SIEMENS

Data sheet

3RT1066-6AF36



Power contactor, AC-3 300 A, 160 kW / 400 V AC (50-60 Hz) / DC operation 110-127 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S10 Busbar connections Drive: conventional screw 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		
per pole	22 W		
power loss [W] for rated value of the current without load current share typical	7.4 W		
surge voltage resistance			
 of main circuit rated value 	8 kV		
of auxiliary circuit rated value	6 kV		
maximum permissible voltage for safe isolation betweencoil and main contacts acc. 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 (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 acc. to IEC 81346-2	Q		
Substance Prohibitance (Date)	01.05.2012 00:00:00		
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		
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	1 000 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C 	330 A
rated value	
● at AC-1	
— up to 690 V at ambient temperature 40 °C	330 A
rated value	
— up to 690 V at ambient temperature 60 °C rated value	300 A
	150 A
 — up to 1000 V at ambient temperature 40 °C rated value 	150 A
— up to 1000 V at ambient temperature 60 °C	150 A
rated value	
• at AC-3	
— 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 	292 A
value	
 — up to 400 V for current peak value n=20 rated 	292 A
value	
 up to 500 V for current peak value n=20 rated 	292 A
value	280 A
 — up to 690 V for current peak value n=20 rated value 	200 A
— up to 1000 V for current peak value n=20 rated	95 A
value	
● at AC-6a	
 up to 230 V for current peak value n=30 rated 	195 A
value	405.4
 — 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	195 A
value	
— up to 690 V for current peak value n=30 rated	195 A
value	
— up to 1000 V for current peak value n=30 rated	95 A
value minimum cross-section in main circuit at maximum AC-1	185 mm ²
rated value	
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	200 4
— at 24 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 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	4 A

		2 A				
	 with 3 current paths in series at DC-1 					
	— at 24 V rated value	300 A				
 - at 400 V risted value 52.A - at 600 V risted value 52.A - at 240 V risted value - at 10 V risted value - at 110 V risted value - at 240 V risted value - at 240 V risted value - at 600 V risted value - at 240 V risted value - at 250 V risted value - at 250 V risted value - at 260 V risted value - at 220 V risted value - at 230 V risted value 	— at 110 V rated value					
	— at 220 V rated value					
operational current • at 1 current path at DC-3 at DC-5	— at 440 V rated value					
• at 1 current path at DC-3 at DC-5	— at 600 V rated value	5.2 A				
	operational current					
- al 100 V rated value3 A- al 220 V rated value0.6 A- al 400 V rated value0.18 A- al 600 V rated value0.125 A- al 724 V rated value300 A- al 220 V rated value25 A- al 4100 V rated value0.05 A- al 420 V rated value0.05 A- al 420 V rated value0.05 A- al 440 V rated value0.05 A- al 420 V rated value0.05 A- al 440 V rated value0.05 A- al 420 V rated value0.05 A- al 420 V rated value0.00 A- al 420 V rated value300 A- al 420 V rated value100 A- al 420 V rated value0.75 A- al 420 V rated value100 KW- al 420 V rated value100 KW- al 420 V rated value200 kW- al 420 V rated value100 KW- al 420 V rated value100 KW- al 420 V rated value200 kW- al 420 V rated value110 V rated value- al 420 V rated value200 kW- al 420 V rated value110 V rated value- al 420 V rated value110 V rated value- al 420 V rated value200 kW- al 420 V rated value <t< td=""><td> at 1 current path at DC-3 at DC-5 </td><td></td></t<>	 at 1 current path at DC-3 at DC-5 					
	— at 24 V rated value	300 A				
	— at 110 V rated value	3 A				
	— at 220 V rated value	0.6 A				
 with 2 current paths in series at DC-3 at DC-5 at 24 V rated value 300 A at 220 V rated value 25 A at 400 V rated value 0.86 A at 400 V rated value 0.37 A with 3 current paths in series at DC-3 at DC-5 at 24 V rated value 300 A at 400 V rated value 300 A at 40 V rated value 40 V rated value 400 V for current peak value n=20 rated value 400 V for current peak value n=20 rated value 400 V for current peak value n=20 rated value 400 V for current peak value n=30 rated value 400 V for current peak value n=30 rated value 400 V for current peak value n=30 rated value 400 v 40 V for current peak value n=30 rated value 400 V A 400 V for current peak value n=30 rated value 400 v 40 V for c	— at 440 V rated value	0.18 A				
	— at 600 V rated value	0.125 A				
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		300 A				
	— at 110 V rated value	300 A				
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no-load switching frequency		1 445 A; Use minimum cross-section acc. to AC-1 rated value				
	no-load switching frequency					

