## **SIEMENS**

Data sheet 3RT2028-4AK60



Contactor, AC-3, 18.5 kW / 400 V, 1 NO + 1 NC, 110 V AC, 50 Hz, 120 V, 60 Hz, 3-pole, Size S0, ring cable lug connection

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>	9.6 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.2 W
<ul> <li>without load current share typical</li> </ul>	10.5 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
of auxiliary circuit rated value	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	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 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 %

number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C	50 A
rated value	007.
• at AC-1	
— up to 690 V at ambient temperature 40 °C	50 A
rated value	
— up to 690 V at ambient temperature 60 °C	42 A
rated value	
• at AC-3	
— at 400 V rated value	38 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-3e	
— at 400 V rated value	38 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	22 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	44 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	31.5 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated	30.8 A
value	
<ul> <li>up to 400 V for current peak value n=20 rated</li> </ul>	30.8 A
value	
<ul> <li>up to 500 V for current peak value n=20 rated</li> </ul>	30.8 A
value	
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	21 A
• at AC-6a	
	20.5.4
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	20.5 A
— up to 400 V for current peak value n=30 rated	20.5 A
value	
— up to 500 V for current peak value n=30 rated	21.4 A
value	
<ul> <li>up to 690 V for current peak value n=30 rated</li> </ul>	21 A
value	
minimum cross-section in main circuit at maximum AC-1	10 mm²
rated value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	12 A
• at 690 V rated value	12 A
operational current	1271
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 24 V rated value  — 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
with 2 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	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
<ul> <li>with 3 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	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	18.5 kW
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	18.5 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	18.5 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	6 kW
• at 690 V rated value	10.3 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	12.2 kVA
• up to 400 V for current peak value n=20 rated value	21.3 kVA
• up to 500 V for current peak value n=20 rated value	26.6 kVA
• up to 690 V for current peak value n=20 rated value	25 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	8.1 kVA
• up to 400 V for current peak value n=30 rated value	14.2 kVA
• up to 500 V for current peak value n=30 rated value	18.5 kVA
• up to 690 V for current peak value n=30 rated value	25 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>	593 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	395 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	260 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	186 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum	152 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	750 1/h

- at AC 2 magazinesuma	750.4/b
• at AC-3 maximum	750 1/h
<ul> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> </ul>	750 1/h 250 1/h
	250 1/11
Control circuit/ Control	A.O.
type of voltage of the control supply voltage	AC
control supply voltage at AC	440.1/
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul>	110 V 120 V
operating range factor control supply voltage rated	120 V
value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	81 VA
• at 60 Hz	79 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	40.5.1/4
• at 50 Hz	10.5 VA 8.5 VA
• at 60 Hz	8.9 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	4
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NC contacts for auxiliary contacts	1
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum	
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 10 A
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	1 10 A 10 A
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	1 10 A 10 A 3 A
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 10 A 10 A 3 A 2 A
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 10 A 10 A 3 A
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 operational current at DC-12	1 10 A 10 A 3 A 2 A 1 A
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 operational current at DC-12 • at 24 V rated value	1 10 A 10 A 3 A 2 A 1 A
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 operational current at DC-12 • at 24 V rated value • at 48 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A
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  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A
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 operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A
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  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value	1 10 A 10 A 3 A 2 A 1 A  10 A 6 A 6 A 6 A 3 A 2 A
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 operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A
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 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	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
