# SIEMENS

## Data sheet

# 3RT1065-6AD36



Power contactor, AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC operation 42-48 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S10 Busbar connections Drive: conventional screw terminal

product brand name	SIRIUS			
product designation	Power contactor			
product type designation	3RT1			
General technical data				
size of contactor	S10			
product extension				
<ul> <li>function module for communication</li> </ul>	No			
<ul> <li>auxiliary switch</li> </ul>	Yes			
power loss [W] for rated value of the current at AC in hot operating state	54 W			
• per pole	18 W			
power loss [W] for rated value of the current without load current share typical	7.4 W			
surge voltage resistance				
<ul> <li>of main circuit rated value</li> </ul>	8 kV			
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV			
maximum permissible voltage for safe isolation between coil and main contacts acc. 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 (switching cycles)				
<ul> <li>of contactor typical</li> </ul>	10 000 000			
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000			
of the contactor with added auxiliary switch block     typical	10 000 000			
reference code acc. to IEC 81346-2	Q			
Substance Prohibitance (Date)	01.05.2012 00:00:00			
Ambient conditions				
installation altitude at height above sea level maximum	2 000 m			
<ul> <li>ambient temperature during operation</li> </ul>	-25 +60 °C			
ambient temperature during storage	-55 +80 °C			
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     operational current	1 000 V
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> <li>at AC-1</li> </ul>	330 A
<ul> <li>at AC-1</li> <li>— up to 690 V at ambient temperature 40 °C rated value</li> </ul>	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-4 at 400 V rated value	230 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	290 A
<ul><li>at AC-5b up to 400 V rated value</li><li>at AC-6a</li></ul>	219 A
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	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 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	95 A
<ul> <li>at AC-6a</li> </ul>	55 A
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	184 A
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	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 185 mm <sup>2</sup>
rated value operational current for approx. 200000 operating	
cycles at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	117 A
• at 690 V rated value	105 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— 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								
<ul> <li>with 3 current paths in series at DC-1</li> </ul>									
— 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					11 A			
— at 600 V rated value	5.2 A								
operational current									
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>									
— 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								
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>									
— 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	0.73 A								
• at AC-3									
- at 230 V rated value	75 kW								
— at 400 V rated value									
— at 500 V rated value	132 kW								
— at 690 V rated value	160 kW								
— 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 kV·A								
• up to 400 V for current peak value n=20 rated value	180 000 V·A								
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	220 000 V·A								
• up to 690 V for current peak value n=20 rated value	310 000 V·A								
• up to 1000 V for current peak value n=20 rated	160 000 V·A								
value									
operating apparent power at AC-6a									
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	70 000 V·A								
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	120 000 V·A								
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	150 000 V·A								
• up to 690 V for current peak value n=30 rated value	220 000 V·A								
• up to 1000 V for current peak value n=30 rated	160 000 V·A								
value									
short-time withstand current in cold operating state									
up to 40 °C									
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								
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	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	
<ul> <li>at AC-1 maximum</li> </ul>	800 1/h
<ul> <li>at AC-2 maximum</li> </ul>	300 1/h
<ul> <li>at AC-3 maximum</li> </ul>	700 1/h
<ul> <li>at AC-4 maximum</li> </ul>	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	42 48 V
<ul> <li>at 60 Hz rated value</li> </ul>	42 48 V
control supply voltage at DC	
rated value	42 48 V
operating range factor control supply voltage rated	
value of magnet coil at DC	
<ul> <li>initial value</li> </ul>	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 V·A
inductive power factor with closing power of the coil	
• at 50 Hz	0.9
apparent holding power of magnet coil at AC	
• at 50 Hz	6.7 V·A
inductive power factor with the holding power of the coil	
• at 50 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 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
<ul> <li>at 500 V rated value</li> </ul>	2 A
at 690 V rated value	1A
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 125 v Taleu Value	2 N

at 220 V rated value	1 A				
at 600 V rated value	0.15 A				
operational current at DC-13					
<ul> <li>at 24 V rated value</li> </ul>	10 A				
<ul> <li>at 48 V rated value</li> </ul>	2 A				
<ul> <li>at 60 V rated value</li> </ul>	2 A				
<ul> <li>at 110 V rated value</li> </ul>	1 A				
<ul> <li>at 125 V rated value</li> </ul>	0.9 A				
<ul> <li>at 220 V rated value</li> </ul>	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					
<ul> <li>at 480 V rated value</li> </ul>	240 A				
• at 600 V rated value	242 A				
yielded mechanical performance [hp]					
<ul> <li>for 3-phase AC motor</li> </ul>					
— 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					
<ul> <li>for short-circuit protection of the main circuit</li> </ul>					
<ul> <li>— with type of coordination 1 required</li> </ul>	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)				
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 10 A (500 V, 1 kA)				
required					
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	surface +/- 22.5° tiltable to the front and back				
fastening method • side-by-side mounting	surface +/- 22.5° tiltable to the front and back screw fixing Yes				
side-by-side mounting	screw fixing Yes				
side-by-side mounting     height	screw fixing Yes 210 mm				
side-by-side mounting     height     width	screw fixing Yes 210 mm 145 mm				
side-by-side mounting     height     width     depth	screw fixing Yes 210 mm				
side-by-side mounting     height     width     depth     required spacing	screw fixing Yes 210 mm 145 mm				
side-by-side mounting     height     width     depth	screw fixing Yes 210 mm 145 mm 202 mm				
side-by-side mounting     height     width     depth     required spacing         • with side-by-side mounting         — forwards	screw fixing Yes 210 mm 145 mm				
side-by-side mounting     height     width     depth     required spacing         • with side-by-side mounting	screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm				
side-by-side mounting      height      width      depth      required spacing          with side-by-side mounting          — forwards          — upwards          — downwards	screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm				
<ul> <li>side-by-side mounting</li> <li>height         <ul> <li>width</li> <li>depth</li> </ul> </li> <li>required spacing         <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> </ul>	screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm				
side-by-side mounting      height      width      depth      required spacing          • with side-by-side mounting              — forwards              — upwards              — downwards              — at the side          • for grounded parts	screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 0 mm				
side-by-side mounting      height      width      depth      required spacing          • with side-by-side mounting              — forwards              — upwards              — downwards              — at the side          • for grounded parts              — forwards              — forwards              — at the side          • for grounded parts              — forwards              — forwards              — forwards              — forwards              — at the side              • for grounded parts              — forwards	screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 0 mm 20 mm				
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              — upwards              — upwards              — upwards              — upwards              — upwards              — upwards              — of orwards              — upwards              — upwards              — upwards              — forwards              — upwards              — upwards             — upwards             — upwards             — upwards             — upwards             — upwards             — upwards             — upwards             — upwards             — upwards             — upwards	screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 0 mm 20 mm				
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<ul> <li>side-by-side mounting</li> <li>height         <ul> <li>width</li> <li>depth</li> </ul> </li> <li>required spacing         <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>for grounded parts         <ul> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>at the side</li> <li>for live parts</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>forwards</li> <li>at the side</li> <li>for live parts</li> <li>at the side</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>Mountain the side</li> </ul>	screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm				
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<ul> <li>side-by-side mounting</li> <li>height         <ul> <li>width</li> <li>depth</li> </ul> </li> <li>required spacing         <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>for grounded parts         <ul> <li>forwards</li> <li>at the side</li> <li>for grounded parts</li> <li>at the side</li> <li>of orwards</li> <li>at the side</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>forwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>at the side</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>Connections/ Terminals</li> </ul>	screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm				

