SIEMENS

Data sheet

3RT1076-6SP36-3PA0



power contactor, AC-3e/AC-3 500 A, 250 kW / 400 V AC (50-60 Hz) / DC 200-277 V x (0.8-1.1) F-PLC input 24 V DC 3-pole, auxiliary contacts 2 NO + 2 NC permanently mounted drive: electronic main circuit: busbar control and auxiliary circuit: screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S12
product extension	512
function module for communication	No
	Yes
• auxiliary switch power loss [W] for rated value of the current	
at AC in hot operating state	165 W
at AC in hot operating state per pole	55 W
without load current share typical	3.6 W
type of calculation of power loss depending on pole insulation voltage	quadratic
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value 	500 V
surge voltage resistance	500 V
of main circuit rated value	8 kV
of main circuit rated value of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between	690 V
coil and main contacts according to EN 60947-1	000 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)	03/01/2017
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Perfluorobutane sulfonic acid (PFBS) and its salts
Weight	10.066 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	

 during operation 	-25 +60 °C
during operation ouring storage	-25 +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	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	610 A
 at AC-1 up to 690 V at ambient temperature 40 °C rated value 	610 A
— up to 690 V at ambient temperature 60 °C rated value	550 A
— up to 1000 V at ambient temperature 40 °C rated value	200 A
 up to 1000 V at ambient temperature 60 °C rated value at AC-3 	200 A
— at 400 V rated value	500 A
— at 500 V rated value	500 A
— at 690 V rated value	450 A
— at 1000 V rated value	180 A
• at AC-3e	
— at 400 V rated value	500 A
— at 500 V rated value	500 A
— at 690 V rated value	450 A
— at 1000 V rated value	180 A
at AC-4 at 400 V rated value	430 A
• at AC-5a up to 690 V rated value	536 A
• at AC-5b up to 400 V rated value	415 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	414 A
— up to 400 V for current peak value n=20 rated value	414 A
— up to 500 V for current peak value n=20 rated value	414 A
— up to 690 V for current peak value n=20 rated value	414 A
— up to 1000 V for current peak value n=20 rated value	180 A
● at AC-6a	
— up to 230 V for current peak value n=30 rated value	276 A
— up to 400 V for current peak value n=30 rated value	276 A
— up to 500 V for current peak value n=30 rated value	276 A
 — up to 690 V for current peak value n=30 rated value 	276 A
— up to 1000 V for current peak value n=30 rated value	180 A
minimum cross-section in main circuit at maximum AC-1 rated value	370 mm²
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value	175 A
at 400 V rated value at 690 V rated value	175 A 150 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	400 A
— at 60 V rated value	330 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 	
	-	400 A
 		
