# **SIEMENS**

## **Data sheet**

## 3RT2046-3XJ40-0LA2



traction contactor, AC-3e/AC-3, 95 A, 45 kW / 400 V, 3-pole, 72 V DC, 0.7-1.25\* Us, electronic drive, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal

product brand name product designation design of the product product type designation SIRIUS Power contactor With extended operating range

product type designation	3RT2
General technical data	
size of contactor	S3
product extension	
<ul> <li>function module for communication</li> </ul>	No
<ul><li>auxiliary switch</li></ul>	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	19.8 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	6.6 W
<ul> <li>without load current share typical</li> </ul>	1 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>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at DC	6.7 g / 5 ms, 4g / 10 ms
shock resistance with sine pulse	
• at DC	10.6 g / 5 ms, 6.3 g / 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)	03/01/2017
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul><li>during operation</li></ul>	-40 +70 °C
<ul> <li>during storage</li> </ul>	-55 +80 °C

maximum

relative humidity minimum

relative humidity at 55 °C according to IEC 60068-2-30

10 %

95 %

Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	1 000 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	1 000 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C	130 A
rated value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	130 A
— up to 690 V at ambient temperature 60 °C	110 A
rated value	TIVA
at AC-2 at 400 V rated value	95 A
• at AC-3	
— at 400 V rated value	95 A
— at 500 V rated value	95 A
— at 690 V rated value	78 A
— at 1000 V rated value	30 A
• at AC-3e	
— at 400 V rated value	95 A
— at 500 V rated value	95 A
— at 690 V rated value	78 A
— at 1000 V rated value	30 A
<ul><li>at AC-4 at 400 V rated value</li></ul>	80 A
minimum cross-section in main circuit	
<ul> <li>at maximum AC-1 rated value</li> </ul>	50 mm <sup>2</sup>
<ul> <li>at maximum Ith rated value</li> </ul>	50 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	42 A
<ul> <li>at 690 V rated value</li> </ul>	30 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	100 A
— at 110 V rated value	9 A
— at 220 V rated value	2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.4 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	10 A
— at 440 V rated value	1.8 A
— at 600 V rated value	1 A
with 3 current paths in series at DC-1	
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	80 A
— at 440 V rated value	4.5 A
— at 600 V rated value	2.6 A
• at 1 current path at DC-3 at DC-5	40.4
— at 24 V rated value	40 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.15 A
— at 600 V rated value	0.06 A
with 2 current paths in series at DC-3 at DC-5     at 24 V rated value.	100 A
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	7 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.16 A

