SIEMENS

Data sheet

3RT2036-1NF34



power contactor, AC-3 51 A, 22 kW / 400 V 2 NO + 2 NC, AC / DC 84-155 V, with varistor, 3-pole, size S2, screw terminal

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	No
power loss [W] for rated value of the current	
 at AC in hot operating state 	12 W
 at AC in hot operating state per pole 	4 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 safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	6.1g / 5 ms, 3.7g / 10 ms
• at DC	6.1g / 5 ms, 3.7g / 10 ms
shock resistance with sine pulse	
• at AC	9.6g / 5 ms, 5.8g / 10 ms
• at DC	9.6g / 5 ms, 5.8g / 10 ms
mechanical service life (switching 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	95 %
maximum	
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 	70 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	70 A
rated value	
— up to 690 V at ambient temperature 60 °C	60 A
rated value	
• at AC-3	
- at 400 V rated value	51 A
— at 500 V rated value — at 690 V rated value	51 A 24 A
 at 690 V rated value at AC-3e 	24 A
• at AC-3e — at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-4 at 400 V rated value	41 A
at AC-5a up to 690 V rated value	61.6 A
• at AC-5b up to 400 V rated value	41.5 A
● at AC-6a	
 up to 230 V for current peak value n=20 rated value 	43.2 A
 — up to 400 V for current peak value n=20 rated value 	43.2 A
 up to 500 V for current peak value n=20 rated value 	43.2 A
— up to 690 V for current peak value n=20 rated value	24 A
• at AC-6a	00.0.4
— up to 230 V for current peak value n=30 rated value	28.8 A
 — up to 400 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated 	28.8 A 28.8 A
- up to 500 V for current peak value n=30 rated - up to 690 V for current peak value n=30 rated	24 A
minimum cross-section in main circuit at maximum AC-1	25 mm ²
rated value operational current for approx. 200000 operating	
cycles at AC-4	
• at 400 V rated value	24 A
• at 690 V rated value	20 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value — at 600 V rated value	0.4 A 0.25 A
with 2 current paths in series at DC-1	0.23 A
with 2 current paths in series at DC-1 — at 24 V rated value	55 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 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 110 V rated value	2.5 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 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	0.27 A 0.16 A				
• with 3 current paths in series at DC-3 at DC-5					
- at 24 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	20.111/				
• at AC-2 at 400 V rated value	22 kW				
• at AC-3	45 MM				
— at 230 V rated value	15 kW				
— at 400 V rated value	22 kW				
— at 500 V rated value	30 kW				
— at 690 V rated value	22 kW				
• at AC-3e					
— at 400 V rated value	22 kW				
— at 500 V rated value	30 kW				
— at 690 V rated value	22 kW				
operating power for approx. 200000 operating cycles at AC-4					
	12.6 kW				
at 400 V rated value	12.6 kW				
	40.0 L/M				
at 690 V rated value	18.2 kW				
operating apparent power at AC-6a					
operating apparent power at AC-6aup to 230 V for current peak value n=20 rated value	17.2 kVA				
 operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value 	17.2 kVA 29.9 kVA				
 operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value 	17.2 kVA 29.9 kVA 37.4 kVA				
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operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	600 1/h
 at AC-3 maximum 	800 1/h
• at AC-3e maximum	800 1/h
 at AC-4 maximum 	250 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	83 155 V
 at 60 Hz rated value 	83 155 V
control supply voltage at DC	
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 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
inrush current peak	1.5 A
duration of inrush current peak	50 µs
locked-rotor current mean value	0.45 A
locked-rotor current peak	0.8 A
duration of locked-rotor current	230 ms
holding current mean value	12 mA
apparent pick-up power of magnet coil at AC	
• at 50 Hz	40 VA
• at 60 Hz	40 VA
apparent holding power of magnet coil at AC	
• 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	
• 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
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 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	6 A			
 at 48 V rated value 	2 A			
 at 60 V rated value 	2 A			
 at 110 V rated value 	1 A			
 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	52 A			
at 600 V rated value	52 A			
yielded mechanical performance [hp]				
• for single-phase AC motor				
- at 110/120 V rated value	2 hz			
	3 hp			
— at 230 V rated value	10 hp			
• for 3-phase AC motor				
— at 200/208 V rated value	15 hp			
— at 220/230 V rated value	15 hp			
— at 460/480 V rated value	40 hp			
— at 575/600 V rated value	50 hp			
contact rating of auxiliary contacts according to UL	A600 / Q600			
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 	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 standard mounting rail according to DIN EN 60715			
- aida hu aida mayunting				
side-by-side mounting	Yes			
height	114 mm			
width	55 mm			
depth	174 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				

	Examination ertificate	JK	CE EG-Konf.	Special Test Certific- ate	Type Test Certific- ates/Test Report		
EMC Safety Machi	Safety of Decla	aration o	of Conformity	Test Certificates			
General Product Approval	<u>00</u> 	onfirmatic	on Up	KC	EAC		
safety-related switching Certificates/ approvals	OFF		Yes	_	_		
suitability for use							
60529	protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529		IP20 finger-safe, for vertical contact from the front				
T1 value for proof test interval IEC 61508	T1 value for proof test interval or service life according to		20 y				
with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920		73 % 100 FIT					
with low demand rate according to SN 31920 with bigh demand rate according to SN 31920		40 % 73 %					
proportion of dangerous failures							
 mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947- 5-1 B10 value with high demand rate according to SN 31920 			Yes No 1 000 000				
product function							
Safety related data							
 for main contacts for auxiliary contacts 	for main contacts		18 1 20 14				
AWG number as coded conn section		ross					
 at AWG cables for auxilia 			2x (0.5 1.5 min), 2x (0.75 2x (20 16), 2x (18 14)				
— solid or stranded — finely stranded with	core end processing		2x (0.5 1.5 mm²), 2x (0.75 2x (0.5 1.5 mm²), 2x (0.75	,			
 for auxiliary contacts 	01 01033-360110113						
finely stranded with core type of connectable conduct			0.5 2.5 mm²				
contactssolid or stranded		,	0.5 2.5 mm²				
 finely stranded with core 	finely stranded with core end processing connectable conductor cross-section for auxiliary			1 35 mm²			
connectable conductor cross contacts			2x (18 2), 1x (18 1)				
 — solid or stranded — finely stranded with core end processing at AWG cables for main contacts 		2x (1 35 mm ²), 1x (1 50 mm ²) 2x (1 25 mm ²), 1x (1 35 mm ²) 2x (49 - 2) 1x (49 - 4)					
• for main contacts	or cross-sections						
 of magnet coil 			Screw-type terminals				
 for auxiliary and control at contactor for auxiliary 			screw-type terminals Screw-type terminals				
• for main current circuit	,		screw-type terminals				

Marine / Shipping



Further information

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=3RT2036-1NF34

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-1NF34

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1NF34

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

 $\underline{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2036-1NF34\&lang=enderseterender$

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1NF34/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-1NF34&objecttype=14&gridview=view1

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