SIEMENS

Data sheet

3RT2035-1NB30-0CC0



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 20-33 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2, communication-capable

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
	C2
size of contactor	S2
product extension	N
function module for communication	Yes
auxiliary switch	Yes
power loss [W] for rated value of the current	
at AC in hot operating state	6.6 W
 at AC in hot operating state per pole 	2.2 W
without load current share typical	2 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 protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7.7g / 5 ms, 4.5g / 10 ms
• at DC	7.7g / 5 ms, 4.5g / 10 ms
shock resistance with sine pulse	
• at AC	12g / 5 ms, 7g / 10 ms
• at DC	12g / 5 ms, 7g / 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)	10/01/2014
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 %

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	60 A			
• at AC-1				
— up to 690 V at ambient temperature 40 °C rated value	60 A			
— up to 690 V at ambient temperature 60 °C rated value	55 A			
• at AC-3				
— at 400 V rated value	41 A			
— at 500 V rated value	41 A			
— at 690 V rated value • at AC-3e	24 A			
— at 400 V rated value	41 A			
— at 500 V rated value	41 A			
— at 690 V rated value	24 A			
• at AC-4 at 400 V rated value	35 A			
• at AC-5a up to 690 V rated value	52.8 A			
• at AC-5b up to 400 V rated value	33.2 A			
• at AC-6a				
— up to 230 V for current peak value n=20 rated value	36.5 A			
— up to 400 V for current peak value n=20 rated value	36.5 A			
— up to 500 V for current peak value n=20 rated value	36.5 A			
— up to 690 V for current peak value n=20 rated value	24 A			
● at AC-6a				
— up to 230 V for current peak value n=30 rated value	24.2 A			
— up to 400 V for current peak value n=30 rated value	24.2 A			
— up to 500 V for current peak value n=30 rated value	24.2 A			
— up to 690 V for current peak value n=30 rated value	24 A			
minimum cross-section in main circuit at maximum AC-1 rated value	16 mm ²			
operational current for approx. 200000 operating cycles at AC-4				
• at 400 V rated value	22 A			
at 690 V rated value	18.5 A			
operational current				
• at 1 current path at DC-1				
— at 24 V rated value	55 A			
— at 60 V rated value	23 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	55 A			
— at 60 V rated value	45 A			
— at 110 V rated value — at 220 V rated value	45 A 5 A			
— at 220 V rated value — at 440 V rated value	5 A 1 A			
— at 600 V rated value	0.8 A			
with 3 current paths in series at DC-1				
- at 24 V rated value	55 A			
— at 60 V rated value	55 A			
— at 110 V rated value	55 A			
— at 220 V rated value	45 A			
— at 440 V rated value	2.9 A			
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— at 600 V rated value	1.4 A			
 at 1 current path at DC-3 at DC-5 				
— at 24 V rated value	35 A			
— at 60 V rated value	6 A			
— at 220 V rated value	1 A			
— at 440 V rated value	0.1 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	55 A			
— at 60 V rated value	45 A			
— at 110 V rated value	25 A			
— at 220 V rated value	5 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	55 A			
— at 60 V rated value	55 A			
— at 110 V rated value	55 A			
— at 220 V rated value	25 A			
— at 440 V rated value	0.6 A			
— at 600 V rated value	0.35 A			
operating power				
 at AC-2 at 400 V rated value 	18.5 kW			
• at AC-3				
— at 230 V rated value	11 kW			
— at 400 V rated value	18.5 kW			
— at 500 V rated value	22 kW			
— at 690 V rated value	22 kW			
• at AC-3e				
— at 230 V rated value	11 kW			
— at 400 V rated value	18.5 kW			
— at 500 V rated value	22 kW			
— at 690 V rated value	22 kW			
operating power for approx. 200000 operating cycles at AC- 4				
at 400 V rated value	11.6 kW			
at 690 V rated value	16.8 kW			
operating apparent power at AC-6a				
 up to 230 V for current peak value n=20 rated value 	14.5 kVA			
 up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value 	14.5 kVA 25.2 kVA			
• up to 400 V for current peak value n=20 rated value				
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● at AC-3e maximum	1 000 1/h
• at AC-3 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	20 33 V
at 60 Hz rated value	20 33 V
control supply voltage at DC	
rated value	20 33 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
inrush current peak	3 A
duration of inrush current peak	50 µs
locked-rotor current mean value	1A
locked-rotor current peak	2.6 A
duration of locked-rotor current	230 ms
holding current mean value	40 mA
apparent pick-up power of magnet coil at AC	40.1/4
• at 50 Hz	40 VA
at 60 Hz	40 VA
apparent holding power of magnet coil at AC • at 50 Hz	2 VA
• at 50 Hz • at 60 Hz	2 VA 2 VA
closing power of magnet coil at DC	23 W
holding power of magnet coil at DC	1 W
closing delay	
• at AC	35 110 ms
• at DC	35 110 ms
opening delay	
• at AC	30 55 ms
• at DC	30 55 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2, optionally via function module
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 2 A
at 125 V rated value	2 A 1 A
at 220 V rated value at 600 V rated value	1 A 0 15 A
at 600 V rated value operational current at DC-13	0.15 A
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	0.9 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)			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
• at 480 V rated value	40 A			
at 600 V rated value	41 A			
yielded mechanical performance [hp]				
 for single-phase AC motor 				
— at 110/120 V rated value	3 hp			
— at 230 V rated value	7.5 hp			
 for 3-phase AC motor 				
— at 200/208 V rated value	10 hp			
— at 220/230 V rated value	15 hp			
— at 460/480 V rated value	30 hp			
— at 575/600 V rated value	40 hp			
contact rating of auxiliary contacts according to 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: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)			
 — with type of assignment 2 required 	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)			
 for short-circuit protection of the auxiliary switch required 	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	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
side-by-side mounting	Yes			
height	114 mm			
width	55 mm			
depth	130 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				
— 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			
 for auxiliary and control circuit 	screw-type terminals			
 at contactor for auxiliary contacts 	Screw-type terminals			
of magnet coil				
type of connectable conductor cross-sections for main contacts	Screw-type terminals			
	Screw-type terminals			
solid or stranded	Screw-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²)			

