



contactor AC-1, 22 A, 400 V / 40 °C, 4-pole, 24 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
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	7,3g / 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
Weight	0.255 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	94.8 kg
global warming potential [CO2 eq] during manufacturing	1.15 kg

global warming potential [CO2 eq] during operation	93.8 kg
global warming potential [CO2 eq] after end of life	-0.178 kg
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 - at AC-1 - up to 690 V at ambient temperature 40 °C rated value - up to 690 V at ambient temperature 60 °C rated value - at AC-3 - at 400 V rated value - at AC-4 at 400 V rated value	22 A 22 A 20 A 12 A 8.5 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm ²
operating power - at AC-3 at 400 V rated value - at AC-4 at 400 V rated value	5.5 kW 4 kW
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 - at 60 Hz rated value	24 V 24 V
operating range factor control supply voltage rated value of magnet coil at AC - at 50 Hz - at 60 Hz	0.8 ... 1.1 0.85 ... 1.1
apparent pick-up power of magnet coil at AC - at 50 Hz - at 60 Hz	37 VA 33 VA
inductive power factor with closing power of the coil - at 50 Hz - at 60 Hz	0.8 0.75
apparent holding power of magnet coil at AC - at 50 Hz - at 60 Hz	5.7 VA 4.4 VA
inductive power factor with the holding power of the coil - at 50 Hz - at 60 Hz	0.25 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 attachable	2
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: 35 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 side-by-side mounting	Yes
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
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
• 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 (0.5 ... 4 mm ²)
• solid or stranded	2x (0,5 ... 4 mm ²)
• finely stranded with core end processing	2x (0.5 ... 2.5 mm ²)
• finely stranded without core end processing	2x (0.5 ... 2.5 mm ²)
connectable conductor cross-section for main contacts	
• solid	0.5 ... 4 mm ²
• solid or stranded	0.5 ... 4 mm ²
• stranded	0.5 ... 4 mm ²
• finely stranded with core end processing	0.5 ... 2.5 mm ²
• finely stranded without core end processing	0.5 ... 2.5 mm ²
connectable conductor cross-section for auxiliary contacts	
• solid or stranded	0.5 ... 4 mm ²
• finely stranded with core end processing	0.5 ... 2.5 mm ²
• 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 mm ²)
— solid or stranded	2x (0,5 ... 4 mm ²)
— finely stranded with core end processing	2x (0.5 ... 2.5 mm ²)
— finely stranded without core end processing	2x (0.5 ... 2.5 mm ²)
• 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

- 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
Approvals Certificates	
General Product Approval	



[Confirmation](#)

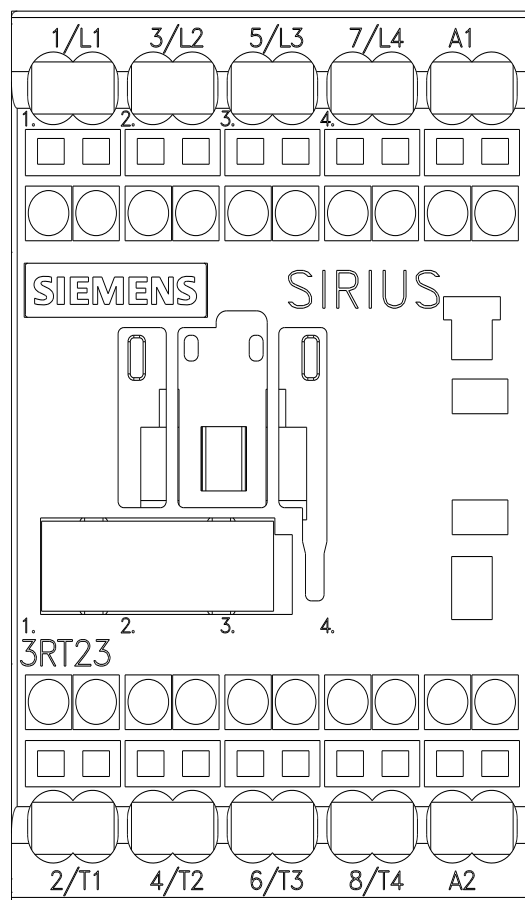
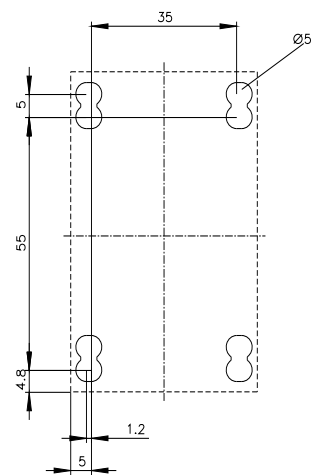
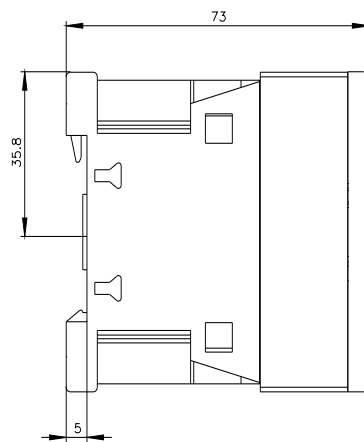
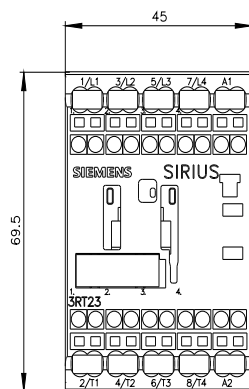


