Data sheet





power contactor AC-1 275 A / 690 V / 40 $^{\circ}$ C 3-pole, Uc: 24 V DC (0.7-1.25) PLC input 24-110 V DC drive: electronic auxiliary contacts 2 NO + 2 NC main circuit: busbar control and auxiliary circuit: screw terminal extended rated condition railroad IEC 60077

product designation design of the product product type designation SRT14 Ceneral technical data size of contactor Product extension • function module for communication • auxiliary switch • without load current share typical insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • at DC shock resistance of railway applications according to EN 61373 category 1, Class B shock resistance with sine pulse • at DC government of the contactor with added auxiliary switch block by call on 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block by call of the contactor with added auxiliary switch block by call of the contactor with added auxiliary switch block by call of the contactor with added auxiliary switch block by call of the contactor with added auxiliary switch block by call of the contactor with added auxiliary switch block by call of the contactor with ad	product brand name	SIRIUS
design of the product pro designation SRT14 Size of contactor S6 product extension • Incident module for communication • No • auxillary switch • Yes power loss [W] for rated value of the current • without load current share typical 2.8 W Insulation voltage • of main circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • Sk V • of auxillary circuit rated value • Sk V • of auxillary circuit rated value • Sk V • of auxillary circuit rated value • Sk V • of auxillary circuit rated value • Sk V • of auxillary circuit rated value • Sk V • of auxillary circuit rated value • Sk V • of auxillary value prications according to EN 60947-1 • Shock resistance at rectangular impulse • at DC • Shock resistance at rectangular impulse • at DC • Shock resistance with sine pulse • at DC • Shock resistance with sine pulse • of Contactor typical • of the contactor with added electronically optimized auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor wit	product designation	Power contactor
Product type designation SRT14		With extended operating range
size of contactor product extension • function module for communication • auxiliary switch • without load current share typical • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • of contactor with sine pulse • at DC shock resistance with sine pulse • at DC shock resistance with sine pulse • at DC rechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block vipical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical •	product type designation	3RT14
product extension • function module for communication • auxiliary switch power loss [W] for rated value of the current • without load current share typical • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • of auxiliary since the contact on the separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at DC • at DC • at DC shock resistance with sine pulse • at DC shock resistance with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Qu Substance Prohibitance (Date) Aubient conditions installation attitude at height above sea level maximum auxiliary switch block are season and the season are season and season are	General technical data	
• function module for communication • auxillary switch power loss [W] for rated value of the current • without load current share typical • of main circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of main circuit rated value • of auxillary applications according to EN 61973 • at DC • of contactor typical • of the contactor with added electronically optimized auxillary switch block typical • of the contactor with added electronically optimized auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch blo	size of contactor	S6
auxiliary switch power loss [W] for rated value of the current without load current share typical insulation voitage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of a variliary applications according to EN 60947-1 shock resistance for railway applications according to EN 61373 shock resistance at rectangular impulse of a LDC shock resistance with sine pulse of the Contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with	product extension	
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without load current share typical 2.8 W insulation voltage	auxiliary switch	Yes
Insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of main circuit rated value • of main circuit rated value • of auxiliary circuit rated value • of value • of auxiliary circuit rated value • of paylia contacts according to EN 60947-1 shock resistance for railway applications according to EN 61373 Category 1, Class B shock resistance at rectangular impulse • at DC • of contactor with sine pulse • of the contactor lypical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typic	power loss [W] for rated value of the current	
of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value of kV maximum permissible voltage for protective separation between coil and main contacts according to EN 69347-1 shock resistance of railway applications according to EN 61373 shock resistance at rectangular impulse of tDC	 without load current share typical 	2.8 W
of auxillary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxillary circuit rated value of sold auxillary applications according to EN 61373 category 1, Class B of auxillary applications according to EN 61373 category 1, Class B of auxillary applications according to EN 61373 category 1, Class B of auxillary applications according to EN 61373 of the contactor with sine pulse of the contactor with added electronically optimized auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor	insulation voltage	
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of auxiliary circuit rated value maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance for railway applications according to EN 61373 Category 1, Class B shock resistance at rectangular impulse	surge voltage resistance	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance for railway applications according to EN 61373 category 1, Class B shock resistance at rectangular impulse	 of main circuit rated value 	8 kV
shock resistance for railway applications according to EN 61373 shock resistance at rectangular impulse • at DC • at DC • at DC • at DC • of Contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically opti	of auxiliary circuit rated value	6 kV
shock resistance at rectangular impulse		690 V
at DC shock resistance with sine pulse at DC 13,4g / 5 ms, 6,5g / 10 ms mechanical service life (operating cycles) of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical 10 000 000 po/06/2016 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature of during operation of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 po/06/2016 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature of during operation of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 po/06/2016 Ambient conditions 10 000 000 po/06/2016 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature of during operation of the contactor with added auxiliary switch block typical 10 000 000 po/06/2016 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature of during operation of the contactor with added auxiliary switch block typical 10 000 000 po/06/2016 Ambient conditions installation altitude at height above sea level ma	shock resistance for railway applications according to EN 61373	Category 1, Class B
shock resistance with sine pulse	shock resistance at rectangular impulse	
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reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit		5 000 000
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit	 of the contactor with added auxiliary switch block typical 	10 000 000
installation altitude at height above sea level maximum ambient temperature during operation during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum ambient temperature during operation during storage during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit	Substance Prohibitance (Date)	09/06/2016
ambient temperature • during operation • during storage • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit	Ambient conditions	
 during operation during storage telative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit 	installation altitude at height above sea level maximum	2 000 m
• during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit	ambient temperature	
relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit	 during operation 	-40 +70 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum Main circuit	during storage	-55 +80 °C
maximum Main circuit	relative humidity minimum	10 %
		95 %
number of poles for main current circuit 3	Main circuit	
	number of poles for main current circuit	3

