SIEMENS

Data sheet

3RT1056-2AB36



power contactor, AC-3 185 A, 90 kW / 400 V AC (50-60 Hz) / DC operation 23-26 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S6 busbar connections drive: conventional spring-loaded terminal

size of contactor S6 product extension No • function module for communication No • auxilary switch Yes power loss [W] for rated value of the current 39 W • at AC in hot operating state per pole 13 W • without load current share typical 5.2 W insulation voltage 1 000 V • of main circuit with degree of pollution 3 rated value 500 V • of main circuit with degree of pollution 3 rated value 500 V • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 6 kV • at AC 8,5g / 5 ms, 4,2g / 10 ms • at DC 8,5g / 5 ms, 4,2g / 10 ms • at DC 10,4g / 5 ms, 6,5g / 10 ms • at DC 10,4g / 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 auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 0500 / 00 <t< th=""><th>product brand name</th><th>SIRIUS</th></t<>	product brand name	SIRIUS
Second Lechnical data size of contactor S6 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 per pole 13 W • of main circuit with degree of pollution 3 rated value 000 V • of main circuit with degree of pollution 3 rated value 1000 V • of main circuit rated value 6 KV surge voltage resistance 6 KV • of main circuit rated value 8 kV • of main circuit rated value 6 KV maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 680 V shock resistance at rectangular impulse 4.5g / 5 ms, 4.2g / 10 ms • at AC 8.5g / 5 ms, 4.2g / 10 ms • at AC 13.4g / 5 ms, 6.5g / 10 ms • at AC 13.4g / 5 ms, 6.5g / 10 ms • at DC 10.000 000 • at DC 10.000 000 • at DC 10.000 000 • of the contactor with added auxiliary switch block typical 10 000 000	product designation	Power contactor
size of contactor S6 product extension No • function module for communication No • auxilary switch Yes power loss [W] for rated value of the current 39 W • at AC in hot operating state per pole 13 W • without load current share typical 5.2 W insulation voltage 1 000 V • of main circuit with degree of pollution 3 rated value 500 V • of main circuit with degree of pollution 3 rated value 500 V • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 6 kV • at AC 8,5g / 5 ms, 4,2g / 10 ms • at DC 8,5g / 5 ms, 4,2g / 10 ms • at DC 10,4g / 5 ms, 6,5g / 10 ms • at DC 10,4g / 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 auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 0500 / 00 <t< th=""><th>product type designation</th><th>3RT1</th></t<>	product type designation	3RT1
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power loss [W] for rated value of the current at AC in hot operating state 39 W • at AC in hot operating state per pole 13 W • without load current share typical 5.2 W insulation voltage • of main circuit with degree of pollution 3 rated value 1000 V • of auxiliary circuit with degree of pollution 3 rated value 500 V • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 8,5g / 5 ms, 4,2g / 10 ms shock resistance at rectangular impulse • at AC • at AC 8,5g / 5 ms, 4,2g / 10 ms • at AC 13,4g / 5 ms, 6,5g / 10 ms • at AC 13,4g / 5 ms, 6,5g / 10 ms • at AC 1000 000 • at AC 10 000 000 • at AC 10 000 000 • at AC 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 • of the contactor with added auxiliary switch block typical 05/01/2012 Ambient conditions 2 000 m	 function module for communication 	No
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• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 msmechanical service life (switching cycles)10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical05/01/2012• of the contactor with added auxiliary switch typical000 m• of the contactor with added auxiliary switch typical	● at DC	8,5g / 5 ms, 4,2g / 10 ms
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typical Image: constraint of the second se		5 000 000
Substance Prohibitance (Date) 05/01/2012 Ambient conditions 105/01/2012 installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C		10 000 000
Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation -25 +60 °C	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C	Substance Prohibitance (Date)	05/01/2012
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 %
maximum Nain circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
	5
operating voltage • at AC-3 rated value maximum	1 000 V
at AC-3 rated value maximum at AC-3e rated value maximum	1 000 V
	1000 V
operational current	215 A
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	215 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	215 A
rated value	
— up to 690 V at ambient temperature 60 °C	185 A
rated value	
— up to 1000 V at ambient temperature 40 °C	100 A
rated value	
— up to 1000 V at ambient temperature 60 °C rated value	100 A
at AC-3	
 at AC-3 — at 400 V rated value 	185 /
	185 A
— at 500 V rated value	185 A
— at 690 V rated value	170 A
— at 1000 V rated value	65 A
• at AC-3e	405.4
— at 400 V rated value	185 A
— at 500 V rated value	185 A
— at 690 V rated value	170 A
— at 1000 V rated value	65 A
• at AC-4 at 400 V rated value	160 A
• at AC-5a up to 690 V rated value	189 A
 at AC-5b up to 400 V rated value 	153 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated 	157 A
value	167 A
 — up to 400 V for current peak value n=20 rated value 	157 A
— up to 500 V for current peak value n=20 rated	157 A
value	
— up to 690 V for current peak value n=20 rated	157 A
value	
— up to 1000 V for current peak value n=20 rated	65 A
value	
• at AC-6a	
 — up to 230 V for current peak value n=30 rated value 	105 A
	105 A
 — up to 400 V for current peak value n=30 rated value 	105 A
— up to 500 V for current peak value n=30 rated	105 A
value	
— up to 690 V for current peak value n=30 rated	105 A
value	
 up to 1000 V for current peak value n=30 rated 	65 A
value	
minimum cross-section in main circuit at maximum AC-1 rated value	95 mm²
operational current for approx. 200000 operating	
cycles at AC-4	
at 400 V rated value	81 A
at 400 V rated value	65 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-3	
— at 230 V rated value	55 kW
— at 400 V rated value	90 kW
— at 500 V rated value	132 kW
— at 690 V rated value	160 kW
— at 1000 V rated value	90 kW
• at AC-3e	
- at 230 V rated value	55 kW
— at 400 V rated value	90 kW
— at 500 V rated value	132 kW
— at 690 V rated value	160 kW
— at 1000 V rated value	90 kW
operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	45 kW
• at 690 V rated value	65 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	60 000 kVA
• up to 400 V for current peak value n=20 rated value	100 000 VA
• up to 500 V for current peak value n=20 rated value	130 000 VA
• up to 690 V for current peak value n=20 rated value	180 000 VA
• up to 1000 V for current peak value n=20 rated	110 000 VA
value	
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	40 000 VA