• with 3 current paths in series at DC-1		
	-	400 A
• at 1 current path at DC-3 at DC-5400 A- at 62 V rated value400 A- at 100 V rated value5 A- at 100 V rated value0.18 A- at 24 V rated value0.18 A- at 600 V rated value0.00 A- at 600 V rated value0.00 A- at 600 V rated value600 A- at 600 V rated value0.00 A- at 610 V rated value0.00 A- at 610 V rated value0.05 A- at 610 V rated value0.05 A- at 610 V rated value0.00 A- at 720 V rated value200 A- at 720 V rated value200 A- at 720 V rated value100 K W- at 720 V rated value200 K W <trr>- at 720 V rated value200 K W<!--</td--><td></td><td></td></trr>		
	-	400 A
 with 2 current paths in series at DC-3 at DC-5 at 24 V rated value at 20 V rated value 400 A at 110 V rated value 400 A at 200 V rated value 0.55 A at 440 V rated value 0.57 A with 3 current paths in series at DC-3 at DC-3 with 3 current paths in series at DC-3 at DC-3 at 440 V rated value 400 A at 600 V rated value 500 V rated valu		
- at 60 V rated value 400 A - at 110 V rated value 400 A - at 20 V rated value 2.5 A - at 600 V rated value 0.65 A - at 600 V rated value 0.07 A - at 600 V rated value 400 A - at 60 V rated value 400 A - at 220 V rated value 400 A - at 220 V rated value 400 A - at 220 V rated value 400 A - at 400 V rated value 400 A - at 400 V rated value 50 KW - at 400 V rated value 160 KW - at 600 V rated value 200 KW - at 600 V rated value 200 KW - at 600 V rated value 400 KW	-	400 A
- at 110 V rated value 400 A - at 220 V rated value 2.5 A - at 400 V rated value 0.87 A - at 600 V rated value 0.37 A • with 3 current paths in series at DC-3 at DC-5 - - at 60 V rated value 400 A - at 60 V rated value 400 A - at 60 V rated value 400 A - at 40 V rated value 0.75 A operating power - - at 230 V rated value 250 kW - at 400 V rated value 250 kW - at 600 V rated value 315 kW - at 600 V rated value 250 kW - at 600 V rated value 250 kW - at 600 V rated value 315 kW - at 600 V rated value 250 kW - at 600 V rated value <td< td=""><td></td><td></td></td<>		
- at 220 V rated value 2.5 Å - at 440 V rated value 0.65 Å - at 600 V rated value 0.37 Å - at 600 V rated value 400 Å - at 60 V rated value 400 Å - at 700 V rated value 400 Å - at 600 V rated value 400 Å - at 700 V rated value 400 Å - at 600 V rated value 400 Å - at 700 V rated value 600 Å - at 700 V rated value 0.75 Å operating power - - at 700 V rated value 160 kW - at 700 V rated value 250 kW - at 600 V rated value 260 kW		
- at 440 V rated value 0.65 Å - at 000 V rated value 0.37 Å • with 3 current paths in series at DC-3 at DC-5 400 Å - at 24 V rated value 400 Å - at 60 V rated value 400 Å - at 60 V rated value 400 Å - at 22 V rated value 400 Å - at 20 V rated value 400 Å - at 20 V rated value 0.0 Å - at 20 V rated value 14 Å - at 600 V rated value 250 kW - at 20 V rated value 250 kW - at 20 V rated value 160 kW - at 400 V rated value 250 kW - at 400 V rated value 250 kW - at 600 V rated value 260 kW - at 600 V rated value 260 kW - at 600 V rated value 260 kW - at 600 V rated value		
at 800 V rated value 0.37 Å • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 400 A at 100 V rated value 400 A at 110 V rated value 400 A at 220 V rated value 400 A at 400 V rated value 0.75 A at 600 V rated value 0.75 A at 200 V rated value 250 kW at 200 V rated value 250 kW at 200 V rated value 160 kW at 500 V rated value 100 kW at 600 V rated value 100 kW		
• with 3 current paths in series at DC-3 at DC-5- at 24 V rated value400 A- at 60 V rated value400 A- at 110 V rated value400 A- at 220 V rated value400 A- at 220 V rated value400 A- at 60 V rated value75 Aoperating power150 kW- at 230 V rated value250 kW- at 230 V rated value250 kW- at 230 V rated value160 kW- at 230 V rated value250 kW- at 400 V rated value250 kW- at 400 V rated value250 kW- at 400 V rated value250 kW- at 630 V rated value260 kW		
		0.0177
	-	400 A
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• at AC-2 at 400 V rated value250 kW• at AC-3 at 230 V rated value160 kW- at 400 V rated value250 kW- at 500 V rated value315 kW- at 690 V rated value400 kW- at 1000 V rated value250 kW- at 1000 V rated value250 kW- at 230 V rated value250 kW- at 230 V rated value160 kW- at 230 V rated value160 kW- at 400 V rated value250 kW- at 400 V rated value150 kW- at 690 V rated value250 kW- at 1000 V rated value250 kW- at 400 V rated value98 kW- at 690 V rated value98 kW- at 690 V rated value160 000 kVA- up to 230 V for current peak value n=20 rated value160 000 kVA- up to 690 V for current peak value n=20 rated value250 000 VA- up to 690 V for current peak value n=20 rated value350 000 VA- up to 690 V for current peak value n=20 rated value350 000 VA- up to 690 V for current peak value n=20 rated value310 000 VA- up to 690 V for current peak value n=20 rated value310 000 VA- up to		
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• at AC-3eImage: Constraint of the second secon		
- at 400 V rated value250 kW- at 500 V rated value315 kW- at 690 V rated value400 kW- at 1000 V rated value250 kWoperating power for approx. 200000 operating cycles at AC- 498 kW- at 400 V rated value98 kW- at 690 V rated value98 kWoperating apparent power at AC-6a148 kW- up to 230 V for current peak value n=20 rated value160 000 kVA- up to 500 V for current peak value n=20 rated value350 000 VA- up to 500 V for current peak value n=20 rated value350 000 VA- up to 690 V for current peak value n=20 rated value310 000 VA- up to 1000 V for current peak value n=20 rated value310 000 VA- up to 1000 V for current peak value n=20 rated value310 000 VA- up to 1000 V for current peak value n=20 rated value310 000 VA- up to 1000 V for current peak value n=20 rated value310 000 VA- up to 1000 V for current peak value n=20 rated value310 000 VA- up to 1000 V for current peak value n=20 rated value310 000 VA- up to 1000 V for current peak value n=20 rated value310 000 VA- up to 1000 V for current peak value n=20 rated value310 000 VA- up to 1000 V for current peak value n=20 rated value310 000 VA- up to 1000 V for current peak value n=20 rated value310 000 VA- up to 1000 V for current peak value n=20 rated value310 000 VA- up to 1000 V for current peak value n=20 rated value310 000 VA- up to 1000 V for current peak value n=20 rated value310 000 VA <tr< td=""><td></td><td>160 kW</td></tr<>		160 kW
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• at 690 V rated value 148 kW operating apparent power at AC-6a - • up to 230 V for current peak value n=20 rated value 160 000 kVA • up to 400 V for current peak value n=20 rated value 280 000 VA • up to 500 V for current peak value n=20 rated value 350 000 VA • up to 690 V for current peak value n=20 rated value 350 000 VA • up to 690 V for current peak value n=20 rated value 310 000 VA • up to 1000 V for current peak value n=20 rated value 310 000 VA		
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• up to 230 V for current peak value n=20 rated value160 000 kVA• up to 400 V for current peak value n=20 rated value280 000 VA• up to 500 V for current peak value n=20 rated value350 000 VA• up to 690 V for current peak value n=20 rated value490 000 VA• up to 1000 V for current peak value n=20 rated value310 000 VA• up to 1000 V for current peak value n=20 rated value310 000 VA	• at 690 V rated value	148 kW
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	 up to 1000 V for current peak value n=20 rated value 	310 000 VA
• up to 230 V for current peak value n=30 rated value 110 000 VA	operating apparent power at AC-6a	
	• up to 230 V for current peak value n=30 rated value	110 000 VA

