SIEMENS

Data sheet

3RT1065-6AB36



power contactor, AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC operation 23-26 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S10 busbar connections drive: conventional screw terminal

product designation Power contactor product type designation 3RT1 concrait technical data S10 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 54 W • at AC in hot operating state 54 W • at AC in hot operating state per pole 18 W • of main circuit with degree of pollution 3 rated value 1000 V • of main circuit with degree of pollution 3 rated value 500 V • of main circuit with degree of pollution 3 rated value 6 kV • of main circuit rated value 8 kV • of auxiliary circuit rated value 8 kV • of main circuit rated value 8 kV • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 8 kV • at AC 8 // 9 / 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 13.4g / 5 ms, 6.5g / 10 ms	product brand name	SIRIUS
General technical data S10 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 54 W • at AC in hot operating state per pole 18 W 74 W Insulation voltage 74 W 1000 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 6 kV maximum permissible voltage for safe isolation between coll and main contacts according to EN 60947-1 680 V shock resistance a trectangular impulse 8.5g / 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 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 electronically optimized auxiliary switch block typical 000 000 • of the	product designation	Power contactor
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• at DC8,5g / 5 ms, 4,2g / 10 msshock resistance with sine pulse8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• 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 block0000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with	shock resistance at rectangular impulse	
shock resistance with sine pulse isign of any angle of any any angle of any angle of any angle of any angle of any any angle of	• at AC	8,5g / 5 ms, 4,2g / 10 ms
• 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 typical0000 000reference code according to IEC 81346-2 Substance Prohibitance (Date)QAmbient conditions05/01/2012installation altitude at height above sea level maximum • during operation2 000 mambient temperature • during operation-25 +60 °C	• at DC	8,5g / 5 ms, 4,2g / 10 ms
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Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum 2 000 m ambient temperature during operation -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	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 \/
	1 000 V
operational current	1 000 V
 at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-1 	330 A
— up to 690 V at ambient temperature 40 °C rated value	330 A
— up to 690 V at ambient temperature 60 °C rated value	300 A
— up to 1000 V at ambient temperature 40 °C rated value	150 A
— up to 1000 V at ambient temperature 60 °C rated value	150 A
• at AC-3	265 1
— at 400 V rated value — at 500 V rated value	265 A 265 A
— at 500 V rated value — at 690 V rated value	265 A 265 A
— at 1000 V rated value	205 A 95 A
• at AC-3e	
— at 400 V rated value	265 A
— at 500 V rated value	265 A
— at 1000 V rated value	95 A
• at AC-4 at 400 V rated value	230 A
• at AC-5a up to 690 V rated value	290 A
 at AC-5b up to 400 V rated value at AC-6a 	219 A
 — up to 230 V for current peak value n=20 rated value 	265 A
 — up to 400 V for current peak value n=20 rated value 	265 A
— up to 500 V for current peak value n=20 rated value	265 A
 — up to 690 V for current peak value n=20 rated value — up to 1000 V for current peak value n=20 rated 	265 A 95 A
 ap to root v for current peak value n=20 rated value at AC-6a 	
 — up to 230 V for current peak value n=30 rated value 	184 A
 — up to 400 V for current peak value n=30 rated value 	184 A
— up to 500 V for current peak value n=30 rated value	184 A
— up to 690 V for current peak value n=30 rated value	184 A
— up to 1000 V for current peak value n=30 rated value minimum cross-section in main circuit at maximum AC-1	95 A
rated value operational current for approx. 200000 operating	
cycles at AC-4 • at 400 V rated value	117 A
at 690 V rated value	105 A
operational current	
• at 1 current path at DC-1	200.4
— at 24 V rated value	300 A

