## SIEMENS

## Data sheet

## 3RT2046-1AP00



power contactor, AC-3e/AC-3, 95 A, 45 kW / 400 V, 3-pole, 230 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3  $\,$ 

449 649			
product brand name	SIRIUS		
product designation	Power contactor		
product type designation	3RT2		
General technical data			
size of contactor	S3		
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>	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>	7.3 W		
type of calculation of power loss depending on pole	quadratic		
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 protective separation between coil and main contacts according to EN 60947-1	690 V		
shock resistance at rectangular impulse			
• at AC	10.3g / 5 ms, 6,.g / 10 ms		
shock resistance with sine pulse			
• at AC	16.3g / 5 ms, 10.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		
Weight	1.719 kg		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
during operation	-25 +60 °C		
during storage	-55 +80 °C		
relative humidity minimum	10 %		
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %		

Environmental footprint			
Environmental Product Declaration(EPD)	Yes		
Global Warming Potential [CO2 eq] total	405 kg		
Global Warming Potential [CO2 eq] during manufacturing	7.66 kg		
Global Warming Potential [CO2 eq] during operation	399 kg		
Global Warming Potential [CO2 eq] after end of life	-1.19 kg		
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		
• at AC-3e rated value maximum	1 000 V		
operational current			
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> <li>at AC-1</li> </ul>	130 A		
up to 690 V at ambient temperature 40 °C rated value	130 A		
— up to 690 V at ambient temperature 60 °C rated value	110 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		
• at AC-4 at 400 V rated value	80 A		
• at AC-5a up to 690 V rated value	114 A		
<ul><li>at AC-5b up to 400 V rated value</li><li>at AC-6a</li></ul>	95 A		
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	84.4 A		
— up to 400 V for current peak value n=20 rated value	84.4 A		
— up to 500 V for current peak value n=20 rated value	84.4 A		
<ul> <li>— up to 690 V for current peak value n=20 rated value</li> <li>at AC-6a</li> </ul>	58 A		
— up to 230 V for current peak value n=30 rated value	56.3 A		
— up to 400 V for current peak value n=30 rated value	56.3 A		
— up to 500 V for current peak value n=30 rated value	56.3 A		
— up to 690 V for current peak value n=30 rated value	56.3 A		
minimum cross-section in main circuit at maximum AC-1 rated value	50 mm <sup>2</sup>		
operational current for approx. 200000 operating cycles at AC-4			
at 400 V rated value	42 A		
at 690 V rated value	30 A		
operational current			
at 1 current path at DC-1	100.4		
— at 24 V rated value — at 60 V rated value	100 A 60 A		
— at 100 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		
with 2 current paths in series at DC-1			
— at 24 V rated value	100 A		
— at 60 V rated value	100 A		
— at 110 V rated value	100 A		

