SIEMENS

Data sheet

3RT1066-2AF36



power contactor, AC-3e/AC-3 300 A, 160 kW / 400 V, AC (50-60 Hz) / DC Uc: 110-127 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: spring-loaded terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S10
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	66 W
 at AC in hot operating state per pole 	22 W
without load current share typical	7.4 W
insulation voltage	
of main circuit with degree of pollution 3 rated value	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	500 V
surge voltage resistance	
of main circuit rated value	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
● at DC	13,4g / 5 ms, 6,5g / 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)	05/01/2012
SVHC substance name	Blei - 7439-92-1
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 %

naximum		
ain 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 	1 000 V	
 at AC-3e rated value maximum 	1 000 V	
operational current		
• at AC-1 at 400 V at ambient temperature 40 °C rated value	330 A	
• at AC-1		
— up to 690 V at ambient temperature 40 °C rated value	330 A	
— up to 690 V at ambient temperature 60 °C rated value	300 A	
— up to 1000 V at ambient temperature 40 °C rated value	150 A	
— up to 1000 V at ambient temperature 60 °C rated value	150 A	
• at AC-3	000 4	
— at 400 V rated value	300 A	
— at 500 V rated value	300 A	
— at 690 V rated value	280 A	
— at 1000 V rated value	95 A	
• at AC-3e		
— at 400 V rated value	300 A	
— at 500 V rated value	300 A	
— at 690 V rated value	280 A	
— at 1000 V rated value	95 A	
 at AC-4 at 400 V rated value 	280 A	
 at AC-5a up to 690 V rated value 	290 A	
 at AC-5b up to 400 V rated value 	249 A	
● at AC-6a		
— up to 230 V for current peak value n=20 rated value	292 A	
— up to 400 V for current peak value n=20 rated value	292 A	
 — up to 500 V for current peak value n=20 rated value 	292 A	
— up to 690 V for current peak value n=20 rated value	280 A	
 — up to 1000 V for current peak value n=20 rated value 	95 A	
● at AC-6a		
 — up to 230 V for current peak value n=30 rated value 	195 A	
 — up to 400 V for current peak value n=30 rated value 	195 A	
 up to 500 V for current peak value n=30 rated value 	195 A	
— up to 690 V for current peak value n=30 rated value	195 A	
 — up to 1000 V for current peak value n=30 rated value 	95 A	
ninimum cross-section in main circuit at maximum AC-1 rated ralue	185 mm²	
operational current for approx. 200000 operating cycles at AC-4		
• at 400 V rated value	125 A	
at 690 V rated value	115 A	
operational current		
 at 1 current path at DC-1 		
— at 24 V rated value	300 A	
— at 60 V rated value	300 A	
— at 110 V rated value	33 A	
— at 220 V rated value	3.8 A	
— at 440 V rated value	0.9 A	
— at 600 V rated value	0.6 A	
 with 2 current paths in series at DC-1 		
— at 24 V rated value	300 A	
— at 60 V rated value	300 A	

— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	300 A
— at 60 V rated value	11 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
with 2 current paths in series at DC-3 at DC-5	0.1207
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
	0.57 A
with 3 current paths in series at DC-3 at DC-5 at 24 V rated value	300 A
— at 24 V rated value	300 A
— at 60 V rated value	
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
• at AC-3	00.144
— at 230 V rated value	90 kW
— at 400 V rated value	160 kW
— at 500 V rated value	200 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
• at AC-3e	00.144
— at 230 V rated value	90 kW
— at 400 V rated value	160 kW
— at 500 V rated value	200 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
operating power for approx. 200000 operating cycles at AC- 4	
at 400 V rated value	71 kW
at 690 V rated value	112 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	110 000 kVA
• up to 400 V for current peak value n=20 rated value	200 000 VA
• up to 500 V for current peak value n=20 rated value	250 000 VA
• up to 690 V for current peak value n=20 rated value	330 000 VA
up to 1000 V for current peak value n=20 rated value	160 000 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	70 000 VA
 up to 250 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 	130 000 VA
 up to 500 V for current peak value n=30 rated value up to 600 V for current peak value n=30 rated value 	160 000 VA
• up to 690 V for current peak value n=30 rated value	230 000 VA
 up to 1000 V for current peak value n=30 rated value 	160 000 VA

• Initials to 1s existing at 2ero current maximum 552 A. Use minimum cross-section act: b AC-1 rated value • Initials to 16 s existing at 2ero current maximum 153 A. Use minimum cross-section act: b AC-1 rated value • Initials to 16 s existing at 2ero current maximum 158 A. Use minimum cross-section act: b AC-1 rated value • Initials to 16 s existing at 2ero current maximum 148 A. Use minimum cross-section act: b AC-1 rated value • Initials to 16 s existing at 2ero current maximum 148 A. Use minimum cross-section act: b AC-1 rated value • Initial to 17 section 2000 1/h 2000 1/h • Initial to 16 section 2000 1/h 2000 1/h • Initial to 16 section 2000 1/h 2000 1/h • Initial to 16 section 2000 1/h 2000 1/h • Initial to 16 section 2000 1/h 2000 1/h • Initial to 16 section 2000 1/h 2000 1/h • Initial to 16 section 2000 1/h 2000 1/h • Initial to 16 section 2000 1/h 2000 1/h • Initial to 16 section 2000 1/h 2000 1/h • Initial to 16 section 2000 1/h 2000 1/h • Initial to 16 section 2000 1/h 2000 1/h • Initial to 16 section 2000 1/h 2000 1/h • Initial to 16 section 2000 1/h 100 - 127 V	40 °C				
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• # AC 2 000 th • eit DC 2 000 th operating frequency	-				
• # AC 2 000 th • eit DC 2 000 th operating frequency	no-load switching frequency				
operating requency - • at AC-1 maximum 250 1h • at AC-2 maximum 500 1h • at AC-3 maximum 500 1h • at AC-3 maximum 500 1h • at AC-3 maximum 500 1h • at AC-4 maximum 10 • at AC-4 maximum 11 • at AC-4 maximum 11 <t< th=""><td></td><td>2 000 1/h</td></t<>		2 000 1/h			
• at AC-1 maximum 750 th • at AC-2 maximum 250 th • at AC-3 maximum 500 th • at AC-3 maximum 500 th • at AC-4 maximum 600 th • at AC-4 maximum 500 th • at AC-4 maximum 600 th • at AC-4 maximum 600 th • at AC-4 maximum 100127 V • at AC-4 maximum 110127 V • at AC-4 maximum 1.1 • at AC-4 maximum 0.8 • at AC-4 maximum <td>● at DC</td> <td>2 000 1/h</td>	● at DC	2 000 1/h			
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• at 60 Hz 0.9					
closing power of magnet coil at DC 650 W					
	closing power of magnet coil at DC	650 W			