 up to 400 V for current peak value n=30 rated value 	190 000 VA
 up to 500 V for current peak value n=30 rated value 	230 000 VA
 up to 690 V for current peak value n=30 rated value 	330 000 VA
 up to 1000 V for current peak value n=30 rated value 	310 000 VA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	7 484 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	7 484 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	5 978 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	3 765 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	2 887 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	500 1/h
• at DC	500 1/h
operating frequency	
• at AC-1 maximum	200 1/h
• at AC-2 maximum	170 1/h
• at AC-3 maximum	200 1/h
• at AC-3e maximum	200 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
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
type of PLC-control input according to IEC 60947-1	Туре 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
design of the surge suppressor	with varistor
apparent pick-up power	
 at minimum rated control supply voltage at AC 	
— at 50 Hz	560 VA
— at 60 Hz	560 VA
at maximum rated control supply voltage at AC	
— at 60 Hz	750 VA
— at 50 Hz	750 VA
apparent pick-up power of magnet coil at AC	750.1/4
• at 50 Hz	750 VA
at 60 Hz	750 VA
inductive power factor with closing power of the coil	0.0
• at 50 Hz	0.8
at 60 Hz	0.8
apparent holding power	3 \/A
at minimum rated control supply voltage at DC	3 VA 3 6 VA
at maximum rated control supply voltage at DC	3.6 VA
apparent holding power	
• at minimum rated control supply voltage at AC	561/4
— at 50 Hz	5.6 VA
— at 60 Hz	5.6 VA
• at maximum rated control supply voltage at AC	0.1/4
— at 50 Hz	9 VA

at 60 Hz	9 VA
— at 60 Hz	9 VA
inductive power factor with the holding power of the coil	0.5
• at 50 Hz	0.5
• at 60 Hz	0.4
closing power of magnet coil at DC	800 W
holding power of magnet coil at DC	3.6 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	
design of the auxiliary switch	lateral, permanently connected
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	
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	477 A
	477 A 472 A
at 600 V rated value	412 A
yielded mechanical performance [hp] • for 3-phase AC motor	
	150 bb
- at 200/208 V rated value	150 hp
- at 220/230 V rated value	200 hp
- at 460/480 V rated value	400 hp
— at 575/600 V rated value	500 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: 630 A (690 V, 100 kA)
— with type of assignment 2 required	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA)

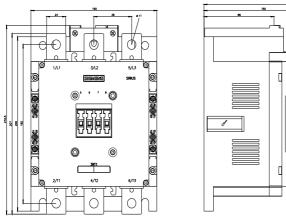
• for short-circuit protection of the auxiliary switch required

