SIEMENS

Data sheet

3RT1054-6SP36-3PA0



Power contactor, AC-3 115 A, 55 kW / 400 V Coil AC 50/60 Hz and DC 200-277 V x (0.8-1.1) F-SPS input 24 V DC 3-pole size S6 Auxiliary contacts 2 NO + 2 NC permanently mounted Main circuit: Busbar Control and auxiliary circuit: Screw terminal

product designation Power contactor product type designation SR11 concrat technical data S8 product extension No • function module for communication No • function module for communication Yes power loss [W] for rated value of the current 21 W • at AC in hot operating state per pole 7 W • of auxiliary switch 28 W of ania circuit with degree of pollution 3 rated value 1000 V • of auxiliary circuit with degree of pollution 3 rated value 6 KV • of auxiliary circuit with degree of pollution 3 rated value 8 kV • of auxiliary circuit with degree of pollution 3 rated value 6 kV • of auxiliary circuit with degree of pollution 3 rated value 8 kV • of auxiliary circuit with degree of pollution 3 rated value 8 kV • of auxiliary circuit with degree of pollution 3 rated value 8 kV • of auxiliary circuit with degree of pollution 3 rated value 8 kV • of auxiliary circuit with degree of pollution 3 rated value 8 kV • of auxiliary circuit with degree of pollution 3 rated value 8 kV • of auxiliary circuit with degree of	product brand name	SIRIUS
General technical data S6 size of contactor S6 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 21 W • at AC in hot operating state per pole 7 W • of main circuit with degree of pollution 3 rated value 1 000 V • of main circuit with degree of pollution 3 rated value 1 000 V • of main circuit with degree of pollution 3 rated value 1 000 V • of main circuit rated value 6 kV surge voltage resistance 6 kV • of main circuit rated value 8 kV • of auxiliary circuit rated value 6 kV maximum permissible voltage for safe isolation between coll and main contacts according to EN 60947-1 500 V shock resistance at rectangular impulse 4 AC • at AC 8,5g / 5 ms, 4,2g / 10 ms • at AC 13,4g / 5 ms, 6,5g / 10 ms • at DC 10 000 000 • at AC 1000000 • of the contactor with added electronically optimized auxiliary switch block typical 1000000 • of the contactor with added auxiliary switch block typical 1000000 • of the contactor with added auxiliary switch block typical 10000000 • of the contactor with added auxili	product designation	Power contactor
size of contactor S6 product extension No • dunction module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 1 W • at AC in hot operating state per pole 7 W • without load current share typical 2.8 W insulation voltage 1 000 V • of main circuit with degree of pollution 3 rated value 1 000 V • of main circuit rated value 8 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 6 kV • at AC 13,4g / 5 ms, 6,5g / 10 ms • at DC 13,4g / 5 ms, 6,5g / 10 ms • at DC 10,000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 •	product type designation	3RT1
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typical Image: constraint of IEC 81346-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 03/01/2017 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C		5 000 000
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installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C	Substance Prohibitance (Date)	03/01/2017
ambient temperature • during operation -25 +60 °C	Ambient conditions	
• during operation -25 +60 °C	installation altitude at height above sea level maximum	2 000 m
	ambient temperature	
• during storage -55 +80 °C	 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	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	1000 V
•	160.4
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	160 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	160 A
rated value	100 A
— up to 690 V at ambient temperature 60 °C	140 A
rated value	
— up to 1000 V at ambient temperature 40 °C	80 A
rated value	
— up to 1000 V at ambient temperature 60 °C	80 A
rated value	
• at AC-3	
— at 400 V rated value	115 A
— at 500 V rated value	115 A
— at 690 V rated value	115 A
— at 1000 V rated value	53 A
• at AC-3e	
— at 400 V rated value	115 A
— at 500 V rated value	115 A
— at 690 V rated value	115 A
— at 1000 V rated value	53 A
• at AC-4 at 400 V rated value	97 A
• at AC-5a up to 690 V rated value	140 A
• at AC-5b up to 400 V rated value	95 A
● at AC-6a	
— up to 230 V for current peak value n=20 rated	115 A
value	445.4
 — up to 400 V for current peak value n=20 rated value 	115 A
— up to 500 V for current peak value n=20 rated	115 A
value	137
— up to 690 V for current peak value n=20 rated	115 A
value	
— up to 1000 V for current peak value n=20 rated	53 A
value	
● at AC-6a	
 up to 230 V for current peak value n=30 rated 	98 A
value	
 up to 400 V for current peak value n=30 rated 	98 A
value	
 up to 500 V for current peak value n=30 rated 	98 A
value	00.4
 — up to 690 V for current peak value n=30 rated value 	98 A
— up to 1000 V for current peak value n=30 rated	53 A
value	
minimum cross-section in main circuit at maximum AC-1	70 mm ²
rated value	
operational current for approx. 200000 operating	
cycles at AC-4	
• at 400 V rated value	54 A
• at 690 V rated value	48 A
operational current	

