SIEMENS

Data sheet

3RT2035-3NP30



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 175-280 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2,

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
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 	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 400 V for current peak value n=20 rated value 	25.2 kVA
 up to 500 V for current peak value n=20 rated value 	31.6 kVA
 up to 690 V for current peak value n=20 rated value 	28.6 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	9.6 kVA
 up to 400 V for current peak value n=30 rated value 	16.8 kVA
 up to 500 V for current peak value n=30 rated value 	21 kVA
 up to 690 V for current peak value n=30 rated value 	28.6 kVA
short-time withstand current in cold operating state up to 40 $^\circ\mathrm{C}$	
 limited to 1 s switching at zero current maximum 	843 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	596 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 10 s switching at zero current maximum	400 A; Use minimum cross-section acc. to AC-1 rated value
-	400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum 	400 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency	400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value
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 limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC at DC 	400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value
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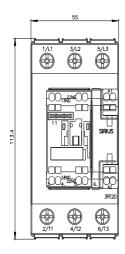
• # 2-4 maxmum300 1/hCentral decad (Sector Upp) voltage at ACACDC• # 60 H rande value175 280 V• # 60 H rande value175 280 V• # 60 H rande value75 280 V• # 61 H rande value0.6• # 61 H rande value0.7• # 61 H rande value0.7	• at AC-3e maximum	1 000 1/h
Control Linguage ALC Image: Control Supply voltage ALC • 16 D0 Frande value 175 280 V • • 61 D0 Frande value 175 280 V • • 61 D0 Frande value 175 280 V • • 61 d0 Frande value 0.8 • • 61 d0 Frande value 0.2 A • 0 do Frande value 0.2 A		
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• at DC30 55 msarcing time10 20 mscontrol version of the switch operating mechanismStandard A1 - A2Auxiliary circuit1number of NC contacts for auxiliary contacts instantaneous contact1number of NC contacts for auxiliary contacts instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-150• at 230 V rated value10 A• at 400 V rated value2A• at 690 V rated value10 Aoperational current at DC-120• at 24 V rated value10 A• at 48 V rated value6A• at 110 V rated value3A• at 125 V rated value3A• at 125 V rated value10 A• at 125 V rated value10 A• at 125 V rated value10 A• at 220 V rated value10 A• at 125 V rated value10 A• at 600 V rated value10 A		20 55 mg
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Auxiliary circuit 1 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 0 • at 230 V rated value 10 A • at 200 V rated value 2 A • at 600 V rated value 1 A operational current at DC-12 0 • at 24 V rated value 1 A operational current at DC-12 0 A • at 24 V rated value 10 A • at 400 V rated value 1 A operational current at DC-12 0 A • at 24 V rated value 6 A • at 60 V rated value 3 A • at 20 V rated value 1 A operational current at DC-12 0 A • at 24 V rated value 6 A • at 60 V rated value 2 A • at 20 V rated value 1 A • at 220 V rated value 2 A • at 220 V rated value 1 A • at 600 V rated value 0.15 A		
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operational current at AC-15• at 230 V rated value10 A• at 400 V rated value3 A• at 400 V rated value2 A• at 500 V rated value1 Aoperational current at DC-1210 A• at 24 V rated value6 A• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value1 A• at 600 V rated value1 A• at 600 V rated value1 A	contact	
• at 230 V rated value10 A• at 400 V rated value3 A• at 500 V rated value2 A• at 690 V rated value1 A• operational current at DC-12•• at 24 V rated value6 A• at 48 V rated value6 A• at 60 V rated value3 A• at 25 V rated value3 A• at 125 V rated value1 A• at 125 V rated value1 A• at 220 V rated value2 A• at 600 V rated value1 A• at 220 V rated value2 A• at 600 V rated value1 A• at 600 V rated value2 A• at 220 V rated value1 A• at 600 V rated value1 A	•	10 A
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• at 500 V rated value2 A• at 690 V rated value1 Aoperational current at DC-12-• at 24 V rated value10 A• at 48 V rated value6 A• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value1 A• at 220 V rated value1 A• at 600 V rated value1 A• at 600 V rated value1 A• at 600 V rated value0.15 A		
• at 690 V rated value1 Aoperational current at DC-12• at 24 V rated value10 A• at 48 V rated value6 A• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A		
operational current at DC-12• at 24 V rated value10 A• at 48 V rated value6 A• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A	• at 500 V rated value	
• at 24 V rated value10 A• at 48 V rated value6 A• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A		1A
• at 48 V rated value6 A• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A	operational current at DC-12	
• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A		
• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A		
• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A	• at 60 V rated value	
at 220 V rated value 1 A 0.15 A	• at 110 V rated value	3 A
• at 600 V rated value 0.15 A	• at 125 V rated value	2 A
	• at 220 V rated value	1 A
opprational current at DC 13	• at 600 V rated value	0.15 A
	operational current at DC-13	
• at 24 V rated value 10 A	• at 24 V rated value	10 A
• at 48 V rated value 2 A	at 48 V rated value	2 A