number of holes			1				
type of electrical cor	nnection						
<ul> <li>for main current</li> </ul>			Connection bar				
<ul> <li>for auxiliary and</li> </ul>			screw-type terminals				
at contactor for			Screw-type terminals				
<ul> <li>of magnet coil</li> </ul>	duxinary contacto						
	conductor cross-sec	tions	Screw-type terminals				
at AWG cables		lions	2/0 500 kcmil				
	tor cross-section for	main	2/0 500 KGHIII				
<ul> <li>stranded</li> </ul>			70 240 mm²				
connectable conduc	tor cross-section for	auxiliary					
<ul> <li>solid or strande</li> </ul>	d		0.5 4 mm²				
<ul> <li>finely stranded</li> </ul>	with core end processi	na	0.5 2.5 mm²				
•	conductor cross-sec	•	010 111 210 1111				
<ul> <li>for auxiliary con</li> </ul>							
— solid			$2x(0.5 - 1.5 \text{ mm}^2)$	<sup>2</sup> ) 2x (0.75	2.5 mm²), max. 2x	$(0.75 \ 4 \text{ mm}^2)$	
— solid — solid or str	anded				2,5 mm²), max. 2x (		
		ressing	2x (0,5 1,5 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup>			(0,75411111)	
-	nded with core end proo for auxiliary contacts	Jessing		, ,	,		
AWG number a	s coded connectable c	onductor	2x (20 16), 2x (18 14), 1x 12 18 14				
cross section for a	auxiliary contacts						
Safety related data	amond asta and to ON	24000	4 000 000	_	_		
	emand rate acc. to SN	31920	1 000 000				
product function			N/				
	acc. to IEC 60947-4-1		Yes				
	n operation acc. to IEC		No				
•	on the front acc. to IE		IP00; IP20 with bo				
			finger-safe, for vertical contact from the front with box terminal/cover				
,	ety-related switching OF	-F	Yes				
Certificates/ approval	S			_			
General Product Ap	proval					EMC	
		<b>U</b>	KC		EHC	RCM	
Declaration of Conf	ormity	Test Certifica	tes	ľ	Marine / Shipping		
<u>Miscellaneous</u>	CE EG-Konf.	<u>Special Ter</u> <u>Certificate</u>	<u>st Type 1</u> <u>Certificate</u> <u>Repc</u>	es/Test	ABS	RMRS	
Marine / Shipping	other					Railway	
	Miscollancous	Confirmation	n Misseller		Confirmation	Special Test	
DNV-GL DNV-GL	<u>Miscellaneous</u>	<u>Confirmatio</u>	<u>n Miscella</u> r	<u>ieous</u>	<u>Confirmation</u>	<u>Special Test</u> <u>Certificate</u>	

### Further information

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=3RT1065-6AD36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1065-6AD36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6AD36

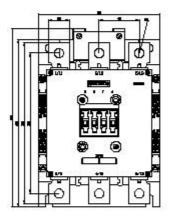
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1065-6AD36&lang=en

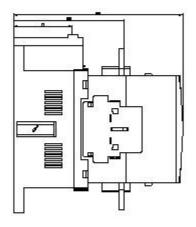
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

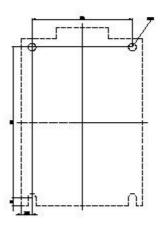
https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6AD36/char

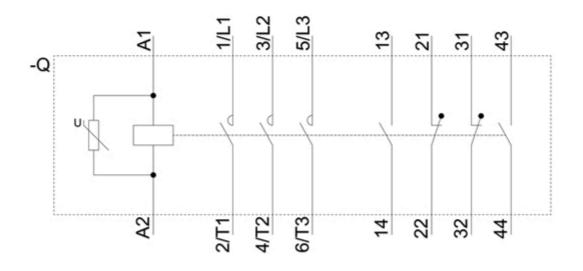
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1065-6AD36&objecttype=14&gridview=view1









last modified:

12/18/2020 🖸