SIEMENS

Data sheet 3RT2317-2AH00



contactor AC-1, 22 A, 400 V / 40 $^{\circ}\text{C},$ 4-pole, 48 V AC, 50/60 Hz, spring-loaded terminal, size: S00

product brand name	SIRIUS
product designation	Contactor
product type designation	3RT23
General technical data	
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 (operating 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	20 A
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	4 mm ²
value	711111
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 	Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	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
control supply voltage at AC	
• at 50 Hz rated value	48 V
at 60 Hz rated value	48 V
	40 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	00 4/1
• at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	F 7 1/A
• 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	
Auxiliary circuit number of NC contacts for auxiliary contacts	
	2
number of NC contacts for auxiliary contacts	2
number of NC contacts for auxiliary contacts • attachable	2
number of NC contacts for auxiliary contacts • attachable number of NO contacts for auxiliary contacts	
number of NC contacts for auxiliary contacts • attachable number of NO contacts for auxiliary contacts • attachable	
number of NC contacts for auxiliary contacts	2
number of NC contacts for auxiliary contacts • attachable number of NO contacts for auxiliary contacts • attachable Short-circuit protection product function short circuit protection design of the fuse link	2
number of NC contacts for auxiliary contacts • attachable number of NO contacts for auxiliary contacts • attachable Short-circuit protection product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit	No No
number of NC contacts for auxiliary contacts • attachable number of NO contacts for auxiliary contacts • attachable Short-circuit protection product function short circuit protection design of the fuse link	2

 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 b backward by +/- 22.5° on vertical mounting surface 	
mounting position +/-180° rotation possible on vertical mounting surface; can be	
backward by +/- 22.5 On vertical mounting surface	e tilted forward and
fastening method screw and snap-on mounting onto 35 mm DIN 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	
— forwards 10 mm	
— upwards 10 mm	
— downwards 10 mm	
— at the side 6 mm	
Connections/ Terminals	
type of electrical connection	
for main current circuit spring-loaded terminals of a suviliary and control circuit	
for auxiliary and control circuit spring-loaded terminals set contactor for auxiliary contacts Spring type terminals	
at contactor for auxiliary contacts Spring-type terminals of magnet coil Spring type terminals	
• of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts	
• 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)	
• finely stranded without core end processing 2x (0.5 2.5 mm²)	
connectable conductor cross-section for main contacts	
solid 0.5 4 mm²	
• solid or stranded 0.5 4 mm²	
• stranded 0.5 4 mm²	
• finely stranded with core end processing 0.5 2.5 mm²	
• finely stranded without core end processing 0.5 2.5 mm²	
connectable conductor cross-section for auxiliary contacts	
• solid or stranded 0.5 4 mm²	
• finely stranded with core end processing 0.5 2.5 mm²	
• finely stranded without core end processing 0.5 2.5 mm ²	
type of connectable conductor cross-sections	
• for auxiliary contacts	
— solid 2x (0.5 2.5 mm²)	
— solid or stranded 2x (0,5 4 mm²)	
— finely stranded with core end processing 2x (0.5 2.5 mm²)	
— finely stranded without core end processing 2x (0.5 2.5 mm²)	
• for AWG cables for auxiliary contacts 2x (20 12)	
AWG number as coded connectable conductor cross section	
• for main contacts 20 12	
• for auxiliary contacts 20 12	
Safety related data	
product function	
• mirror contact according to IEC 60947-4-1 Yes; with 3RH29	
T1 value for proof test interval or service life according to IEC 20 a	

61508 IP20 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front Communication/ Protocol product function bus communication No **EMC**

General Product Approval













Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certific-



Marine / Shipping













other

Railway

Environment

Confirmation



Vibration and Shock

Environmental Confirmations

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2317-2AH00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2317-2AH00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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

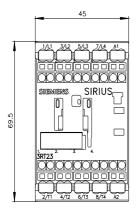
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2317-2AH00&lang=en

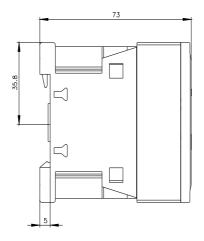
Characteristic: Tripping characteristics, I2t, Let-through current

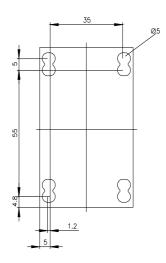
https://support.industry.siemens.com/cs/ww/en/ps/3RT2317-2AH00/char

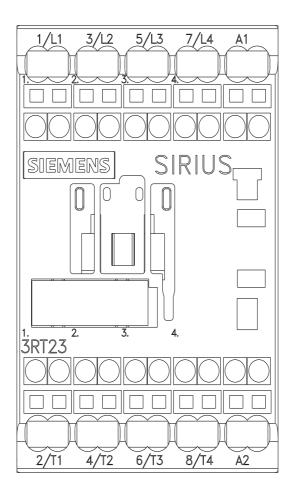
Further characteristics (e.g. electrical endurance, switching frequency)

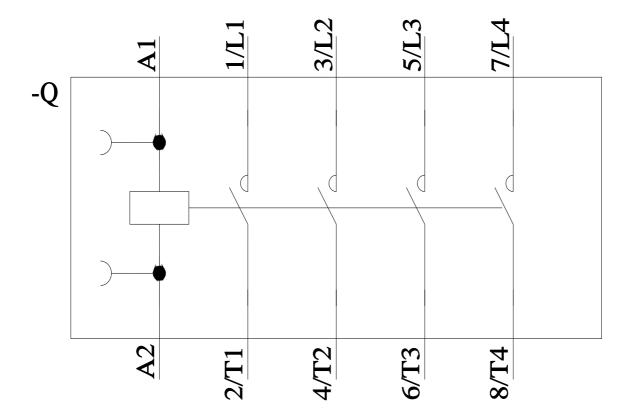
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2317-2AH00&objecttype=14&gridview=view1











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