3RT1056-6XB46-0LA2

## **Data sheet**



power contactor, AC-3e/AC-3 185 A, 90 kW / 400 V Uc: 24 V DC x (0.7-1.25) PLC input 24-110 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic main circuit: busbar control and auxiliary circuit: screw terminal extended rated condition railroad IEC 60077

product brand name	SIRIUS
product designation	Power contactor
design of the product	With extended operating range
product type designation	3RT1
General technical data	
size of contactor	S6
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	39 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	13 W
without load current share typical	2.8 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
of auxiliary circuit with degree of pollution 3 rated value	500 V
surge voltage resistance	
of main circuit rated value	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance for railway applications according to EN 61373	Category 1, Class B
shock resistance at rectangular impulse	
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	13,4g / 5 ms, 6,5g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	09/06/2016
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-40 +70 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

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	•
	4 000 V
at AC-3 rated value maximum	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	045.4
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	215 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	215 A
value	21071
— up to 690 V at ambient temperature 60 °C rated	185 A
value	
— up to 1000 V at ambient temperature 60 °C rated	100 A
value	185 A
at AC-2 at 400 V rated value	165 A
• at AC-3	10F A
— at 400 V rated value	185 A
— at 500 V rated value	185 A
— at 690 V rated value	170 A
— at 1000 V rated value	65 A
• at AC-3e	
— at 400 V rated value	185 A
— at 500 V rated value	185 A
— at 690 V rated value	170 A
— at 1000 V rated value	65 A
at AC-4 at 400 V rated value	160 A
minimum cross-section in main circuit	
<ul> <li>at maximum AC-1 rated value</li> </ul>	95 mm²
at maximum Ith rated value	95 mm²
operational current for approx. 200000 operating cycles at	
AC-4	
• at 400 V rated value	81 A
at 690 V rated value	65 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	160 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
<ul><li>with 2 current paths in series at DC-1</li></ul>	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	20 A
— at 440 V rated value	3.2 A
— at 600 V rated value	1.6 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 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	160 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 110 v lated value	
— at 600 V rated value	0.12 A