holding power of magnet coil at DC	7.4 W
closing delay	
• at AC	30 95 ms
• at DC	30 95 ms
opening delay	
• at AC	40 80 ms
• at DC	40 80 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	2
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	1A
operational current at DC-12	
at 24 V rated value	10 A
	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
• 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	302 A
at 600 V rated value	289 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— at 200/208 V rated value	100 hp
— at 220/230 V rated value	125 hp
— at 460/480 V rated value	250 hp
— at 575/600 V rated value	300 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: 500 A (690 V, 100 kA)
- with type of assignment 2 required	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50
for short-circuit protection of the auxiliary switch required	kA) gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
side-by-side mounting	Yes
	100
	210 mm
height width	210 mm 145 mm

auirod spacing	202 mm			
equired spacing				
with side-by-side mounting forwards	20 mm			
— forwards	20 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	0 mm			
• for grounded parts				
— forwards	20 mm			
— upwards	10 mm			
— at the side	10 mm			
— downwards	10 mm			
• for live parts				
— forwards	20 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	10 mm			
onnections/ Terminals				
type of electrical connection				
for main current circuit	Connection bar			
 for auxiliary and control circuit 	spring-loaded terminals			
at contactor for auxiliary contacts	Spring-type terminals			
of magnet coil	Spring-type terminals			
width of connection bar	25 mm			
thickness of connection bar	6 mm			
diameter of holes	11 mm			
number of holes	1			
connectable conductor cross-section for main contacts				
stranded	70 240 mm²			
connectable conductor cross-section for auxiliary contacts				
 solid or stranded 	0.25 2.5 mm ²			
 finely stranded with core end processing 	0.25 1.5 mm²			
 finely stranded without core end processing 	0.25 2.5 mm ²			
type of connectable conductor cross-sections				
 for auxiliary contacts 				
— solid	2x (0.25 2.5 mm²)			
— solid or stranded	2x (0,25 2,5 mm²)			
 finely stranded with core end processing 	2x (0.25 1.5 mm²)			
 finely stranded without core end processing 	2x (0.25 2.5 mm²)			
 for AWG cables for auxiliary contacts 	2x (24 14)			
AWG number as coded connectable conductor cross section				
for auxiliary contacts	24 14			
fety related data				
product function				
 mirror contact according to IEC 60947-4-1 	Yes			
 positively driven operation according to IEC 60947-5-1 	No			
suitability for use safety-related switching OFF	Yes			
310 value with high demand rate according to SN 31920	1 000 000			
1 value for proof test interval or service life according to IEC 1508	20 a			
rotection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover			
	finger-safe, for vertical contact from the front with box terminal/cover			
touch protection on the front according to IEC 60529				
touch protection on the front according to IEC 60529 ertificates/ approvals				

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EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conformity		Test Certificates	
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report
Marine / Shipping					other
ABS	Lloyd's Register urs	PRS	RMRS RMRS	DNV-GL ENVELCORD	<u>Miscellaneous</u>
other			Railway		Environment
<u>Confirmation</u>	Confirmation	Miscellaneous	Special Test Certific- ate	Vibration and Shock	Environmental Con- firmations

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=3RT1066-2AF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1066-2AF36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-2AF36

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

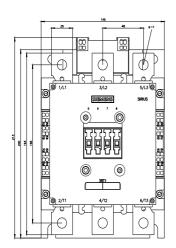
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1066-2AF36&lang=en

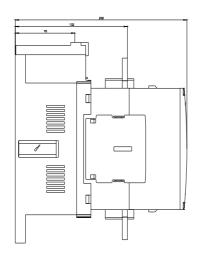
Characteristic: Tripping characteristics, I²t, Let-through current

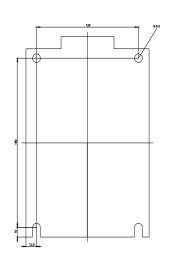
https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-2AF36/char

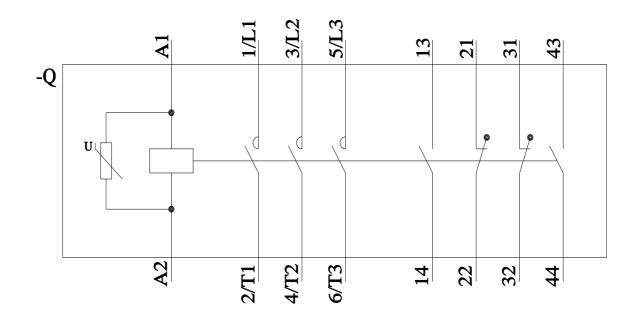
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1066-2AF36&objecttype=14&gridview=view1









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