## SIEMENS

## Data sheet

## 3RT2025-1CK64-3MA0



Power contactor, AC-3 17 A, 7.5 kW / 400 V 2 NO + 2 NC, 110 V AC, 50 Hz, 120 V, 60 Hz, with inserted varistor, 3-pole, Size S0, Screw terminal Captive auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
product extension	
function module for communication	No
auxiliary switch	No
power loss [W] for rated value of the current	
at AC in hot operating state	1.8 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.6 W
without load current share typical	7.9 W
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 safe isolation 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 (switching 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
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-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 %

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	
— at 400 V rated value	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A
• at AC-3e	
— at 400 V rated value	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A
• at AC-4 at 400 V rated value	15.5 A
• at AC-5a up to 690 V rated value	35.2 A
• at AC-5b up to 400 V rated value	14.1 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	11.4 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	11.4 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	11.4 A
<ul> <li>— up to 690 V for current peak value n=20 rated value</li> </ul>	11.3 A
<ul> <li>at AC-6a         <ul> <li>up to 230 V for current peak value n=30 rated</li> <li>value</li> </ul> </li> </ul>	7.6 A
value — up to 400 V for current peak value n=30 rated value	7.6 A
— up to 500 V for current peak value n=30 rated value	7.6 A
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	7.6 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	7.7 A
• at 690 V rated value	7.7 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— 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> </ul>	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1A
— at 600 V rated value	0.8 A
• with 3 current paths in series at DC-1	
• with 5 current paths in series at DC-1	

— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 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	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 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	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-2 at 400 V rated value	7.5 kW
● at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
• at AC-3e	
— at 230 V rated value	4 kW
— at 400 V rated value	4.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	3.5 kW
• at 690 V rated value	6 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	4.5 kVA
• up to 400 V for current peak value n=20 rated value	7.8 kVA
• up to 500 V for current peak value n=20 rated value	9.9 kVA
• up to 690 V for current peak value n=20 rated value	13.6 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	3 kVA
• up to 400 V for current peak value n=30 rated value	5.2 kVA
• up to 500 V for current peak value n=30 rated value	6.6 kVA
• up to 690 V for current peak value n=30 rated value	9.1 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>	225 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	225 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	180 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	115 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	96 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
and the an inclusion of Will	

	4.000.41
• 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	
<ul> <li>at 50 Hz rated value</li> </ul>	110 V
• at 60 Hz rated value	120 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
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
Auxiliary circuit	
	2
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	2
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts	
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	2
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	2
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	2 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	2 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	2 10 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	2 10 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	2 10 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 690 V rated value	2 10 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	2 10 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 24 V rated value         • at 48 V rated value	2 10 A 6 A 3 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 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 48 V rated value         • at 600 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 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 24 V rated value         • at 48 V rated value         • at 40 V rated value         • at 21 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 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 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 40 V rated value         • at 24 V rated value         • at 410 V rated value         • at 24 V rated value         • at 25 V rated value         • at 125 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 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 24 V rated value         • at 48 V rated value         • at 60 V rated value         • at 24 V rated value         • at 250 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 1 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 48 V rated value         • at 24 V rated value         • at 48 V rated value         • at 10 V rated value         • at 110 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 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 48 V rated value         • at 110 V rated value         • at 125 V rated value         • at 220 V rated value         • at 600 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 1 A 10 A 6 A 1 A 10 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 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 40 V rated value         • at 400 V rated value         • at 410 V rated value         • at 42 V rated value         • at 43 V rated value         • at 110 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value         • at 220 V rated value         • at 24 V rated value	2 10 A 6 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 6 A 6 A 6 A 6 A 6
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 48 V rated value         • at 10 V rated value         • at 125 V rated value         • at 220 V rated value         • at 125 V rated value         • at 220 V rated value         • at 48 V rated value         • at 420 V rated value         • at 44 V rated value         • at 48 V rated value         • at 48 V rated value	2 10 A 6 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 3 A 2 A 1 A 6 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 6 A 6 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7
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 690 V rated value         • at 690 V rated value         • at 48 V rated value         • at 48 V rated value         • at 48 V rated value         • at 220 V rated value         • at 110 V rated value         • at 220 V rated value         • at 48 V rated value         • at 48 V rated value         • at 600 V rated value         • at 420 V rated value         • at 420 V rated value         • at 48 V rated value         • at 600 V rated value         • at 24 V rated value         • at 48 V rated value         • at 48 V rated value         • at 400 V rated value         • at 60 V rated value <th>2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A</th>	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 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 48 V rated value         • at 48 V rated value         • at 48 V rated value         • at 110 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value         • at 48 V rated value         • at 600 V rated value         • at 24 V rated value         • at 48 V rated value         • at 24 V rated value         • at 48 V rated value         • at 48 V rated value         • at 40 V rated value         • at 40 V rated value         • at 40 V rated value         • at 60 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 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 48 V rated value         • at 48 V rated value         • at 48 V rated value         • at 110 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 24 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 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	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0 15 A 6 A 2 A 1 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         • 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 24 V rated value         • at 110 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 48 V rated value         • at 48 V rated value         • at 220 V rated value         • at 48 V rated value         • at 10 V rated value         • at 10 V rated value         • at 125 V rated value         • at 120 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0 15 A 6 A 2 A 1 A 0.15 A 6 A 2 A 1 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         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 400 V rated value         • at 24 V rated value         • at 24 V rated value         • at 110 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 24 V rated value         • at 600 V rated value         • at 48 V rated value         • at 24 V rated value         • at 600 V rated value         • at 110 V rated value         • at 125 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 1 A 0.15 A 6 A 0.15 A

