3RT1056-2XB46-0LA2

## **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: spring-loaded 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	
function module for communication	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
<ul> <li>without load current share typical</li> </ul>	2.8 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	500 V
surge voltage resistance	
of main circuit rated value	8 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	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)	
of contactor typical	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	•
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	2.07.
— 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	160 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
	V 11 B
— at 440 V rated value  — at 600 V rated value	0.12 A

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		
	— at 24 V rated value	160 A
at 440 V rated value	— at 110 V rated value	160 A
	— at 220 V rated value	2.5 A
### with 3 current paths in series at DC-3 at DC-5  ### at 24 V rated value ### at 10 V rated value ##	— 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
	— at 220 V rated value	160 A
ACC 2st 400 V rated value	— at 440 V rated value	1.4 A
* 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 230 V rated value	61 kW
	— at 400 V rated value	90 kW
• al 1000 V rated value • al 230 V rated value — at 230 V rated value — at 250 V rated value — at 500 V rated value — at 1000 V rated value  • at 400 V rated value • 45 kW • at 400 V rated value • 65 kW  • at 400 V rated value • 65 kW  • at 500 V rated value • imited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 1 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 0 s switching at zero current maximum • limited to 0 s switching at zero current maximum • limited to 0 s switching at zero current maximum • limited to 0 s switching at zero current maximum • limited to 0 s switching at zero current maximum • limited to 0 s switching at zero current maximum • limited to 0 s switching at zero current maximum • limited to 0 s switching at zero current maximum • limited to 0 s switching at zero current maximum • limited to 0 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 8 s switching at zero current maximum • limited to 8 s switching at zero current maximum • limited to 8 s switching at zero current maximum • limited to 8 s switching at zero current maximum • limited to 8 switching at zero current maximum • limited to 8 s switching at zero current maximum • limited to 8 s switching at zero current maximum • limited to 8 switching at zero current maximum • limited to 8 switching at zero current maximum • limited to 1 switching at zero current maximum • limited to 1 switching at zero current maximum • limited to 1 switching at zero current maximum • limited to 1 switching at zero current maximum • limited to 1 switching at zero current maximum • limited to 1 switching at zero	— at 500 V rated value	132 kW
	— at 690 V rated value	160 kW
- at 230 V rated value - at 400 V rated value 90 kW 90 kW 132 kW - at 690 V rated value 152 kW 90 kW 9		
		61 kW
at 690 V rated value		
operating power for approx. 200000 operating cycles at AC- 4		100
operating power for approx. 200000 operating cycles at AC- 4 at 400 V rated value at 690 V rated value short-time withstand current in cold operating state up to 40 °C elimited to 1 s switching at zero current maximum elimited to 5 s switching at zero current maximum elimited to 5 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 30 switching frequency e at DC  oporating frequency e at AC-3 maximum et AC-2 maximum et AC-2 maximum et AC-2 maximum et AC-2 maximum et AC-3 maximum et AC-4 maximum et AC-5 maximum et AC-6 maximum et AC-7 maximum et AC-8 maximum et AC-8 maximum et AC-9 maxim		
at 400 V rated value 56 kW  short-time withstand current in cold operating state up to 40 °C  ilmited to 1 s switching at zero current maximum 2 984 k, Use minimum cross-section acc. to AC-1 rated value 1 minited to 5 s switching at zero current maximum 2 1840 k, Use minimum cross-section acc. to AC-1 rated value 2 1840 k, Use minimum cross-section acc. to AC-1 rated value 3 witching at zero current maximum 4 804 k, Use minimum cross-section acc. to AC-1 rated value 3 witching at zero current maximum 5 888 k, Use minimum cross-section acc. to AC-1 rated value 3 witching frequency 4 at DC 1 000 1/h 1		• • • • • • • • • • • • • • • • • • • •
• at 690 V rated value  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 30 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 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  • limited to 60 s switching at zero current maximum  • at DC  • at DC  • at DC  • at AC-1 maximum  • at AC-2 maximum  • at AC-3 maximum  • at AC-2 at AC-3e maximum  • at DC-1 maximum  • at DC-1 maximum  • at DC-1 maximum  • at DC-3 maximum  • at DC-5 maximum  • at	4	
short-time withstand current in cold operating state up to 40 °C  i limited to 1 s switching at zero current maximum i limited to 5 s switching at zero current maximum i limited to 10 s switching at zero current maximum i limited to 10 s switching at zero current maximum i limited to 30 s switching at zero current maximum i limited to 60 s switching at zero current maximum i limited to 60 s switching at zero current maximum si limited to 60 s switching at zero current maximum i limited to 60 s switching at zero current maximum si limited to 60 s switching at zero current maximum si limited to 60 s switching at zero current maximum si limited to 60 s switching at zero current maximum si limited to 60 s switching at zero current maximum si limited to 60 s switching at zero current maximum si limited to 60 s switching at zero current maximum si limited to 60 s switching at zero current maximum si limited to 60 s switching at zero current maximum si Double		
Illimited to 1 s switching at zero current maximum   2 900 A; Use minimum cross-section acc. to AC-1 rated value		65 kW
Ilimited to 5 s switching at zero current maximum   1 480 A; Use minimum cross-section acc. to AC-1 rated value   Ilimited to 30 s switching at zero current maximum   968 A; Use minimum cross-section acc. to AC-1 rated value   968 A; Use minim		