 finely stranded with core end processing 	1 35 mm²				
connectable conductor cross-section for auxiliary contacts					
 solid or stranded 	0.5 2.5 mm ²				
 finely stranded with core end processing 	0.5 2.5 mm²				
type of connectable conductor cross-sections					
 for auxiliary contacts 					
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
 finely stranded with core end processing 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)				
 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)				
AWG number as coded connectable conductor cross section					
 for main contacts 	18 1				
 for auxiliary contacts 	20 14				
afety related data					
product function					
 mirror contact according to IEC 60947-4-1 	Yes				
 positively driven operation according to IEC 60947-5-1 	No				
B10 value with high demand rate according to SN 31920	1 000 000				
proportion of dangerous failures					
 with low demand rate according to SN 31920 	40 %				
 with high demand rate according to SN 31920 	73 %				
failure rate [FIT] with low demand rate according to SN 31920	100 FIT				
T1 value for proof test interval or service life according to IEC 61508	20 a				
protection class IP on the front according to IEC 60529	IP20				
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front				
suitability for use					
 safety-related switching OFF 	Yes				
ertificates/ approvals					
General Product Approval					

SP SA		<u>Confirmation</u>		KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conform	nity	Test Certificates	
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report
Marine / Shipping					
ABS	B U R E A U VERITAS		Lloyd's Register urs	PRS	RINA
Marine / Shipping	other		Railway	Dangerous Good	Environment
KMRS	<u>Confirmation</u>	<u>Confirmation</u>	<u>Vibration and Shock</u>	Transport Information	<u>Environmental Con-</u> <u>firmations</u>

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RT2035-1NB30-0CC0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-1NB30-0CC0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1NB30-0CC0

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

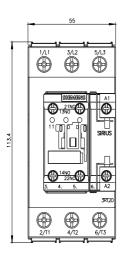
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2035-1NB30-0CC0&lang=en

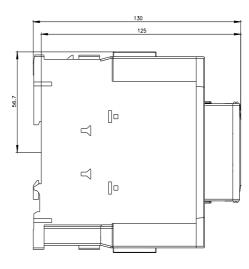
Characteristic: Tripping characteristics, I²t, Let-through current

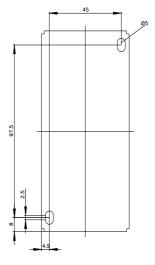
https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1NB30-0CC0/char

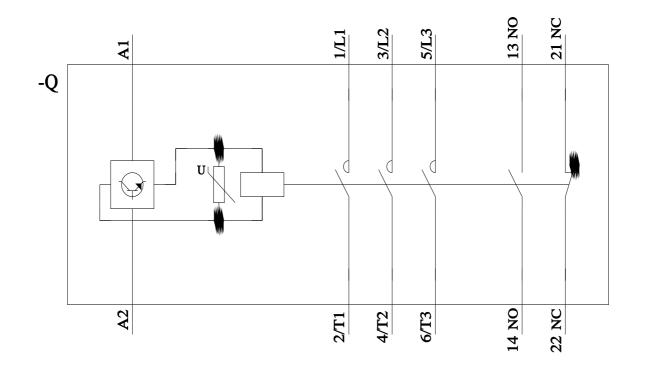
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-1NB30-0CC0&objecttype=14&gridview=view1









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