• with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	35 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.35 A
operating power	
at AC-2 at 400 V rated value	45 kW
• at AC-3	20.114
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
— at 1000 V rated value	37 kW
• at AC-3e	00.1114
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
— at 1000 V rated value	37 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	22 kW
at 400 V rated value     at 690 V rated value	27.4 kW
short-time withstand current in cold operating state	
up to 40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	1 725 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	1 297 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	946 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	610 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	486 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-2 at AC-3e maximum	350 1/h
<ul><li>at AC-2 at AC-3e maximum</li><li>at AC-4 maximum</li></ul>	350 1/h 250 1/h
• at AC-2 at AC-3e maximum	
<ul> <li>at AC-2 at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>Ratings for railway applications</li> <li>thermal current (Ith) up to 690 V</li> </ul>	
<ul> <li>at AC-2 at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>Ratings for railway applications</li> <li>thermal current (Ith) up to 690 V</li> <li>up to 40 °C according to IEC 60077 rated value</li> </ul>	
<ul> <li>at AC-2 at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>Ratings for railway applications</li> <li>thermal current (Ith) up to 690 V</li> <li>up to 40 °C according to IEC 60077 rated value</li> <li>up to 70 °C according to IEC 60077 rated value</li> </ul>	250 1/h
<ul> <li>at AC-2 at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>Ratings for railway applications</li> <li>thermal current (Ith) up to 690 V</li> <li>up to 40 °C according to IEC 60077 rated value</li> </ul>	250 1/h 130 A
<ul> <li>at AC-2 at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>Ratings for railway applications</li> <li>thermal current (Ith) up to 690 V</li> <li>up to 40 °C according to IEC 60077 rated value</li> <li>up to 70 °C according to IEC 60077 rated value</li> </ul>	250 1/h 130 A
at AC-2 at AC-3e maximum at AC-4 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	250 1/h  130 A  95 A
at AC-2 at AC-3e maximum at AC-4 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	250 1/h  130 A 95 A  DC
at AC-2 at AC-3e maximum at AC-4 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	250 1/h  130 A 95 A  DC
at AC-2 at AC-3e maximum at AC-4 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 operating range factor control supply voltage rated	250 1/h  130 A 95 A  DC DC
at AC-2 at AC-3e maximum at AC-4 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  operating range factor control supply voltage rated value of magnet coil at DC	250 1/h  130 A 95 A  DC DC T2 V
at AC-2 at AC-3e maximum at AC-4 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  operating range factor control supply voltage rated value of magnet coil at DC  initial value	250 1/h  130 A 95 A  DC DC T2 V  0.7
at AC-2 at AC-3e maximum at AC-4 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 operating range factor control supply voltage rated value of magnet coil at DC  initial value full-scale value	250 1/h  130 A 95 A  DC DC T2 V  0.7 1.25
at AC-2 at AC-3e maximum at AC-4 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 operating range factor control supply voltage rated value of magnet coil at DC  initial value full-scale value design of the surge suppressor	250 1/h  130 A 95 A  DC DC T2 V  0.7 1.25 with varistor
at AC-2 at AC-3e maximum at AC-4 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 operating range factor control supply voltage rated value of magnet coil at DC  initial value full-scale value design of the surge suppressor duration of locked-rotor current	250 1/h  130 A 95 A  DC DC T2 V  0.7 1.25 with varistor 150 ms
at AC-2 at AC-3e maximum at AC-4 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 operating range factor control supply voltage rated value of magnet coil at DC  initial value full-scale value design of the surge suppressor duration of locked-rotor current closing power of magnet coil at DC	250 1/h  130 A 95 A  DC DC 72 V  0.7 1.25 with varistor 150 ms 64 W
at AC-2 at AC-3e maximum at AC-4 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 operating range factor control supply voltage rated value of magnet coil at DC  initial value full-scale value design of the surge suppressor duration of locked-rotor current closing power of magnet coil at DC holding power of magnet coil at DC	250 1/h  130 A 95 A  DC DC T2 V  0.7 1.25 with varistor 150 ms
at AC-2 at AC-3e maximum at AC-4 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 operating range factor control supply voltage rated value of magnet coil at DC  initial value  full-scale value design of the surge suppressor duration of locked-rotor current closing power of magnet coil at DC holding power of magnet coil at DC closing delay	250 1/h  130 A 95 A  DC DC T2 V  0.7 1.25 with varistor 150 ms 64 W 1 W
at AC-2 at AC-3e maximum at AC-4 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 operating range factor control supply voltage rated value of magnet coil at DC  initial value  full-scale value design of the surge suppressor duration of locked-rotor current closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC	250 1/h  130 A 95 A  DC DC 72 V  0.7 1.25 with varistor 150 ms 64 W
at AC-2 at AC-3e maximum at AC-4 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 operating range factor control supply voltage rated value of magnet coil at DC  initial value  full-scale value design of the surge suppressor duration of locked-rotor current closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay	250 1/h  130 A 95 A  DC DC T2 V  0.7 1.25 with varistor 150 ms 64 W 1 W  50 70 ms
at AC-2 at AC-3e maximum at AC-4 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 operating range factor control supply voltage rated value of magnet coil at DC  initial value  full-scale value design of the surge suppressor duration of locked-rotor current closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC opening delay at DC	250 1/h  130 A 95 A  DC DC T2 V  0.7 1.25 with varistor 150 ms 64 W 1 W  50 70 ms 38 57 ms
at AC-2 at AC-3e maximum at AC-4 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 operating range factor control supply voltage rated value of magnet coil at DC  initial value  full-scale value design of the surge suppressor duration of locked-rotor current closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC arcing time	250 1/h  130 A 95 A  DC DC T2 V  0.7 1.25 with varistor 150 ms 64 W 1 W  50 70 ms
at AC-2 at AC-3e maximum at AC-4 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 operating range factor control supply voltage rated value of magnet coil at DC  initial value  full-scale value design of the surge suppressor duration of locked-rotor current closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC arcing time control version of the switch operating mechanism	250 1/h  130 A 95 A  DC DC T2 V  0.7 1.25 with varistor 150 ms 64 W 1 W  50 70 ms  38 57 ms 10 20 ms
at AC-2 at AC-3e maximum at AC-4 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 operating range factor control supply voltage rated value of magnet coil at DC  initial value  full-scale value design of the surge suppressor duration of locked-rotor current closing power of magnet coil at DC holding power of magnet coil at DC closing delay  at DC opening delay  at DC arcing time control version of the switch operating mechanism Auxiliary circuit	250 1/h  130 A 95 A  DC DC 72 V  0.7 1.25 with varistor 150 ms 64 W 1 W  50 70 ms 38 57 ms 10 20 ms Standard A1 - A2
at AC-2 at AC-3e maximum at AC-4 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 operating range factor control supply voltage rated value of magnet coil at DC  initial value  full-scale value design of the surge suppressor duration of locked-rotor current closing power of magnet coil at DC holding power of magnet coil at DC closing delay  at DC opening delay  at DC arcing time control version of the switch operating mechanism  Auxiliary circuit number of NC contacts for auxiliary contacts	250 1/h  130 A 95 A  DC DC 72 V  0.7 1.25 with varistor 150 ms 64 W 1 W  50 70 ms 38 57 ms 10 20 ms Standard A1 - A2
<ul> <li>at AC-2 at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>Ratings for railway applications</li> <li>thermal current (Ith) up to 690 V</li> <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>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>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>design of the surge suppressor</li> <li>duration of locked-rotor current</li> <li>closing power of magnet coil at DC</li> <li>holding power of magnet coil at DC</li> <li>closing delay</li> <li>at DC</li> <li>opening delay</li> <li>at DC</li> <li>arcing time</li> <li>control version of the switch operating mechanism</li> <li>Auxiliary circuit</li> <li>number of NC contacts for auxiliary contacts</li> <li>instantaneous contact</li> </ul>	130 A 95 A  DC DC T2 V  0.7 1.25 with varistor 150 ms 64 W 1 W  50 70 ms 38 57 ms 10 20 ms Standard A1 - A2
at AC-2 at AC-3e maximum at AC-4 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 operating range factor control supply voltage rated value of magnet coil at DC  initial value  full-scale value design of the surge suppressor duration of locked-rotor current closing power of magnet coil at DC holding power of magnet coil at DC closing delay  at DC opening delay  at DC arcing time control version of the switch operating mechanism  Auxiliary circuit number of NC contacts for auxiliary contacts	250 1/h  130 A 95 A  DC DC 72 V  0.7 1.25 with varistor 150 ms 64 W 1 W  50 70 ms 38 57 ms 10 20 ms Standard A1 - A2

