



connector 3RT2025-1BB40

URL:<https://www.sxplc.com/connector-3rt2025-1bb40>

Product data sheet

General technical data

size of contactor S0

product extension

● function module for communication No

● auxiliary switch Yes

power loss [W] for rated value of the current

● at AC in hot operating state 1.8 W

● at AC in hot operating state per pole 0.6 W

● without load current share typical 5.9 W

type of calculation of power loss depending on pole quadratic

insulation voltage

- of main circuit with degree of pollution 3 rated value 690 V

- of auxiliary circuit with degree of pollution 3 rated value 690 V

surge voltage resistance

- of main circuit rated value 6 kV

- of auxiliary circuit rated value 6 kV

maximum permissible voltage for protective separation between

coil and main contacts according to EN 60947-1

400 V

shock resistance at rectangular impulse

- at DC 10g / 5 ms, 7,5g / 10 ms

shock resistance with sine pulse

- at DC 15g / 5 ms, 10g / 10 ms

mechanical service life (operating cycles)

● of contactor typical 10 000 000

● of the contactor with added electronically optimized

auxiliary switch block typical

5 000 000

● of the contactor with added auxiliary switch block typical 10 000 000

reference code according to IEC 81346-2 Q

Substance Prohibitance (Date) 10/01/2009

Ambient conditions

installation altitude at height above sea level maximum 2 000 m

ambient temperature

● during operation -25 ... +60 °C

● during storage -55 ... +80 °C

relative humidity minimum 10 %

relative humidity at 55 °C according to IEC 60068-2-30

maximum

95 %

Environmental footprint

Environmental Product Declaration(EPD) Yes

Global Warming Potential [CO2 eq] total 221 kg

Global Warming Potential [CO2 eq] during manufacturing 2.65 kg

Global Warming Potential [CO2 eq] during operation 219 kg

Global Warming Potential [CO2 eq] after end of life -0.639 kg

Main circuit

number of poles for main current circuit 3

number of NO contacts for main contacts 3

operating voltage

● at AC-3 rated value maximum 690 V

● at AC-3e rated value maximum 690 V

operational current

● at AC-1 at 400 V at ambient temperature 40 °C rated

value

40 A

● at AC-1

— up to 690 V at ambient temperature 40 °C rated

value

40 A

— up to 690 V at ambient temperature 60 °C rated

value

35 A

● at AC-3

— at 400 V rated value 17 A

— at 500 V rated value 17 A

— at 690 V rated value 13 A

● at AC-3e

— at 400 V rated value 17 A

— at 500 V rated value 17 A

— at 690 V rated value 13 A

● at AC-4 at 400 V rated value 15.5 A

● at AC-5a up to 690 V rated value 35.2 A

● at AC-5b up to 400 V rated value 14.1 A

● at AC-6a

— up to 230 V for current peak value $n=20$ rated value 11.4 A

— up to 400 V for current peak value $n=20$ rated value 11.4 A

— up to 500 V for current peak value $n=20$ rated value 11.4 A

— up to 690 V for current peak value $n=20$ rated value 11.3 A

● at AC-6a

— up to 230 V for current peak value $n=30$ rated value 7.6 A

— up to 400 V for current peak value $n=30$ rated value 7.6 A

— up to 500 V for current peak value $n=30$ rated value 7.6 A

— up to 690 V for current peak value $n=30$ rated value 7.6 A

minimum cross-section in main circuit at maximum AC-1 rated

value

10 mm²

operational current for approx. 200000 operating cycles at

AC-4

- at 400 V rated value 7.7 A

- at 690 V rated value 7.7 A

Control circuit/ Control

type of voltage of the control supply voltage DC

control supply voltage at DC rated value

- 24 V

operating range factor control supply voltage rated value of

magnet coil at DC

- initial value 0.8

- full-scale value 1.1

closing power of magnet coil at DC 5.9 W

holding power of magnet coil at DC 5.9 W

closing delay

● at DC 50 ... 170 ms

opening delay

● at DC 15 ... 18 ms

arcing time 10 ... 10 ms

control version of the switch operating mechanism Standard A1 - A2

