

Contactor, AC-1, 400 A 230 (50...60 Hz) / DC operation 220 ... 240 V
 UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S10 Busbar
 connections Drive: conventional



Figure similar

Product brand name	SIRIUS
General technical data	
Size of contactor	S10
Product extension	
<ul style="list-style-type: none"> • function module for communication • Auxiliary switch 	<p>No</p> <p>Yes</p>
Insulation voltage	
<ul style="list-style-type: none"> • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value 	<p>1 000 V</p> <p>690 V</p>
Surge voltage resistance	
<ul style="list-style-type: none"> • of main circuit rated value • of auxiliary circuit rated value 	<p>8 kV</p> <p>6 kV</p>
Protection class IP	
<ul style="list-style-type: none"> • on the front • of the terminal 	<p>IP00; IP20 on the front with cover / box terminal</p> <p>IP00</p>

Shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
Shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 10 ms
Mechanical service life (switching cycles)	
• of contactor typical	10 000 000
• of the contactor with added electronics-compatible auxiliary switch block typical	5 000 000
• of the contactor with added auxiliary switch block typical	10 000 000
Reference code acc. to DIN EN 81346-2	Q

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 during operation	0 ... 95 %

Main circuit

Number of poles for main current circuit	3
Number of NO contacts for main contacts	3
Operating voltage	
• at AC	
— at 50 Hz rated value	240 V
Operating current	
• at AC-1 at 400 V	
— rated value	380 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	400 A
— up to 690 V at ambient temperature 60 °C rated value	380 A
— up to 1000 V at ambient temperature 40 °C rated value	150 A
— up to 1000 V at ambient temperature 60 °C rated value	150 A
• at AC-3	
— at 400 V rated value	138 A
Connectable conductor cross-section in main circuit at AC-1	

<ul style="list-style-type: none"> • at 60 °C minimum permissible • at 40 °C minimum permissible 	240 mm ² 240 mm ²
No-load switching frequency	
<ul style="list-style-type: none"> • at AC • at DC 	2 000 1/h 2 000 1/h
Operating frequency	
<ul style="list-style-type: none"> • at AC-1 maximum 	600 1/h

Control circuit/ Control

Type of voltage	AC/DC
Type of voltage of the control supply voltage	AC/DC
Control supply voltage at AC	
<ul style="list-style-type: none"> • at 50 Hz rated value • at 60 Hz rated value 	220 ... 240 V 220 ... 240 V
Control supply voltage at DC	
<ul style="list-style-type: none"> • rated value 	220 ... 240 V
Operating range factor control supply voltage rated value of magnet coil at DC	
<ul style="list-style-type: none"> • initial value • Full-scale value 	0.8 1.1
Operating range factor control supply voltage rated value of magnet coil at AC	
<ul style="list-style-type: none"> • at 50 Hz • at 60 Hz 	0.8 ... 1.1 0.8 ... 1.1
Design of the surge suppressor	with varistor
Apparent pick-up power of magnet coil at AC	
<ul style="list-style-type: none"> • at 50 Hz 	590 V·A
Inductive power factor with closing power of the coil	
<ul style="list-style-type: none"> • at 50 Hz 	0.9
Apparent holding power of magnet coil at AC	
<ul style="list-style-type: none"> • at 50 Hz 	6.7 V·A
Inductive power factor with the holding power of the coil	
<ul style="list-style-type: none"> • at 50 Hz 	0.9
Closing power of magnet coil at DC	650 W
Holding power of magnet coil at DC	7.4 W
Closing delay	
<ul style="list-style-type: none"> • at AC • at DC 	30 ... 95 ms 30 ... 95 ms
Opening delay	
<ul style="list-style-type: none"> • at AC • at DC 	40 ... 80 ms 40 ... 80 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	2
• attachable	4
• instantaneous contact	2
• lagging switching	0
Number of NO contacts for auxiliary contacts	2
• attachable	4
• instantaneous contact	2
• leading contact	0
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
Operating current at DC-13	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 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
Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
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: 500 A (690 V, 100 kA)
— with type of assignment 2 required	gR: 500 A (690 V, 100 kA)
• for short-circuit protection of the auxiliary switch required	fuse gG: 10 A
Installation/ mounting/ dimensions	
Mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
Mounting type	screw fixing
• Side-by-side mounting	Yes
Height	210 mm
Width	145 mm
Depth	202 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 	<p>20 mm</p> <p>10 mm</p> <p>10 mm</p> <p>0 mm</p> <p>20 mm</p> <p>10 mm</p> <p>10 mm</p> <p>10 mm</p> <p>20 mm</p> <p>10 mm</p> <p>10 mm</p> <p>10 mm</p>

Connections/Terminals

Type of electrical connection <ul style="list-style-type: none"> • for main current circuit • for auxiliary and control current circuit 	<p>screw-type terminals</p> <p>screw-type terminals</p>
Type of connectable conductor cross-sections <ul style="list-style-type: none"> • at AWG conductors for main contacts 	<p>2/0 ... 500 kcmil</p>
Connectable conductor cross-section for main contacts <ul style="list-style-type: none"> • single or multi-stranded • stranded 	<p>70 ... 240 mm²</p> <p>70 ... 240 mm²</p>
Connectable conductor cross-section for auxiliary contacts <ul style="list-style-type: none"> • single or multi-stranded • finely stranded with core end processing 	<p>0.5 ... 4 mm²</p> <p>0.5 ... 2.5 mm²</p>
Type of connectable conductor cross-sections <ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for auxiliary contacts 	<p>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)</p> <p>2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), max. 2x (0,75 ... 4 mm²)</p> <p>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)</p> <p>2x (20 ... 16), 2x (18 ... 14), 1x 12</p>

