## SIEMENS

## Data sheet

## 3RT1066-6AP36



Power contactor, AC-3 300 A, 160 kW / 400 V AC (50-60 Hz) / DC operation 220-240 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	
<ul> <li>function module for communication</li> </ul>	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	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil 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)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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	
<ul> <li>during operation</li> </ul>	-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	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C</li> </ul>	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
<ul> <li>— up to 1000 V at ambient temperature 40 °C rated value</li> </ul>	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	
<ul> <li>— up to 230 V for current peak value n=20 rated</li> </ul>	292 A
value	
<ul> <li>— up to 400 V for current peak value n=20 rated</li> </ul>	292 A
value	
<ul> <li>up to 500 V for current peak value n=20 rated</li> </ul>	292 A
value	280 A
<ul> <li>— up to 690 V for current peak value n=20 rated value</li> </ul>	200 A
— up to 1000 V for current peak value n=20 rated	95 A
value	
● at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated</li> </ul>	195 A
value	405.4
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	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 <sup>2</sup>
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			
	<ul> <li>with 3 current paths in series at DC-1</li> </ul>				
	— at 24 V rated value	300 A			
<ul> <li>- at 400 V risted value</li> <li>52.A</li> <li>- at 600 V risted value</li> <li>52.A</li> <li>- at 240 V risted value</li> <li>- at 10 V risted value</li> <li>- at 110 V risted value</li> <li>- at 240 V risted value</li> <li>- at 240 V risted value</li> <li>- at 600 V risted value</li> <li>- at 240 V risted value</li> <li>- at 250 V risted value</li> <li>- at 250 V risted value</li> <li>- at 260 V risted value</li> <li>- at 220 V risted value</li> <li>- at 230 V risted value</li> <li></li></ul>	— at 110 V rated value	300 A			
	— at 220 V rated value	300 A			
operational current              • at 1 current path at DC-3 at DC-5	— at 440 V rated value	11 A			
• 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><ul> <li>at 1 current path at DC-3 at DC-5</li> </ul></td><td></td></t<>	<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>				
	— at 24 V rated value	300 A			
	— at 110 V rated value	3 A			
	— at 220 V rated value	0.6 A			
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>300 A</li> <li>at 220 V rated value</li> <li>25 A</li> <li>at 400 V rated value</li> <li>0.86 A</li> <li>at 400 V rated value</li> <li>0.37 A</li> <li>with 3 current paths in series at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>300 A</li> <li>at 400 V rated value</li> <li>300 A</li> <li>at 40 V rated value</li> <li>40 V rated value</li> <li>400 V for current peak value n=20 rated value</li> <li>400 V for current peak value n=20 rated value</li> <li>400 V for current peak value n=20 rated value</li> <li>400 V for current peak value n=30 rated value</li> <li>400 V for current peak value n=30 rated value</li> <li>400 V for current peak value n=30 rated value</li> <li>400 v 40 V for current peak value n=30 rated value</li> <li>400 V A</li> <li>400 V for current peak value n=30 rated value</li> <li>400 v 40 V for c</li></ul>	— at 440 V rated value	0.18 A			
	— at 600 V rated value	0.125 A			
	<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>				
		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	
<ul> <li>at AC-1 maximum</li> </ul>	750 1/h
<ul> <li>at AC-2 maximum</li> </ul>	250 1/h
<ul> <li>at AC-3 maximum</li> </ul>	500 1/h
<ul> <li>at AC-4 maximum</li> </ul>	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	220 240 V
at 60 Hz rated value	220 240 V 220 240 V
	220 240 V
control supply voltage at DC	000 04014
rated value	220 240 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 50 Hz	590 V·A
	590 V.A
inductive power factor with closing power of the coil	0.0
• at 50 Hz	0.9
• at 60 Hz	0.9
apparent holding power of magnet coil at AC	0.71/ 4
• 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
	7.4 VV
e at AC	30 95 ms
	30 95 ms
• at DC	50 55 IIIS
opening delay	40 - 20 mg
● at AC ● at DC	40 80 ms 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	2
instantaneous contact	
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
■ מו בא ע ומוכט עמוטכ	

