SIEMENS

Data sheet

3RT1064-6AD36



CONTACTOR, 110KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 42-48V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S10 BAR CONNECTIONS CONVENT. OPERATING MECHANISM SCREW TERMINAL

Product designation	
Froduct designation	power contactor
eneral technical data:	
Size of contactor	S10
Insulation voltage	-
Rated value	1 000 V
Degree of pollution	3
Surge voltage resistance Rated value	8 kV
Mechanical service life (switching cycles)	
 of the 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
Protection class IP	
• on the front	IP00
• of the terminal	IP00
Equipment marking	
• acc. to DIN EN 61346-2	Q
• acc. to DIN EN 81346-2	Q
mbient conditions:	
Installation altitude at height above sea level	2 000 m
maximum	
Ambient temperature	
 during operation 	-25 +60 °C

during storage

lain circuit:	
Number of poles for main current circuit	3
Number of NC contacts for main contacts	0
Number of NO contacts for main contacts	3
Connectable conductor cross-section in main circuit at AC-1	
at 60 °C minimum permissible	120 mm ²
● at 40 °C minimum permissible	150 mm²
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C Rated value	275 A
● at AC-1 up to 690 V	
— at ambient temperature 40 °C Rated value	275 A
— at ambient temperature 60 °C Rated value	250 A
• at AC-3	
— at 400 V Rated value	225 A
— at 690 V Rated value	225 A
• at AC-4 at 400 V Rated value	195 A
Operating current for \geq 200000 operating cycles at AC-4	
• at 400 V Rated value	96 A
• at 690 V Rated value	85 A
Operating current	
 with 1 current path at DC-1 	
— at 24 V Rated value	200 A
— at 110 V Rated value	18 A
 with 2 current paths in series at DC-1 	
— at 24 V Rated value	200 A
— at 110 V Rated value	200 A
 with 3 current paths in series at DC-1 	
— at 24 V Rated value	200 A
— at 110 V Rated value	200 A
Operating current	
• with 1 current path at DC-3 at DC-5	
— at 24 V Rated value	200 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	200 A
— at 24 V Rated value	200 A
 with 3 current paths in series at DC-3 at DC-5 	

— at 110 V Rated value	200 A		
— at 24 V Rated value	200 A		
Operating power			
• at AC-1			
— at 230 V at 60 °C Rated value	94 kW		
— at 690 V at 60 °C Rated value	283 kW		
Operating power for \geq 200000 operating cycles at			
AC-4			
• at 400 V Rated value	54 kW		
• at 690 V Rated value	82 kW		
Thermal short-time current restricted to 10 s	1 800 A		
Active power loss at AC-3 at 400 V for rated value of	17 W		
the operating current per conductor			
No-load switching frequency			
• with AC	2 000 1/h		
• for DC	2 000 1/h		
Operating frequency			
● at AC-1 maximum	750 1/h		
• at AC-2 maximum	250 1/h		
• at AC-3 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 with AC			
	42 49.1/		

Control supply voltage with AC	
• at 50 Hz Rated value	42 48 V
● at 60 Hz Rated value	42 48 V
Control supply voltage for DC	
Rated value	42 48 V
● Rated value	40 Hz
Control supply voltage frequency 2 Rated value	60 Hz
Operating range factor control supply voltage rated value of the magnet coil with AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
Operating range factor control supply voltage rated value of the magnet coil for DC	0.8 1.1
Design of the surge suppressor	with varistor
Apparent pick-up power of the magnet coil with AC	590 V·A
Inductive power factor with closing power of the coil	0.9
Apparent holding power of the magnet coil with AC	6.7 V·A
Inductive power factor with the holding power of the coil	0.9
Closing power of the magnet coil for DC	650 W

