SIEMENS

Data sheet

3RT1065-6NP36-3PA0



power contactor, AC-3e/AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC Uc: 200-277 V 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	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 (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 33 value	30 A			
• at AC-1				
— up to 690 V at ambient temperature 40 °C rated 33 value	30 A			
— up to 690 V at ambient temperature 60 °C rated 30 value	300 A			
value	50 A			
value	50 A			
• at AC-3				
	65 A			
	65 A			
	65 A			
	5 A			
• at AC-3e				
	65 A			
	65 A			
	65 A			
	5 A			
	30 A			
	90 A			
at AC-5b up to 400 V rated value 21 at AC-6a	19 A			
— up to 230 V for current peak value n=20 rated value 26	65 A			
— up to 400 V for current peak value n=20 rated value 26	65 A			
— up to 500 V for current peak value n=20 rated value 26	65 A			
	65 A			
value	5 A			
• at AC-6a				
	84 A			
	84 A			
	84 A			
	84 A 5 A			
value	35 mm ²			
value operational current for approx. 200000 operating cycles at				
AC-4				
• at 400 V rated value 11	17 A			
at 690 V rated value	05 A			
operational current				
• at 1 current path at DC-1				
— at 24 V rated value 30	A 00			
— at 60 V rated value 30	A 00			
— at 110 V rated value 33	3 A			
- at 220 V rated value 3.8	8 A			
- at 440 V rated value 0.9	9 A			
- at 600 V rated value 0.6	6 A			
 with 2 current paths in series at DC-1 				
- at 24 V rated value 30	A 00			
— at 60 V rated value 30	00 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-2 at 400 V rated value 	132 kW
• 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 690 V rated value	250 kW
— at 1000 V rated value	132 kW
operating power for approx. 200000 operating cycles at AC-	
4	66 100
at 400 V rated value	66 kW
• at 690 V rated value	102 kW
operating apparent power at AC-6a	400.000 12/4
• 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	70.000 \/A
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 °C					
 limited to 1 s switching at zero current maximum 	4 880 A: Use minimum cross-section acc. to AC-1 rated value				
 limited to 5 s switching at zero current maximum 	4 880 A; Use minimum cross-section acc. to AC-1 rated value				
Imited to 0 s switching at zero current maximum	4 045 A; Use minimum cross-section acc. to AC-1 rated value 2 785 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 30 s switching at zero current maximum 					
 Imited to 60 s switching at zero current maximum Imited to 60 s switching at zero current maximum 	1 664 A; Use minimum cross-section acc. to AC-1 rated value 1 276 A; Use minimum cross-section acc. to AC-1 rated value				
no-load switching frequency	1270 A, Use minimum cruss-section acc. to AC-11ated value				
• at AC	1 000 1/b				
• at DC	1 000 1/h 1 000 1/h				
operating frequency					
• at AC-1 maximum	800 1/h				
• at AC-2 maximum	250 1/h				
• at AC-3 maximum					
• at AC-3e maximum	500 1/h 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	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 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					
 at minimum rated control supply voltage at AC 					
— at 50 Hz	400 VA				
— at 60 Hz	400 VA				
 at maximum rated control supply voltage at AC 					
— at 60 Hz	530 VA				
— at 50 Hz	530 VA				
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					
at minimum rated control supply voltage at DC	2.8 VA				
at maximum rated control supply voltage at DC	3.4 VA				
apparent holding power					
at minimum rated control supply voltage at AC					
— at 50 Hz	5.5 VA				
— at 60 Hz	5.5 VA				
at maximum rated control supply voltage at AC					
— at 50 Hz	8.5 VA				
— at 60 Hz	8.5 VA				
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				
	2			
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			
	2 A			
at 60 V rated value				
• 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	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 					
— 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 diameter of holes	6 mm 11 mm				
number of holes	1				
connectable conductor cross-section for main contacts	70 240 mm²				
stranded	70 240 IIIIII ⁻				
connectable conductor cross-section for auxiliary contacts	0.5 4 mm²				
• solid or stranded	0.5 4 mm ²				
finely stranded with core end processing	0.5 2.5 mm ²				
type of connectable conductor cross-sections					
for auxiliary contacts					
— solid	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), max. 2x (0.75 4 mm ²)				
— 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 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 14				
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				
B10 value with high demand rate according to SN 31920	1 000 000				
T1 value for proof test interval or service life according to IEC 61508	20 a				
	IP00; IP20 with box terminal/cover				
protection class IP on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover				
touch protection on the front according to IEC 00500	inger-sale, for vertical contact from the front with box terminal/cover				
touch protection on the front according to IEC 60529	3.				
suitability for use					
• safety-related switching on	No				
suitability for use					

	<u>Confirmation</u>			<u>KC</u>	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conform	iity	Test Certificates	
RCM	<u>Type Examination Cer-</u> tificate	CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>
Marine / Shipping					other
ABS	Lloyds Register urs	PRS	KMRS	DIVIGL DIVIGL	<u>Miscellaneous</u>
other		Railway			
Confirmation	<u>Miscellaneous</u>	<u>Special Test Certific-</u> <u>ate</u>			

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,...)

om/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1065-6NP36-3PA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1065-6NP36-3PA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) 3PA0

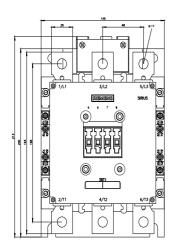
https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6NP36

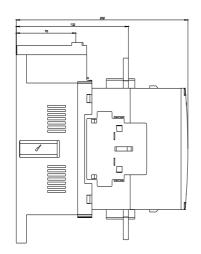
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1065-6NP36-3PA0&lang=en

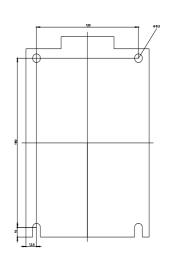
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6NP36-3PA0/char

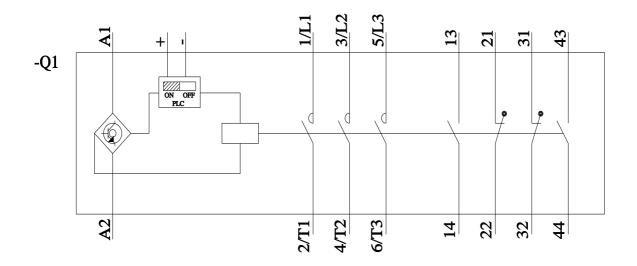
Further characteristics (e.g. electrical endurance, switching frequency)

3RT1065-6NP36-3PA0&objecttype=14&gridview=view1 http://www.automation.si s.com/bilddb/index









7/8/2023 🖸