number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
at AC-3 rated value maximum	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated 	275 A
value	
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	275 A
— up to 690 V at ambient temperature 60 °C rated	250 A
value	250 A
• at AC-2 at 400 V rated value	97 A
• at AC-3	
— at 400 V rated value	97 A
— at 500 V rated value	97 A
— at 690 V rated value	97 A
minimum cross-section in main circuit	
at maximum AC-1 rated value	140 mm²
at maximum Ith rated value	140 mm ²
operational current	
at 1 current path at DC-1	
— at 24 V rated value	250 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
with 2 current paths in series at DC-1	0.5 A
	250 A
— at 24 V rated value	
— at 110 V rated value	250 A
— at 220 V rated value	20 A
— at 440 V rated value	3.2 A
— at 600 V rated value	1.6 A
with 3 current paths in series at DC-1	
— at 24 V rated value	250 A
— at 110 V rated value	250 A
— at 220 V rated value	250 A
— at 440 V rated value	11.5 A
— at 600 V rated value	4 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	250 A
— at 110 V rated value	2.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.17 A
— at 600 V rated value	0.12 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	250 A
— at 110 V rated value	250 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	250 A
— at 110 V rated value	250 A
— at 220 V rated value	250 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
at AC-2 at 400 V rated value	55 kW
• at AC-3	
— at 230 V rated value	30 kW
— at 400 V rated value	55 kW