full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	14 A
at 600 V rated value	17 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	1 hp
— at 230 V rated value	3 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
— at 575/600 V rated value	15 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
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)
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 10 A (500 V, 1 kA)
required	
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 standard mounting rail according to DIN EN 60715
side-by-side mounting	Yes
height	85 mm
width	45 mm
depth	141 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— upwards	10 mm
– downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
<ul> <li>of magnet coil</li> </ul>	Screw-type terminals
type of connectable conductor cross-sections	
for main contacts	
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
— solid or stranded	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 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>
at AWG cables for main contacts	2x (1 2.3 mm), 2x (2.3 6 mm), 1x 16 mm
connectable conductor cross-section for main	2A (10 12), 2A (17 0)
contacts	1 10 mm <sup>2</sup>
• solid	1 10 mm <sup>2</sup>
stranded	1 10 mm²

	with core end processi	na	1 10 mm²		
	ctor cross-section for	-	1		
contacts		uuxiiuiy			
<ul> <li>solid or strande</li> </ul>	ed		0.5 2.5 mm²		
finely stranded with core end processing		0.5 2.5 mm <sup>2</sup>			
type of connectable	type of connectable conductor cross-sections				
<ul> <li>for auxiliary cor</li> </ul>	ntacts				
— solid or str	randed		2x (0.5 1.5 mm²), 2	x (0.75 2.5 mm²)	
— finely strar	nded with core end proc	cessing	2x (0.5 1.5 mm²), 2	x (0.75 2.5 mm²)	
-	for auxiliary contacts	-	2x (20 16), 2x (18		
AWG number as co	ded connectable conc	luctor cross			
section					
<ul> <li>for main contact</li> </ul>	ets		16 8		
<ul> <li>for auxiliary cor</li> </ul>	ntacts		20 14		
Safety related data					
product function					
<ul> <li>mirror contact a</li> </ul>	mirror contact according to IEC 60947-4-1		Yes		
<ul> <li>positively driver</li> </ul>	n operation according to	o IEC 60947-	No		
5-1					
	lemand rate according	to SN 31920	450 000		
proportion of dange					
<ul> <li>with low deman</li> </ul>	nd rate according to SN	31920	40 %		
<ul> <li>with high dema</li> </ul>	nd rate according to SN	N 31920	73 %		
failure rate [FIT] with 31920	low demand rate accor	ding to SN	100 FIT		
T1 value for proof tes IEC 61508	t interval or service life	according to	20 у		
protection class IP o 60529	on the front according	to IEC	IP20		
touch protection on	the front according to	o IEC 60529	finger-safe, for vertica	I contact from the front	
suitability for use					
<ul> <li>safety-related s</li> </ul>	witching OFF		Yes		
Certificates/ approval	-				
General Product Ap					
(T)		<u>Confirmation</u>	<sup></sup> መ	KC	FAL
(SP)		Confirmatio		KC	EAC
		Confirmatio		KC	EAC
(SP)		Confirmatio		KC	EAC
EMC	CCC CCC		on Use of Conformity	KC Test Certificates	<b>ERE</b> Marine / Shipping
EMC	Functional Safety/Safety of Machinery	Declaration of	of Conformity	Test Certificates	ERC Marine / Shipping
EMC EMC	Functional Safety/Safety of Machinery	Declaration of	of Conformity	Test Certificates	ERC Marine / Shipping
EMC RCM	Functional Safety/Safety of Machinery	Declaration of	, the second sec	Test Certificates	ERC Marine / Shipping
RCM	Functional Safety/Safety of Machinery	Declaration of	of Conformity	Test Certificates	ABS
EMC EMC RCM	Functional Safety/Safety of Machinery	Declaration of	of Conformity	Test Certificates	ERC Marine / Shipping $\widetilde{bs}$
RCM	Functional Safety/Safety of Machinery	Declaration of	of Conformity	Test Certificates	ABS
RCM	Functional Safety/Safety of Machinery	Declaration of	of Conformity	Test Certificates	ABS
RCM	Functional Safety/Safety of Machinery	Declaration of	of Conformity	Test Certificates	ABS
RCM	Functional Safety/Safety of Machinery Type Examination Certificate	Declaration of EG-Konf.	of Conformity	Test Certificates	ABS
Marine / Shipping	Functional Safety/Safety of Machinery Type Examination Certificate	Declaration of EG-Konf.	of Conformity	Test Certificates	ABS
Marine / Shipping	Functional Safety/Safety of Machinery Type Examination Certificate	Declaration of EG-Konf.	of Conformity	Test Certificates	ABS
Marine / Shipping	Functional Safety/Safety of Machinery Type Examination Certificate	Declaration of EG-Konf.	of Conformity	Test Certificates	ABS



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=3RT2025-1CK64-3MA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2025-1CK64-3MA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-1CK64-3MA0

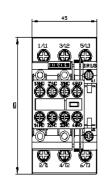
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

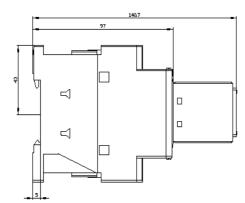
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2025-1CK64-3MA0&lang=en

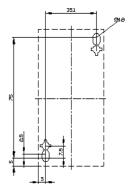
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-1CK64-3MA0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2025-1CK64-3MA0&objecttype=14&gridview=view1







last modified: