## SIEMENS

## Data sheet

## 3RT2023-1AC20



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 24 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

6/13				
product brand name	SIRIUS			
product designation	Power contactor			
product type designation	3RT2			
General technical data				
size of contactor	S0			
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>	0.6 W			
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.2 W			
<ul> <li>without load current share typical</li> </ul>	2 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>	690 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>	6 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	400 V			
shock resistance at rectangular impulse				
• at AC	7,5g / 5 ms, 4,7g / 10 ms			
shock resistance with sine pulse				
• at AC	11,8g / 5 ms, 7,4g / 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)	10/01/2009			
Weight	0.407 kg			
Ambient conditions				
installation altitude at height above sea level maximum	2 000 m			
ambient temperature				
during operation	-25 +60 °C			
<ul> <li>during storage</li> </ul>	-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	74.2 kg		
global warming potential [CO2 eq] during manufacturing	1.9 kg		
global warming potential [CO2 eq] during operation	72.4 kg		
global warming potential [CO2 eq] after end of life	-0.117 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>	690 V		
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V		
operational current			
• at AC-1 at 400 V at ambient temperature 40 °C rated value	40 A		
• at AC-1			
— up to 690 V at ambient temperature 40 °C rated value	40 A		
— up to 690 V at ambient temperature 60 °C rated value	35 A		
• at AC-3	0.4		
- at 400 V rated value	9 A 9 A		
— at 500 V rated value			
<ul> <li>— at 690 V rated value</li> <li>• at AC-3e</li> </ul>	9 A		
• at 400 V rated value	9 A		
— at 500 V rated value	9 A		
— at 690 V rated value	9 A		
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	8.5 A		
• at AC-5a up to 690 V rated value	35.2 A		
• at AC-5b up to 400 V rated value	7.4 A		
• at AC-6a			
— up to 230 V for current peak value n=20 rated value	11.4 A		
— up to 400 V for current peak value n=20 rated value	11.4 A		
— up to 500 V for current peak value n=20 rated value	9.1 A		
— up to 690 V for current peak value n=20 rated value	9 A		
● at AC-6a			
— up to 230 V for current peak value n=30 rated value	7.6 A		
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	7.6 A		
<ul> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>	6.1 A		
— up to 690 V for current peak value n=30 rated value	6.1 A		
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm <sup>2</sup>		
operational current for approx. 200000 operating cycles at AC-4			
• at 400 V rated value	4.1 A		
at 690 V rated value	3.3 A		
operational current			
• at 1 current path at DC-1			
— at 24 V rated value	35 A		
- at 60 V rated value	20 A		
- at 110 V rated value	4.5 A		
- at 220 V rated value	1A		
— at 440 V rated value	0.4 A		
— at 600 V rated value	0.25 A		
<ul> <li>with 2 current paths in series at DC-1</li> <li>— at 24 V rated value</li> </ul>	35 A		
— at 24 V rated value — at 60 V rated value	35 A 35 A		
— at 110 V rated value	35 A		
— at 220 V rated value — at 440 V rated value	5 A 1 A		
— at 600 V rated value	0.8 A		