— at 440 V rated value	1.8 A
— at 600 V rated value	1.6 A
with 3 current paths in series at DC-1	
— at 24 V rated value	100 A
— at 60 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	
— at 24 V rated value	40 A
— at 60 V rated value	6 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
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	100 A
— at 60 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
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	100 A
— at 60 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	
— 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	
— 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 operating power for approx. 200000 operating cycles at AC-	37 kW
4	
• at 400 V rated value	22 kW
• at 690 V rated value	27.4 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	33 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	58 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	73 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	69 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	22.4 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	39 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	48.7 kVA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	67.3 kVA
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 AC	5 000 1/h		
operating frequency			
• at AC-1 maximum	900 1/h		
• at AC-2 maximum	350 1/h		
• at AC-3 maximum	850 1/h		
• at AC-3e maximum	850 1/h		
• at AC-4 maximum	250 1/h		
Control circuit/ Control			
type of voltage of the control supply voltage	AC		
control supply voltage at AC			
• at 50 Hz rated value	230 V		
operating range factor control supply voltage rated value of			
magnet coil at AC			
• at 50 Hz	0.8 1.1		
apparent pick-up power of magnet coil at AC			
• at 50 Hz	296 VA		
inductive power factor with closing power of the coil			
• at 50 Hz	0.61		
apparent holding power of magnet coil at AC			
• at 50 Hz	19 VA		
inductive power factor with the holding power of the coil			
• at 50 Hz	0.38		
closing delay			
• at AC	13 50 ms		
opening delay			
• at AC	10 21 ms		
arcing time	10 20 ms		
control version of the switch operating mechanism	Standard A1 - A2		
Auxiliary circuit	4		
number of NC contacts for auxiliary contacts instantaneous contact	1		
number of NO contacts for auxiliary contacts instantaneous	1		
contact			
operational current at AC-12 maximum	10 A		
operational current at AC-15	<b>A</b>		
at 230 V rated value	6 A		
at 400 V rated value	3 A		
<ul> <li>at 500 V rated value</li> </ul>	2 A		
- et COO ) / reted well	1.0		
at 690 V rated value	1A		
operational current at DC-12			
operational current at DC-12 • at 24 V rated value	10 A		
<ul> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> </ul>	10 A 6 A		
<ul> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> </ul>	10 A 6 A 6 A		
<ul> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul>	10 A 6 A 6 A 3 A		
operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value	10 A 6 A 6 A 3 A 2 A		
operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value	10 A 6 A 6 A 3 A 2 A 1 A		
operational current at DC-12 • at 24 V rated value • at 48 V rated value • 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	10 A 6 A 6 A 3 A 2 A		
operational current at DC-12         • at 24 V rated value         • at 48 V rated value         • at 60 V rated value         • at 110 V rated value         • at 125 V rated value         • at 600 V rated value         • at 600 V rated value         • at 600 V rated value	10 A 6 A 6 A 3 A 2 A 1 A 0.15 A		
operational current at DC-12         • at 24 V rated value         • at 48 V rated value         • 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         • at 220 V rated value         • at 24 V rated value	10 A 6 A 6 A 3 A 2 A 1 A 0.15 A		
operational current at DC-12         • at 24 V rated value         • at 48 V rated value         • 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         • at 220 V rated value         • at 600 V rated value         • at 220 V rated value         • at 400 V rated value         • at 24 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value	10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A		
operational current at DC-12         • at 24 V rated value         • at 48 V rated value         • 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         • at 220 V rated value         • at 48 V rated value         • at 48 V rated value         • at 600 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 60 V rated value	10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A		
operational current at DC-12         • at 24 V rated value         • at 48 V rated value         • 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         • at 48 V rated value         • at 220 V rated value         • at 48 V rated value         • at 600 V rated value         • at 48 V rated value         • at 48 V rated value         • at 60 V rated value         • at 410 V rated value         • at 110 V rated value	10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A		
operational current at DC-12         • at 24 V rated value         • at 48 V rated value         • 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         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 60 V rated value         • at 110 V rated value         • at 110 V rated value         • at 125 V rated value	10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A		
operational current at DC-12         • at 24 V rated value         • at 48 V rated value         • 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         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 60 V rated value         • at 110 V rated value         • at 125 V rated value         • at 220 V rated value         • at 24 V rated value         • at 20 V rated value         • at 125 V rated value         • at 220 V rated value         • at 220 V rated value	10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A		
operational current at DC-12         • at 24 V rated value         • at 48 V rated value         • 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         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 60 V rated value         • at 110 V rated value         • at 110 V rated value         • at 125 V rated value	10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 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	77 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	10 hp
— at 230 V rated value	20 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— 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	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
— 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)
— with type of assignment 2 required	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 side-by-side mounting	Yes
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	140 mm
width	70 mm
depth	152 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	20 mm
— upwards	10 mm
at the side	
— at the side	10 mm
— at the side — downwards	10 mm 10 mm
— downwards	
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> </ul>	10 mm
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> </ul>	10 mm 20 mm 10 mm
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> </ul>	10 mm 20 mm 10 mm 10 mm
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul>	10 mm 20 mm 10 mm
	10 mm 20 mm 10 mm 10 mm
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection	10 mm 20 mm 10 mm 10 mm 10 mm
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> </ul>	10 mm 20 mm 10 mm 10 mm 10 mm screw-type terminals
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul>	10 mm 20 mm 10 mm 10 mm 10 mm screw-type terminals screw-type terminals
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> </ul>	10 mm 20 mm 10 mm 10 mm 10 mm screw-type terminals screw-type terminals Screw-type terminals
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul>	10 mm 20 mm 10 mm 10 mm 10 mm screw-type terminals screw-type terminals
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul> type of connectable conductor cross-sections	10 mm 20 mm 10 mm 10 mm 10 mm screw-type terminals screw-type terminals Screw-type terminals
<ul> <li>downwards</li> <li>for live parts         <ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>Connections/ Terminals</li> <li>type of electrical connection         <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for main contacts</li> </ul> </li> </ul>	10 mm 20 mm 10 mm 10 mm 10 mm screw-type terminals screw-type terminals Screw-type terminals Screw-type terminals
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>a the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul> type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>for main contacts</li> <li>for main contacts</li> </ul>	10 mm 20 mm 10 mm 10 mm 10 mm screw-type terminals screw-type terminals Screw-type terminals Screw-type terminals Screw-type terminals
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul> type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>for main contacts</li> <li>for auxil contacts</li> <li>for main contacts</li> <li>for AWG cables for main contacts</li> </ul>	10 mm 20 mm 10 mm 10 mm 10 mm screw-type terminals screw-type terminals Screw-type terminals Screw-type terminals
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul> type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>for AWG cables for main contacts</li> </ul> connectable conductor cross-section for main contacts	10 mm 20 mm 10 mm 10 mm 10 mm 10 mm screw-type terminals screw-type terminals Screw-type terminals Screw-type terminals Screw-type terminals Screw-type terminals
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul> type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> <li>solid</li> </ul>	10 mm 20 mm 10 mm 10 mm 10 mm 10 mm screw-type terminals screw-type terminals Screw-type terminals Screw-type terminals 2x (2.5 35 mm <sup>2</sup> ), 1x (2.5 50 mm <sup>2</sup> ) 2x (10 1/0), 1x (10 2) 2.5 16 mm <sup>2</sup>
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul> type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> <li>solid</li> <li>stranded</li> </ul>	10 mm 20 mm 10 mm 10 mm 10 mm 10 mm screw-type terminals screw-type terminals Screw-type terminals Screw-type terminals 2x (2.5 35 mm <sup>2</sup> ), 1x (2.5 50 mm <sup>2</sup> ) 2x (10 1/0), 1x (10 2) 2.5 16 mm <sup>2</sup> 6 70 mm <sup>2</sup>
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul> type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> <li>solid</li> </ul>	10 mm 20 mm 10 mm 10 mm 10 mm 10 mm screw-type terminals screw-type terminals Screw-type terminals Screw-type terminals 2x (2.5 35 mm <sup>2</sup> ), 1x (2.5 50 mm <sup>2</sup> ) 2x (10 1/0), 1x (10 2) 2.5 16 mm <sup>2</sup>