• at AC	2 000 1/h				
• at DC	2 000 1/h				
operating frequency					
 at AC-1 maximum 	750 1/h				
 at AC-2 maximum 	250 1/h				
 at AC-3 maximum 	500 1/h				
 at AC-4 maximum 	130 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	110 127 V				
 at 60 Hz rated value 	110 127 V				
control supply voltage at DC					
rated value	110 127 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				
apparent pick-up power of magnet coil at AC					
• at 50 Hz	590 V·A				
• at 60 Hz	590 V·A				
inductive power factor with closing power of the coil					
• at 50 Hz	0.9				
• at 60 Hz	0.9				
apparent holding power of magnet coil at AC					
• at 50 Hz	6.7 V·A				
• at 60 Hz	6.7 V·A				
inductive power factor with the holding power of the					
coil					
• at 50 Hz	0.9				
• at 60 Hz	0.9				
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 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	1A				
at 600 V rated value	0.15 A				
operational current at DC-13	0.13 A				
	10.0				
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) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415				
- with type of assignment 2 required	V, 50 kA)				
 for short-circuit protection of the auxiliary switch required 	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				
height	210 mm				
width	145 mm				
depth	202 mm				
required spacing					
 with side-by-side mounting 					
— 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				

Connections/ Terminals							
width of connection bar		25 m	m				
thickness of connection bar		6 mm	6 mm				
diameter of holes		11 mm					
number of holes		1					
type of electrical connection							
for main current circuit		Connection bar					
 for auxiliary and control circuit 		screw-type terminals					
 at contactor for auxiliary contacts 		Screw-type terminals					
of magnet coil		Screw-type terminals					
type of connectable conductor cross-sec	tions						
• at AWG cables for main contacts		2/0	. 500 kcmi	1			
connectable conductor cross-section for contacts	main						
 stranded 		70	240 mm ²				
connectable conductor cross-section for contacts	auxiliary						
 solid or stranded 		0.5	. 4 mm²				
 finely stranded with core end processi 	ng	0.5	. 2.5 mm²				
type of connectable conductor cross-sec	-						
 for auxiliary contacts 							
— solid		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)					
— solid or stranded		2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), max. 2x (0,75 4 mm ²)					
 finely stranded with core end prod 	essing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)					
 at AWG cables for auxiliary contacts 	-	2x (20 16), 2x (18 14), 1x 12					
AWG number as coded connectable conc	luctor cross						
section							
 for auxiliary contacts 		18	14				
Safety related data							
product function mirror contact acc. to IE	C 60947-4-1	Yes					
B10 value with high demand rate acc. to SN		1 000 000					
product function positively driven operation a 60947-5-1		No					
protection class IP on the front acc. to IE	C 60529	IP00; IP20 with box terminal/cover					
touch protection on the front acc. to IEC	60529	finge	r-safe, for	vertical conta	act from the front with	box terminal/cover	
suitability for use							
 safety-related switching on 		Yes					
 safety-related switching OFF 		Yes					
Certificates/ approvals							
General Product Approval						EMC	
	ա		!	<u>KC</u>	EAC		
CSA CCC Declaration of Conformity	UL Test Certifica	ates				RCM Marine / Shipping	
Miscellaneous CEE EG-Konf.	<u>Special Test Ca</u> ate	<u>ertific-</u>		est Certific- est Report	<u>Miscellaneous</u>	ABS	
Marine / Shipping	other						





Confirmation

Confirmation

Railway

Special Test Certificate

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=3RT1066-6AF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1066-6AF36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6AF36

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

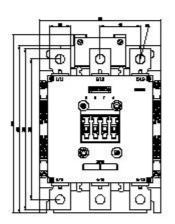
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1066-6AF36&lang=en

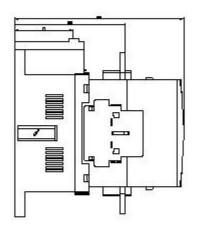
Characteristic: Tripping characteristics, I²t, Let-through current

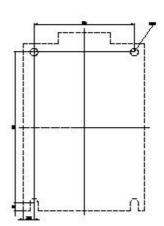
https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6AF36/char

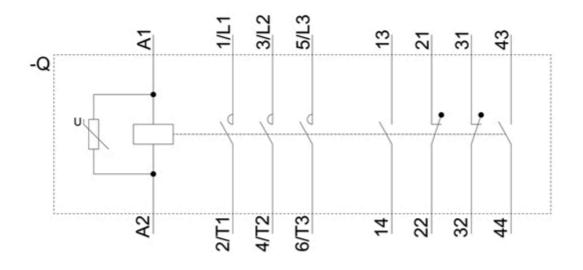
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1066-6AF36&objecttype=14&gridview=view1









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