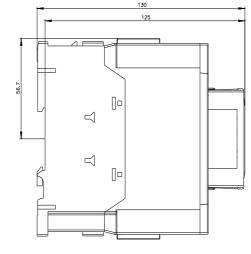
- at CO \/ rated welling		
at 60 V rated value	2 A	
at 110 V rated value	1A	
• at 125 V rated value	0.9 A	
at 220 V rated value	0.3 A	
at 600 V rated value	0.1 A	
contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA)		
UL/CSA ratings		
full-load current (FLA) for 3-phase 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 	spring-loaded terminals	
 at contactor for auxiliary contacts 		
 of magnet coil 	Spring-type terminals	
• of magnet con	Spring-type terminals Spring-type terminals	
type of connectable conductor cross-sections for main contacts		
type of connectable conductor cross-sections for main contacts	Spring-type terminals	

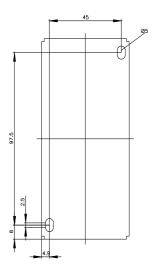
 finely stranded w 	ith core end processing		1 35 mm²		
connectable conducto	connectable conductor cross-section for auxiliary contacts				
 solid or stranded 			0.5 2.5 mm ²		
 finely stranded with core end processing 		0.5 1.5 mm²			
 finely stranded w 	 finely stranded without core end processing 		0.5 2.5 mm²		
type of connectable co	onductor cross-section	s			
 for auxiliary containing 	acts				
— solid or stra	inded		2x (0.5 2.5 mm²)		
— finely strand	ded with core end proces	sing	2x (0.5 1.5 mm²)		
— finely strand	ded without core end proc	cessing	2x (0.5 2.5 mm²)		
 for AWG cables f 	for auxiliary contacts		2x (20 14)		
	d connectable conduct	or cross			
section			40 4		
for main contacts			18 1		
for auxiliary conta	acts		20 14		
Safety related data					
product function			N.		
	cording to IEC 60947-4-1		Yes		
	operation according to IE		No		
	mand rate according to S	N 31920	1 000 000		
proportion of dangero			10.0/		
	rate according to SN 319		40 %		
	d rate according to SN 31		73 %		
	w demand rate according		100 FIT		
61508	nterval or service life acco	ording to IEC	20 a		
protection class IP on	the front according to	IEC 60529	IP20		
touch protection on th	ne front according to IE	C 60529	finger-safe, for vertical co	ntact from the front	
suitability for use					
 safety-related sw 	ritching OFF	 safety-related switching OFF 			
			Yes		
Certificates/ approvals					
Certificates/ approvals General Product Appr	roval				
	roval Confirmation	(m)		Miscellaneous	KC
)	(h)	Miscellaneous	KC
			<u>U</u>	Miscellaneous	KC
		(CCC)	UL UL	Miscellaneous	KC
			UL UL	Miscellaneous	KC
General Product Appr	Confirmation	CCC Functional Safety/Safety of	UL		
General Product Appr		CCC Functional Safety/Safety o chinery	UL		KC Test Certificates
General Product Appr	Confirmation	Safety/Safety o chinery	f Ma- Declaration of C		
General Product Appr	Confirmation	Safety/Safety o chinery Type Examination	f Ma- Declaration of C		Test Certificates
General Product Appr	Confirmation	Safety/Safety o chinery	f Ma- Declaration of C		Test Certificates
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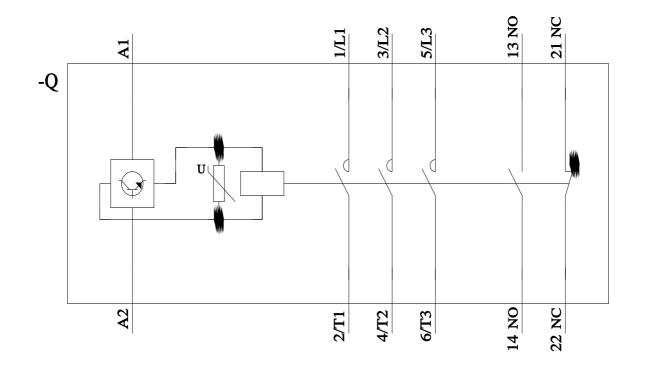
Further information	
Siemens has decided to exit the Russian market (see h https://press.siemens.com/global/en/pressrelease/siemens	
Siemens is working on the renewal of the current EAC Please contact your local Siemens office on the status of v EAC relevant market (other than the sanctioned EAEU me	alidity of the EAC certification if you intend to import or offer to supply these products to an
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/10981	<u>3875</u>
Information- and Downloadcenter (Catalogs, Brochure: https://www.siemens.com/ic10	s,)
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/produ	<u>ict?mlfb=3RT2035-3NP30</u>
Cax online generator http://support.automation.siemens.com/WW/CAXorder/defa	ault.aspx?lang=en&mlfb=3RT2035-3NP30
Service&Support (Manuals, Certificates, Characteristic https://support.industry.siemens.com/cs/ww/en/ps/3RT203	
Image database (product images, 2D dimension drawin http://www.automation.siemens.com/bilddb/cax_de.aspx?n	ıgs, 3D models, device circuit diagrams, EPLAN macros,) ∖lfb=3RT2035-3NP30⟨=en
Characteristic: Tripping characteristics, I ² t, Let-throug	n current

Characteristic: Tripping characteristics, I4t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-3NP30/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-3NP30&objecttype=14&gridview=view1









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