Safety related data

Product function <ul style="list-style-type: none"> • Mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1 	<p>Yes</p> <p>No</p>
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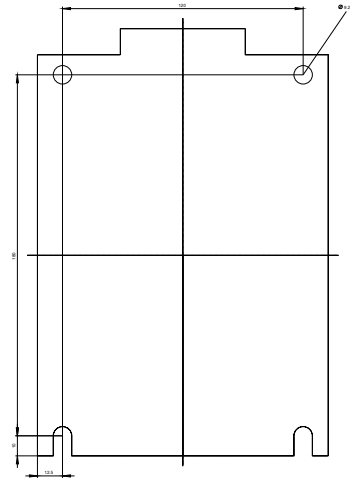
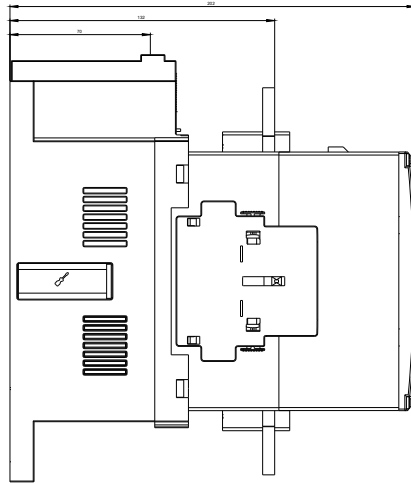
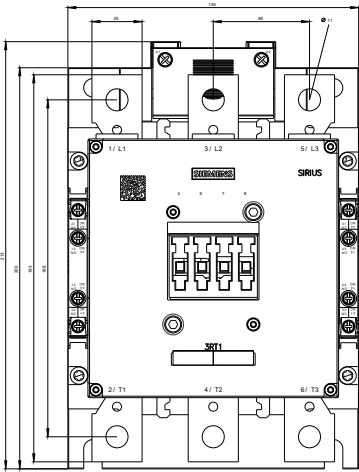
Certificates/approvals

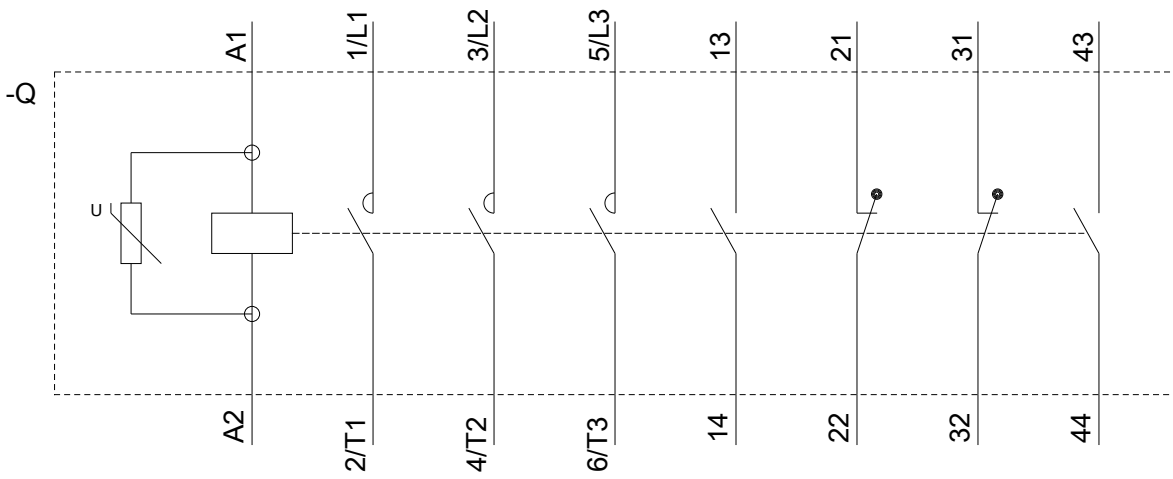
General Product Approval				Functional Safety/Safety of Machinery	Declaration of Conformity
				Type Examination Certificate	 EG-Konf.
CCC	CSA	UL			

Test Certificates	Marine / Shipping	other	
Special Test Certificate			
	ABS	RMRS	DNVGL.COM/AF
		Miscellaneous	Confirmation

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)<http://www.siemens.com/industrial-controls/catalogs>**Industry Mall (Online ordering system)**<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1466-6AP36>**Cax online generator**<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1466-6AP36>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<https://support.industry.siemens.com/cs/ww/en/ps/3RT1466-6AP36>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1466-6AP36&lang=en**Characteristic: Tripping characteristics, I_t, Let-through current**<https://support.industry.siemens.com/cs/ww/en/ps/3RT1466-6AP36/char>**Further characteristics (e.g. electrical endurance, switching frequency)**<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1466-6AP36&objecttype=14&gridview=view1>





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