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  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 600 V rated value	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
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  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	1 10 A 10 A 3 A 2 A 1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
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  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 600 V rated value • at 220 V rated value	1 10 A 10 A 3 A 2 A 1 A  10 A 6 A 6 A 6 A 2 A 1 A 0.15 A
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  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 24 V rated value • at 48 V rated value	1 10 A 10 A 3 A 2 A 1 A  10 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7
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  operational current at DC-12  • 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 • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value	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 0.15 A
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  operational current at DC-12  • 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 • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 600 V rated value • at 48 V rated value • at 410 V rated value • at 410 V rated value	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 2 A 1 A  10 A 2 A 2 A 1 A
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  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 • at 125 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 230 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value	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 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
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  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 24 V rated value • at 600 V rated value • at 25 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value	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 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A
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  operational current at DC-12  • 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 • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 26 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value • at 30 V rated value • at 48 V rated value • at 60 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 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 0.3 A 0.1 A
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  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 24 V rated value • at 600 V rated value • at 25 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value	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 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A

* an 430 V reted value * bird single-phase AC motor - at 1101/20 V rated value * at 33 hp * at 1101/20 V rated value * or 3-phase AC motor - at 200/280 V rated value * or 3-phase AC motor - at 200/280 V rated value * or 14 phase AC motor - at 200/280 V rated value * or 15 phase AC motor - at 200/280 V rated value * or 15 phase AC motor - at 200/280 V rated value * or 15 phase AC motor - at 200/280 V rated value * or 15 phase AC motor - at 200/280 V rated value * or 15 phase AC motor - at 200/280 V rated value * or 15 phase AC motor - at 200/280 V rated value - at 400/480 V rated value - at 400/480 V rated value - at 575/690 V rated value - or 15 phase AC motor - with type of coordination 1 required - with type of assignment 2 required - with type of assignment 2 required - with type of assignment 2 required - side phase AC motor - with type of assignment 2 required - side phase AC motor - with type of assignment 2 required - side phase AC motor - with type of assignment 2 required - side by-side mounting didinerations - some want as standard mounting aurisoc; can be titled forward and backward by +1-22.5 for overtical mounting surface; can be titled forward and backward by +1-22.5 for overtical mounting surface; can be titled forward and backward by +1-22.5 for overtical mounting surface; can be titled forward and backward by +1-22.5 for overtical mounting surface; can be titled forward and backward by +1-22.5 for overtical mounting surface; can be titled forward and backward by +1-22.5 for overtical mounting surface; can be titled forward and backward by +1-22.5 for overtical mounting surface; can be titled forward special phase and backward by +1-22.5 for overtical mounting surface; can be titled forward and backward by +1-22.5 for overtical mounting surface; can be titled forward and backward by +1-22.5 for overtical mounting surface; can be titled forward and backward by +1-22.5 for overtical mounting surface; can be titled forward and bac	a at 490 V rated value	24 A
yielded mechanical performance (hp)  • for single-phase AC motor  — at 110/120 V rated value — at 200/200 V rated value — at 400/400 V rated value — at 575-600 V rated value — with type of assignment 2 required — with site of short-circuit protection of the auxiliary switch required — with site of the state	at 480 V rated value     at 600 V rated value	34 A
or single-phase AC motor		21 A
at 101/120 V rated value 5 hp 5 hp 5 hp at 200/208 V rated value 5 hp 5 hp 5 hp at 200/208 V rated value 10 hp at 200/208 V rated value 20 hp at 200/208 V rated value 20 hp at 400/480 V lated value 20 hp		