Holding power of the magnet coil for DC	7.4 W
Closing delay	
• with AC	30 95 ms
• for DC	30 95 ms
Arcing time	10 15 ms
Auxiliary circuit:	
Number of NC contacts	
 for auxiliary contacts 	
— instantaneous contact	2
Number of NO contacts	
 for auxiliary contacts 	
— instantaneous contact	2
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
UL/CSA ratings:	
Contact rating of the auxiliary contacts acc. to UL	A600 / Q600
Short-circuit:	
Design of the fuse link	
 for short-circuit protection of the main circuit 	
— with type of assignment 1 required	fuse gL/gG: 500 A
 — with type of assignment 2 required 	fuse gL/gG: 400 A
 for short-circuit protection of the auxiliary switch 	fuse gL/gG: 10 A
required	
Installation/ mounting/ dimensions:	
Mounting type	screw fixing
 Side-by-side mounting 	Yes
Height	210 mm
Width	145 mm
Depth	202 mm
Required spacing	

- at the side 10 mm 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-section acrew-type terminals • for AWG conductors for main contacts 2/0 500 kcmil Type of connectable conductor cross-section acrew-type terminals • for auxiliary contacts 2/0 500 kcmil Type of connectable conductor cross-section acrew-type terminals • for auxiliary contacts 2/0 500 kcmil Type of connectable conductor cross-section acrew-type terminals • for auxiliary contacts 2/2 (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) • for AWG conductors for auxiliary contacts 2x (20 16), 2x (18 14), 1x 12 Certificates/ approvals: Certificates/ approvals:	 for grounded part 	S				
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$\begin{array}{c} - \text{ solid} \\ - \text{ finely stranded with core end processing} \\ \text{ for AWG conductors for auxiliary contacts} \end{array} \\ \begin{array}{c} 2x (0.5 \dots 1.5 \text{ mm}^3), 2x (0.75 \dots 2.5 \text{ mm}^3), \max. 2x (0.75 \dots 4 \text{ mm}^3), 2x (0.75 \dots 2.5 \text{ mm}^3$	Type of connectable co	onductor cross-se	ection			
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• for AWG conductors for auxiliary contacts $2x (20 \dots 16), 2x (18 \dots 14), 1x 12$ Certificates/ approvals: Functional Safety/Safety of Machinery Declaration of Conformity \overbrace{Ccc} \overbrace{CsA} $\fbox{Certificates}$ \overbrace{Cut} $\overbrace{Certificates}$ Type Test Certificates Shipping Approval $\overbrace{Certificates}$ $\overbrace{Certificates}$ $\overbrace{Certificates}$ Type Test Certificates Shipping Approval $\overbrace{Certificates}$ $\overbrace{Certificates}$ $\overbrace{Certificates}$ $\overbrace{Certificates}$ Report $\overbrace{Certificates}$ $\overbrace{Certificates}$ $\overbrace{Certificates}$ $\overbrace{Certificates}$ $\overbrace{Certificates}$	— solid			2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²		
Certificates/ approvals: Functional Safety/Safety of Machinery Declaration of Conformity \widetilde{Cec} $\widetilde{Cectificates}$ Shipping Approval \widetilde{Cec} $\widetilde{Cectificates}$ Special Test Cectificate $\widetilde{Cectificates}$	— finely stranded with core end processing		processing			
General Product Approval Functional Safety/Safety of Machinery Declaration of Conformity Image: Ccc Image: Cccc			2x (20 16), 2x (18 14), 1x 12			
General Product Approval Functional Safety/Safety of Machinery Declaration of Conformity Image: Ccc Image: Cccc						
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Type Test Certificates/Test Report Special Test Certificate Special Test Certificate <thspecial test<br="">Certificate Specia</thspecial>	CCC	CSA	EHC		Type Examination	CE EG-Konf.
Certificates/Test Report	Test Certificates		Shipping A	pproval		
other	Certificates/Test		ABS		GL GL	RMRS
	other					

urther information

Confirmation

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other

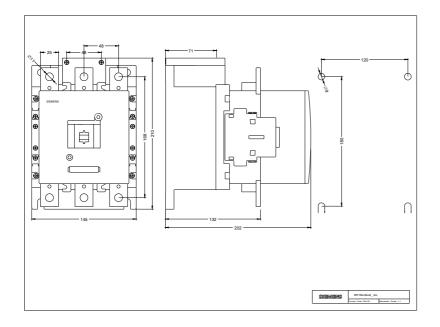
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10646AD36

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