## SIEMENS

## Data sheet

## 3RT2026-1AP00



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

product brand nameSIRIUSproduct designationPower contactorproduct type designation3RT2General technical dataS0size of contactor product extensionS0	
product type designation     3RT2       General technical data     S0       size of contactor     S0       product extension     S0	
General technical data       size of contactor       product extension	
size of contactor S0 product extension	
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     9.8 W	
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 safe isolation between 400 V coil and main contacts according to EN 60947-1	
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)	
of contactor typical     10 000 000	
of the contactor with added electronically optimized 5 000 000 auxiliary switch block typical	
of the contactor with added auxiliary switch block     10 000 000     typical	
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 95 % maximum	
Main circuit	

number of poles for main current circuit	3
number of NO contacts for main contacts	3
<ul> <li>operating voltage</li> <li>at AC-3 rated value maximum</li> </ul>	600 V
<ul> <li>at AC-3 rated value maximum</li> <li>at AC-3e rated value maximum</li> </ul>	690 V 690 V
operational current	090 V
• at AC-1 at 400 V at ambient temperature 40 °C	40 A
rated value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C	40 A
rated value $100 \text{ V}$ at ambient temperature 60 °C	35 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
<ul> <li>at AC-4 at 400 V rated value</li> <li>at AC-5a up to 690 V rated value</li> </ul>	15.5 A 35.2 A
<ul> <li>at AC-5a up to 050 V rated value</li> <li>at AC-5b up to 400 V rated value</li> </ul>	20.7 A
• at AC-6a	20.17
— up to 230 V for current peak value n=20 rated	20.2 A
value	00.0.4
— up to 400 V for current peak value n=20 rated value	20.2 A
<ul> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	20.2 A
— up to 690 V for current peak value n=20 rated	12.9 A
value	
• at AC-6a	10 E A
<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	13.5 A
value — up to 690 V for current peak value n=30 rated	13 A
value minimum cross-section in main circuit at maximum AC-1	10 mm²
rated value	
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	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— 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 — at 440 V rated value	1 A 0.4 A
— at 600 V rated value	0.4 A 0.25 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	0.20 A
— 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	05.4
— at 24 V rated value — at 60 V rated value	35 A 35 A
	55 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
	5 A
— at 60 V rated value	
— at 220 V rated value	1 A
— 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
	0.0 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	
<ul> <li>at 400 V rated value</li> </ul>	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	10.4 KV/A
• 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
	11.6 kVA
• up to 500 V for current peak value n=30 rated value	
• 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
operating range factor control supply voltage rated	200 V
value of magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	77 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.82
apparent holding power of magnet coil at AC	
• at 50 Hz	9.8 VA
inductive power factor with the holding power of the	
coil	
• at 50 Hz	0.25
closing delay	
• at AC	8 40 ms
opening delay	
• at AC	4 16 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	1
instantaneous contact number of NO contacts for auxiliary contacts	1
instantaneous contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
<ul> <li>at 230 V rated value</li> </ul>	10 A
<ul> <li>at 400 V rated value</li> </ul>	3 A
<ul> <li>at 500 V rated value</li> </ul>	2 A
<ul> <li>at 690 V rated value</li> </ul>	1 A
operational current at DC-12	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 48 V rated value</li> </ul>	6 A
<ul> <li>at 60 V rated value</li> </ul>	6 A
<ul> <li>at 110 V rated value</li> </ul>	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	1A
• at 125 V rated value	0.3 A
at 220 V rated value	0.3 A
• at 600 V rated value	0.3  A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	21.4
at 480 V rated value     at 600 V rated value	21 A
at 600 V rated value	22 A
yielded mechanical performance [hp]	
for single-phase AC motor     at 110(120 )/ rated value	2 hz
— 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 hz
- 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
	20 hp
<ul> <li>— at 575/600 V rated value</li> <li>contact rating of auxiliary contacts according to UL</li> </ul>	A600 / P600

