SIEMENS

Data sheet

3RT2317-1AP00



Contactor, AC-1, 22 A/400 V/40 $^\circ\text{C},$ S00, 4-pole, 230 V AC, 50/60 Hz, screw terminal

product brand name	SIRIUS
product designation	Contactor
product type designation	3RT23
General technical data	SRIZS
	000
size of contactor	S00
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	6.4 W
at AC in hot operating state per pole	1.6 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of the auxiliary and control circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	6 kV
shock resistance at rectangular impulse	
• at AC	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
● at AC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	30 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
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	4
number of NO contacts for main contacts	4
operational current	

• at AC-1 at 400 V at ambient temperature 40 °C rated value	22 A
 at AC-1 up to 690 V at ambient temperature 40 °C rated value 	22 A
— up to 690 V at ambient temperature 60 °C rated value	20 A
• at AC-3	
— at 400 V rated value	12 A
• at AC-4 at 400 V rated value	8.5 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm ²
operating power	
at AC-3 at 400 V rated value	5.5 kW
• at AC-4 at 400 V rated value	4 kW
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum limited to 5 a switching at zero surrent maximum 	Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value Use minimum cross-section acc. to AC-1 rated value
 Imited to 10 s switching at zero current maximum Iimited to 30 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
 limited to 50 s switching at zero current maximum limited to 60 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	10 000 1/h
operating frequency at AC-1 maximum	1 000 1/h
Control circuit/ Control	
type of voltage	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	230 V
• at 60 Hz rated value	230 V
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	
• at 50 Hz	37 VA
• at 60 Hz	33 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
● at 50 Hz ● at 60 Hz	5.7 VA 4.4 VA
inductive power factor with the holding power of the	_ 4.4 VA
coil	
• at 50 Hz	0.25
• at 60 Hz	0.25
closing delay	
● at AC	9 35 ms
opening delay	
• at AC	7 13 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	
attachable	2
number of NO contacts for auxiliary contacts	
attachable	2
Short-circuit protection	
product function short circuit protection	No