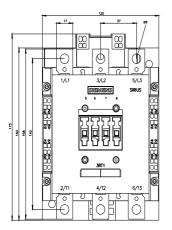
 up to 400 V for current peak value n=30 rated value 	70 000 VA			
 up to 500 V for current peak value n=30 rated value 	90 000 VA			
 up to 690 V for current peak value n=30 rated value 	120 000 VA			
 up to 1000 V for current peak value n=30 rated 	110 000 VA			
value				
short-time withstand current in cold operating state up to 40 °C				
•	2,000 At Los minimum grass sostion ago to AC 1 roted value			
Imited to 1 s switching at zero current maximum	2 900 A; Use minimum cross-section acc. to AC-1 rated value 2 084 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 5 s switching at zero current maximum 				
 limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum 	1 480 A; Use minimum cross-section acc. to AC-1 rated value			
-	968 A; Use minimum cross-section acc. to AC-1 rated value 801 A; Use minimum cross-section acc. to AC-1 rated value			
Imited to 60 s switching at zero current maximum	SOT 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	2 000 1/11			
• at AC-1 maximum	800 1/h			
• at AC-2 maximum	300 1/h			
• at AC-3 maximum	750 1/h			
• at AC-3 maximum	750 1/h			
• at AC-4 maximum	130 1/h			
Control circuit/ Control				
	AC/DC			
type of voltage of the control supply voltage control supply voltage at AC				
• at 50 Hz rated value	23 26 V			
at 60 Hz rated value	23 26 V			
control supply voltage at DC	2520 V			
• rated value	23 26 V			
operating range factor control supply voltage rated	2020 V			
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	300 VA			
• at 60 Hz	300 VA			
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	5.0.14			
• at 50 Hz	5.8 VA			
• at 60 Hz	5.8 VA			
inductive power factor with the holding power of the coil				
• at 50 Hz	0.8			
• at 60 Hz	0.8			
closing power of magnet coil at DC	360 W			
holding power of magnet coil at DC	5.2 W			
closing delay				
• at AC	20 95 ms			
• at DC	20 95 ms			
opening delay				
• at AC	40 60 ms			
• at DC	40 60 ms			
arcing time	10 15 ms			
control version of the switch operating mechanism	Standard A1 - A2			
Auxiliary circuit				

