SIEMENS

Data sheet

3RT2035-3NF30



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 83-155 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	24 A
• at AC-3e	
— at 400 V rated value	41 A
- at 500 V rated value	41 A
- at 690 V rated value	24 A 25 A
 at AC-4 at 400 V rated value at AC-5a up to 690 V rated value 	35 A 52.8 A
at AC-5b up to 400 V rated value	33.2 A
• at AC-5b up to 400 v rated value • at AC-6a	55.2 A
 up to 230 V for current peak value n=20 rated value 	36.5 A
— up to 200 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	277
— 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	45 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	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

— 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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• up to 400 V for current peak value n=20 rated value	25.2 kVA
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● at AC-3e maximum	1 000 1/h
• at AC-4 maximum	300 1/h
at AC-4 maximum Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	92 4FE V
• at 50 Hz rated value	83 155 V
at 60 Hz rated value	83 155 V
control supply voltage at DC	20 45514
rated value	83 155 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 50 Hz	0.8 1.1
design of the surge suppressor	with varistor
	1.5 A
inrush current peak duration of inrush current peak	50 µs
locked-rotor current mean value	0.45 A
	0.45 A
locked-rotor current peak	0.8 A 230 ms
duration of locked-rotor current	
holding current mean value	12 mA
apparent pick-up power of magnet coil at AC	40 VA
• at 50 Hz	
at 60 Hz	40 VA
apparent holding power of magnet coil at AC	2.1/4
• at 50 Hz	2 VA
• at 60 Hz	2 VA
closing power of magnet coil at DC	23 W
holding power of magnet coil at DC	1 W
closing delay	25 dd0 ma
• at AC	35 110 ms
• at DC	35 110 ms
opening delay	20 55 mg
• 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
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	
• 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
	2 A

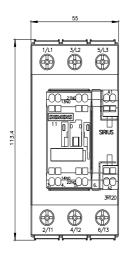
- at CO \/ rated welling			
at 60 V rated value	2 A		
at 110 V rated value	1A		
• at 125 V rated value	0.9 A		
at 220 V rated value	0.3 A		
at 600 V rated value	0.1 A		
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)		
UL/CSA ratings			
full-load current (FLA) 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		

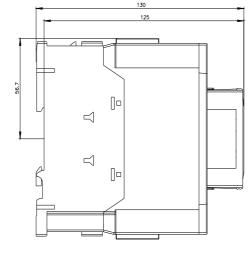
 finely stranded with 	h core end processing		1 3	5 mm²		
connectable conductor	cross-section for aux	ciliary contacts				
 solid or stranded 			0.5	. 2.5 mm²		
 finely stranded with 	h core end processing		0.5	. 1.5 mm²		
 finely stranded wit 	ely stranded without core end processing		0.5 2.5 mm²			
type of connectable co	nductor cross-section	IS				
 for auxiliary contact 	ots					
 — solid or stran 	ded		2x (0.	.5 2.5 mm²)		
— finely strande	ed with core end proces	sing	2x (0.	.5 1.5 mm²)		
— finely strande	ed without core end pro	cessing	2x (0.5 2.5 mm ²)			
 for AWG cables for 	r auxiliary contacts		2x (20 14)			
AWG number as coded	connectable conduct	or cross				
section			10	4		
for main contacts			18			
for auxiliary contact	CIS		20	14		
Safety related data			_			_
product function						
	ording to IEC 60947-4-		Yes			
	peration according to IE		No	000		
B10 value with high dem		N 31920	1 000	000		
proportion of dangerou		000	10.01			
	ate according to SN 31		40 %			
	rate according to SN 37		73 %			
failure rate [FIT] with low			100 F	11		
T1 value for proof test int 61508	terval or service life acc	oraing to IEC	20 a			
protection class IP on t	he front according to	IEC 60529	IP20			
touch protection on the	e front according to IE	C 60529	finger	-safe, for vertical contac	t from the front	
suitability for use						
 safety-related swit 	ching OFF		Yes			
Certificates/ approvals						
General Product Appro	oval					
SP.		<u>Confirmatio</u>	n	(UL)	<u>Miscellaneous</u>	KC
General Product Approval	EMC	Functional Safety/Safety c chinery	of Ma-	Declaration of Confo	ormity	Test Certificates
EHC	RCM	<u>Type Examinatio</u> <u>tificate</u>	<u>n Cer-</u>	CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report
Test Certificates	Marine / Shipping					
Special Test Certific-	and the second	AU VED				SPA.
ate	ABS	BUREAU VERITAS			Lloyds Kegister urs	PRS
Marine / Shipping		other			Railway	Dangerous Good
						24
		<u>Confirmatio</u>	n	Confirmation	Vibration and Shock	Transport Information

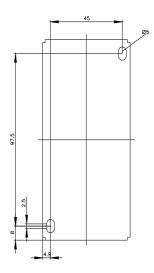
Further information	
Siemens has decided to exit the Russia https://press.siemens.com/global/en/press	n market (see here). release/siemens-wind-down-russian-business
	ne current EAC certificates. In the status of validity of the EAC certification if you intend to import or offer to supply these products to an ioned EAEU member states Russia or Belarus).
Information on the packaging https://support.industry.siemens.com/cs/w	<u>w/en/view/109813875</u>
Information- and Downloadcenter (Cata https://www.siemens.com/ic10	logs, Brochures,)
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/	en/Catalog/product?mlfb=3RT2035-3NF30
Cax online generator http://support.automation.siemens.com/W\	V/CAXorder/default.aspx?lang=en&mlfb=3RT2035-3NF30
Service&Support (Manuals, Certificates https://support.industry.siemens.com/cs/w	
	nension drawings, 3D models, device circuit diagrams, EPLAN macros,) <u>//cax_de.aspx?mlfb=3RT2035-3NF30⟨=en</u>
Characteristic: Tripping characteristics	I ² t, Let-through current

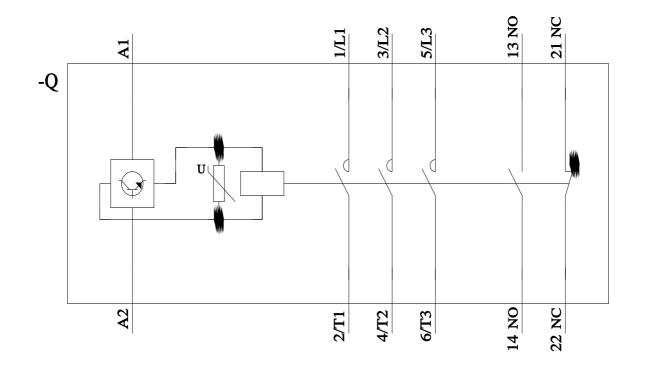
Characteristic: Tripping characteristics, Pt, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-3NF30/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-3NF30&objecttype=14&gridview=view1









last modified:

2/10/2023 🖸