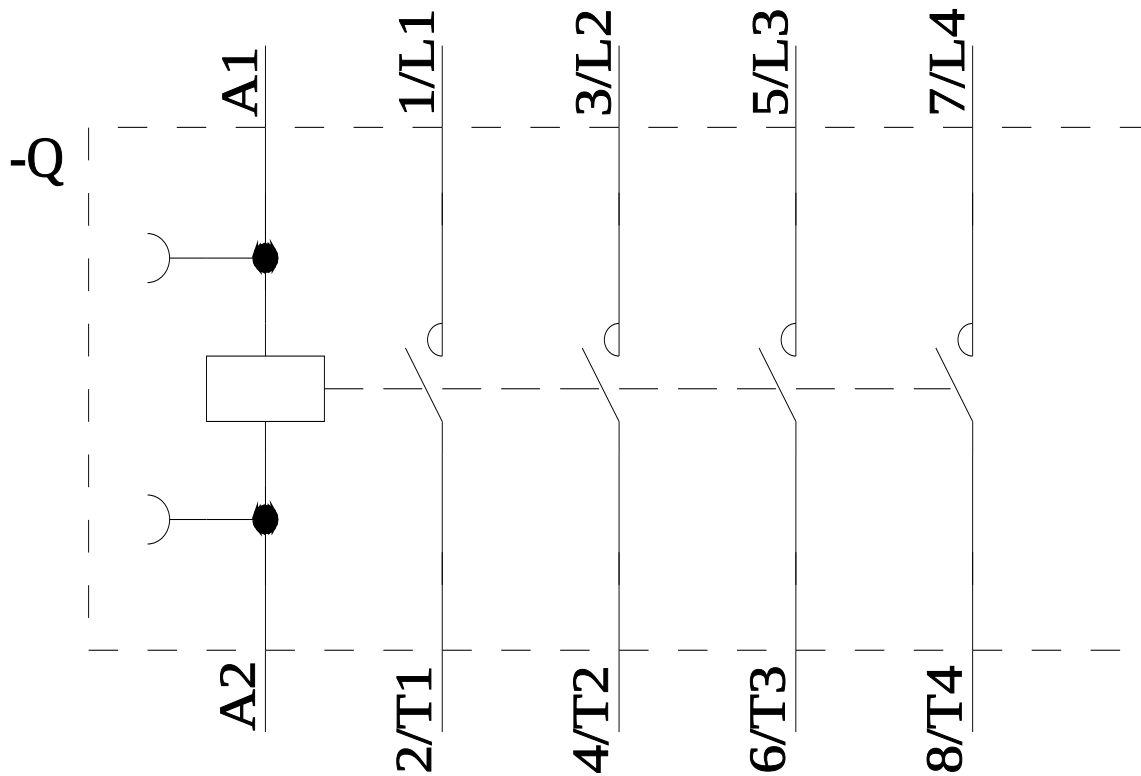
EMV	Test Certificates	Marine / Shipping
	Type Test Certificates/Test Report	Special Test Certificate

Marine / Shipping	other
	Miscellaneous
	Confirmation

Railway	Environment
Special Test Certificate	
	Environmental Confirmations

Further information	
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=3RT2317-2AB00	
Cax online generator	
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2317-2AB00	
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)	
https://support.industry.siemens.com/cs/ww/en/ps/3RT2317-2AB00	
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)	
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2317-2AB00&lang=en	
Characteristic: Tripping characteristics, I _t , Let-through current	
https://support.industry.siemens.com/cs/ww/en/ps/3RT2317-2AB00/char	
Further characteristics (e.g. electrical endurance, switching frequency)	
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2317-2AB00&objecttype=14&gridview=view1	





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