	22.4
— 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
— at 600 V rated value	2 A
 with 3 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	11 A
— at 600 V rated value	5.2 A
 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
— at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
with 2 current paths in series at DC-3 at DC-5	0.12074
- at 24 V rated value	300 A
— at 110 V rated value	300 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	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 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	75 kW
— at 400 V rated value	132 kW
— at 500 V rated value	160 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
● at AC-3e	
— at 230 V rated value	75 kW
— at 400 V rated value	132 kW
— at 500 V rated value	160 kW
— at 1000 V rated value	132 kW
operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	66 kW
• at 690 V rated value	102 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	100 000 kVA
 up to 400 V for current peak value n=20 rated value 	180 000 VA
 up to 500 V for current peak value n=20 rated value 	220 000 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	160 000 VA
value	
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	70 000 VA
 up to 400 V for current peak value n=30 rated value 	120 000 VA
• up to 500 V for current peak value n=30 rated value	150 000 VA

 up to 690 V for current peak value n=30 rated value 	220 000 VA
 up to 1000 V for current peak value n=30 rated 	160 000 VA
value	
short-time withstand current in cold operating state up to 40 °C	
•	4 880 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 1 s switching at zero current maximum 	
 limited to 5 s switching at zero current maximum 	4 045 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	2 785 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	1 664 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	1 276 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 	800 1/h
 at AC-2 maximum 	300 1/h
 at AC-3 maximum 	700 1/h
 at AC-3e maximum 	700 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	23 26 V
• at 60 Hz rated value	23 26 V
control supply voltage at DC	
rated value	23 26 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 VA
• at 60 Hz	590 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	
• at 50 Hz	6.7 VA
• at 60 Hz	6.7 VA
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	2
instantaneous contact	

number of NO contacts for auxiliary contacts2instantaneous contact10 Aoperational current at AC-12 maximum10 Aoperational current at AC-156 A• at 230 V rated value3 A• at 400 V rated value2 A• at 500 V rated value1 Aoperational current at DC-1210 A• at 48 V rated value6 A• at 60 V rated value6 A• at 24 V rated value6 A• at 60 V rated value6 A• at 220 V rated value3 A• at 125 V rated value3 A• at 220 V rated value1 A• at 220 V rated value1 A• at 600 V rated value1 A• at 125 V rated value3 A• at 220 V rated value1 A• at 600 V rated value1 A• at 125 V rated value3 A• at 220 V rated value1 A• at 600 V rated value1 A• at 220 V rated value1 A• at 220 V rated value1 A• at 600 V rated value1 A• at 600 V rated value1 A• at 220 V rated value1 A• at 600 V	
operational current at AC-12 maximum10 Aoperational current at AC-156 A• at 230 V rated value3 A• at 400 V rated value3 A• at 500 V rated value2 A• at 690 V rated value1 Aoperational current at DC-12• at 24 V rated value10 A• at 48 V rated value6 A• at 60 V rated value6 A• at 110 V rated value3 A• at 220 V rated value3 A• at 220 V rated value1 A• at 600 V rated value1 A• at 600 V rated value2 A• at 600 V rated value3 A• at 220 V rated value1 A• at 600 V rated value1 A	
operational current at AC-15• at 230 V rated value6 A• at 400 V rated value3 A• at 500 V rated value2 A• at 690 V rated value1 Aoperational current at DC-1210 A• at 24 V rated value6 A• at 48 V rated value6 A• at 60 V rated value3 A• at 24 V rated value6 A• at 25 V rated value3 A• at 220 V rated value1 A• at 600 V rated value2 A• at 600 V rated value1 A• at 600 V rated value1 A• at 600 V rated value1 A• at 600 V rated value0.15 A	
 at 230 V rated value 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 400 V rated value3 A• at 500 V rated value2 A• at 690 V rated value1 Aoperational current at DC-1210 A• at 24 V rated value6 A• at 48 V rated value6 A• at 60 V rated value3 A• at 110 V rated value3 A• at 220 V rated value1 A• at 600 V rated value1 A	
 at 500 V rated value at 690 V rated value 1 A operational current at DC-12 at 24 V rated value at 48 V rated value 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 0.15 A 	
• at 690 V rated value1 Aoperational current at DC-1210 A• at 24 V rated value10 A• at 48 V rated value6 A• at 60 V rated value3 A• at 110 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A	
operational current at DC-1210 A• at 24 V rated value10 A• at 48 V rated value6 A• at 60 V rated value3 A• at 110 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A	
• at 24 V rated value10 A• at 48 V rated value6 A• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A	
 at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value 1 A at 600 V rated value 0.15 A 	
• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A	
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value 0.15 A 	
 at 125 V rated value at 220 V rated value at 600 V rated value 0.15 A 	
at 220 V rated value 1 A 15 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	
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 240 A	
at 600 V rated value 242 A	
yielded mechanical performance [hp]	
for 3-phase AC motor	
- at 200/208 V rated value 75 hp	
— at 220/230 V rated value 100 hp	
— at 460/480 V rated value 200 hp	
— at 575/600 V rated value 250 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), aM: 315 A (690 V, 50 kA), BS88: 40	0 A (415
V, 50 kA)	
• for short-circuit protection of the auxiliary switch gG: 10 A (500 V, 1 kA)	
required	
Installation/ mounting/ dimensions	
mounting position with vertical mounting surface +/-90° rotatable, with vertical mou	nting
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	