- at 230 V rated value - if of 3-phase AC motor - at 200230 V rated value - at 4200230 V rated value - at 4200230 V rated value - at 400480 V rated value - 25 hp - 25		2 hp
of or 3-phase AC motor		·
		o np
	·	40 h
— at 60,0480 V rated value 25 hp 25		·
- at 575/600 V rated value		·
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  mounting position  fastening method  • side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • forwards  — upwards — at the side  • for grounded parts — forwards — at the side — downwards • for main current circuit — of or auxiliary and control circuit • of or auxiliary and control circuit • for main current circuit • for main current circuit • for main current circuit • for or auxiliary and control circuit • for or auxiliary and control circuit • for for main current circuit • for for main for for the formal circuit • for for main current circuit • for for main for the current circuit • for for main for the current circuit • for main for for the current circuit • for main for for the formation circuit • for main for for the formation circuit • for white for the formation circuit • for main for formation cir		·
Short-circuit protection   design of the fuse link   of short-circuit protection of the main circuit   - with type of coordination 1 required   4(15V,80kA)   Gegov,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA)   of short-circuit protection of the auxiliary switch required   Gegov, 100kA, aM: 25A (690V, 100kA), BS88: 50A (415V,80kA)   of short-circuit protection of the auxiliary switch required   Gegov, 100kA, aM: 25A (690V, 100kA), BS88: 50A (415V,80kA)   of short-circuit protection of the auxiliary switch required   Gegov, 100kA, aM: 25A (690V, 100kA), BS88: 50A (415V,80kA)   of short-circuit protection of the auxiliary switch required   Gegov, 100kA, aM: 25A (690V, 100kA), BS88: 50A (415V,80kA)   of short-circuit protection of the auxiliary switch   Gegov, 100kA, aM: 25A (690V, 100kA), BS88: 125A (415V,80kA)   of short-circuit protection of the auxiliary switch   Gegov, 100kA, aM: 25A (690V, 100kA), BS88: 125A (415V,80kA)   of short-circuit protection of the auxiliary switch   Gegov, 100kA, aM: 25A (690V, 100kA), aM: 25A (690V, 100kA), BS88: 125A (415V,80kA)   of short-circuit protection   Gegov, 100kA, aM: 25A (690V, 100kA), aM: 25A (690V, 10		
design of the fuse link		A600 / P600
• for short-circuit protection of the main circuit     — with type of coordination 1 required     — with type of coordination 1 required     — with type of assignment 2 required     — with type of assignment 2 required     • for short-circuit protection of the auxiliary switch required     • for short-circuit protection of the auxiliary switch required     • for short-circuit protection of the auxiliary switch required     • for short-circuit protection of the auxiliary switch required     • for short-circuit protection of the auxiliary switch required     • for short-circuit protection of the auxiliary switch required     • for short-circuit protection of the auxiliary switch required     • for short-circuit protection of the auxiliary switch required     • for short-circuit protection of the auxiliary switch required     • for short-circuit protection of the auxiliary switch required     • forward and backward by 4- 22.5° on vertical mounting surface; can be titled forward and backward by 4- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715     • side-by-side mounting     • side-by-side mounting     • side-by-side mounting     • with side-by-side mounting     • with side-by-side mounting     • with side-by-side mounting     • for grounded parts     • for wards     • for manual properties of the side     • formal properties of the side     • for manual properties of the side     • for auxiliary and control circuit     • for auxiliary and control		
with type of coordination 1 required (415V-30kA), abl.: 50A (690V, 100kA), BS88: 125A (415V-30kA) with type of assignment 2 required gG: 50A (690V, 100kA), abl.: 25A (690V, 100kA), BS88: 50A (415V, 80kA)  • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)  required mounting/ dimensions  mounting position	_	
with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  Installation mounting/ dimensions	<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
for short-circuit protection of the auxiliary switch required    Installation   mounting   dimensions	<ul> <li>— with type of coordination 1 required</li> </ul>	
required mounting position  mounting position  fastening method  side-by-side mounting  height  festening method  side-by-side mounting  height  feeting method  side-by-side mounting  height  feeting method  some and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  Yes  height  feeting method  some and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and sucrface for surface manapen mounting ont as 55 mm standard mounting surface; can be tilted forward and sucrface; can be tilted forward and sucreful fill DIN m  10 mm  10	— with type of assignment 2 required	
