# SIEMENS

#### Data sheet

### 3RT2026-1AL20



power contactor, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	5.7 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.9 W
<ul> <li>without load current share typical</li> </ul>	2.7 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	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 AC	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Weight	0.416 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
<ul> <li>during storage</li> </ul>	-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	74.2 kg
Global Warming Potential [CO2 eq] during manufacturing	1.9 kg
Global Warming Potential [CO2 eq] during operation	72.4 kg
Global Warming Potential [CO2 eq] after end of life	-0.117 kg
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	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	25.4
— at 400 V rated value	25 A
— at 500 V rated value — at 690 V rated value	18 A 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
<ul> <li>— up to 690 V for current peak value n=20 rated value</li> </ul>	12.9 A
● at AC-6a	
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	13.5 A
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	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	1A
— 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 24 V rated value — at 60 V rated value	35 A 35 A
— at 60 V rated value — at 110 V rated value	35 A 35 A
— at 220 V rated value	5 A
— at 440 V rated value	1A
— at 600 V rated value	0.8 A
	0.071

<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
- 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 220 V rated value	1A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— 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
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— 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 AC- 4	
• at 400 V rated value	4.4 kW
• at 690 V rated value	7.7 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	8 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	13.9 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	17.4 kVA
• up to 690 V for current peak value n=20 rated value	15.4 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	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	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	375 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	300 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	210 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	144 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	118 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 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	AC
control supply voltage at AC	
• at 50 Hz rated value	230 V
• at 60 Hz rated value	230 V
operating range factor control supply voltage rated value of	
magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	81 VA
• at 60 Hz	79 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
• at 60 Hz	0.74
apparent holding power of magnet coil at AC	
• at 50 Hz	10.5 VA
• at 60 Hz	8.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.28
closing delay	
• at AC	8 40 ms
opening delay	
• at AC	4 16 ms
• at AC arcing time	10 10 ms
at AC arcing time control version of the switch operating mechanism	
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit	10 10 ms Standard A1 - A2
at AC arcing time control version of the switch operating mechanism	10 10 ms
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous	10 10 ms Standard A1 - A2
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact	10 10 ms Standard A1 - A2 1 1
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact     operational current at AC-12 maximum	10 10 ms Standard A1 - A2 1
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact     operational current at AC-12 maximum     operational current at AC-15	10 10 ms Standard A1 - A2 1 1 10 A
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact     operational current at AC-12 maximum     operational current at AC-15         • at 230 V rated value	10 10 ms Standard A1 - A2 1 1 10 A 10 A
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact     operational current at AC-12 maximum     operational current at AC-15         • at 230 V rated value         • at 400 V rated value	10 10 ms Standard A1 - A2 1 1 10 A 10 A 3 A
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact     operational current at AC-12 maximum     operational current at AC-15         e at 230 V rated value         e at 400 V rated value         e at 500 V rated value	10 10 ms Standard A1 - A2 1 1 10 A 10 A 3 A 2 A
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact     operational current at AC-12 maximum     operational current at AC-15         e at 230 V rated value         e at 400 V rated value         e at 500 V rated value         e at 690 V rated value	10 10 ms Standard A1 - A2 1 1 10 A 10 A 3 A
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact     operational current at AC-12 maximum     operational current at AC-15         e at 230 V rated value         e at 400 V rated value         e at 690 V rated value         operational current at DC-12	10 10 ms Standard A1 - A2 1 1 1 10 A 10 A 3 A 2 A 1 A
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact     operational current at AC-12 maximum     operational current at AC-15         e at 230 V rated value         e at 400 V rated value         e at 690 V rated value         e at 690 V rated value         e at 400 V rated value	10 10 ms Standard A1 - A2 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact     operational current at AC-12 maximum     operational current at AC-15         at 230 V rated value         at 400 V rated value         at 690 V rated value         at 690 V rated value         at 24 V rated value         at 24 V rated value         at 48 V rated value	10 10 ms Standard A1 - A2 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact     operational current at AC-12 maximum     operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 60 V rated value         • at 60 V rated value	10 10 ms Standard A1 - A2 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact     operational current at AC-12 maximum     operational current at AC-15         e at 230 V rated value         e