	— at 24 V rated value	160 A
	— at 110 V rated value	160 A
With 3 current paths in series at DC-3 at DC-5	— at 220 V rated value	2.5 A
with 3 current paths in series at DC-3 at DC-5	— at 440 V rated value	0.65 A
	— at 600 V rated value	0.37 A
	<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
	— at 24 V rated value	160 A
	— at 110 V rated value	160 A
Operating power   Operating   Oper	— at 220 V rated value	160 A
Operating power   at AC-2 at 400 V rated value   90 kW   at AC-3   AC-2 at 400 V rated value   90 kW   AC-2 at 400 V rated value   41 kW   AC-2 at 400 V rated value   41 kW   AC-2 at 400 V rated value   42 kW   AC-2 at 400 V rated value   43 kW   AC-2 at 400 V rated value   45 kW	— at 440 V rated value	1.4 A
e at AC-2 at 400 V rated value	— at 600 V rated value	0.75 A
	operating power	
	• at AC-2 at 400 V rated value	90 kW
	• at AC-3	
at 500 V rated value at 600 V rated value at 1000 V rated value 4 1000 V rated value 4 1000 V rated value 4 1400 V rated value 4 1500 V rated value 4	— at 230 V rated value	61 kW
at 690 V rated value at 1000 V rated value at 1000 V rated value at 1000 V rated value at 400 V rated value at 400 V rated value at 400 V rated value at 690 V rated value at 1000 V rated value at 690 V rated value at 790 V rated valu	— at 400 V rated value	90 kW
at 1000 V rated value	— at 500 V rated value	132 kW
	— at 690 V rated value	160 kW
- at 400 V rated value - at 500 V rated value - at 600 V rated value - at 1000 V rated value - at 400 V rated value - at 400 V rated value - at 400 V rated value - at 690 V rated v		
- at 400 V rated value - at 500 V rated value - at 600 V rated value - at 1000 V rated value - at 400 V rated value - at 400 V rated value - at 400 V rated value - at 690 V rated v	— at 230 V rated value	61 kW
at 500 V rated value at 690 V rated value at 1000 V rated value at 1000 V rated value at 1000 V rated value 90 kW 90	— at 400 V rated value	90 kW
- at 690 V rated value		
operating power for approx. 200000 operating cycles at AC-4  at 4 400 V rated value at 690 V rated value 45 kW 50		100
operating power for approx. 200000 operating cycles at AC- 4 at 40 0 V rated value 5 kW 5 of the withstand current in cold operating state up to 40 °C 6 limited to 1 s switching at zero current maximum 6 limited to 5 s switching at zero current maximum 7 limited to 10 s switching at zero current maximum 8 limited to 30 s switching at zero current maximum 9 limited to 30 s switching at zero current maximum 9 limited to 80 s switching at zero current maximum 1 limited to 80 s switching at zero current maximum 1 limited to 80 s switching at zero current maximum 1 limited to 80 s switching at zero current maximum 1 limited to 80 s switching at zero current maximum 1 limited to 80 s switching at zero current maximum 1 limited to 80 s switching at zero current maximum 1 limited to 80 s switching at zero current maximum 1 lood 3 ky Use minimum cross-section acc. to AC-1 rated value 1 limited to 80 s switching at zero current maximum 1 lood 3 ky Use minimum cross-section acc. to AC-1 rated value 1 limited to 80 s switching at zero current maximum 1 lood 4 ky Use minimum cross-section acc. to AC-1 rated value 1 limited to 80 s switching at zero current maximum 1 lood 4 ky Use minimum cross-section acc. to AC-1 rated value 1 limited to 80 s switching at zero current maximum 1 limited to 80 s switching at zero current maximum 1 limited to 81 ky Use minimum cross-section acc. to AC-1 rated value 1 limited to 81 ky Use minimum cross-section acc. to AC-1 rated value 1 limited to 81 ky Use minimum cross-section acc. to AC-1 rated value 1 limited to 81 ky Use minimum cross-section acc. to AC-1 rated value 1 limited to 81 ky Use minimum cross-section acc. to AC-1 rated value 1 limited to 10 s switching at zero current maximum 1 limited to 10 s switching at zero current maximum 1 limited to 10 s switching at zero current maximum 1 limited to 10 s switching at zero current maximum 1 limited to 10 limiter cross-section acc. to AC-1 rated value 1 limited to 10 s switching at zero urrent maximum 1 limited to 10 limiter cross-section		90 kW
** at 400 V rated value ** at 690 V rated value ** at		
* at 690 V rated value  short-time withstand current in cold operating state up to 40 °C  ilimited to 1 s switching at zero current maximum  ilimited to 5 s switching at zero current maximum  ilimited to 30 s switching at zero current maximum  ilimited to 30 s switching at zero current maximum  ilimited to 60 s switching at zero		
short-time withstand current in cold operating state up to 40 °C  • limited to 1 s switching at zero current maximum  • limited to 5 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  no-load switching frequency  • at DC  • at AC-1 maximum  • at AC-2 maximum  • at AC-3 maximum  • at AC-3 e maximum  • at AC-4 maximum  • at DC-4 maximum  • at DC-4 maximum  • at DC-4 maximum  • at DC-5 m	• at 400 V rated value	45 kW