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
at 690 V rated value	1 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	40.4
at 24 V rated value	10 A
at 48 V rated value	2 A
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul>	2 A 1 A
at 110 V rated value     at 125 V rated value	0.9 A
at 125 V rated value     at 220 V rated value	0.9 A 0.3 A
at 220 V rated value     at 600 V rated value	0.3 A 0.1 A
	V.I A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	00.4
at 480 V rated value     at 600 V rated value	96 A
at 600 V rated value  violed machanical performance [hp]	77 A
yielded mechanical performance [hp]	
• for single-phase AC motor	10 ha
— at 110/120 V rated value — at 230 V rated value	10 hp
at 230 V rated value      for 3-phase AC motor	20 hp
— at 200/208 V rated value	30 hp
— at 220/230 V rated value	30 hp
— at 460/480 V rated value	75 hp
— at 575/600 V rated value	75 hp
contact rating of auxiliary contacts according to UL	A600 / P600
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.	aC: 250 A (600 V 100 kA) aM: 160 A (600 V 100 kA) DC00: 200 A
— with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 160 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted
	forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
	60715
side-by-side mounting	Yes
height	140 mm
width	70 mm
depth	152 mm
required spacing	
with side-by-side mounting	20 mm
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
<ul><li>for grounded parts</li><li>forwards</li></ul>	20 mm
— torwards — upwards	20 mm 10 mm
— upwaius	IV IIIIII