a with 2 autment notion in carico at DC 1					
with 3 current paths in series at DC-1     — at 24 V rated value	35 A				
— at 60 V rated value					
— at 100 V rated value	35 A				
— at 220 V rated value	35 A				
— at 440 V rated value	35 A				
— at 600 V rated value	2.9 A 1.4 A				
• at 1 current path at DC-3 at DC-5	1.4 A				
- at 24 V rated value	20.4				
— at 60 V rated value	20 A				
— at 220 V rated value	5 A 1 A				
— at 440 V rated value	1 A 0.09 A				
— at 600 V rated value	0.06 A				
• with 2 current paths in series at DC-3 at DC-5	0.00 A				
— at 24 V rated value	35 A				
— at 60 V rated value	35 A				
— at 110 V rated value	15 A				
— at 220 V rated value	3A				
— at 440 V rated value	0.27 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	35 A				
— at 60 V rated value	35 A				
— at 110 V rated value	35 A				
— at 220 V rated value	10 A				
— at 440 V rated value	0.6 A				
— at 600 V rated value	0.6 A				
operating power					
• at AC-3					
— at 230 V rated value	2.2 kW				
— at 400 V rated value	4 kW				
— at 500 V rated value	4 kW				
— at 690 V rated value	7.5 kW				
• at AC-3e					
— at 230 V rated value	2.2 kW				
— at 400 V rated value	4 kW				
— at 500 V rated value	4 kW				
— at 690 V rated value	7.5 kW				
operating power for approx. 200000 operating cycles at AC- 4					
• at 400 V rated value	2 kW				
• at 690 V rated value	2.5 kW				
operating apparent power at AC-6a					
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	4.5 kVA				
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	7.8 kVA				
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	7.8 kVA				
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	10.7 kVA				
operating apparent power at AC-6a					
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	3 kVA				
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	5.2 kVA				
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	5.2 kVA				
up to 690 V for current peak value n=30 rated value	7.2 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>	170 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	170 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	140 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	104 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	88 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	1 000 1/h				
• at AC-2 maximum	1 000 1/h				
• at AC-3 maximum	1 000 1/h				
• at AC-3e maximum	1 000 1/h				
• at AC-4 maximum	300 1/h				
Control circuit/ Control					
type of voltage of the control supply voltage	AC				
control supply voltage at AC					
• at 50 Hz rated value	24 V				
• at 60 Hz rated value	24 V				
operating range factor control supply voltage rated value of					
magnet coil at AC					
● at 50 Hz	0.8 1.1				
• at 60 Hz	0.85 1.1				
apparent pick-up power of magnet coil at AC					
• at 50 Hz	68 VA				
• at 60 Hz	67 VA				
inductive power factor with closing power of the coil					
• at 50 Hz	0.72				
• at 60 Hz	0.74				
apparent holding power of magnet coil at AC					
● at 50 Hz	7.9 VA				
• at 60 Hz	6.5 VA				
inductive power factor with the holding power of the coil					
● at 50 Hz	0.25				
• at 60 Hz	0.28				
closing delay					
• at AC	8 40 ms				
opening delay					
• at AC	4 16 ms				
arcing time	10 10 ms				
control version of the switch operating mechanism	Standard A1 - A2				
control version of the switch operating mechanism Auxiliary circuit	Standard A1 - A2				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact	1				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous					
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous	1				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	1				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum	1				
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15	1 1 10 A				
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value	1 1 10 A 10 A 3 A 2 A				
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value	1 1 10 A 10 A 3 A				
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 690 V rated value	1 1 10 A 10 A 3 A 2 A				
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value	1 1 10 A 10 A 3 A 2 A				
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 690 V rated value	1 1 10 A 10 A 3 A 2 A 1 A				
Auxiliary circuit          number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 400 V rated value         • at 400 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A				
Auxiliary circuit          number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value	1 1 10 A 10 A 2 A 1 A 10 A 6 A				
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 44 V rated value         • at 24 V rated value         • at 48 V rated value         • at 460 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 40 V rated value • at 410 V rated value • at 110 V rated value • at 125 V rated value	1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A				
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 48 V rated value         • at 400 V rated value         • at 24 V rated value         • at 48 V rated value         • at 110 V rated value         • at 125 V rated value         • at 220 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A				
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 48 V rated value         • at 60 V rated value         • at 24 V rated value         • at 20 V rated value         • at 110 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 0.15 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> <li>at 48 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 24 V rated value</li> <li>at 20 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> </ul>	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A				
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 60 V rated value         • at 400 V rated value         • at 60 V rated value         • at 24 V rated value         • at 10 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 600 V rated value         • at 600 V rated value         • at 600 V rated value         • at 24 V rated value         • at 600 V rated value         • at 48 V rated value         • at 400 V rated value         • at 400 V rated value         • at 400 V rated value         • at 60 V rated value <t< td=""><td>1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10</td></t<>	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10				
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 690 V rated value         • at 60 V rated value         • at 60 V rated value         • at 10 V rated value         • at 10 V rated value         • at 220 V rated value         • at 48 V rated value         • at 60 V rated value         • at 60 V rated value         • at 110 V rated value         • at 220 V rated value         • at 48 V rated value         • at 24 V rated value         • at 600 V rated value         • at 600 V rated value         • at 600 V rated value         • at 24 V rated value         • at 48 V rated value         • at 100 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 1				
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 690 V rated value         • at 48 V rated value         • at 60 V rated value         • at 24 V rated value         • at 10 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 10 V rated value	1         1         10 A         3 A         2 A         1 A         10 A         6 A         6 A         6 A         3 A         2 A         1 A         10 A         6 A         6 A         6 A         10 A         6 A         10 A         2 A         1 A         0 15 A         10 A         2 A         1 A         0 3 A				

UL/CSA ratings					
full-load current (FLA) for 3-phase AC motor					
at 480 V rated value	7.6 A				
at 600 V rated value	9A				
yielded mechanical performance [hp]					
• for single-phase AC motor					
— at 110/120 V rated value	1 hp				
— at 230 V rated value	1 hp				
• for 3-phase AC motor					
— at 200/208 V rated value	2 hp				
— at 220/230 V rated value	3 hp				
— at 460/480 V rated value	5 hp				
— at 575/600 V rated value	5 np 7.5 hp				
contact rating of auxiliary contacts according to UL	A600 / P600				
Short-circuit protection					
design of the miniature circuit breaker for short-circuit protection	C characteristic: 10 A; 0.4 kA				
of the auxiliary circuit up to 230 V					
design of the fuse link					
<ul> <li>for short-circuit protection of the main circuit</li> </ul>					
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)				
- with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)				
<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 $\pm 1, 22.5^{\circ}$ on vortical mounting surface				
featuring method aids by aids may sting	backward by +/- 22.5° on vertical mounting surface Yes				
fastening method side-by-side mounting					
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 85 mm				
height	45 mm				
depth	45 mm 97 mm				
required spacing	97 mm				
with side-by-side mounting					
- forwards	10 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	0 mm				
	0 11111				
<ul> <li>for grounded parts</li> <li>forwards</li> </ul>	10 mm				
	10 mm				
— upwards — at the side	6 mm				
— downwards					
	10 mm				
<ul> <li>for live parts</li> <li>forwards</li> </ul>	10 mm				
— rorwards — upwards	10 mm				
— upwards — downwards	10 mm				
— downwards — at the side	10 mm 6 mm				
Connections/ Terminals					
type of electrical connection					
for main current circuit	screw-type terminals				
for auxiliary and control circuit	screw-type terminals screw-type terminals				
at contactor for auxiliary contacts	Screw-type terminals				
of magnet coil	Screw-type terminals				
type of connectable conductor cross-sections					
for main contacts					
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)				
— solid — solid or stranded	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )				
<ul> <li>— finely stranded with core end processing</li> </ul>	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²				
for AWG cables for main contacts	2x (16 12), 2x (14 8)				
connectable conductor cross-section for main contacts					
solid	1 10 mm²				
stranded	1 10 mm²				