— at 24 V rated value	160 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	20 A
— at 440 V rated value	3.2 A
— at 600 V rated value	1.6 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	11.5 A
— at 600 V rated value	4 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 110 V rated value	2.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.17 A
— at 600 V rated value	0.12 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 110 V rated value	160 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
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
 at AC-2 at 400 V rated value 	55 kW
• at AC-3	
— at 230 V rated value	37 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	110 kW
— at 1000 V rated value	75 kW
• at AC-3e	
— at 230 V rated value	37 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	110 kW
— at 1000 V rated value	75 kW
operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	29 kW
• at 690 V rated value	48 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	40 000 kVA
 up to 400 V for current peak value n=20 rated value 	80 000 VA
 up to 500 V for current peak value n=20 rated value 	100 000 VA
 up to 690 V for current peak value n=20 rated value 	130 000 VA
 up to 1000 V for current peak value n=20 rated 	AV 000 VA
value	
operating apparent power at AC-6a	

 up to 230 V for current peak value n=30 rated value 	30 000 VA		
 up to 400 V for current peak value n=30 rated value 	60 000 VA		
• up to 500 V for current peak value n=30 rated value	80 000 VA		
• up to 690 V for current peak value n=30 rated value	110 000 VA		
 up to 1000 V for current peak value n=30 rated 	90 000 VA		
value			
short-time withstand current in cold operating state			
up to 40 °C			
 limited to 1 s switching at zero current maximum 	2 565 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 5 s switching at zero current maximum 	1 654 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 10 s switching at zero current maximum 	1 170 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 30 s switching at zero current maximum 	729 A; Use minimum cross-section acc. to AC-1 rated value		
Imited to 60 s switching at zero current maximum	572 A; Use minimum cross-section acc. to AC-1 rated value		
no-load switching frequency			
• at AC	1 000 1/h		
• at DC	1 000 1/h		
operating frequency			
• at AC-1 maximum	800 1/h		
• at AC-2 maximum	400 1/h		
• at AC-3 maximum	1 000 1/h		
• at AC-3e maximum	1 000 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	200 277 V		
at 60 Hz rated value	200 277 V		
control supply voltage at DC			
rated value	200 277 V		
type of PLC-control input according to IEC 60947-1	Type 1		
consumed current at PLC-control input according to IEC 60947-1 maximum	14 mA		
voltage at PLC-control input rated value	24 V		
operating range factor of the voltage at PLC-control input	0.8 1.1		
operating range factor control supply voltage rated			
value of magnet coil at DC	0.0		
• initial value	0.8		
full-scale value	1.1		
operating range factor control supply voltage rated value of magnet coil at AC	0.0 4.4		
• 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	290.1/4		
● at 50 Hz ● at 60 Hz	280 VA 280 VA		
	200 VA		
inductive power factor with closing power of the coil • at 50 Hz	0.8		
• at 50 Hz	0.8		
apparent holding power of magnet coil at AC			
apparent holding power of magnet con at AC o at 50 Hz	4.4 VA		
• at 60 Hz	4.4 VA		
inductive power factor with the holding power of the			
coil			
• at 50 Hz	0.5		
• at 60 Hz	0.5		
closing power of magnet coil at DC	320 W		
holding power of magnet coil at DC	2.8 W		
closing delay			
• at AC	60 75 ms		
● at DC	60 75 ms		

