



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)

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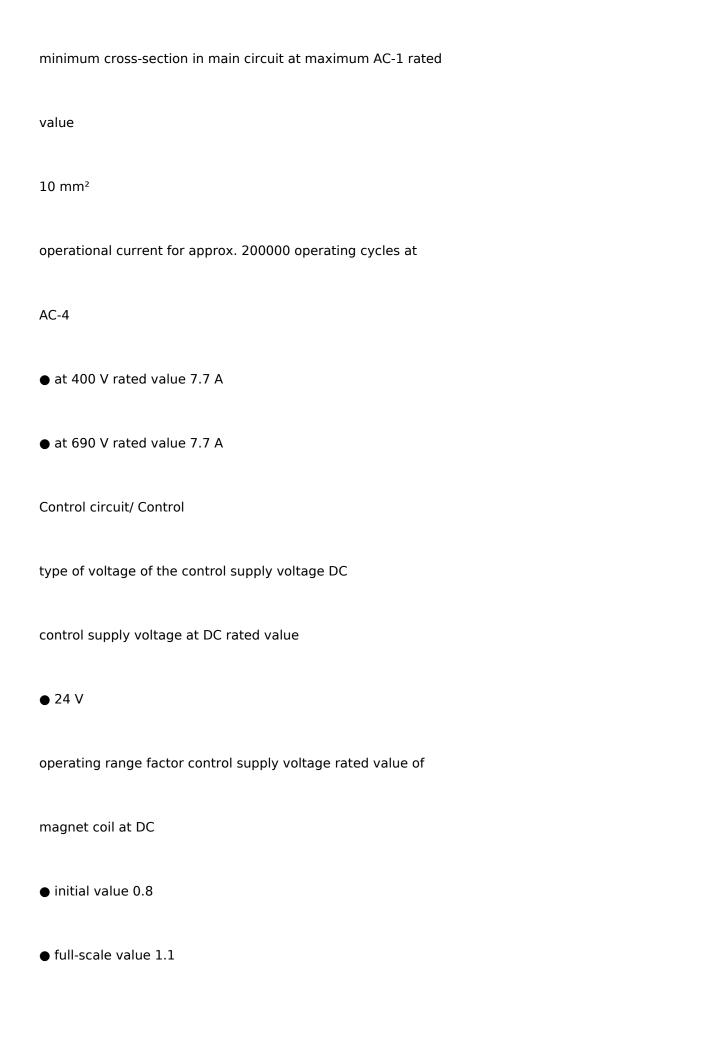
● of contactor typical 10 000 000
● of the contactor with added electronically optimized
auxiliary switch block typical
5 000 000
• of the contactor with added auxiliary switch block typical 10 000 000
reference code according to IEC 81346-2 Q
Substance Prohibitance (Date) 10/01/2009
Ambient conditions
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

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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
● 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





closing power of magnet coil at DC 5.9 W

holding power of magnet coil at DC $5.9~\mathrm{W}$

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



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