SIEMENS

Data sheet 3RT1065-2NP36



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 drive: electronic main circuit: busbar control and auxiliary circuit: spring-loaded 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 safe isolation 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 °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 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 up to 1000 V for current peak value n=30 rated 	184 A 95 A
value minimum cross-section in main circuit at maximum AC-1	185 mm ²
rated value operational current for approx. 200000 operating	100 11111
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	0.07.
with 2 current paths in series at DO-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	
— 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 at 690 V rated value	102 kW
operating apparent power at AC-6a	IVE IVI
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	

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no-load switching frequency	_	•		
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		1 000 1/h		
operating frequency at AC-2 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum 500 1th at AC-4 maximum 500 1th 500 1th 500 1th 500 1th 500 1th 500 1th 600 1th 6				
		1 000 1/11		
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 at 50 Hz at 60 Hz Closing power of magnet coil at DC holding power of magnet coil at DC holding power of magnet coil at DC 3.4 W closing delay at AC at DC at DC at AC at AC at AC at AC at DC a	inductive power factor with the holding power of the			
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instantaneous contact number of NO contacts for auxiliary contacts 2				
	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	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		
17F 2 0. 800.g = 10441104	V, 50 kA)		
 for short-circuit protection of the auxiliary switch 	gG: 10 A (500 V, 1 kA)		
required			
Installation/ mounting/ dimensions			
Installation/ mounting/ dimensions mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting		
mounting position	surface +/- 22.5° tiltable to the front and back		
mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing		
mounting position fastening method • side-by-side mounting	surface +/- 22.5° tiltable to the front and back screw fixing Yes		
mounting position fastening method • side-by-side mounting height	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm		
mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm		
mounting position fastening method • side-by-side mounting height width depth	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm		
mounting position fastening method • side-by-side mounting height width depth required spacing	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm		
mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm		
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm		
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm		
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm		
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm		
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 0 mm		
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 0 mm		
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — at the side • for grounded parts — forwards — upwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 10 mm 10 mm		
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 10 mm 10 mm 10 mm		
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — upwards — upwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 10 mm 10 mm		
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — upwards — upwards — at the side • for downwards — at the side — downwards — at the side — downwards • for live parts	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm		
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — upwards — upwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 10 mm 10 mm 10 mm		

- downwards 10 mm 10 mm - at the side 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 25 mm thickness of connection bar 6 mm diameter of holes 11 mm number of holes 1 connectable conductor cross-section for main contacts 70 ... 240 mm² stranded 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)

Safety related data

for auxiliary contacts

section

product function

• mirror contact according to IEC 60947-4-1

 positively driven operation according to IEC 60947-5-1

B10 value with high demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508

AWG number as coded connectable conductor cross

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 suitability for use

safety-related switching OFF

Yes

24 ... 14

No

1 000 000 20 a

IP00; IP20 with box terminal/cover

finger-safe, for vertical contact from the front with box terminal/cover

Yes

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



Functional
Safety/Safety of Machinery

EMC Declaration of Conformity Test Certificates



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping other













other			Railway	
Confirmation	<u>Miscellaneous</u>	Confirmation	Special Test Certific- ate	Vibration and Shock

Further information

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=3RT1065-2NP36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1065-2NP36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-2NP36

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

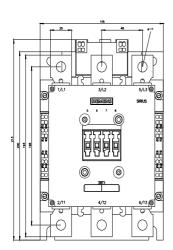
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1065-2NP36&lang=en

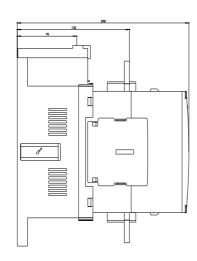
Characteristic: Tripping characteristics, I2t, Let-through current

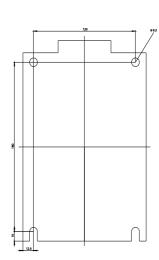
https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-2NP36/char

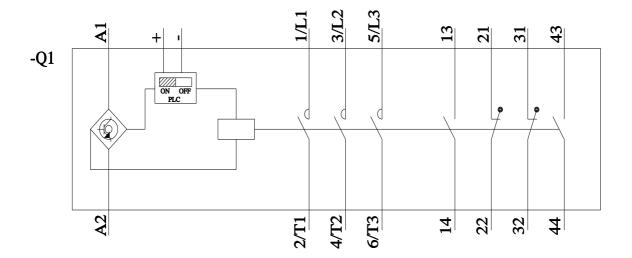
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1065-2NP36&objecttype=14&gridview=view1









last modified: 2/10/2023 🖸