at 400 V rated value         e at 500 V rated value         e at 690 V rated value         e at 48 V rated value         e at 60 V rated value         e at 410 V rated value         e at 410 V rated value         e at 410 V rated value         e at 600 V rated value         e at 410 V rated value	10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact     operational current at AC-12 maximum     operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 48 V rated value         • at 48 V rated value         • at 4110 V rated value         • at 110 V rated value         • at 125 V rated value	10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact     operational current at AC-12 maximum     operational current at AC-15         at 230 V rated value         at 400 V rated value         at 500 V rated value         at 690 V rated value         at 24 V rated value         at 24 V rated value         at 48 V rated value         at 60 V rated value         at 110 V rated value         at 125 V rated value         at 220 V rated value         at 220 V rated value	10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact     operational current at AC-12 maximum     operational current at AC-15         at 230 V rated value         at 400 V rated value         at 690 V rated value         at 690 V rated value         at 24 V rated value         at 24 V rated value         at 48 V rated value         at 110 V rated value         at 125 V rated value         at 220 V rated value	10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact     operational current at AC-12 maximum     operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 600 V rated value         • at 24 V rated value         • at 48 V rated value         • at 48 V rated value         • at 420 V rated value         • at 48 V rated value         • at 48 V rated value         • at 48 V rated value         • at 600 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 V rated value         • at 600 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V r	10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact     operational current at AC-12 maximum     operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 690 V rated value         • at 48 V rated value         • at 48 V rated value         • at 4110 V rated value         • at 110 V rated value         • at 125 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 600 V rated value         • at 24 V rated value	10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact     operational current at AC-12 maximum     operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 690 V rated value         • at 48 V rated value         • at 110 V rated value         • at 125 V rated value         • at 125 V rated value         • at 220 V rated value         • at 24 V rated value         • at 48 V rated value	10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 2 A 1 A 10 A 10 A 10 A 2 A 1 A 10 A
at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15     at 230 V rated value     at 400 V rated value     at 500 V rated value     at 690 V rated value     at 690 V rated value     at 48 V rated value     at 110 V rated value     at 125 V rated value     at 220 V rated value     at 125 V rated value     at 125 V rated value     at 24 V rated value     at 20 V rated value     at 600 V rated value	10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact     operational current at AC-12 maximum     operational current at AC-15         at 230 V rated value         at 400 V rated value         at 600 V rated value         at 24 V rated value         at 125 V rated value         at 125 V rated value         at 220 V rated value         at 24 V rated value         at 220 V rated value         at 220 V rated value         at 220 V rated value         at 230 V rated value         at 24 V rated value         at 220 V rated value         at 320	10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 1 A 10 A
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact     operational current at AC-12 maximum     operational current at AC-15         at 230 V rated value         at 400 V rated value         at 690 V rated value         at 690 V rated value         at 690 V rated value         at 48 V rated value         at 48 V rated value         at 110 V rated value         at 220 V rated value         at 220 V rated value         at 24 V rated value         at 25 V rated value         at 25 V rated value         at 25 V rated value         at 260 V rated value         at 270	10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 1
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact     operational current at AC-12 maximum     operational current at AC-15         at 230 V rated value         at 400 V rated value         at 690 V rated value         at 690 V rated value         at 690 V rated value         at 48 V rated value         at 48 V rated value         at 110 V rated value         at 220 V rated value         at 220 V rated value         at 600 V rated value         at 600 V rated value         at 125 V rated value         at 110 V rated value         at 24 V rated value         at 600 V rated value         at 125 V rated value         at 24 V rated value         at 24 V rated value         at 110 V rated value         at 125 V rated value         at 24 V rated value         at 24 V rated value         at 25 V rated value         at 200 V rated value         at 215 V rated value         at 215 V rated value         at 210 V rated value	10 10 ms Standard A1 - A2 1 1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 1 A 10 A 2 A 1 A 10 A
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact     operational current at AC-12 maximum     operational current at AC-15         at 230 V rated value         at 400 V rated value         at 690 V rated value         at 690 V rated value         at 690 V rated value         at 48 V rated value         at 48 V rated value         at 110 V rated value         at 220 V rated value         at 220 V rated value         at 24 V rated value         at 25 V rated value         at 25 V rated value         at 25 V rated value         at 260 V rated value         at 270	10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 1

UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	21 A
	22 A
at 600 V rated value	22 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	2 hp
— at 230 V rated value	3 hp
• for 3-phase AC motor	
— at 200/208 V rated value	5 hp
— at 220/230 V rated value	7.5 hp
— at 460/480 V rated value	15 hp
— at 575/600 V rated value	20 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
— with type of coordination 1 required	gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA)
- with type of assignment 2 required	gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 80kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method side-by-side mounting	Yes
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	85 mm
width	45 mm
depth	97 mm
required spacing	
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	
	10 mm
for live parts	10 mm
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
<ul> <li>of magnet coil</li> </ul>	Screw-type terminals
type of connectable conductor cross-sections	
<ul> <li>for main contacts</li> </ul>	
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
— solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
- finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
<ul> <li>for AWG cables for main contacts</li> </ul>	2x (16 12), 2x (14 8)
connectable conductor cross-section for main contacts	
• solid	1 10 mm²
stranded	1 10 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	1 10 mm²
<ul> <li>Intery stranded with core end processing</li> </ul>	1 IV IIIII <sup>-</sup>

		viliary contacts			
<ul> <li>solid or stranded</li> </ul>	or cross-section for aux	kindly contacts	0.5 2.5 mm²		
	vith core end processing		0.5 2.5 mm <sup>2</sup>		
	conductor cross-section	ne	0.0 2.0 mm		
<ul> <li>for auxiliary cont</li> </ul>		13			
— solid or stra			$2x (0.5 - 1.5 \text{ mm}^2) 2x (0.75 \text{ mm}^2)$	$2.5 \text{ mm}^{2}$	
	ided with core end proces	ssing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )		
-		ssing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )		
	for auxiliary contacts		2x (20 16), 2x (18 14)		
section	ed connectable conduct	tor cross			
<ul> <li>for main contact</li> </ul>	s		16 8		
<ul> <li>for auxiliary cont</li> </ul>			20 14		
afety related data					
product function					
mirror contact according to IEC 60947-4-1		Yes			
<ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul>		No			
<ul> <li>suitable for safe</li> </ul>		20 00947-5-1	Yes		
	,				
	y-related switching OFF		Yes		
service life maximum			20 a		
test wear-related serv	-		Yes		
proportion of danger		000	10.0/		
	d rate according to SN 31		40 %		
	d rate according to SN 3		73 %		
	lemand rate according t		1 000 000		
failure rate [FIT] with 31920	low demand rate accord	ding to SN	100 FIT		
ISO 13849					
device type according	g to ISO 13849-1		3		
overdimensioning ac IEC 61508	cording to ISO 13849-2	necessary	Yes		
safety device type ac	cording to IEC 61508-2		Туре А		
Electrical Safety			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	n the front according to	IEC 60529	IP20		
protection class IP or			IP20	t from the front	
protection class IP or touch protection on t	n the front according to he front according to IE			t from the front	
protection class IP or touch protection on t approvals Certificates	he front according to IE		IP20	t from the front	
protection class IP or touch protection on t	he front according to IE	EC 60529	IP20 finger-safe, for vertical contac	t from the front	
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Special Test Certificate



Environmental Confirmations

#### Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2026-1AL20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2026-1AL20

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1AL20

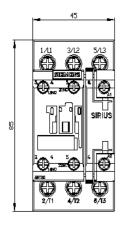
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

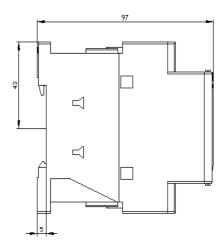
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2026-1AL20&lang=en

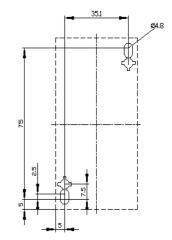
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1AL20/char Further characteristics (e.g. electrical endurance, switching frequency)

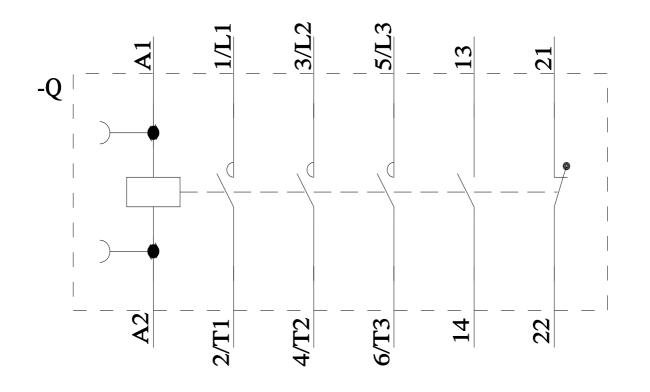
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-1AL20&objecttype=14&gridview=view1











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