opening delay			
• at AC	115 130 ms		
• at DC	115 130 ms		
recovery time after power failure typical	2 s		
arcing time	10 15 ms		
control version of the switch operating mechanism	Fail-safe PLC input (F-PLC-IN)		
Auxiliary circuit			
number of NC contacts for auxiliary contacts	2		
instantaneous contact			
number of NO contacts for auxiliary contacts	2		
instantaneous contact			
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 	10 A		
 at 48 V rated value 	2 A		
 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	124 A		
at 600 V rated value	124 A 125 A		
	125 A		
yielded mechanical performance [hp]			
for single-phase AC motor	051		
— at 230 V rated value	25 hp		
for 3-phase AC motor			
— at 200/208 V rated value	40 hp		
— at 220/230 V rated value	50 hp		
— at 460/480 V rated value	100 hp		
— at 575/600 V rated value	125 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: 355 A (690 V, 100 kA)		
— with type of assignment 2 required	gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415		
for short-circuit protection of the auxiliary switch required	V, 50 kA) gG: 10 A (500 V, 1 kA)		
required			
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	surface +/- 22.5° tiltable to the front and back screw fixing		
	surface +/- 22.5° tiltable to the front and back		

width	120 mm		
depth	170 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			
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		
width of connection bar	17 mm		
thickness of connection bar	3 mm		
diameter of holes	9 mm		
number of holes	1		
type of connectable conductor cross-sections			
at AWG cables for main contacts	2x 1/0		
connectable conductor cross-section for main			
contacts	25 120 mm²		
stranded	25 120 11111		
connectable conductor cross-section for auxiliary contacts			
 solid or stranded 	0.5 4 mm²		
 finely stranded with core end processing 	0.5 2.5 mm²		
type of connectable conductor cross-sections			
 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 processing 	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 conductor cross			
section			
for auxiliary contacts	18 14		
Safety related data			
product function			
• mirror contact according to IEC 60947-4-1	Yes		
 positively driven operation according to IEC 60947- 5-1 	No		
safety device type according to IEC 61508-2	Туре В		
B10 value with high demand rate according to SN 31920	1 000 000		
Safety Integrity Level (SIL) according to IEC 61508	2		
SIL Claim Limit (subsystem) according to EN 62061	2		
performance level (PL) according to EN ISO 13849-1	C		
category according to EN ISO 13849-1	2		
stop category according to EN 60204-1	0		
Safe failure fraction (SFF)	93 %		
failure rate [FIT] with low demand rate according to SN	100 FIT		
31920			

PFHD with high dema	and rate according to E	N 62061 0.0	0000045 1/h			
-	mand rate according		07			
MTBF		75	у			
hardware fault toler	ance according to IEC	61508 0				
T1 value for proof tes IEC 61508	t interval or service life	according to 20	у			
protection class IP of 60529	on the front according	to IEC IPC	IP00; IP20 with box terminal/cover			
touch protection on	the front according to	DIEC 60529 fing	ger-safe, for vertical conta	ict from the front with b	ox terminal/cover	
suitability for use						
 safety-related s 	witching on	No				
 safety-related s 	witching OFF	Ye	S			
Certificates/ approval	s					
General Product Ap	oproval					
(Str.	<u>Confirmation</u>			<u>KC</u>	EHC	
EMC	Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates		other	
RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	<u>Miscellaneous</u>	
other		Railway				
<u>Confirmation</u>	<u>Miscellaneous</u>	Special Test Certific ate	<u>-</u>			

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=3RT1054-6SP36-3PA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1054-6SP36-3PA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-6SP36-3PA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1054-6SP36-3PA0&lang=en</u>

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-6SP36-3PA0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1054-6SP36-3PA0&objecttype=14&gridview=view1

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