SIEMENS

Data sheet	3RT1036-1AC20-Z X95	
	CONTACTOR, AC-3 22 KW/400 V, AC 24V 50/60HZ, 3-POLE, SIZE S2, SCREW CONNECTION REUSABLE PACKING PACKING = 30 ITEMS	
product brand name	SIRIUS	
Product designation	power contactor	
General technical data		
Size of contactor	S2	
Insulation voltage		
• rated value	690 V	
Degree of pollution	3	
Surge voltage resistance rated value	6 kV	
maximum permissible voltage for safe isolation		
 between coil and main contacts acc. to EN 60947-1 	400 V	
Protection class IP		
• on the front	IP00	
of the terminal	IP00	
Shock resistance		
at rectangular impulse		
— at AC	10g / 5 ms, 5g / 10 ms	
• with sine pulse		
— at AC	15g / 5 ms, 8g / 10 ms	
Mechanical service life (switching cycles)		
of contactor typical	10 000 000	
 of the contactor with added electronics- compatible auxiliary switch block typical 	5 000 000	
 of the contactor with added auxiliary switch block typical 	10 000 000	
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	
Main circuit		
Number of poles for main current circuit	3	
Number of NO contacts for main contacts	3	
Number of NC contacts for main contacts	0	

Operating current	
● at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	60 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$	60 A
rated value	
 up to 690 V at ambient temperature 60 °C rated value 	55 A
• at AC-3	
— at 400 V rated value	50 A
— at 690 V rated value	24 A
Connectable conductor cross-section in main circuit	
at AC-1	
 at 60 °C minimum permissible 	16 mm²
• at 40 °C minimum permissible	16 mm²
Operating current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	24 A
• at 690 V rated value	12.6 A
Operating current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	25 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
Operating current	
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	35 A
— at 110 V rated value	2.5 A
• with 2 current paths in series at DC-3 at DC-5	
— at 110 V rated value	25 A
— at 24 V rated value	55 A
• with 3 current paths in series at DC-3 at DC-5	
— at 110 V rated value	55 A
— at 24 V rated value	55 A
Operating power	
• at AC-1	
— at 230 V at 60 °C rated value	22 kW

— at 400 V rated value	38 kW
— at 690 V rated value	66 kW
— at 690 V at 60 °C rated value	66 kW
• at AC-2 at 400 V rated value	22 kW
• at AC-3	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	22 kW
Operating power for approx. 200000 operating cycles	
at AC-4	
at 400 V rated value	12.6 kW
• at 690 V rated value	11.4 kW
Thermal short-time current limited to 10 s	400 A
Power loss [W] at AC-3 at 400 V for rated value of	5 W
the operating current per conductor	
No-load switching frequency	
• at AC	5 000 1/h
Operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	800 1/h
• at AC-4 maximum	300 1/h

Control circuit/ Control	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 V
Control supply voltage frequency 1 rated value	50 Hz
Control supply voltage frequency 2 rated value	60 Hz
Operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.85 1.1
Apparent pick-up power of magnet coil at AC	170 V·A
Inductive power factor with closing power of the coil	0.76
Apparent holding power of magnet coil at AC	15 V·A
Inductive power factor with the holding power of the coil	0.35
Closing delay	
• at AC	10 24 ms
Opening delay	

• at AC	7 20 ms		
Arcing time	10 15 ms		
, asing anic	10 III 10 III0		
Auxiliary circuit			
Number of NC contacts			
for auxiliary contacts			
— instantaneous contact	0		
Number of NO contacts			
for auxiliary contacts			
instantaneous contact	0		
Operating current at AC-12 maximum	10 A		
Operating current at AC-15			
• at 230 V rated value	6 A		
• at 400 V rated value	3 A		
Operating current at DC-12			
• at 60 V rated value	6 A		
• at 110 V rated value	3 A		
• at 220 V rated value	1 A		
Operating current at DC-13			
• at 24 V rated value	10 A		
• at 60 V rated value	2 A		
• at 110 V rated value	1 A		
• at 220 V rated value	0.3 A		
Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)		
UL/CSA ratings			
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	fuse gL/gG: 160 A		
— with type of assignment 2 required	fuse gL/gG: 80 A		
 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 10 A		
Installation/ mounting/ dimensions			
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022		
Side-by-side mounting	Yes		
Hoight	112 mm		

Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail		
	according to DIN EN 50022		
 Side-by-side mounting 	Yes		
Height	112 mm		
Width	55 mm		
Depth	115 mm		
Required spacing			
• for grounded parts			

Connections/Terminals	
Type of electrical connection	
• for main current circuit	screw-type terminals
 for auxiliary and control current circuit 	screw-type terminals
Type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (0.75 16 mm²)
— stranded	2x (0.75 25 mm²)
 — single or multi-stranded 	2x (0,75 16 mm²)
 finely stranded with core end processing 	2x (0.75 16 mm²)
 finely stranded without core end 	2x (0.75 16 mm²)
processing	
 at AWG conductors for main contacts 	2x (18 2)
Type of connectable conductor cross-sections	
• for auxiliary contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14), 1x 12

Certificates/approvals

General Prod	duct Approval	Declaration of Conformity	Test Certificates	1	Shipping Approval
	EAC	C E	spezielle Prüfbescheinigunge <u>n</u>	Typprüfbescheinigu ng/Werkszeugnis	O. SHIDTHE

Shipping Approval









LRS





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Bestätigungen

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Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1036-1AC20-Z X95

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1036-1AC20-Z X95

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1036-1AC20-Z X95

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1036-1AC20-Z X95&lang=en

last modified: 10/17/2016