



## Drop Contactors With Aux. Magnetic Contractor 3RT2026-1BM40

URL:<https://www.sxplc.com/drop-contactors-with-aux-magnetic-contractor-3rt2026-1bm40>

### 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 5.7 W

● at AC in hot operating state per pole 1.9 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 25 A

— at 500 V rated value 18 A

— at 690 V rated value 13 A

● at AC-3e

— at 400 V rated value 25 A

— at 500 V rated value 18 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 20.7 A

● at AC-6a

— up to 230 V for current peak value  $n=20$  rated value 20.2 A

— up to 400 V for current peak value  $n=20$  rated value 20.2 A

— up to 500 V for current peak value  $n=20$  rated value 20.2 A

— up to 690 V for current peak value  $n=20$  rated value 12.9 A

● at AC-6a

— up to 230 V for current peak value  $n=30$  rated value 13.5 A

— up to 400 V for current peak value  $n=30$  rated value 13.5 A

— up to 500 V for current peak value  $n=30$  rated value 13.5 A

— up to 690 V for current peak value  $n=30$  rated value 13 A

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

value

10 mm<sup>2</sup>

operational current for approx. 200000 operating cycles at

AC-4

● at 400 V rated value 9 A

● at 690 V rated value 9 A

operational current

● at 1 current path at DC-1

— at 24 V rated value 35 A

— at 60 V rated value 20 A

— at 110 V rated value 4.5 A

— at 220 V rated value 1 A

— at 440 V rated value 0.4 A

— at 600 V rated value 0.25 A

● with 2 current paths in series at DC-1

— at 24 V rated value 35 A

— at 60 V rated value 35 A

— at 110 V rated value 35 A

— at 220 V rated value 5 A

— at 440 V rated value 1 A

— at 600 V rated value 0.8 A

● with 3 current paths in series at DC-1 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 25 A

- at 500 V rated value 18 A

- at 690 V rated value 13 A

- at AC-3e

- at 400 V rated value 25 A

- at 500 V rated value 18 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 20.7 A

- at AC-6a

- up to 230 V for current peak value  $n=20$  rated value 20.2 A

- up to 400 V for current peak value  $n=20$  rated value 20.2 A

- up to 500 V for current peak value  $n=20$  rated value 20.2 A

— up to 690 V for current peak value n=20 rated value 12.9 A

● at AC-6a

— up to 230 V for current peak value n=30 rated value 13.5 A

— up to 400 V for current peak value n=30 rated value 13.5 A

— up to 500 V for current peak value n=30 rated value 13.5 A

— up to 690 V for current peak value n=30 rated value 13 A

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

value

10 mm<sup>2</sup>

operational current for approx. 200000 operating cycles at

AC-4

● at 400 V rated value 9 A

● at 690 V rated value 9 A

operational current

● at 1 current path at DC-1

— at 24 V rated value 35 A

— at 60 V rated value 20 A

— at 110 V rated value 4.5 A

— at 220 V rated value 1 A

— at 440 V rated value 0.4 A

— at 600 V rated value 0.25 A

● with 2 current paths in series at DC-1

— at 24 V rated value 35 A

— at 60 V rated value 35 A

— at 110 V rated value 35 A

— at 220 V rated value 5 A

— at 440 V rated value 1 A

— at 600 V rated value 0.8 A

● with 3 current paths in series at DC-1

— at 24 V rated value 35 A

— at 60 V rated value 35 A

— at 110 V rated value 35 A

— at 220 V rated value 35 A

— at 440 V rated value 2.9 A

— at 600 V rated value 1.4 A

● at 1 current path at DC-3 at DC-5

— at 24 V rated value 20 A

— at 60 V rated value 5 A

— at 110 V rated value 2.5 A

— at 220 V rated value 1 A

— at 440 V rated value 0.09 A

— at 600 V rated value 0.06 A

● with 2 current paths in series at DC-3 at DC-5

— at 24 V rated value 35 A

— at 60 V rated value 35 A

— at 110 V rated value 15 A

— at 220 V rated value 3 A

— at 440 V rated value 0.27 A

— at 600 V rated value 0.16 A

● with 3 current paths in series at DC-3 at DC-5

— at 24 V rated value 35 A

— at 60 V rated value 35 A

— at 110 V rated value 35 A

— at 220 V rated value 10 A

— at 440 V rated value 0.6 A

— at 600 V rated value 0.6 A

operating power

● at AC-3

— at 230 V rated value 5.5 kW

— at 400 V rated value 11 kW

— at 500 V rated value 11 kW

— at 690 V rated value 11 kW

● at AC-3e

— at 230 V rated value 5.5 kW

— at 400 V rated value 11 kW

— at 500 V rated value 11 kW

— at 690 V rated value 11 kW

operating power for approx. 200000 operating cycles at AC4

● at 400 V rated value 4.4 kW

● at 690 V rated value 7.7 kW

operating apparent power at AC-6a

● up to 230 V for current peak value  $n=20$  rated value 8 kVA

● up to 400 V for current peak value  $n=20$  rated value 13.9 kVA

● up to 500 V for current peak value  $n=20$  rated value 17.4 kVA

● up to 690 V for current peak value  $n=20$  rated value 15.4 kVA

operating apparent power at AC-6a

- up to 230 V for current peak value  $n=30$  rated value 5.3 kVA
- up to 400 V for current peak value  $n=30$  rated value 9.3 kVA
- up to 500 V for current peak value  $n=30$  rated value 11.6 kVA
- up to 690 V for current peak value  $n=30$  rated value 15.5 kVA

short-time withstand current in cold operating state up to

40 °C

- limited to 1 s switching at zero current maximum 375 A; Use minimum cross-section acc. to AC-1 rated value
- limited to 5 s switching at zero current maximum 300 A; Use minimum cross-section acc. to AC-1 rated value
- limited to 10 s switching at zero current maximum 210 A; Use minimum cross-section acc. to AC-1 rated value
- limited to 30 s switching at zero current maximum 144 A; Use minimum cross-section acc. to AC-1 rated value
- limited to 60 s switching at zero current maximum 118 A; Use minimum cross-section acc. to AC-1 rated value

no-load switching frequency



- at DC 1 500 1/h

operating frequency

- at AC-1 maximum 1 000 1/h

- at AC-2 maximum 750 1/h

- at AC-3 maximum 750 1/h

- at AC-3e maximum 750 1/h

- at AC-4 maximum 250 1/h

Control circuit/ Control

type of voltage of the control supply voltage DC

control supply voltage at DC rated value

- 220 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

Auxiliary circuit

number of NC contacts for auxiliary contacts instantaneous

contact

1

number of NO contacts for auxiliary contacts instantaneous

contact

1

operational current at AC-12 maximum 10 A

operational current at AC-15

● at 230 V rated value 10 A

● at 400 V rated value 3 A

● at 500 V rated value 2 A

● at 690 V rated value 1 A

operational current at DC-12

● at 24 V rated value 10 A

● at 48 V rated value 6 A

● at 60 V rated value 6 A

● at 110 V rated value 3 A

● at 125 V rated value 2 A

● at 220 V rated value 1 A

● at 600 V rated value 0.15 A

operational current at DC-13

● at 24 V rated value 10 A

● at 48 V rated value 2 A

● at 60 V rated value 2 A

● at 110 V rated value 1 A

● at 125 V rated value 0.9 A

● at 220 V rated value 0.3 A

● at 600 V rated value 0.1 A

contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA)

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