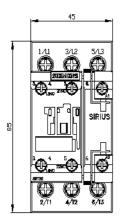
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 100 A (415
	V, 80 kA)
- with type of assignment 2 required	gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V,
	80kA)
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 10 A (500 V, 1 kA)
required	
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	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
lastening method	60715
<ul> <li>side-by-side mounting</li> </ul>	Yes
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
<ul> <li>for grounded parts</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
<ul> <li>for live parts</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
• for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
<ul> <li>of magnet coil type of connectable conductor cross-sections for main</li> </ul>	Screw-type terminals
contacts	
• solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
solid or stranded	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>
connectable conductor cross-section for main	
contacts	
• solid	1 10 mm <sup>2</sup>
• stranded	1 10 mm <sup>2</sup>
finely stranded with core end processing	1 10 mm <sup>2</sup>
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 2.5 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross	
section	
for main contacts	16 8
<ul> <li>for auxiliary contacts</li> </ul>	20 14
for auxiliary contacts Safety related data product function	20 14

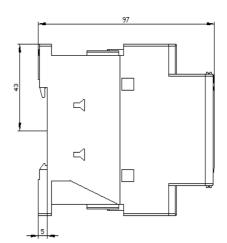
Subject to change without notice © Copyright Siemens

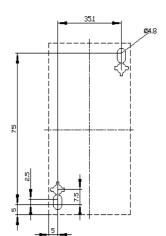
B10 value with high of proportion of dange • with low demar • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508 protection class IP of 60529	nd rate according to SN and rate according to SN low demand rate accord at interval or service life a <b>on the front according</b> <b>the front according to</b> switching OFF	o SN 31920 31920 31920 ling to SN according to to IEC	Yes 450 000 40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical con Yes	tact from the front	
SP SA	CCC	<u>Confirmatio</u>		<u>KC</u>	EHC
EMC	Functional Safety/Safety of Machinery	Declaration o	f Conformity	Test Certificates	
RCM	<u>Type Examination</u> <u>Certificate</u>	UK CA	C E EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>
ABS	BUREAU VERITAS		Llovds Register urs	RINA	RMRS
other			Railway		
<u>Confirmation</u>		<u>Confirmatio</u>	n <u>Vibration and Shock</u>		
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=3RT2026-1AP00 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2026-1AP00 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1AP00 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2026-1AP00⟨=en Characteristic: Tripping characteristics, P <sup>2</sup> t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1AP00/char Further characteristics (e.g. electrical endurance, switching frequency)					

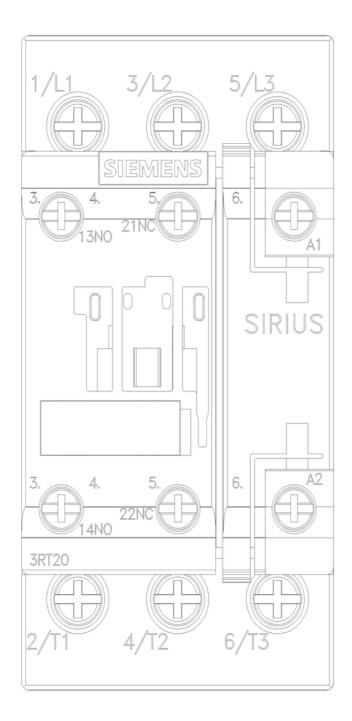
2/13/2023 **SIEMENS KALA** 

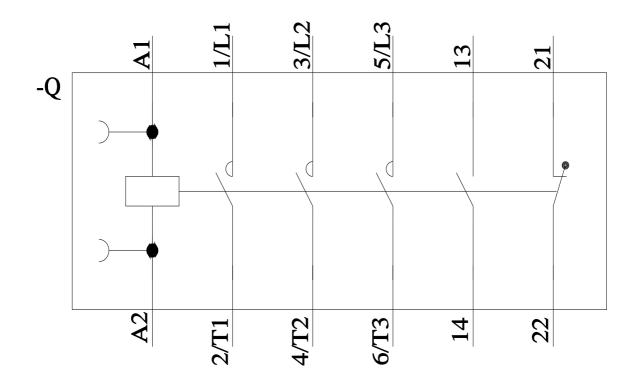
Subject to change without notice © Copyright Siemens











last modified:

2/10/2023 🖸