## SIEMENS

## Data sheet

## 3RT2317-1AP00



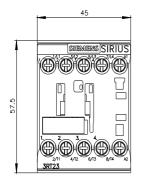
Contactor, AC-1, 22 A/400 V/40  $^\circ\text{C},$  S00, 4-pole, 230 V AC, 50/60 Hz, screw terminal

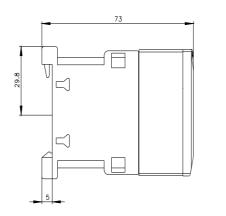
product brand name	SIRIUS			
product designation	Contactor			
product type designation	3RT23			
General technical data	SRIZS			
	000			
size of contactor	S00			
product extension				
function module for communication	No			
auxiliary switch	Yes			
power loss [W] for rated value of the current				
at AC 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				

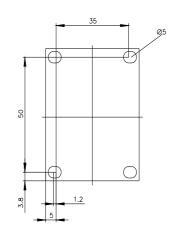
• at AC-1 at 400 V at ambient temperature 40 °C rated value	22 A
<ul> <li>at AC-1         <ul> <li>up to 690 V at ambient temperature 40 °C</li> <li>rated value</li> </ul> </li> </ul>	22 A
— up to 690 V at ambient temperature 60 °C rated value	20 A
• at AC-3	
— at 400 V rated value	12 A
• at AC-4 at 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	
Imited to 1 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	10 000 1/b
at AC operating frequency at AC-1 maximum	10 000 1/h 1 000 1/h
Control circuit/ Control	1 000 1/11
	10
type of voltage	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	220.1/
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul>	230 V 230 V
	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	5.7 VA
• at 60 Hz	4.4 VA
inductive power factor with the holding power of the 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	
number of NO contacts for auxiliary contacts <ul> <li>attachable</li> </ul>	2
number of NO contacts for auxiliary contacts	

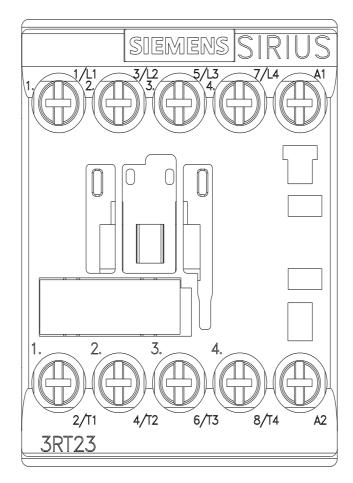
	_				
design of the fuse link					
for short-circuit protection of the main circuit					
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 35 A (690 V, 100 kA)				
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 20 A (690 V, 100 kA)				
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 10 A (690 V, 1 kA)				
Installation/ mounting/ dimensions					
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted 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				
<ul> <li>for live parts</li> </ul>					
— 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				
of magnet coil	Screw-type terminals				
type of connectable conductor cross-sections					
for main contacts					
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²				
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²				
<ul> <li>— finely stranded with core end processing</li> </ul>	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)				
at AWG cables for main contacts	2x (20 16), 2x (18 14), 2x 12				
connectable conductor cross-section for main	LA (LV 10), LA (10 17), LA 1L				
contacts					
• solid	0.5 4 mm²				
solid or stranded	0.5 4 mm <sup>2</sup>				
• stranded	0.5 4 mm <sup>2</sup>				
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>				
connectable conductor cross-section for auxiliary contacts					
<ul> <li>solid or stranded</li> </ul>	0.5 4 mm²				
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²				
type of connectable conductor cross-sections					
<ul> <li>for auxiliary contacts</li> </ul>					
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
— solid or stranded	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>				
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 2x 12				
AWG number as coded connectable conductor cross					
section					

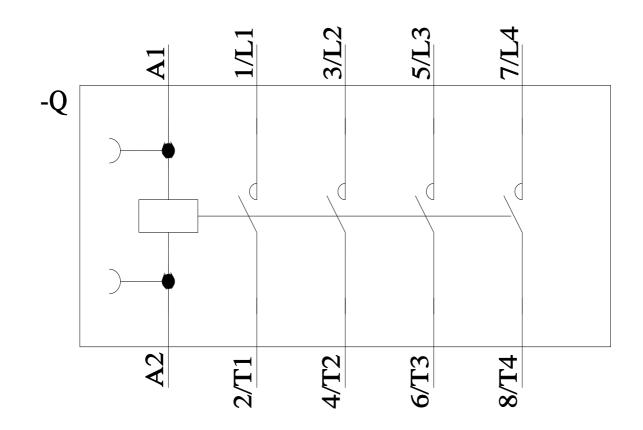
<ul> <li>for main contact</li> </ul>	ts		20	12				
<ul> <li>for auxiliary cor</li> </ul>	<ul> <li>for auxiliary contacts</li> </ul>			20 12				
Safety related data								
product function								
	eccording to IEC 60947-4-			with 3RH29				
protection class IP on the front according to IEC 60529		IP20						
touch protection on	touch protection on the front according to IEC 60529			finger-safe, for vertical contact from the front				
<b>Communication/ Prot</b>	ocol							
product function bu			No					
Certificates/ approval	S							
General Product Ap	proval					EMC		
SP Can	<u>Confirmation</u>			<b>U</b>	EHC	RCM		
Functional Safety/Safety of Machinery	Declaration of Confor	mity		Test Certificates		Marine / Shipping		
<u>Type Examination</u> <u>Certificate</u>	<u>UK Declaration of</u> <u>Conformity</u>	CE EG-Konf.		<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS		
Marine / Shipping	<b>ČŠ</b> DNV DNV	Lloyd's Register us		PRS	RINA	KMRS		
other								
Environmental Con- firmations	<u>Confirmation</u>		•					
Further information Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10								
Industry Mall (Online https://mall.industry.si		atalog/product	?mlfh=	3RT2317-1AP00				
https://mall.industry.siemens.com/mall/en/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,)         https://support.industry.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/bilddb/cax_de.aspx?mlfb=3RT2317-1AP00⟨=en Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2317-1AP00/char Further characteristics (e.g. electrical endurance, switching frequency)								
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2317-1AP00&objecttype=14&gridview=view1								











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