design of the fuse link					
for short-circuit protection of the main circuit					
- with type of coordination 1 required	gG: 35 A (690 V, 100 kA)				
— with type of assignment 2 required	gG: 20 A (690 V, 100 kA)				
 for short-circuit protection of the auxiliary switch 					
• for short-circuit protection of the auxiliary switch required	gG: 10 A (690 V, 1 kA)				
Installation/ mounting/ dimensions					
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted				
UF UF UUUUUUUUUUUUU	forward and backward by +/- 22.5° on vertical mounting surface				
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715				
 side-by-side mounting 	Yes				
height	58 mm				
width	45 mm				
depth	73 mm				
required spacing					
 with side-by-side mounting 					
— forwards	10 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	0 mm				
 for grounded parts 					
— forwards	10 mm				
— upwards	10 mm				
— at the side	6 mm				
— downwards	10 mm				
• for live parts					
— forwards	10 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	6 mm				
Connections/ Terminals					
type of electrical connection					
for main current circuit	screw-type terminals				
 for auxiliary and control circuit 	screw-type terminals				
 at contactor for auxiliary contacts 	Screw-type terminals				
 of magnet coil 	Screw-type terminals				
type of connectable conductor cross-sections					
 for main contacts 					
 for main contacts — solid 	$2x (0.5 - 1.5 \text{ mm}^2) 2x (0.75 - 2.5 \text{ mm}^2) 2x 4 \text{ mm}^2$				
— solid	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ² 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ²				
— solid — solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²				
 — solid — solid or stranded — finely stranded with core end processing 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
 — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²				
 — solid — solid or stranded — finely stranded with core end processing 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
 — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
 — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid 	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), 2x 4 mm ² 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14), 2x 12 0.5 4 mm ²				
 — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid • solid • solid or stranded 	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), 2x 4 mm ² 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14), 2x 12 0.5 4 mm ² 0.5 4 mm ²				
 — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid • solid • solid or stranded • stranded 	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), 2x 4 mm ² 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14), 2x 12 0.5 4 mm ² 0.5 4 mm ²				
 — solid — solid or stranded — finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid solid solid or stranded stranded finely stranded with core end processing connectable conductor cross-section for auxiliary 	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), 2x 4 mm ² 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14), 2x 12 0.5 4 mm ² 0.5 4 mm ²				
 — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid • solid • solid or stranded • stranded • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts 	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), 2x 4 mm ² 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14), 2x 12 0.5 4 mm ² 0.5 4 mm ² 0.5 4 mm ² 0.5 2.5 mm ²				
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 solid solid or stranded finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid solid solid or stranded stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing solid or stranded solid or stranded finely stranded with core end processing 	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), 2x 4 mm ² 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14), 2x 12 0.5 4 mm ² 0.5 4 mm ² 0.5 4 mm ² 0.5 2.5 mm ²				
 solid solid or stranded finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid solid or stranded stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing 	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), 2x 4 mm ² 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14), 2x 12 0.5 4 mm ² 0.5 4 mm ² 0.5 2.5 mm ² 0.5 4 mm ²				
 solid solid or stranded finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid solid or stranded stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing 	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), 2x 4 mm ² 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14), 2x 12 0.5 4 mm ² 0.5 4 mm ² 0.5 4 mm ² 0.5 2.5 mm ²				
 – solid – solid or stranded – finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid • solid • solid or stranded • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts • solid 	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), 2x 4 mm ² 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14), 2x 12 0.5 4 mm ² 0.5 4 mm ² 0.5 4 mm ² 0.5 2.5 mm ² 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)				
 solid solid or stranded finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid solid or stranded stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid or stranded stranded stranded stranded stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid solid or stranded for auxiliary contacts solid solid solid or stranded 	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), 2x 4 mm ² 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14), 2x 12 0.5 4 mm ² 0.5 4 mm ² 0.5 4 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ²				
 – solid – solid or stranded – finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid • solid • solid or stranded • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts • solid 	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), 2x 4 mm ² 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14), 2x 12 0.5 4 mm ² 0.5 4 mm ² 0.5 4 mm ² 0.5 2.5 mm ² 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)				
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0 or nardiary contacts 20 - 12 Product function	• for main contac			0 12				
product function - mirror contact according to EC 60947.4-1 Yes, with 3RH29 T + abela dia conting to EC 60929 20 y protection class IP on the front according to EC 60929 Ingen-safe, for vertical contact from the front protection class IP on the front according to EC 60929 Ingen-safe, for vertical contact from the front Communication Protocol No Continuation IP rotocol IP rotocol Functional State(/Safety of Safety of Safety of Safety Safety			2	20 12				
• entrore context according to EC 60947-4-1 Yes; with 3RH29 • For signs 20 y • representing test interval or service its according to EC 6023 P20 • representing test interval or service its according to EC 6023 P20 • representing test interval or service its according to EC 6023 P20 • representing test interval or service its according to EC 6023 P20 • representing test interval or service its according to EC 6023 P20 • representing test interval or service its according to EC 6023 P20 • representing test interval or service its according to EC 6023 P20 • representing test interval or service its according to EC 6023 P20 • representing test interval or service its according to EC 6023 P20 • representing test interval or service its according to EC 6023 P20 • representing test interval or service its according to EC 6023 P20 • representing test interval or service its according to EC 6023 P20 • representing test interval or service its according to EC 6023 P20 • representing test interval or service its according to EC 6023 P20 • representing test interval or service its according to EC 6023 P20 • representing test interval or service its according test interval or								
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Continuation No Continuation EMC Continuation Continuation Content content content content contendite				finger-safe for vertical contact from the front				
product function bus communication No Cardinates/approvals General Product Approval EMC General Product Approval Confirmation Confirmation General Product Approval Confirmation Confirmation Confirmation States/States/ States/States/ Machinery Declaration of Conformity Test Certificates Marine / Shipping Type Examination Certificate Confirmation Confirmation Confirmation Confirmation Other Declaration of Conformity Type Test Certificates Special Test Certificates Confirmation Marine / Shipping Confirmation Confirmation Confirmation Confirmation Other Confirmation Confirmation Confirmation Confirmation Confirmation Information- and Downloadcenter (Catalogs, Brochures,) Confirmation- Structure Structure S								
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