SIEMENS

Data sheet

3RT1065-2NB36



power contactor, AC-3e/AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC Uc: 21-27, 3 V PLC input 24 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic main circuit: busbar control and auxiliary circuit: spring-loaded terminal

product brand name product designation product type designation	SIRIUS		
· · · · · · · · · · · · · · · · · · ·			
product type designation	Power contactor		
product type designation	3RT1		
General technical data			
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		
 without load current share typical 	3.4 W		
insulation voltage			
 of main circuit with degree of pollution 3 rated value 	1 000 V		
 of auxiliary circuit with degree of pollution 3 rated value 	500 V		
surge voltage resistance			
 of main circuit rated value 	8 kV		
 of auxiliary circuit rated value 	6 kV		
maximum permissible voltage for protective separation between coil and main contacts according 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 (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)	05/01/2012		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
 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 %		

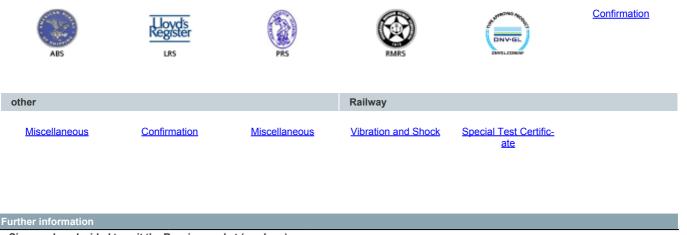
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	1 000 V
 at AC-3e rated value maximum 	1 000 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	330 A
• at AC-1	
— up to 690 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 $^\circ\mathrm{C}$ rated value	150 A
• at AC-3	
— at 400 V rated value	265 A
— at 500 V rated value	265 A
— at 690 V rated value	265 A
— at 1000 V rated value	95 A
• at AC-3e	
— at 400 V rated value	265 A
— at 500 V rated value	265 A
— at 690 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 	219 A
● at AC-6a	
— 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	265 A
 — up to 1000 V for current peak value n=20 rated value 	95 A
● 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 	95 A
minimum cross-section in main circuit at maximum AC-1 rated value	185 mm²
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	
— at 24 V rated value	300 A
— at 60 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 60 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 60 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 60 V rated value	11 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 	
— at 24 V rated value	300 A
— at 60 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 60 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	75.111
— 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 220 V retadivalua	
— 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 — at 1000 V rated value	250 kW 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 value 	160 000 VA
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 value	160 000 VA
short-time withstand current in cold operating state up to	

40.90					
40 °C	4 000 At Lles minimum grass sociar and to AC 4 retail value				
Imited to 1 s switching at zero current maximum	4 880 A; Use minimum cross-section acc. to AC-1 rated value				
Imited to 5 s switching at zero current maximum	4 045 A; Use minimum cross-section acc. to AC-1 rated value				
Imited to 10 s switching at zero current maximum	2 785 A; Use minimum cross-section acc. to AC-1 rated value				
Imited 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	4 000 4/				
• at AC	1 000 1/h				
• at DC	1 000 1/h				
operating frequency	200.44				
• at AC-1 maximum	800 1/h				
• at AC-2 maximum	250 1/h				
• at AC-3 maximum	500 1/h				
• at AC-3e maximum	500 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	21 27.3 V				
• at 60 Hz rated value	21 27.3 V				
control supply voltage at DC					
rated value	21 27.3 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	Type 2				
consumed current at PLC-control input according to IEC 60947-1 maximum	20 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 of magnet coil at AC					
• at 50 Hz	530 VA				
• at 60 Hz	530 VA				
inductive power factor with closing power of the coil					
● at 50 Hz	0.8				
• at 60 Hz	0.8				
apparent holding power of magnet coil at AC					
• at 50 Hz	8.5 VA				
• at 60 Hz	8.5 VA				
inductive power factor with the holding power of the coil					
• at 50 Hz	0.4				
• at 60 Hz	0.4				
closing power of magnet coil at DC	580 W				
holding power of magnet coil at DC	3.4 W				
closing delay					
• at AC	45 80 ms				
• at DC	45 80 ms				
opening delay					
• at AC	80 100 ms				
• at DC	80 100 ms				
arcing time	10 15 ms				
control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)				
Auxiliary circuit					
number of NC contacts for auxiliary contacts instantaneous contact	2				
number of NO contacts for auxiliary contacts instantaneous	2				

