SIEMENS

Data sheet 3RT2327-2AP00



contactor AC-1, 50 A, 400 V / 40 °C, 4-pole, 230 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, size: S0

product brand name	SIRIUS
product designation	Contactor
product type designation	3RT23
General technical data	
size of contactor	S0
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 	12 W
at AC in hot operating state per pole	3 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	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	10 000 000
 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 	50 A

# United to 10 a switching at zero current maximum # limited to 10 a switching frequency # at AC # at 50 file maximum # at AC and at	• at AC-1	
value va		50 A
value * at AC3		0071
# at AC-3 — at 400 V rated value • at AC-4 at 400 V rated value • at AC-4 at 400 V rated value • at AC-4 at 400 V rated value • at AC-3 at 400 V rated value • at AC-4 at 400 V rated value • at AC-4 at 400 V rated value • limited to 1 s autiching at zero current maximum • limited to 5 s excitching at zero current maximum • limited to 5 seto transport at 20 sexcitching at zero current maximum • limite		42 A
## At AC-d at 400 V rated value operating power ***I AC-d at 400 V rated value ***Provided to 1 switching at zero current maximum ***I mided to 1 s switching at zero current maximum ***I mided to 1 s switching at zero current maximum ***I mided to 1 s switching at zero current maximum ***I mided to 1 s switching at zero current maximum ***I mided to 1 s switching at zero current maximum ***I mided to 1 s switching at zero current maximum ***I mided to 1 s switching at zero current maximum ***I mided to 1 s switching at zero current maximum ***I mided to 10 s switching at zero current maximum ***I mided to 10 s switching at zero current maximum ***I mided to 10 s switching at zero current maximum ***I mided to 10 s switching at zero current maximum ***I mided to 10 s switching at zero current maximum ***I mided to 10 s switching at zero current maximum ***I mided to 10 s switching at zero current maximum ***I mided to 10 s switching at zero current maximum ***I mided to 10 s switching at zero current maximum ***I mided to 10 s switching at zero current maximum ***I mided to 10 switching frequency ***I AC ***I SO HZ ***I SO HZ Tated value ***I SO HZ *		
minimum cross-section in main circuit at maximum AC-1 rated value operating power • at AC-3 at 400 V rated value • ilimided to 5 a switching at zero current maximum • limided to 5 a switc		
yalue and AC-3 at 400 V rated value at AC-3 at 400 V rated value at AC-3 at 400 V rated value 5.5 kW short-time withstand current in cold operating state up to 40 °C limited to 1 a switching at zero current maximum limited to 10 a switching at zero current maximum limited to 50 a switching at zero curr		
operating power • at AC-3 at 400 V rated value • limited to 1s switching at zero current maximum • limited to 1s switching at zero current maximum • limited to 1s switching at zero current maximum • limited to 1s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • at 60 ftc •		10 111111
and AC-4 at 400 V rated value short-time withstand current in cold operating state up to 40°C elimited to 5 s switching at zero current maximum elimited to 10 s switching at zero current maximum elimited to 10 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 30 s switching at zero current maximum no-load switching frequency elimited to 30 switching at zero current maximum no-load switching frequency at AC-1 maximum for switching frequency at AC-1 maximum elimited to 70 switching at 2 sero current maximum no-load switching frequency at AC-1 maximum for switching frequency at AC-1 maximum for switching frequency at AC-2 syse of voltage for voltage of the control supply voltage control supply voltage at AC eli 50 Hz rated value elimited to 70 switching at 2 switching at 2 switching at 30 switching at 2 switching at 30 switching at	operating power	
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 Use minimum cross-	at AC-3 at 400 V rated value	7.5 kW
