## **SIEMENS**

Data sheet 3RT2317-2AP60



Contactor, AC-1, 22 A/400 V/40 °C, S00, 4-pole, 220 V AC/50 Hz, 240 V/60 Hz, Spring-type terminal

product brand name	SIRIUS
product designation	Contactor
product type designation	3RT23
General technical data	
size of contactor	S00
product extension	
<ul> <li>function module for communication</li> </ul>	No
<ul><li>auxiliary switch</li></ul>	Yes
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	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)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
of the contactor with added auxiliary switch block typical	30 000 000
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2009 00:00:00
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
<ul> <li>ambient temperature during operation</li> </ul>	-25 +60 °C
<ul> <li>ambient temperature during storage</li> </ul>	-55 +80 °C
relative humidity during operation	95 %
Main circuit	
number of poles for main current circuit	4
number of NO contacts for main contacts	4
<ul> <li>operating voltage at AC</li> </ul>	
— at 50 Hz rated value	690 V
— at 60 Hz rated value	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	22 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	22 A

— up to 690 V at ambient temperature 60 °C	20 A		
rated value			
• 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 mm²		
operating power			
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	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> </ul>	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		
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		
<ul> <li>control supply voltage at AC at 50 Hz rated value</li> </ul>	220 V		
<ul> <li>control supply voltage at AC at 60 Hz rated value</li> </ul>	240 V		
operating range factor control supply voltage rated value of magnet coil at AC			
• at 50 Hz	0.8 1.1		
• at 60 Hz	0.8 1.1		
apparent pick-up power of magnet coil at AC			
• at 50 Hz	36 V·A		
• at 60 Hz	36 V·A		
inductive power factor with closing power of the coil			
• at 50 Hz	0.8		
● at 60 Hz	0.8		
apparent holding power of magnet coil at AC			
● at 50 Hz	5.9 V·A		
● at 60 Hz	5.9 V·A		
inductive power factor with the holding power of the coil			
● at 50 Hz	0.24		
● at 60 Hz	0.24		
closing delay			
• at AC	8 33 ms		
opening delay			
• at AC	4 15 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			
<ul> <li>for short-circuit protection of the main circuit</li> </ul>			
	0.05 4 (000 ) ( 400 ) 4 )		
— with type of coordination 1 required	gG: 35 A (690 V, 100 kA)		
<ul> <li>— with type of coordination 1 required</li> <li>— with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 35 A (690 V, 100 kA) gG: 20 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA)		

mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted		
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		
side-by-side mounting	Yes		
height	70 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	10 mm		
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	6 mm		
onnections/ Terminals			
type of electrical connection			
• for main current circuit	spring-loaded terminals		
for auxiliary and control circuit	spring-loaded terminals		
type of connectable conductor cross-sections			
• for main contacts	Ov. (0.5 A mana?)		
— solid	2x (0.5 4 mm²)		
— solid or stranded	2x (0,5 4 mm²)		
finely stranded with core end processing	2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)		
<ul> <li>finely stranded without core end processing</li> <li>at AWG cables for main contacts</li> </ul>			
connectable conductor cross-section for main	2x (20 12)		
contacts			
• solid	0.5 4 mm²		
solid or stranded	0.5 4 mm <sup>2</sup>		
• stranded	0.5 4 mm²		
finely stranded with core end processing	0.5 2.5 mm <sup>2</sup>		
finely stranded without core end processing	0.5 2.5 mm <sup>2</sup>		
connectable conductor cross-section for auxiliary			
solid or stranded	0.5 4 mm²		
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>		
<ul> <li>finely stranded without 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 2.5 mm²)		
— solid or stranded	2x (0,5 4 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)		
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)		
at AWG cables for auxiliary contacts	2x (20 12)		
AWG number as coded connectable conductor cross section for main contacts	20 12		
AWG number as coded connectable conductor	20 12		

cross section for auxiliary contacts			
Safety related data			
product function			
<ul> <li>mirror contact acc. to IEC 60947-4-1</li> </ul>	Yes; with 3RH29		
T1 value for proof test interval or service life acc. to IEC 61508	20 y		
protection class IP on the front acc. to IEC 60529	IP20		
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front		
Communication/ Protocol			
product function bus communication	No		
Certificates/ approvals			
General Product Approval		ЕМС	Declaration of Conformity













Declaration of
Conformity

**Test Certificates** 

Marine / Shipping

**Miscellaneous** 

Type Test Certificates/Test Report Special Test Certificate







Marine / Shipping

other









Confirmation



## **Further information**

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2317-2AP60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2317-2AP60

 ${\bf Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)}$ 

https://support.industry.siemens.com/cs/ww/en/ps/3RT2317-2AP60

 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ 

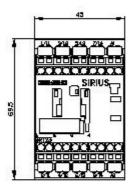
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2317-2AP60&lang=en

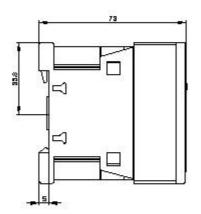
Characteristic: Tripping characteristics, I2t, Let-through current

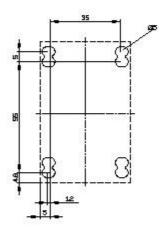
https://support.industry.siemens.com/cs/ww/en/ps/3RT2317-2AP60/char

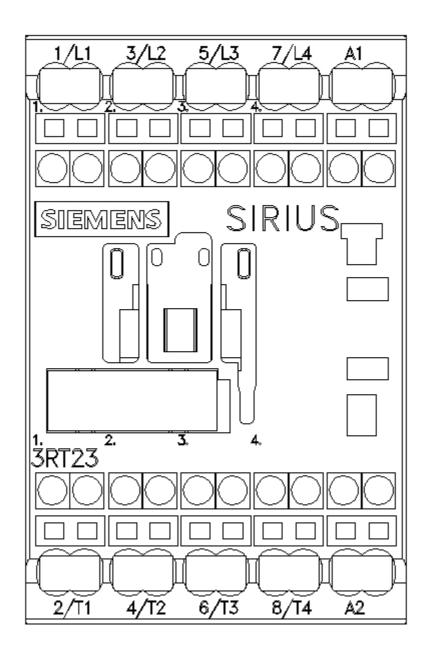
Further characteristics (e.g. electrical endurance, switching frequency)

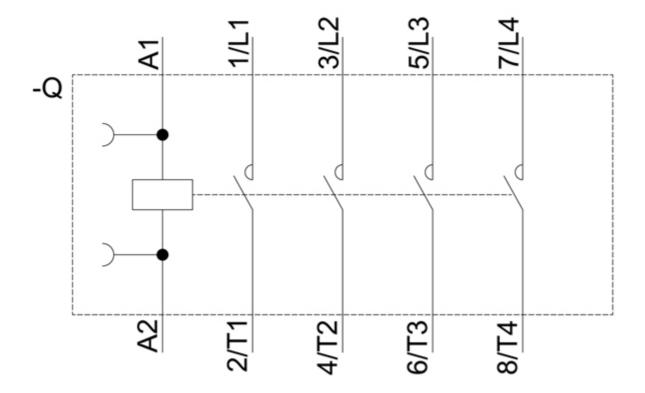
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2317-2AP60&objecttype=14&gridview=view1











last modified: 12/15/2020 🖸