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	2 A 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 	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: 400 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	210 mm				
width	145 mm				
depth	202 mm				
required spacing					
with side-by-side mounting	20				
— forwards	20 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	0 mm				
for grounded parts forwards	20 mm				
— forwards	20 mm				
— upwards	10 mm				
— at the side	10 mm				
— downwards	10 mm				

 for live parts 							
— forwards			20 mm				
— upwards			10 mm				
- downwards	3		10 mm				
— at the side	-		10 mm				
Connections/ Terminal	s						
type of electrical con							
for main current			Connection	har			
 for auxiliary and 			spring-loade				
 at contactor for a 			Spring-type				
 of magnet coil 			Spring-type				
width of connection k	ar		25 mm	terminais			
thickness of connect			6 mm				
diameter of holes			11 mm				
number of holes			1				
	or cross-section for main	contacts	1				
stranded	or cross-section for main	contacts	70 240 m	m ²			
	or cross-section for auxil	iany contacts	70 240 11				
 solid or stranded 		lary contacts	0.25 2.5 (mm²			
	vith core end processing		0.25 2.51				
-	without core end processing	1	0.25 1.51				
-			0.20 2.01				
 for auxiliary confidence 	conductor cross-sections						
• for auxiliary com — solid	lacis		2x (0.25 2	2.5 mm^2			
— solid — solid or stra	andod						
		ing.	2x (0,25 2				
-	ded with core end process	-	2x (0.25)				
-	ded without core end proce for auxiliary contacts	-55119	2x (0.25 2 2x (24 14				
	ed connectable conducto	r cross	2X (24 14)			
section			o				
 for auxiliary cont 	tacts		24 14				
Safety related data			_	_			
product function							
	ccording to IEC 60947-4-1		Yes				
	operation according to IEC		No				
	mand rate according to SN		1 000 000				
T1 value for proof test 61508	interval or service life acco	rding to IEC	20 a	20 a			
protection class IP or	n the front according to I	EC 60529	IP00; IP20 with box terminal/cover				
touch protection on t	he front according to IEC	60529	finger-safe,	for vertical conta	act from the front with box ter	minal/cover	
suitability for use						
 safety-related sv 	vitching OFF		Yes				
Certificates/ approvals	-						
General Product App	oroval						
	Confirmation	-		•	KC		
(5)	ooninnation	(m)		(III)		COC	
				U		ΓΠΙ	
CSA		ccc		UL			
EMC	Functional Safety/Safety of Ma-	Declaration of	Conformity		Test Certificates		
	chinery						
Δ	Type Examination Cer-	שוו	,	~ ~	Special Test Certific-	Type Test Certific-	
<i>I</i> ⊘∖	tificate			CE	ate	ates/Test Report	
		СО		EG-Konf			
rus Mi				EG-Konf.			
Marine / Shipping						other	
marine / Shipping						Julei	



Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RT1065-2NB36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1065-2NB36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-2NB36

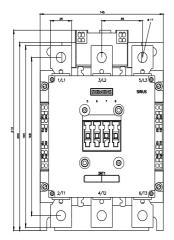
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

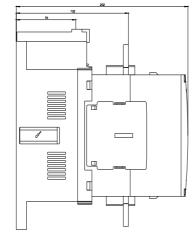
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1065-2NB36&lang=en

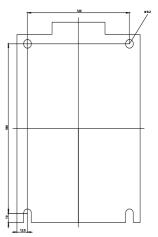
Characteristic: Tripping characteristics, I2t, Let-through current

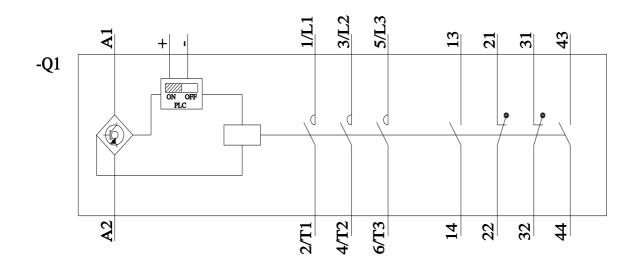
https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-2NB36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1065-2NB36&objecttype=14&gridview=view1









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