• Ilmited to 1 s switching at zero current maximum • Ilmited to 1 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 3 s switching at zero current maximum • Ilmited to 3 s switching at zero current maximum • Ilmited to 3 s switching at zero current maximum • Ilmited to 60 s switching at zero current maximum • Ilmited to 60 s switching at zero current maximum • Ilmited to 60 s switching at zero current maximum • Ilmited to 60 s switching at zero current maximum • Ilmited to 60 s switching at zero current maximum • Ilmited to 60 s switching at zero current maximum • Ilmited to 60 s switching at zero current maximum • Ilmited to 60 switching at zero current maximum • Ilmited to 60 switching at zero current maximum • Ilmited to 60 switching at zero current maximum • Ilmited to 60 switching at zero current maximum • Ilmited to 60 switching at zero current maximum • Ilmited to 60 switching at zero current maximum • Ilmited to 60 switching at zero current maximum • Ilmited to 60 switching at zero current maximum • Ilmited to 60 switching at zero current maximum • Ilmited to 60 switching at zero current maximum • Ilmited to 60 switching at zero current maximum • Ilmited to 60 switching at zero current maximum • Ilmited to 60 switching at zero current maximum • Ilmited to 60 switching at zero current maximum • Ilmited to 60 switching at zero current maximum • Ilmited to 60 switching at zero current at 60 switching at	• at AC-4 at 400 V rated value	7.5 kW
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Initited to 30 s switching at zero current maximum 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 a st AC		
• at AC 5 000 1/h operating frequency at AC-1 maximum 1 000 1/h Control Circuit Control type of voltage Type of voltage of the control supply voltage AC • at 50 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 apparent pick-up power of magnet coil at AC • at 50 Hz 0.82 apparent pick-up power of magnet coil at AC • at 50 Hz 0.82 apparent holding power of the coil • at 50 Hz 0.82 apparent holding power of magnet coil at AC • at 50 Hz 0.82 apparent holding power of magnet coil at AC • at 50 Hz 0.82 apparent holding power of magnet coil at AC • at 50 Hz 0.82 apparent holding power of magnet coil at AC • at 50 Hz 0.82 apparent holding power of the coil • at 50 Hz 0.85 closing delay • at AC 0.8 40 ms opening delay • at AC 4 16 ms arcing time 10 10 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts • attachable 2 • instantaneous contact 1 number of NO contacts for auxiliary contacts 1 • attachable 2 • instantaneous contact 1 number of NO contacts for auxiliary contacts 1 • attachable 2 • instantaneous contact 1 operational current at AC-12 maximum 010 A operational current at AC-12 maximum 100 A operational current at AC-12 maximum 100 A operational current at AC-13 maximum 100 A • at 400 V rated value 3 A • at 400 V rated value 4 A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
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	type of voltage of the control supply voltage	AC
operating range factor control supply voltage rated value of magnet coil at AC a at 50 Hz apparent pick-up power of magnet coil at AC a at 50 Hz apparent pick-up power of magnet coil at AC a at 50 Hz apparent holding power of the coil at 50 Hz apparent holding power of magnet coil at AC at 50 Hz apparent holding power of magnet coil at AC at 50 Hz at 50 Hz closing delay at AC at AC at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts attachable attachabl	control supply voltage at AC	
### ### #############################	at 50 Hz rated value	230 V
■ at 50 Hz apparent pick-up power of magnet coil at AC ■ at 50 Hz inductive power factor with closing power of the coil ■ at 50 Hz apparent holding power of magnet coil at AC ■ at 50 Hz inductive power factor with the holding power of the coil ■ at 50 Hz inductive power factor with the holding power of the coil ■ at 50 Hz inductive power factor with the holding power of the coil ■ at 50 Hz closing delay ■ at AC		
apparent pick-up power of magnet coil at AC at 50 Hz inductive power factor with closing power of the coil at 50 Hz apparent holding power of magnet coil at AC at 50 Hz apparent holding power of magnet coil at AC at 50 Hz inductive power factor with the holding power of the coil at 50 Hz closing delay at AC at AC arcing time opening delay at AC arcing time control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts attachable atta		0.8 11
■ at 50 Hz		V.V 1.1
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■ at AC	• at 50 Hz	0.25
opening delay	closing delay	
		8 40 ms
arcing time control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • attachable • attachable • attachable • instantaneous contact 1 operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 690 V rated value • at 48 V rated value		
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• at 690 V rated value 1 A operational current at DC-12 • at 24 V rated value • at 48 V rated value 6 A	• at 400 V rated value	3 A
operational current at DC-12 • at 24 V rated value 10 A • at 48 V rated value 6 A	• at 500 V rated value	2 A
 at 24 V rated value at 48 V rated value 6 A 	• at 690 V rated value	1 A
• at 48 V rated value 6 A	operational current at DC-12	
	• at 24 V rated value	10 A
• at 60 V rated value 6 A	• at 48 V rated value	6 A
	• at 60 V rated value	6 A