0 mm 0 mm 20 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm Connection bar crew-type terminals Screw-type terminals Screw-type terminals Screw-type terminals 25 mm 6 mm 1 mm 2/0 500 kcmil /0 240 mm ²		
20 mm 0 mm 0 mm 0 mm 0 mm Connection bar acrew-type terminals Screw-type terminals Screw-type terminals 25 mm 1 mm 2/0 500 kcmil		
0 mm 0 mm 0 mm 0 mm Connection bar screw-type terminals Screw-type terminals Screw-type terminals 25 mm 1 mm 2/0 500 kcmil		
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Screw-type terminals 25 mm 3 mm 1 mm 2/0 500 kcmil		
25 mm 3 mm 1 mm 2/0 500 kcmil		
5 mm 1 mm 2/0 500 kcmil		
1 mm 2/0 500 kcmil		
2/0 500 kcmil		
2/0 500 kcmil		
′0 240 mm²		
'0 240 mm²		
0.5 4 mm²		
0.5 2.5 mm²		
2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)		
2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)		
2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
2x (20 16), 2x (18 14), 1x 12		
18 14		
Yes		
10		
1 000 000		
IP00; IP20 with box terminal/cover		
inger-safe, for vertical contact from the front with box terminal/cover		
/es		

RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK CA	Type Test Certific- ates/Test Report	Special Test Certific- ate
Test Certificates	Marine / Shipping				
<u>Miscellaneous</u>	ABS	Lloyds Register uis	PRS	RMRS R	DIVUCEL DIVUCEL
other				Railway	
Confirmation	Miscellaneous	<u>Miscellaneous</u>	Confirmation	Special Test Certific- ate	

Further	information
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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=3RT1065-6AB36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1065-6AB36

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

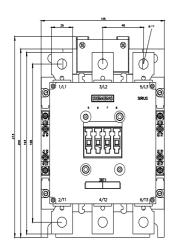
https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6AB36

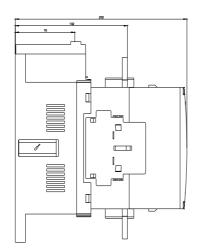
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1065-6AB36&lang=en

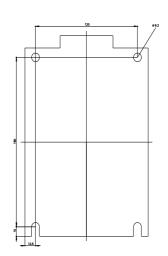
Characteristic: Tripping characteristics, I2t, Let-through current

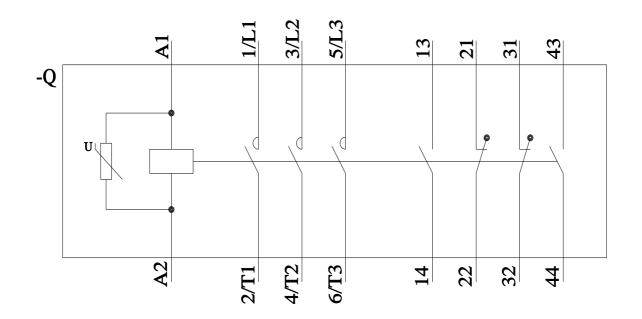
https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6AB36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1065-6AB36&objecttype=14&gridview=view1









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