<ul> <li>finely stranded with c</li> </ul>	ore end processing		1 10	mm <sup>2</sup>			
connectable conductor cr		iliary contacts	1 10				
<ul> <li>solid or stranded</li> </ul>			0.5 2	2.5 mm²			
<ul> <li>finely stranded with c</li> </ul>	ore end processing			2.5 mm²			
type of connectable cond		5	0.0 2				
<ul> <li>for auxiliary contacts</li> </ul>		-					
— solid or strande	d		2x (0.5	1.5 mm²) 2x (0.75	2.5 mm²)		
	with core end process	sina	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )				
<ul> <li>for AWG cables for a</li> </ul>				16), 2x (18 14)			
AWG number as coded co section		or cross					
<ul> <li>for main contacts</li> </ul>			16 8				
<ul> <li>for auxiliary contacts</li> </ul>			20 14				
Safety related data							
product function							
<ul> <li>mirror contact accord</li> </ul>	ling to IEC 60947-4-1		Yes				
<ul> <li>positively driven oper</li> </ul>	ation according to IE	C 60947-5-1	No				
<ul> <li>suitable for safety fur</li> </ul>	0		Yes				
suitability for use safety-rela			Yes				
service life maximum	<u> </u>		20 a				
test wear-related service I	ife necessarv		Yes				
proportion of dangerous f							
with low demand rate		20	40 %				
<ul> <li>with high demand rat</li> </ul>	0		73 %				
B10 value with high dema			1 000 0	000			
failure rate [FIT] with low of 31920			100 FIT				
ISO 13849							
device type according to I	SO 13849-1		3				
overdimensioning accord	ing to ISO 13849-2 n	ecessary	Yes				
IEC 61508							
safety device type accord	ing to IEC 61508-2		Туре А				
Electrical Safety							
protection class IP on 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 Approva	l						
	CE EG-Konf.	UK CA		<u>Confirmation</u>		<u>KC</u>	
General Product Approval	MV	Test Certificate	es		Marine / Shipping		
EAC	RCM	<u>Special Test Ce</u> <u>ate</u>	ertific-	<u>Type Test Certific-</u> ates/Test Report	ABS	BUREAU VERITAS	
Marine / Shipping					other		
	Llovd's Register urs	() RINA		RMRS RMRS	<u>Miscellaneous</u>	<u>Confirmation</u>	
other R	ailway	Environment					



Special Test Certificate



Environmental Confirmations

## 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=3RT2023-1AC20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2023-1AC20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-1AC20

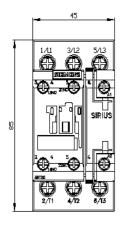
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

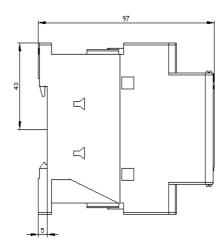
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2023-1AC20&lang=en

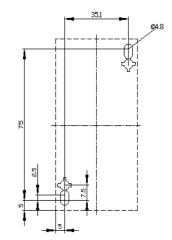
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-1AC20/char Further characteristics (e.g. electrical endurance, switching frequency)

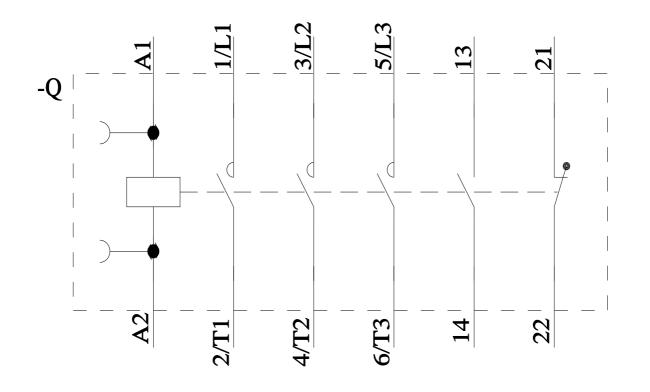
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2023-1AC20&objecttype=14&gridview=view1











last modified:

1/24/2025 🖸