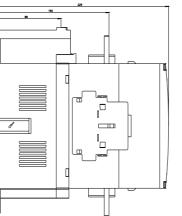
gG: 10 A (500 V, 1 kA)

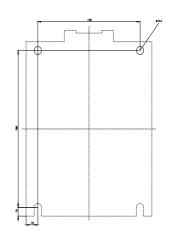
Installation/ mounting/ dimensions	90. 10 A (000 V, 1 M)
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface
	+/- 22.5° tiltable to the front and back
fastening method side-by-side mounting	Yes
fastening method	screw fixing
height	214 mm
width	160 mm
depth	225 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	25 mm
thickness of connection bar	6 mm
diameter of holes	11 mm
number of holes	1
type of connectable conductor cross-sections	
 for AWG cables for main contacts 	2/0 500 kcmil
connectable conductor cross-section for main contacts	
stranded	70 240 mm²
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 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14), 1x 12
AWG number as coded connectable conductor cross	
section	10 11
for auxiliary contacts	18 14
Safety related data	
product function	No.
• mirror contact according to IEC 60947-4-1	Yes
positively driven operation according to IEC 60947-5-1	No
suitable for safety function	Yes
suitability for use safety-related switching OFF	Yes
safe state	off
test wear-related service life necessary	Yes
stop category according to IEC 60204-1	0
proportion of dangerous failures	

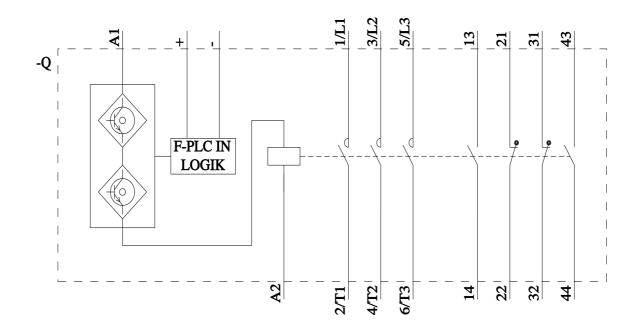
 with low deman 		_ •	40 %			
	nd rate according to SN 319	920	73 %			
	demand rate according to		1 000 00	00		
÷	low demand rate according to		1000 U			
31920		-				
MTBF			75 a			
IEC 62061			_			
Safety Integrity Leve	I (SIL) according to IEC 6	2061	SIL 2			
PFHD with high dema	nd rate according to IEC 62	2061	4.5E-7 1	1/h		
SO 13849						
performance level (P	L) according to ISO 1384	9-1	PL c			
category according t	to ISO 13849-1		2			
device type accordin	ig to ISO 13849-1		1			
overdimensioning ad	ccording to ISO 13849-2 n	ecessary	Yes			
EC 61508						
Safety Integrity Level	(SIL) according to IEC 6150	08	2			
safety device type ad	ccording to IEC 61508-2		Туре В			
PFHD with high dem	and rate according to IEC	61508	4.5E-7 1	1/h		
PFDavg with low dem	and rate according to IEC 6	1508	0.007			
Safe failure fraction	(SFF)		93 %			
hardware fault toleran	ce according to IEC 61508		0			
T1 value of service life	e according to IEC 61508		20 a			
Electrical Safety						
protection class IP o	n the front according to I	EC 60529	IP00; IP	20 with box terminal/c	over	
touch protection on	the front according to IEC	60529	finger-sa	afe, for vertical contac	t from the front with box te	rminal/cover
General Product Ap	proval					
General Product Ap	UK	C E EG-Konf.		Confirmation	(h)	EAC
	UK CA			<u>Confirmation</u>	UL UL	EAC
CCC	-	EG-Konf. Test Certificate	es	<u>Confirmation</u>	other	EAC
CCC	UK CA			Confirmation <u> Confirmation</u> <u> Type Test Certific-ates/Test Report</u>	other Miscellaneous	ERC
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EMV CCC EMV	UK Functional Saftey Type Examination Certificate Railway Special Test Certific-	Test Certificato Special Test Ce ate Environment	ertific- Con-	Type Test Certific-		ERC
EMV ECM RCM	UK Calibration Cer- tificate Railway	Test Certificate Special Test Ce ate	ertific- Con-	Type Test Certific-		ERC
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https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6SP36-3PA0/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1076-6SP36-3PA0&objecttype=14&gridview=view1









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