



contactor AC-1, 35 A, 400 V / 40 °C, 4-pole, 24 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, size: S0, upright mounting position

product brand name	SIRIUS
product designation	Contacteur
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	7.6 W
• at AC in hot operating state per pole	1.9 W
• without load current share typical	2.5 W
type of calculation of power loss depending on pole	quadratic
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	7,5g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,8g / 5 ms, 7,4g / 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 Prohibition (Date)	10/01/2009
Weight	0.546 kg
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 %
Environmental footprint	

Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	166 kg
global warming potential [CO2 eq] during manufacturing	2.26 kg
global warming potential [CO2 eq] during operation	164 kg
global warming potential [CO2 eq] after end of life	-0.152 kg
Main circuit	
number of poles for main current circuit	4
number of NO contacts for main contacts	4
type of voltage for main current circuit	AC
operational current	
<ul style="list-style-type: none"> ● at AC-1 at 400 V at ambient temperature 40 °C rated value 	35 A
<ul style="list-style-type: none"> ● at AC-1 <ul style="list-style-type: none"> — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value 	35 A 30 A
<ul style="list-style-type: none"> ● at AC-3 <ul style="list-style-type: none"> — at 400 V rated value 	15.5 A
<ul style="list-style-type: none"> ● at AC-4 at 400 V rated value 	15.5 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm ²
operational current	
<ul style="list-style-type: none"> ● at 1 current path at DC-1 <ul style="list-style-type: none"> — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value 	30 A 20 A 4.5 A 1 A 0.4 A
<ul style="list-style-type: none"> ● with 2 current paths in series at DC-1 <ul style="list-style-type: none"> — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value 	30 A 30 A 30 A 1 A 1 A
<ul style="list-style-type: none"> ● with 3 current paths in series at DC-1 <ul style="list-style-type: none"> — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value 	30 A 30 A 30 A 30 A 2.9 A
<ul style="list-style-type: none"> ● at 1 current path at DC-3 at DC-5 <ul style="list-style-type: none"> — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value 	20 A 5 A 2.5 A 1 A 0.09 A
<ul style="list-style-type: none"> ● with 2 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value 	30 A 30 A 15 A 3 A 0.27 A
<ul style="list-style-type: none"> ● with 3 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value 	30 A 30 A 30 A 10 A 0.6 A
operating power	

<ul style="list-style-type: none"> at AC-3 at 400 V rated value 	7.5 kW
<ul style="list-style-type: none"> at AC-4 at 400 V rated value 	7.5 kW
no-load switching frequency	
<ul style="list-style-type: none"> at AC 	5 000 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	
<ul style="list-style-type: none"> at 50 Hz rated value 	24 V
operating range factor control supply voltage rated value of magnet coil at AC	
<ul style="list-style-type: none"> at 50 Hz 	0.8 ... 1.1
apparent pick-up power of magnet coil at AC	
<ul style="list-style-type: none"> at 50 Hz 	77 VA
inductive power factor with closing power of the coil	
<ul style="list-style-type: none"> at 50 Hz 	0.82
apparent holding power of magnet coil at AC	
<ul style="list-style-type: none"> at 50 Hz 	9.8 VA
inductive power factor with the holding power of the coil	
<ul style="list-style-type: none"> at 50 Hz 	0.25
closing delay	
<ul style="list-style-type: none"> at AC 	8 ... 40 ms
opening delay	
<ul style="list-style-type: none"> 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	1
<ul style="list-style-type: none"> attachable 	2
<ul style="list-style-type: none"> instantaneous contact 	1
number of NO contacts for auxiliary contacts	1
<ul style="list-style-type: none"> attachable 	2
<ul style="list-style-type: none"> instantaneous contact 	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
<ul style="list-style-type: none"> at 230 V rated value 	10 A
<ul style="list-style-type: none"> at 400 V rated value 	3 A
<ul style="list-style-type: none"> at 500 V rated value 	2 A
<ul style="list-style-type: none"> at 690 V rated value 	1 A
operational current at DC-12	
<ul style="list-style-type: none"> at 24 V rated value 	10 A
<ul style="list-style-type: none"> at 48 V rated value 	6 A
<ul style="list-style-type: none"> at 60 V rated value 	6 A
<ul style="list-style-type: none"> at 110 V rated value 	3 A
<ul style="list-style-type: none"> at 125 V rated value 	2 A
<ul style="list-style-type: none"> at 220 V rated value 	1 A
<ul style="list-style-type: none"> at 600 V rated value 	0.15 A
operational current at DC-13	
<ul style="list-style-type: none"> at 24 V rated value 	10 A
<ul style="list-style-type: none"> at 48 V rated value 	2 A
<ul style="list-style-type: none"> at 110 V rated value 	1 A
<ul style="list-style-type: none"> at 125 V rated value 	0.9 A
<ul style="list-style-type: none"> at 220 V rated value 	0.3 A
<ul style="list-style-type: none"> at 600 V rated value 	0.1 A
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
Category Control Number (CCN)	E31519 (NLDX, NLDX7)