## Section and Company	at 690 V rated value	65 kW
Ilimited to 5 s switching at zero current maximum Ilimited to 10 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum  No-load switching frequency Ilimited to 60 s switching at zero current maximum  No-load switching frequency Ilimited to 60 s switching at zero current maximum  No-load switching frequency Ilimited to 60 s switching at zero current maximum  No-load switching frequency Ilimited to 60 s switching at zero current maximum  No-load No-load switching at zero current maximum  No-load No-load switching at zero c		
Ilimited to 10 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ino-load switching frequency Inoload	<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	2 900 A; Use minimum cross-section acc. to AC-1 rated value
Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ino-load switching frequency Ino-load switching frequency In 1 000 1/h Inoparating frequency In 200 1/h In 200	<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	2 084 A; Use minimum cross-section acc. to AC-1 rated value
Ilimited to 60 s switching at zero current maximum  no-load switching frequency  at DC  operating frequency  at AC-1 maximum  800 1/h  at AC-2 maximum  300 1/h  at AC-3 maximum  550 1/h  at AC-3 e maximum  750 1/h  at AC-2 at AC-3e maximum  300 1/h  at AC-2 at AC-3e maximum  400 1/h  operating frequency  at DC-1 maximum  400 1/h  at DC-3 maximum  400 1/h  at DC-5 maximum  350 1/h  at DC-5 maximum  350 1/h  at DC-6 maximum  350 1/h  21 DC-6 maximum  350 1/h  Attings for railway applications  ###################################	<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	1 480 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	968 A; Use minimum cross-section acc. to AC-1 rated value
• at DC  operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-2 at AC-3 maximum • at AC-2 at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at DC-1 maximum • at DC-1 maximum • at DC-3 maximum • at DC-3 maximum • at DC-6 maximum • at DC-6 maximum • at DC-6 maximum • at DC-7 maximum • at DC-8 maximum • at DC-8 maximum • at DC-9 maximum • a	<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	801 A; Use minimum cross-section acc. to AC-1 rated value
operating frequency  • at AC-1 maximum  • at AC-2 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-3e maximum  • at AC-3e maximum  • at AC-4 maximum  • at AC-4 maximum  • at AC-4 maximum  • at AC-4 maximum  • at DC-1 maximum  • at DC-1 maximum  • at DC-3 maximum  • at DC-3 maximum  • at DC-5 maximum  • at DC-6 maximum  • at DC-7 maximum  • at DC-8 maximum  • at DC-8 maximum  • at DC-9 maximum  • at DC-9 maximum  • at DC-1 maximum  • at DC-3 maximum  • at DC-1 maximum  • at DC-3 maximum  • at DC-5 maximum  • at DC-5 maximum  • at DC-1	no-load switching frequency	
<ul> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>750 1/h</li> <li>at AC-3e maximum</li> <li>750 1/h</li> <li>at AC-3e maximum</li> <li>300 1/h</li> <li>at AC-2 at AC-3e maximum</li> <li>300 1/h</li> <li>at AC-4 maximum</li> <li>130 1/h</li> <li>operating frequency</li> <li>at DC-1 maximum</li> <li>at DC-3 maximum</li> <li>at DC-3 maximum</li> <li>at DC-5 maximum</li> <li>at DC-6 maximum</li> <li>at DC-6 maximum</li> <li>at DC-7 maximum</li> <li< td=""><td>• at DC</td><td>1 000 1/h</td></li<></ul>	• at DC	1 000 1/h
at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3e maximum at AC-3e maximum at AC-2 at AC-3e maximum at AC-2 at AC-3e maximum at AC-4 maximum at AC-2 at AC-3e maximum at AC-4 maximum at AC-2 at AC-3e maximum at AC-1 maximum at AC-2 at AC-3e maximum at AC-2 at AC-3e maximum at AC-4 maximum at AC-2 at AC-3e at	operating frequency	
at AC-3 maximum  at AC-3e maximum  at AC-2 at AC-3e maximum  at AC-4 maximum  at AC-4 maximum  operating frequency  at DC-1 maximum  at DC-3 maximum  at DC-5 maximum  at DC-6 maximum  at DC-6 maximum  at DC-7 or ailway applications  thermal current (Ith) up to 690 V  aup to 40 °C according to IEC 60077 rated value  aup to 70 °C according to IEC 60077 rated value  type of voltage  type of voltage  type of voltage of the control supply voltage  control supply voltage at DC  arated value  at AC-3 maximum  at AC-2 at AC-3e maximum  at AC-4 maximum  at AC-5 maximum  at AC	• at AC-1 maximum	800 1/h
at AC-3e maximum at AC-2 at AC-3e maximum at AC-2 at AC-3e maximum at AC-4 maximum  130 1/h  operating frequency at DC-1 maximum at DC-3 maximum at DC-5 maxi	• at AC-2 maximum	300 1/h
at AC-2 at AC-3e maximum  at AC-4 maximum  130 1/h  operating frequency  at DC-1 maximum  400 1/h  at DC-3 maximum  350 1/h  at DC-5 maximum  350 1/h  Ratings for railway applications  thermal current (Ith) up to 690 V  up to 40 °C according to IEC 60077 rated value  up to 70 °C according to IEC 60077 rated value  145 A  Control circuit/ Control  type of voltage  type of voltage of the control supply voltage  control supply voltage at DC  rated value  24 V	• at AC-3 maximum	750 1/h
at AC-4 maximum  operating frequency  at DC-1 maximum  at DC-3 maximum  at DC-5 maximum  at DC-6 maximum  at DC-7 maximum  a	• at AC-3e maximum	750 1/h
