want more information about this product, please call us: tel: +49 (0)7082-940000 or send us a fax: +49 (0)7082-940001,
or email: sales@kuehn-controls.de or visit our Website: www.kuehn-controls.de