SIEMENS

Data sheet 3RT1065-2AB36





power contactor, AC-3e/AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC Uc: 23-26 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional 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 	7.4 W
type of calculation of power loss depending on pole	quadratic
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
SVHC substance name	Lead - 7439-92-1
Weight	6.586 kg
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 %
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	548 kg
global warming potential [CO2 eq] during manufacturing	31.5 kg
global warming potential [CO2 eq] during sales	2.6 kg
global warming potential [CO2 eq] during operation	521 kg
global warming potential [CO2 eq] after end of life	-7.22 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
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	220 A
— up to 690 V at ambient temperature 40 °C rated value	330 A 300 A
— up to 690 V at ambient temperature 60 °C rated value	150 A
 — up to 1000 V at ambient temperature 40 °C rated value — up to 1000 V at ambient temperature 60 °C rated 	150 A
value • at AC-3	190 A
— 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 valueup to 1000 V for current peak value n=30 rated	184 A 95 A
minimum cross-section in main circuit at maximum AC-1 rated	185 mm²
value operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	117 A
₹ at 700 v rated value	TILL

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 440 V rated value — at 600 V rated value	5.2 A
at 1 current path at DC-3 at DC-5	U.E. / (
— at 24 V rated value	300 A
	11 A
— at 60 V rated value	
— 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	000 4
— 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 690 V rated value	250 kW
— at 1000 V rated value	132 kW
operating power for approx. 200000 operating cycles at AC-	
4	
at 400 V rated value	COLIM
♥ at +00 v rated value	66 kW

operating apparent power at AC-6a				
 up to 230 V for current peak value n=20 rated value 	100 kVA			
 up to 400 V for current peak value n=20 rated value 	180 kVA			
 up to 500 V for current peak value n=20 rated value 	220 kVA			
 up to 690 V for current peak value n=20 rated value 	310 kVA			
 up to 1000 V for current peak value n=20 rated value 	160 kVA			
operating apparent power at AC-6a				
up to 230 V for current peak value n=30 rated value	70 kVA			
• up to 400 V for current peak value n=30 rated value	120 kVA			
• up to 500 V for current peak value n=30 rated value	150 kVA			
• up to 690 V for current peak value n=30 rated value	220 kVA			
• up to 1000 V for current peak value n=30 rated value	160 kVA			
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 	4 045 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			
 limited 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	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	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				
 at minimum rated control supply voltage at AC 				
— at 50 Hz	490 VA			
— at 60 Hz	490 VA			
at maximum rated control supply voltage at AC				
— at 60 Hz	590 VA			
— at 50 Hz	590 VA			
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				
at minimum rated control supply voltage at DC	6.1 VA			
at maximum rated control supply voltage at DC at maximum rated control supply voltage at DC	7.4 VA			
apparent holding power				
apparent holding power at minimum rated control supply voltage at AC				
apparent holding power ■ at minimum rated control supply voltage at AC — at 50 Hz	5.6 VA			

ct 60 H-	FCMA		
— at 60 Hz	5.6 VA		
at maximum rated control supply voltage at AC	6.7.1/4		
— 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 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	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 miniature circuit breaker for short-circuit protection	C characteristic: 10 A; 0.4 kA		
of the auxiliary circuit up to 230 V design of the fuse link			
for short-circuit protection of the main circuit			
From others of our protection of the main offull			

 — 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 side-by-side mounting	Yes		
fastening method	screw fixing		
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	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		
type of connectable conductor cross-sections	·		
for AWG cables for main contacts	2/0 500 kcmil		
connectable conductor cross-section for main contacts	2/0 500 KGHIII		
stranded	70 240 mm²		
	70 240 IIIIII		
connectable conductor cross-section for auxiliary contacts • solid or stranded	0.25 2.5 mm²		
	0.25 2.5 mm ²		
finely stranded without earn and processing	0.25 1.5 mm²		
finely stranded without core end processing tune of compactable conductor group costings.	0.25 2.5 mm²		
type of connectable conductor cross-sections			
for auxiliary contacts	0/0.05 0.5		
— 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)		
for AWG cables for auxiliary contacts	2x (24 14)		
AWG number as coded connectable conductor cross section			
	24 14		
for auxiliary contacts Sofety related data	24 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		
 suitable for safety function 	Yes		

suitability for use safety-related switching OFF	Yes
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
Approvals Certificates	

General Product Approval









<u>KC</u>



EMV Functional Saftey Test Certificates Marine / Shipping



Type Examination Certificate

Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report





Marine / Shipping other







Miscellaneous

Confirmation

Miscellaneous

Environment other Railway

Confirmation

Special Test Certific-<u>ate</u>



Siemens **EcoTech**



Environmental Con-firmations

Further information

Information on the packaging

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=3RT1065-2AB36

Cax online generator

.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1065-2AB36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-2AB3

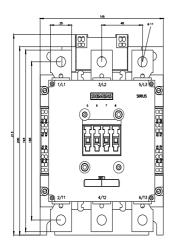
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

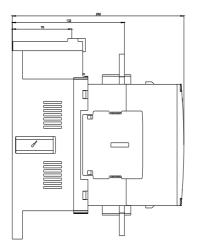
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1065-2AB36&lang=en

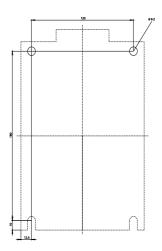
Characteristic: Tripping characteristics, I2t, Let-through current

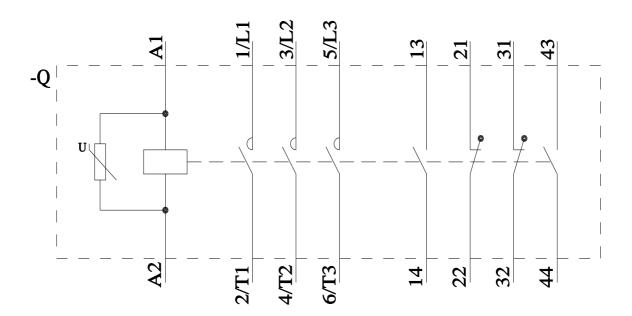
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1065-2AB36&objecttype=14&gridview=view1









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