operating frequency  • at DC-1 maximum  • at DC-3 maximum  • at DC-5 maximum  350 1/h  Ratings for railway applications  thermal current (Ith) up to 690 V  • up to 40 °C according to IEC 60077 rated value  • up to 70 °C according to IEC 60077 rated value  145 A  Control circuit/ Control  type of voltage  type of voltage of the control supply voltage  control supply voltage at DC  • rated value  24 V	• at AC-2 at AC-3e maximum	300 1/h
at DC-1 maximum  at DC-3 maximum  at DC-5 maximum  at DC-5 maximum  at DC-5 maximum  350 1/h  Ratings for railway applications  thermal current (Ith) up to 690 V  aup to 40 °C according to IEC 60077 rated value  aup to 70 °C according to IEC 60077 rated value  145 A  Control circuit/ Control  type of voltage  type of voltage  pC  control supply voltage at DC  arrated value  24 V	• at AC-4 maximum	130 1/h
<ul> <li>at DC-3 maximum</li> <li>at DC-5 maximum</li> <li>350 1/h</li> </ul> Ratings for railway applications thermal current (Ith) up to 690 V <ul> <li>up to 40 °C according to IEC 60077 rated value</li> <li>up to 70 °C according to IEC 60077 rated value</li> <li>145 A</li> </ul> Control circuit/ Control type of voltage <ul> <li>DC</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at DC</li> <li>rated value</li> </ul> 24 V	operating frequency	
at DC-5 maximum  Ratings for railway applications  thermal current (Ith) up to 690 V      up to 40 °C according to IEC 60077 rated value     up to 70 °C according to IEC 60077 rated value  Control circuit/ Control  type of voltage  type of voltage of the control supply voltage  control supply voltage at DC  rated value  24 V	• 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 215 A  • up to 70 °C according to IEC 60077 rated value 145 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	• at DC-3 maximum	350 1/h
thermal current (Ith) up to 690 V  • up to 40 °C according to IEC 60077 rated value 215 A  • up to 70 °C according to IEC 60077 rated value 145 A  Control circuit/ Control  type of voltage DC  type of voltage at DC  • rated value 24 V	• at DC-5 maximum	350 1/h
<ul> <li>up to 40 °C according to IEC 60077 rated value</li> <li>up to 70 °C according to IEC 60077 rated value</li> <li>145 A</li> <li>Control circuit/ Control</li> <li>type of voltage</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>24 V</li> </ul>	Ratings for railway applications	
up to 70 °C according to IEC 60077 rated value  Control circuit/ Control  type of voltage  type of voltage of the control supply voltage  control supply voltage at DC  rated value  145 A  DC  type of voltage of the control supply voltage  DC  24 V	thermal current (Ith) up to 690 V	
up to 70 °C according to IEC 60077 rated value  Control circuit/ Control  type of voltage  type of voltage of the control supply voltage  control supply voltage at DC  rated value  145 A  DC  type of voltage of the control supply voltage  DC  24 V	<ul> <li>up to 40 °C according to IEC 60077 rated value</li> </ul>	215 A
type of voltage DC  type of voltage of the control supply voltage DC  control supply voltage at DC  • rated value 24 V	<ul> <li>up to 70 °C according to IEC 60077 rated value</li> </ul>	145 A
type of voltage DC  type of voltage of the control supply voltage DC  control supply voltage at DC  • rated value 24 V	Control circuit/ Control	
type of voltage of the control supply voltage  control supply voltage at DC  • rated value  DC  24 V		DC
control supply voltage at DC      • rated value  24 ∨		
• rated value 24 V		
		24 V
magnet coil at DC		
• initial value 0.7	• 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	
• at 24 V rated value	10 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 123 V rated value     at 220 V rated value	1A
• at 600 V rated value	0.15 A
operational current at DC-13	0.13 A
• at 24 V rated value	6 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
at 110 V rated value	1A
• at 125 V rated value	0.9 A
at 123 V rated value     at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
UL/CSA ratings	0.1 A
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value	180 A
at 480 V rated value     at 600 V rated value	192 A
• at 600 V rated value  yielded mechanical performance [hp]	194 A
<ul> <li>for single-phase AC motor</li> <li>at 230 V rated value</li> </ul>	230 hp
	230 hp
• for 3-phase AC motor	60 ha
— at 200/208 V rated value	60 hp
— at 220/230 V rated value	75 hp
— at 460/480 V rated value	150 hp
— at 575/600 V rated value	200 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	No
product function short circuit protection	No
design of the fuse link	
• for short-circuit protection of the main circuit	
<ul> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> </ul>	gG: 355 A (690 V, 100 kA)
• for short-circuit protection of the main circuit	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 100 kA), BS88: 315 A (415 V, 50
<ul> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> <li>— with type of assignment 2 required</li> </ul>	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 100 kA), BS88: 315 A (415 V, 50 kA)
<ul> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> </ul>	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 100 kA), BS88: 315 A (415 V, 50

mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 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
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
width of connection bar	17 mm
thickness of connection bar	3 mm
diameter of holes	9 mm
number of holes	1
type of connectable conductor cross-sections for main contacts	
solid or stranded	max. 1x 50, 1x 70 mm <sup>2</sup>
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	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	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	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



Confirmation





<u>KC</u>



EMC

Functional Safety/Safety of Machinery

## **Declaration of Conformity**

**Test Certificates** 



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

other Railway

<u>Miscellaneous</u> <u>Confirmation</u> <u>Miscellaneous</u> <u>Vibration and Shock</u> <u>Type Test Certific-</u> <u>Special Test Certific-</u> <u>ates/Test Report</u> <u>ate</u>

## 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=3RT1056-6XB46-0LA2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1056-6XB46-0LA2

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-6XB46-0LA2

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

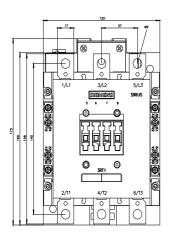
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1056-6XB46-0LA2&lang=en

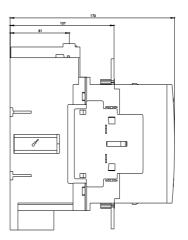
Characteristic: Tripping characteristics, I2t, Let-through current

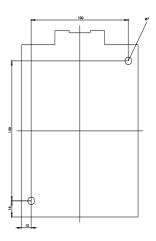
https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-6XB46-0LA2/char

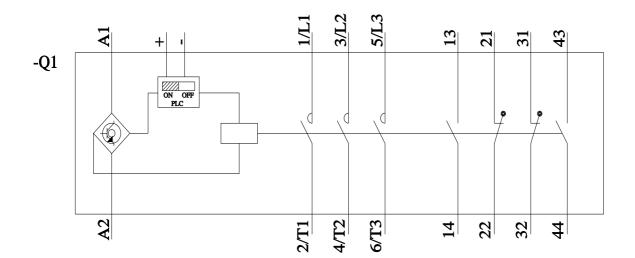
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1056-6XB46-0LA2&objecttype=14&gridview=view1









last modified: 11/4/2022 🖸