at 110 V rated value	3 A
at 125 V rated value	2 A
at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
at 48 V rated value	2 A
 at 110 V rated value 	1 A
 at 125 V rated value 	0.9 A
 at 220 V rated value 	0.3 A
at 600 V rated value	0.1 A
design of the miniature circuit breaker for short-circuit protection	gG: 10 A (230 V, 400 A)
of the auxiliary switch required	
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
contact rating of auxiliary contacts according to UL	A600 / Q600
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: 63 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 required 	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 DIN rail according to DIN EN 60715
side-by-side mounting	Yes
height	102 mm
width	60 mm
depth	97 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
 for auxiliary and control circuit 	spring-loaded terminals
at contactor for auxiliary contacts	Spring-type terminals
• of magnet coil	Spring-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (1 10 mm²)
solid or stranded	2x (1 10 mm²)
finely stranded with core end processing	2x (1 6 mm²)
finely stranded without core end processing	2x (1 6 mm²)
connectable conductor cross-section for main contacts	
• solid	1 10 mm²
solid or stranded	1 10 mm²

• stranded	1 10 mm²	
 finely stranded with core end processing 	1 6 mm²	
 finely stranded without core end processing 	1 6 mm²	
connectable conductor cross-section for auxiliary contacts		
 solid or stranded 	0.5 2.5 mm²	
 finely stranded with core end processing 	0.5 1.5 mm²	
 finely stranded without core end processing 	0.5 2.5 mm²	
type of connectable conductor cross-sections		
 for auxiliary contacts 		
— solid	2x (0.5 2.5 mm²)	
 solid or stranded 	2x (0.5 2.5 mm²)	
 finely stranded with core end processing 	2x (0.5 1.5 mm²)	
 finely stranded without core end processing 	2x (0.5 2.5 mm²)	
 for AWG cables for auxiliary contacts 	2x (20 14)	
AWG number as coded connectable conductor cross section		
 for main contacts 	18 8	
 for auxiliary contacts 	20 14	
Safety related data		
product function		
 mirror contact according to IEC 60947-4-1 	Yes	
T1 value for proof test interval or service life according to IEC 61508	20 a	
protection class IP on the front according to IEC 60529	IP20	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
Communication/ Protocol		
product function bus communication	No	
Certificates/ approvals		
General Product Approval		EMC





Confirmation







Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping













other

Railway

Environment

Confirmation



Vibration and Shock

Environmental Confirmations

Further information

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,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2327-2AP00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2327-2AP00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2327-2AP00

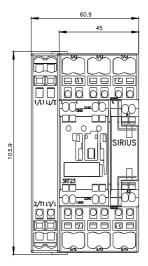
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

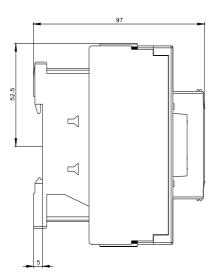
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT23

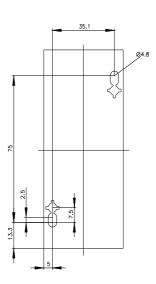
Characteristic: Tripping characteristics, I2t, Let-through current

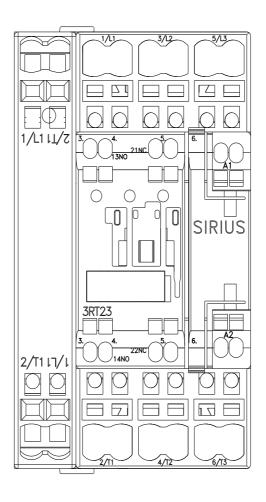
https://support.industry.siemens.com/cs/ww/en/ps/3RT2327

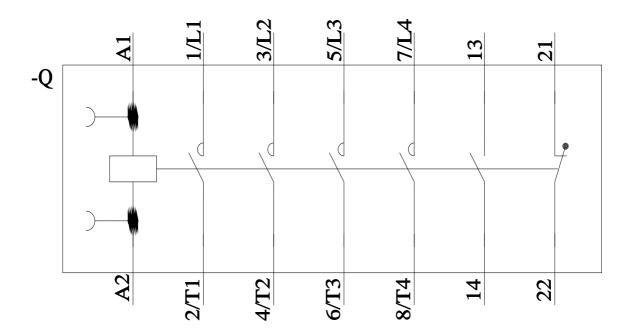
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2327-2AP00&objecttype=14&gridview=view1











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