<ul> <li>at 48 V rated value</li> </ul>	6 A				
<ul> <li>at 60 V rated value</li> </ul>	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	1 A 0.15 A				
operational current at DC-13	0.13 A				
	10.4				
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				
<ul> <li>at 220 V rated value</li> </ul>	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					
<ul> <li>at 480 V rated value</li> </ul>	302 A				
• at 600 V rated value	289 A				
yielded mechanical performance [hp]					
<ul> <li>for 3-phase AC motor</li> </ul>					
— 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)				
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	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				
<ul> <li>side-by-side mounting</li> </ul>	Yes				
height	210 mm				
width	145 mm				
depth	202 mm				
required spacing					
<ul> <li>with side-by-side mounting</li> </ul>					
— forwards	20 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	0 mm				
<ul> <li>for grounded parts</li> </ul>					
— 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 mm			
thickness of connection bar		6 mm			
diameter of holes		11 mm			
number of holes		1			
type of electrical connection					
<ul> <li>for main current circuit</li> </ul>		Connection bar			
<ul> <li>for auxiliary and control circuit</li> </ul>		screw-type terminals			
<ul> <li>at contactor for auxiliary contacts</li> </ul>		Screw-type terminals			
<ul> <li>of magnet coil</li> </ul>		Screw-type terminals			
type of connectable conductor cross-section	ions				
at AWG cables for main contacts		2/0 500 kcmil			
connectable conductor cross-section for r	nain				
stranded		70 240 mm²			
connectable conductor cross-section for a contacts	auxiliary	70 240 mm			
solid or stranded		0.5 4 mm²			
<ul> <li>finely stranded with core end processin</li> </ul>	a	0.5 2.5 mm <sup>2</sup>			
they stranded with core end processing type of connectable conductor cross-section	-	0.0 2.0 mm			
51	0113				
<ul> <li>for auxiliary contacts</li> </ul>		$2x(0.5, 1.5, mm^2) = 0x(0.5)$	75 2.5 mm <sup>2</sup> ) may 0	(0.75 (mm <sup>2</sup> )	
— solid		2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5	,	. ,	
— solid or stranded		2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,		(0,75 4 mm²)	
— finely stranded with core end proc	essing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.			
at AWG cables for auxiliary contacts		2x (20 16), 2x (18 14), 1x 12			
AWG number as coded connectable conde section	uctor cross				
<ul> <li>for auxiliary contacts</li> </ul>		18 14			
Safety related data					
product function mirror contact acc. to IEC	C 60947-4-1	Yes			
B10 value with high demand rate acc. to SN 3	31920	1 000 000			
product function positively driven operation ac 60947-5-1	cc. to IEC	No			
protection class IP on the front acc. to IEC	protection class IP on the front acc. to IEC 60529 IP00; IP2		200; IP20 with box terminal/cover		
touch protection on the front acc. to IEC 6	0529	finger-safe, for vertical cor	tact from the front with b	ox terminal/cover	
suitability for use					
<ul> <li>safety-related switching on</li> </ul>		Yes			
<ul> <li>safety-related switching OFF</li> </ul>		Yes			
Certificates/ approvals					
				EMC	
General Product Approval				EWIC	
	(UL) u	<u>KC</u>	EHC	RCM	
Declaration of Conformity	Test Certifica	tes		Marine / Shipping	
Miscellaneous EG-Konf.	<u>Type Test Cer</u> ates/Test Rep		<u>Miscellaneous</u>	ABS	
Marine / Shipping	other				



**Miscellaneous** 

**Confirmation** 

**Miscellaneous** 

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=3RT1066-6AP36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1066-6AP36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6AP36

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

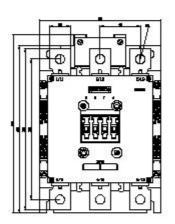
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1066-6AP36&lang=en

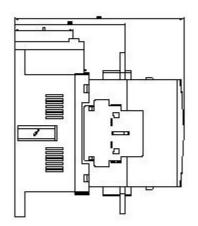
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

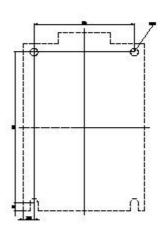
https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6AP36/char

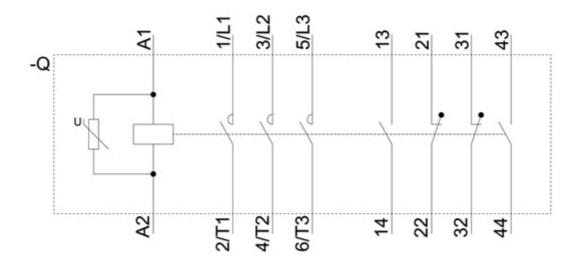
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1066-6AP36&objecttype=14&gridview=view1









last modified:

12/18/2020 🖸