Short-circuit protection

design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA
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design of the fuse link

- | | |
|---|--|
| <ul style="list-style-type: none"> • for short-circuit protection of the main circuit <ul style="list-style-type: none"> — with type of coordination 1 required — with type of coordination 2 required • for short-circuit protection of the auxiliary switch required | gG: 63 A (690 V, 100 kA)
gG: 20 A (690 V, 100 kA)
gG: 10 A (690 V, 1 kA) |
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Installation/ mounting/ dimensions

mounting position	standing, on horizontal mounting surface
fastening method side-by-side mounting	Yes
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	102 mm
width	60 mm
depth	97 mm
required spacing	
<ul style="list-style-type: none"> • with side-by-side mounting <ul style="list-style-type: none"> — forwards — upwards — downwards — at the side • for grounded parts <ul style="list-style-type: none"> — forwards — upwards — at the side — downwards • for live parts <ul style="list-style-type: none"> — forwards — upwards — downwards — at the side 	10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 6 mm

Connections/ Terminals

type of electrical connection	
<ul style="list-style-type: none"> • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil 	spring-loaded terminals spring-loaded terminals Spring-type terminals Spring-type terminals
type of connectable conductor cross-sections	
<ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing • for AWG cables for main contacts 	2x (1 ... 10 mm ²) 2x (1 ... 10 mm ²) 2x (1 ... 6 mm ²) 2x (1 ... 6 mm ²) 2x (18 ... 8)
connectable conductor cross-section for main contacts	
<ul style="list-style-type: none"> • solid • solid or stranded • stranded • finely stranded with core end processing • finely stranded without core end processing 	1 ... 10 mm ² 1 ... 10 mm ² 1 ... 10 mm ² 1 ... 6 mm ² 1 ... 6 mm ²
connectable conductor cross-section for auxiliary contacts	
<ul style="list-style-type: none"> • solid or stranded • finely stranded with core end processing • finely stranded without core end processing 	0.5 ... 2.5 mm ² 0.5 ... 1.5 mm ² 0.5 ... 2.5 mm ²
type of connectable conductor cross-sections	
<ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — solid — solid or stranded — finely stranded with core end processing 	2x (0.5 ... 2.5 mm ²) 2x (0.5 ... 2.5 mm ²) 2x (0.5 ... 1.5 mm ²)

— finely stranded without core end processing	2x (0.5 ... 2.5 mm ²)
• for AWG cables for auxiliary contacts	2x (20 ... 14)
AWG number as coded connectable conductor cross section for main contacts	18 ... 8
AWG number as coded connectable conductor cross section for auxiliary contacts	20 ... 14

Safety related data

product function	
• mirror contact according to IEC 60947-4-1	Yes
• positively driven operation according to IEC 60947-5-1	No

Electrical Safety

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
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Approvals Certificates

General Product Approval	EMV
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EG-Konf.



RCM

Test Certificates

Maritime application

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



ABS



BUREAU VERITAS



DNV



LRS

Maritime application

other



PRS



RINA



RMRS

[Confirmation](#)

[Miscellaneous](#)



产品合格
QC PASS

Railway

Environment

[Special Test Certificate](#)



[Environmental Confirmations](#)

Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3RT2325-2AB00-1AA0>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2325-2AB00-1AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-2AB00-1AA0>

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

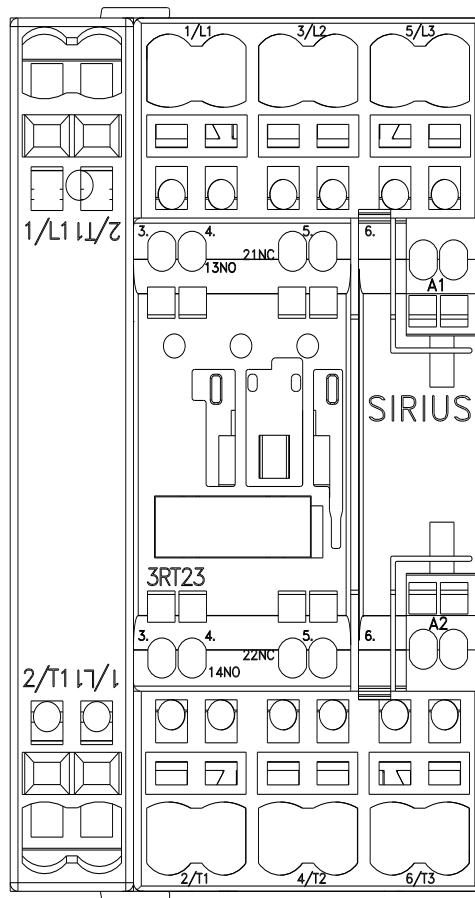
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2325-2AB00-1AA0&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-2AB00-1AA0/char>

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

<https://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2325-2AB00-1AA0&objecttype=14&gridview=view1>





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