— 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 type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit spring-loaded terminals · at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts • finely stranded with core end processing 2x (2.5 ... 35 mm<sup>2</sup>), 1x (2.5 ... 50 mm<sup>2</sup>) type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded 2x (0.5 ... 2.5 mm<sup>2</sup>) - finely stranded with core end processing 2x (0.5 ... 1.5 mm<sup>2</sup>) - finely stranded without core end processing 2x (0.5 ... 2.5 mm²) at AWG cables for auxiliary contacts 2x (20 ... 16) AWG number as coded connectable conductor cross section • for main contacts 10 ... 2 20 ... 14 · for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 Yes • positively driven operation according to IEC 60947-No B10 value with high demand rate according to SN 31920 1 000 000 proportion of dangerous failures 40 % • with low demand rate according to SN 31920 73 % • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 100 FIT T1 value for proof test interval or service life according to 20 a IEC 61508 protection class IP on the front according to IEC IP20 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front Communication/ Protocol product function bus communication No

#### Certificates/ approvals

#### **General Product Approval**



Confirmation





**KC** 



**Functional EMC** Safety/Safety of **Declaration of Conformity Test Certificates** Machinery



Type Examination **Certificate** 





Special Test Certific-

Type Test Certificates/Test Report

Marine / Shipping other













### Railway

<u>Vibration and Shock</u> <u>Special Test Certificate</u> <u>Type Test Certificates/Test Report</u>

#### Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2046-3XJ40-0LA2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2046-3XJ40-0LA2

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-3XJ40-0LA2

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

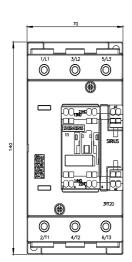
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2046-3XJ40-0LA2&lang=en

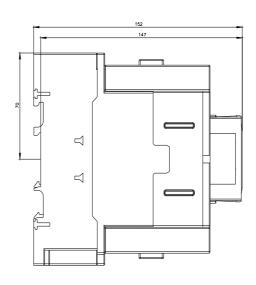
Characteristic: Tripping characteristics, I2t, Let-through current

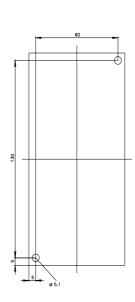
https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-3XJ40-0LA2/char

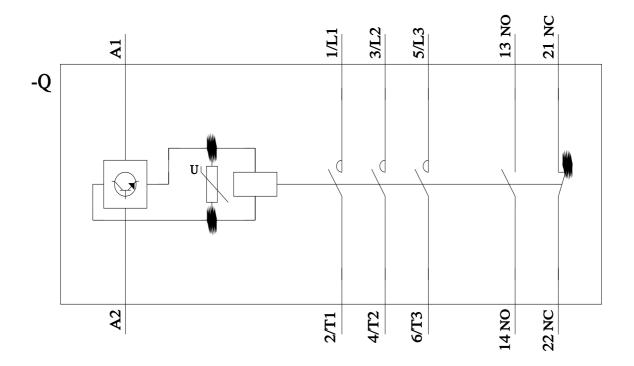
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2046-3XJ40-0LA2&objecttype=14&gridview=view1









last modified: 11/21/2022 🖸