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— at 500 V rated value	55 kW
— at 690 V rated value	90 kW
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	2 900 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	2 084 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	1 480 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	968 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	801 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	1 000 1/h
operating frequency	
• at AC-1 maximum	600 1/h
operating frequency	
• at DC-1 maximum	400 1/h
Ratings for railway applications	
thermal current (Ith) up to 690 V	
 up to 40 °C according to IEC 60077 rated value 	275 A
 up to 70 °C according to IEC 60077 rated value 	190 A
Control circuit/ Control	
type of voltage	DC
type of voltage of the control supply voltage	DC
control supply voltage at DC	
• rated value	24 V
operating range factor control supply voltage rated value of	
magnet coil at DC	
• initial value	0.7
• full-scale value	1.25
consumed current at PLC-control input according to IEC 60947-1 maximum	2 mA
voltage at PLC-control input	24 110 V
design of the surge suppressor	with varistor
closing power of magnet coil at DC	320 W
holding power of magnet coil at DC	2.8 W
closing delay	
• at DC	35 75 ms
opening delay	
• at DC	80 90 ms
arcing time	10 15 ms
control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
instantaneous contact	2
number of NO contacts for auxiliary contacts	2
instantaneous contact	2
operational current at AC-12 maximum	10 A
operational 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
operational current at DC-12	40.0
 at 24 V rated value 	10 A
-t 40 \/t	0.4
• at 48 V rated value	6 A
• at 60 V rated value	6 A
at 60 V rated valueat 110 V rated value	6 A 3 A
at 60 V rated valueat 110 V rated valueat 125 V rated value	6 A 3 A 2 A
 at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value 	6 A 3 A 2 A 1 A
 at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value 	6 A 3 A 2 A
 at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13	6 A 3 A 2 A 1 A 0.15 A
 at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value 	6 A 3 A 2 A 1 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
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	96 A
• at 600 V rated value	99 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— at 220/230 V rated value	40 hp
— at 460/480 V rated value	75 hp
— at 575/600 V rated value	100 hp
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: 355 A (690 V, 100 kA)
— with type of assignment 2 required	gR: 350 A (690 V, 100 kA)
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	go. 10.11(000 1, 1.12.)
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface
mounting position	+/- 22.5° tiltable to the front and back
fastening method	screw fixing
• side-by-side mounting	Yes
height	172 mm
width	120 mm
depth	170 mm
required spacing	
 with side-by-side mounting 	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
for grounded parts	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	20 mm
— upwards	10 mm
•	
— downwards	10 mm
— downwards— at the side	10 mm
— at the side	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
— at the side Connections/ Terminals	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
— at the side Connections/ Terminals type of electrical connection	10 mm
— at the side Connections/ Terminals type of electrical connection • for main current circuit	10 mm screw-type terminals
- at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	10 mm screw-type terminals screw-type terminals
- at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit width of connection bar	screw-type terminals screw-type terminals 17 mm
- at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit width of connection bar thickness of connection bar	screw-type terminals screw-type terminals 17 mm 3 mm
— at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit width of connection bar thickness of connection bar diameter of holes	screw-type terminals screw-type terminals 17 mm 3 mm 9 mm
— at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit width of connection bar thickness of connection bar diameter of holes number of holes	screw-type terminals screw-type terminals 17 mm 3 mm
— at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit width of connection bar thickness of connection bar diameter of holes number of holes type of connectable conductor cross-sections for main contacts	screw-type terminals screw-type terminals 17 mm 3 mm 9 mm
— at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit width of connection bar thickness of connection bar diameter of holes number of holes type of connectable conductor cross-sections for main contacts • solid or stranded	screw-type terminals screw-type terminals 17 mm 3 mm 9 mm 1 2x (25 120 mm²)
— at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit width of connection bar thickness of connection bar diameter of holes number of holes type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing	screw-type terminals screw-type terminals 17 mm 3 mm 9 mm
— at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit width of connection bar thickness of connection bar diameter of holes number of holes type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections	screw-type terminals screw-type terminals 17 mm 3 mm 9 mm 1 2x (25 120 mm²)
— at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit width of connection bar thickness of connection bar diameter of holes number of holes type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts	screw-type terminals screw-type terminals 17 mm 3 mm 9 mm 1 2x (25 120 mm²) max. 1x 50, 1x 70 mm²
— at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit width of connection bar thickness of connection bar diameter of holes number of holes type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections	screw-type terminals screw-type terminals 17 mm 3 mm 9 mm 1 2x (25 120 mm²)

 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14), 1x 12
AWG number as coded connectable conductor cross section	
 for auxiliary contacts 	18 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
B10 value with high demand rate according to SN 31920	1 000 000
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	IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
Communication/ Protocol	
product function bus communication	No
Certificates/ approvals	

General Product Approval





Confirmation



<u>KC</u>



EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conformity	Test Certificates
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Type Examination Cer**tificate**





Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>

other		Railway			
Confirmation	Miscellaneous	Type Test Certificates/Test Report	Vibration and Shock	Special Test Certific- ate	

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=3RT1456-6XB46-0LA2

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT1456-6XB46-0LA2}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1456-6XB46-0LA2

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

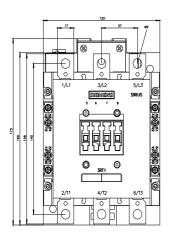
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1456-6XB46-0LA2&lang=en

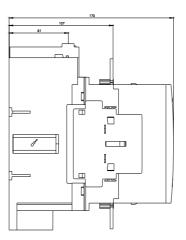
Characteristic: Tripping characteristics, I2t, Let-through current

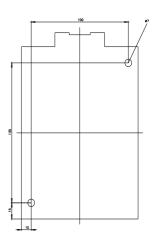
https://support.industry.siemens.com/cs/ww/en/ps/3RT1456-

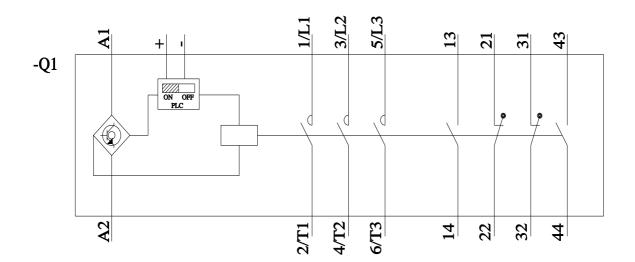
Further characteristics (e.g. electrical endurance, switching frequency)

 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RT1456-6XB46-0LA2\&objecttype=14\&gridview=view1}$









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