Ilimited to 10 s switching at zero current maximum   1 480 A; Use minimum cross-section acc. to AC-1 rated value   968 A; Use minimum cross-section acc. to AC-1 rated value   960 A; U	<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   968 A; Use minimum cross-section acc. to AC-1 rated value	<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   801 A; Use minimum cross-section acc. to AC-1 rated value	<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  • at DC  operating frequency  • at AC-1 maximum  • at AC-2 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-3 e maximum  • at AC-3 e maximum  • at AC-3 e maximum  • at AC-4 maximum  • at AC-2 at AC-3e maximum  • at AC-4 maximum  • at AC-4 maximum  • at DC-1 maximum  • at DC-1 maximum  • at DC-3 maximum  • at DC-5 maximum  • at DC-5 maximum  • at DC-5 ccoording to IEC 60077 rated value  • up to 40 °C according to IEC 60077 rated value  • up to 70 °C accordin	<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 e maximum  • at AC-3 e maximum  • at AC-2 at AC-3 e maximum  • at AC-4 maximum  1300 1/h  • at AC-4 maximum  1301 1/h  operating frequency  • at DC-1 maximum  • at DC-3 maximum  • at DC-3 maximum  • at DC-3 maximum  • at DC-5 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-1 maximum  • at D		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  750 1/h  • at AC-3 e maximum  750 1/h  • at AC-2 at AC-3 e maximum  750 1/h  • at AC-2 at AC-3 e maximum  1300 1/h  • at AC-4 maximum  1301 1/h  operating frequency  • at DC-1 maximum  • at DC-3 maximum  • at DC-3 maximum  • at DC-5 maximum  350 1/h  • at DC-5 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  215 A  • up 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  • rated value  0 perating range factor control supply voltage rated value of magnet coil at DC	no-load switching frequency	
at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-3 e maximum at AC-3 e maximum at AC-2 at AC-3 e maximum at AC-2 at AC-3 e maximum at AC-2 at AC-3 e maximum at AC-4 maximum at AC-7 maximum at AC-8 maximum at AC-9 maximum at AC-9 maximum at AC-9 maximum at AC-1 maximum at AC-2 maximum at AC-3 e maximum at AC-3 e maximum at AC-2 maximum at AC-2 maximum at AC-3 e maximum at AC-3 e maximum at AC-3 e maximum at AC-2 maximum at AC-3 e maximum at AC-3 e maximum at AC-2 maximum at AC-2 e maximum at AC-3 maximum at AC-3 e maximum at AC-2 e maximum at AC-3 e maximum at AC-2 e maximum at AC-3 e maximum at AC-3 e maximum at AC-2 e maximum at AC-3 e maxim	• 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-3 maximum at AC-4 m	operating frequency	
at AC-3 maximum at AC-3e maximum at AC-3e maximum at AC-2e at AC-3e maximum at AC-4 maximum at AC-1 maximum at AC-1 maximum at AC-3 maximum at AC-1 maximum a	• at AC-1 maximum	800 1/h
<ul> <li>at AC-3e maximum</li> <li>at AC-2 at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at DC-1 maximum</li> <li>at DC-3 maximum</li> <li>at DC-5 maximum</li> <li>at DC-6 maximum</li> <li>at DC-7 maximum</li> <li>at</li></ul>	• at AC-2 maximum	300 1/h
<ul> <li>at AC-2 at AC-3e maximum</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-5 maximum</li> <li>at DC-6 type to 40 °C according to IEC 60077 rated value</li> <li>at AC-2 at AC-4 maximum</li> <li>at DC-6 type of voltage of the control supply voltage</li> <li>at DC-7 control circuit/ Control supply voltage at DC-7 control supply voltage at DC-7 control supply voltage at DC-7 control supply voltage rated value of magnet coil at DC-7 control supply vo</li></ul>	• at AC-3 maximum	750 1/h
at AC-4 maximum     perating frequency     at DC-1 maximum     at DC-3 maximum     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     up 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         e rated value     operating range factor control supply voltage rated value of magnet coil at DC	• at AC-3e maximum	750 1/h
operating frequency  • 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  • 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  pC  control supply voltage at DC  • rated value  24 V  operating range factor control supply voltage rated value of magnet coil at DC	• at AC-2 at AC-3e maximum	300 1/h
at DC-1 maximum at DC-3 maximum at DC-5 maximum at DC-3 maxim	at AC-4 maximum	130 1/h
at DC-3 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  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  operating range factor control supply voltage rated value of magnet coil at DC	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  145 A  Control circuit/ Control  type of voltage  type of voltage of the control supply voltage  control supply voltage at DC      rated value  operating range factor control supply voltage rated value of magnet coil at DC	• at DC-1 maximum	400 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 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	• 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 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	• at DC-5 maximum	350 1/h
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  DC  type of voltage of the control supply voltage  control supply voltage at DC      rated value  operating range factor control supply voltage rated value of magnet coil at DC  145 A  DC  24 V	Ratings for railway applications	
up to 70 °C according to IEC 60077 rated value  145 A  Control circuit/ Control  type of voltage  type of voltage  type of voltage of the control supply voltage  control supply voltage at DC  rated value  operating range factor control supply voltage rated value of magnet coil at DC  145 A  DC  24 V	thermal current (Ith) up to 690 V	
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	<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  operating range factor control supply voltage rated value of magnet coil at DC	<ul> <li>up to 70 °C according to IEC 60077 rated value</li> </ul>	145 A
type of voltage of the control supply voltage  control supply voltage at DC  • rated value  operating range factor control supply voltage rated value of magnet coil at DC	Control circuit/ Control	
type of voltage of the control supply voltage  control supply voltage at DC  • rated value  operating range factor control supply voltage rated value of magnet coil at DC		DC
control supply voltage at DC  ● rated value  operating range factor control supply voltage rated value of magnet coil at DC  24 V		DC
● rated value 24 V  operating range factor control supply voltage rated value of magnet coil at DC	control supply voltage at DC	
magnet coil at DC		24 V
• 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	C A
• 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 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	6 A
<ul> <li>at 48 V rated value</li> </ul>	2 A
<ul> <li>at 60 V rated value</li> </ul>	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	180 A
at 600 V rated value	192 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 230 V rated value	230 hp
• for 3-phase AC motor	
— 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 400/400 V rated value	200 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
	A000 / Q000
Short-circuit protection	No
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)
<ul> <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
• for short circuit protection of the auxilians quitab required	kA)
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	

