## 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	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of the auxiliary and control circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	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)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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	
<ul> <li>during operation</li> </ul>	-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
<ul> <li>at AC-1         <ul> <li>up to 690 V at ambient temperature 40 °C</li> <li>rated value</li> </ul> </li> </ul>	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 <sup>2</sup>
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	
<ul> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 a switching at zero surrent maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value Use minimum cross-section acc. to AC-1 rated value
<ul> <li>Imited to 10 s switching at zero current maximum</li> <li>Iimited to 30 s switching at zero current maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 50 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> </ul>	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)				
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>					
• 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				
<b>UF UF UUUUUUUUUUUUU</b>	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				
<ul> <li>side-by-side mounting</li> </ul>	Yes				
height	58 mm				
width	45 mm				
depth	73 mm				
required spacing					
<ul> <li>with side-by-side mounting</li> </ul>					
— forwards	10 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	0 mm				
<ul> <li>for grounded parts</li> </ul>					
— 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				
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals				
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals				
<ul> <li>of magnet coil</li> </ul>	Screw-type terminals				
type of connectable conductor cross-sections					
<ul> <li>for main contacts</li> </ul>					
<ul> <li>for main contacts</li> <li>— solid</li> </ul>	$2x (0.5 - 1.5 \text{ mm}^2) 2x (0.75 - 2.5 \text{ mm}^2) 2x 4 \text{ mm}^2$				
— solid	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>				
— solid — solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²				
<ul> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul>	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)				
<ul> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>• at AWG cables for main contacts</li> </ul>	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²				
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<ul> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>• at AWG cables for main contacts</li> <li>connectable conductor cross-section for main</li> </ul>	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)				
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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								
T1 value for proof lest interval or service life according to       20 y         Production class IP on the front according to IEC       IP20         Sessed       Improved to the front according to IEC 60521       Improved to the front according to IEC 60521         Product function on the front according to IEC 60521       Improved to the front according to IEC 60521       Improved to the front according to IEC 60521         Product function bus communication       No       Improved to the front according to IEC 60521       Improved to the front according to IEC 60521         Continue for proved       Improved to the front according to IEC 60521       Improved to the front according to IEC 60521       Improved to the front according to IEC 60521         Continue for proved to the front according to IEC 60521       Improved to the front according to IEC 60521       Improved to the front according to IEC 60521         Continue for proved to the front according to IEC 60521       Improved to IEC 60521       Improved to IEC 60521       Improved to IEC 60521         Continue for proved to the front according to IEC 60521       Improved to IEC 60521       Improved to IEC 60521       Improved to IEC 60521       Improve for the first according to IEC 60521         Continue for proved to IEC 60521       IEC 60521       Improve for the first according to IEC 60521       Improve for the first according to IEC 60521       Improve for the first according to IEC 60521         Conter for the first according to IEC 6052	•	according to IEC 60047.4	1	los: with 3PH20				
protection class IP on the front according to IEC       IP20         isoch protection on the front according to IEC 6023       inger-safe, for vertical contact from the front         Communication Protocol       product function bus communication       No         Continuation       No       EMC         Continuation       Decimation       No         Continuation       No       EMC         Continuation       No       EMC         Continuation       Continuation       No         Continuation       Continuation       No         Continuation       Continuation       No         Functional       Sate/Sidely of Machinery       Declaration of Conformity       Test Certificates       Marine / Shipping         Type Examination       EME       Event       Type Test Certific       Sate/Sidely of Attent / Shipping         Type Interfacience       EVEC       Event       Type Test Certific attes       Marine / Shipping         Warrier / Shipping       Event       Event <td>T1 value for proof tes</td> <td>-</td> <td></td> <td></td> <td></td> <td></td>	T1 value for proof tes	-						
Totach protection on the front according to IEC 60229       finger-safe, for vertical contact from the front         Communication / protocol       No         Certificates/ approvals       EMC         General Product Approval       EMC         Machinery       Declaration of Conformity       Test Certificates       Marine / Shipping         Type Examination Cartificate       EMC       Sector Sec	protection class IP on the front according to IEC			IP20				
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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other         Environmental Con: firmations       Confirmation         firmations       Confirmation         Purther information       Information- and Downloadcenter (Catalogs, Brochures,)         https://www.siemens.com/ic10       Information- and Downloadcenter (Catalogs, Brochures,)         https://www.siemens.com/ic10       Industry Mall (Online ordering system)         https://mall.industry.siemens.com/mall/en/Catalog/product?mlfb=3RT2317-1AP00       Cax online generator         http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2317-1AP00       Service&Support (Manuals, Certificates, Characteristics, FAQs,)         http://support.automation.siemens.com/is/s/Wreighs/3RT2317-1AP00       Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)         http://www.automation.siemens.com/cs/ww/en/ps/3RT2317-1AP00⟨_en       Characteristics: rFAQs)         http://www.automation.siemens.com/cs/ww/en/ps/3RT2317-1AP00       Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)         http://www.automation.siemens.com/cs/ww/en/ps/3RT2317-1AP00       Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)         http://www.automation.siemens.com/bildb/icax_de.aspx?mlfb=3RT2317-1AP00⟨_en       Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)         http://www.automation.siemens.c	Marine / Shipping	_			-			
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