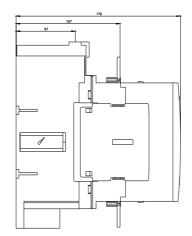
number of NC contacts for auxiliary contacts instantaneous contact	2		
number of NO contacts for auxiliary contacts instantaneous contact	2		
operational current at AC-12 maximum	10 A		
operational current at AC-15			
 at 230 V rated value 	6 A		
• at 400 V rated value	3 A		
• at 500 V rated value	2 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	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	180 A		
 at 600 V rated value 	192 A		
yielded mechanical performance [hp]			
 for single-phase AC motor 			
— at 230 V rated value	30 hp		
 for 3-phase AC motor 			
— at 200/208 V rated value	60 hp		
— at 220/230 V rated value	75 hp		
— at 460/480 V rated value	150 hp		
— at 575/600 V rated value	200 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: 355 A (690 V, 100 kA)		
 — with type of assignment 2 required 	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 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	172 mm		
width	120 mm		
depth	170 mm		
required spacing			
with side-by-side mounting			
— forwards	20 mm		
— upwards	10 mm		
— downwards	10 mm		

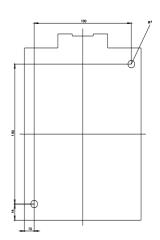
— at the side	0 mm			
 for grounded parts 				
— forwards	20 mm			
— upwards	10 mm			
— at the side	10 mm			
— downwards	10 mm			
 for live parts 				
— forwards	20 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	10 mm			
Connections/ Terminals				
type of electrical connection				
for main current circuit	Connection bar			
 for auxiliary and control circuit 	spring-loaded terminals			
 at contactor for auxiliary contacts 	Spring-type terminals			
of magnet coil	Spring-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	4 250 kcmil			
	4 250 KCITIII			
connectable conductor cross-section for main contacts				
stranded	25 120 mm²			
connectable conductor cross-section for auxiliary contacts				
 solid or stranded 	0.25 2.5 mm²			
 finely stranded with core end processing 	0.25 1.5 mm²			
 finely stranded without core end processing 	0.25 2.5 mm²			
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)			
 at AWG cables for auxiliary contacts 	2x (24 14)			
AWG number as coded connectable conductor cross section				
 for auxiliary contacts 	24 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			
B10 value with high demand rate according to SN 31920	1 000 000			
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover			
touch protection on the front according to IEC 60529				
suitability for use				
Suitability for use	Yes			
 safety_related switching OEE 	100			
safety-related switching OFF				
safety-related switching OFF Certificates/ approvals General Product Approval				

EMC	Functional Safety/Safety of Machinery	Declaration of Conformity		Test Certificates		
RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK CA	Special Test Certific- ate	Type Test Certific- ates/Test Report	
Marine / Shipping					other	
ABS	Lloyd's Register uis	PRS	RMRS RMRS	DNV-GL DNV-GL	<u>Miscellaneous</u>	
other			Railway			
Confirmation <u>Special Test Certific-</u> <u>ate</u>						
Further information						
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10						
Industry Mall (Onlin	Industry Mall (Online ordering system)					
	https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1056-2AB36 Cax online generator					
		CAXorder/default.aspx	?lang=en&mlfb=3RT10	56-2AB36		
https://support.indust	lanuals, Certificates, C ry.siemens.com/cs/ww/	en/ps/3RT1056-2AB36				
Image database (pro	Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)					

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1056-2AB36&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-2AB36/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1056-2AB36&objecttype=14&gridview=view1







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