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	10 11111
type of electrical connection	
• for main current circuit	screw-type terminals
for auxiliary and control circuit	spring-loaded 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	2x (25 120 mm²)
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.25 2.5 mm²)
— solid or stranded	2x (0,25 2,5 mm²)
finely stranded with core end processing	2x (0.25 1.5 mm²)
finely stranded without core end processing	2x (0.25 2.5 mm²)
for AWG cables for auxiliary contacts	2x (24 14)
AWG number as coded connectable conductor cross	()
section	
for auxiliary contacts	24 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
Certificates/ approvals	
General Product Approval	





Confirmation



<u>KC</u>



EMC

Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

other Railway

MiscellaneousConfirmationMiscellaneousVibration and ShockType Test Certificates Certificates Test ReportSpecial Test Certificates Test Report

## 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=3RT1056-2XB46-0LA2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1056-2XB46-0LA2

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-2XB46-0LA2

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

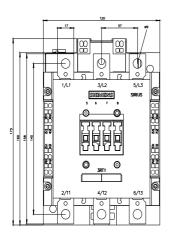
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1056-2XB46-0LA2&lang=en

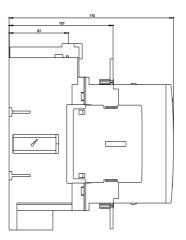
Characteristic: Tripping characteristics, I2t, Let-through current

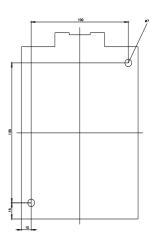
https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-2XB46-0LA2/char

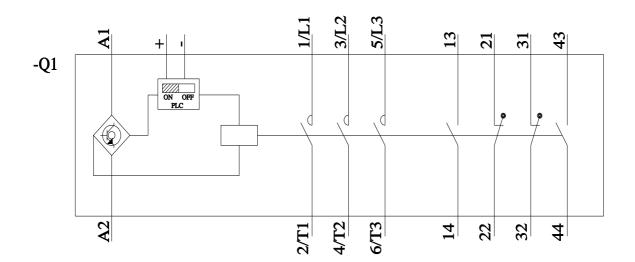
Further characteristics (e.g. electrical endurance, switching frequency)

 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RT1056-2XB46-0LA2\&objecttype=14\&gridview=view1}$ 









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11/4/2022

3RT10562 Page 8/8	2XB460LA2