solid or stranded						
•	finely stranded with core end processing		0.5 2.5 mm <sup>2</sup>			
•••	onductor cross-sections	5				
<ul> <li>for auxiliary containing</li> </ul>				0.5		
— solid or stra			2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 .	<i>'</i>		
	ded with core end process	sing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 .	2.5 mm²)		
	for auxiliary contacts		2x (20 16), 2x (18 14)			
AWG number as code section	d connectable conducto	or cross				
<ul> <li>for main contacts</li> </ul>	3		10 2			
<ul> <li>for auxiliary containing</li> </ul>	acts		20 14			
Safety related data						
product function						
•	cording to IEC 60947-4-1		Yes			
	operation according to IE	C 60947-5-1	No			
<ul> <li>suitable for safety</li> </ul>			Yes			
suitability for use safety	-		Yes			
service life maximum			20 a			
test wear-related servi	ice life necessary		Yes			
proportion of dangero	-					
	rate according to SN 319	20	40 %			
	d rate according to SN 31		40 % 73 %			
-	emand rate according to		1 000 000			
	ow demand rate accord		100 FIT			
ISO 13849		_				
device type according	to ISO 13849-1		3			
overdimensioning according to ISO 13849-2 necessary		ecessary	Yes			
IEC 61508		, ,				
safety device type acc	cording to IEC 61508-2	_	Туре А			
Electrical Safety			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	the front according to I	EC 60529	IP20			
touch protection on the front according to IEC 60529			finger-safe, for vertical contact from the front			
Approvals Certificates						
General Product App	roval					
	~ ~	UK	<b>Confirmation</b>	ŝ	<u>KC</u>	
$(\mathbf{m})$	(E			(VL)		
	EG-Konf.	CA		$\mathbf{\nabla}$		
General Product Ap-	<b>F10</b> /					
proval	EMV	Test Certificates	5	Marine / Shipping		
	_					
гпг	A	Type Test Certif ates/Test Repo		( Same	£ &	
FAL	<u>/\@</u> \	ales/Test Repu	<u>ate</u>		Ψ₩	
LIIL	RCM			ABS	DNV	
Marine / Shipping				other	Railway	
Lloude	(And a state of the state of th	(Salar)		<b>Confirmation</b>	Special Test Certific-	
Register		(			ate	
LRS	PRS	RINA	RMRS			
2012	1.112		and the			
Dangerous goods	Environment					
241.901040 90043						
	2					



## 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=3RT2046-1AP00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2046-1AP00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1AP00

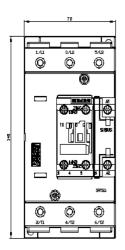
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

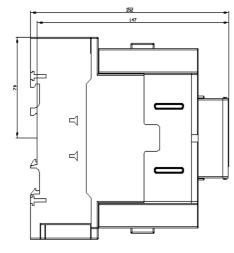
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2046-1AP00&lang=en

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

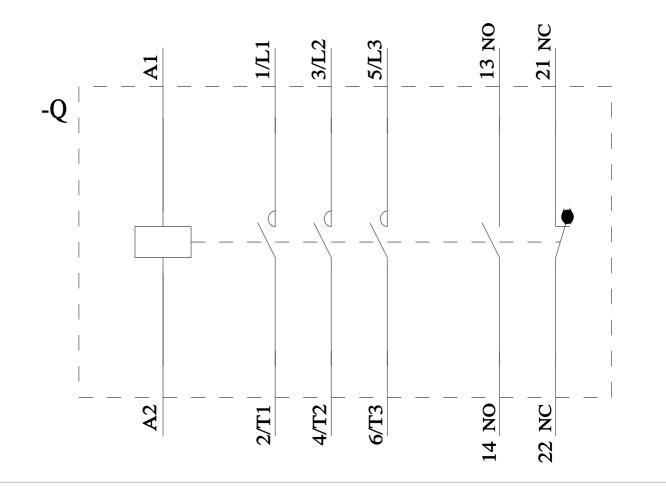
https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1AP00/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2046-1AP00&objecttype=14&gridview=view1









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