mounting position  fastening method  screw and snap-on mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rall according to DIN EN 60715  side-by-side mounting  height  width  depth  frequired spacing  with side-by-side mounting  - forwards  - upwards  - upwards  - downwards  - at the side  - for grounded parts  - forwards  - upwards  - at the side  - downwards  - to limb and a side - downwards  - upwards  - to limb and a side - downwards  - to many and control circuit  - for auxiliary and control circuit  - for many contact of or auxiliary contacts  - of magnet coil  Safety related data  product function  - mirror contact according to IEC 60947-4-1  Safety related data  product function  - mirror contact according to SN 31920  - with ligh demand rate according to SN 31920  - with ligh demand rate according to SN 31920  - with ligh demand rate according to SN 31920  fallure rate [FIT] with low demand rate according to SN 31920  fallure rate [FIT] with low demand rate according to SN 31920  fallure rate [FIT] with low demand rate according to SN 31920  fallure rate [FIT] with low demand rate according to SN 31920  fallure rate [FIT] with low demand rate according to SN 31920  fallure rate [FIT] with low demand rate according to SN 31920		gG: 10 A (500 V, 1 kA)
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 97 mm  required spacing  * with side-by-side mounting  - forwards 10 mm  - downwards 10 mm  - at the side 0 mm  - for grounded parts  - forwards 10 mm  - upwards 10 mm  - upwards 10 mm  - at the side 0 mm  - for grounded parts  - for for live parts  - for live parts  - for live parts  - for live parts  - downwards 10 mm  - downwards 10 mm  - the side 6 mm  - downwards 10 mm  - the side 6 mm  - downwards 10 mm  - for live parts  - for live parts  - for live parts  - for live parts  - formards 10 mm  - downwards 10 mm  - man downwards 10 mm	Installation/ mounting/ dimensions	
Screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715   Yes	mounting position	
e side-by-side mounting  height  midth  depth  required spacing  • with side-by-side mounting  — forwards — upwards — downwards — at the side — for grounded parts — forwards — upwards — 10 mm — own for grounded parts — forwards — upwards — 10 mm — upwards — 10 mm — own for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards — to fir live parts — forwards — upwards — own for live parts — forwards — upwards — own for live parts — forwards — upwards — at the side — forwards — upwards — at the side — forwards — at the side — for auxiliary and control circuit — for auxiliary and control circuit — of or auxiliary and control circuit — of magnet coil  Safety related data  product function  • mirror contact according to EIC 60947-4-1 — Bito value with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with ligh demand rate according to SN 31920 • with ligh demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • failure rate [FIT] with low demand rate according to SN 31920 • failure rate [FIT] with low demand rate according to SN 31920 • failure rate [FIT] with low demand rate according to SN 31920	fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
height width 45 mm depth 97 mm required spacing  • with side-by-side mounting — forwards 10 mm — downwards 10 mm — downwards 10 mm — of progrounded parts — forwards 10 mm — at the side 0 mm — upwards 10 mm — at the side 6 mm — downwards 10 mm — at the side 6 mm — ownwards 10 mm — at the side 6 mm — ownwards 10 mm — at the side 6 mm — ownwards 10 mm — of or live parts — forwards 10 mm — at the side 6 mm  Connections/ Terminals  type of electrical connection — for main current circuit Ring cable lug connection — if or auxiliary and control circuit ring terminal lug connection — of angent coil Ring cable lug connection — ingreated data  product function  • mirror contact according to IEC 60947-4-1 Pes — invite low demand rate according to SN 31920 — with low demand rate according to SN 31920 — with low demand rate according to SN 31920 — with low demand rate according to SN 31920 — with low demand rate according to SN 31920 — with low demand rate according to SN 31920 — with low demand rate according to SN 31920 — with low demand rate according to SN 31920 — with low demand rate according to SN 31920 — with low demand rate according to SN 31920 — with low demand rate according to SN 31920 — with low demand rate according to SN 31920 — with low demand rate according to SN 31920 — with low demand rate according to SN 31920 — failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920	• side-by-side mounting	
required spacing  • with side-by-side mounting  — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — 10 mm  • for grounded parts — forwards — upwards — 10 mm  • for grounded parts — forwards — upwards — 10 mm  • for mm  — at the side — for mm  — at the side — for mwards — the side — downwards — the side — downwards — the side — forwards — upwards — the side — for mands — upwards — the side — for mands — the side — for mands — at the side — for mands — at the side — formands — the side — for mands — the side — for mands — the side — for mand current circuit — for auxiliary and control circuit — at contactor for auxiliary contacts — of magnet coil  Safety related data  product function — imiror contact according to IEC 60947-4-1 — B10 value with high demand rate according to SN 31920 — with low demand rate according to SN 31920 — low low low low low low mm  10 mm	height	85 mm
required spacing  • with side-by-side mounting  — forwards — upwards — downwards — at the side — for grounded parts — forwards — upwards — upwards — to mm — at the side — forwards — upwards — upwards — upwards — downwards — downwards — downwards — forwards — upwards — forwards — upwards — upwards — upwards — downwards — the side — forman current circuit — for auxiliary and control circuit — if or auxiliary contacts — of magnet coil  Safety related data  product function — imirror contact according to IEC 60947-4-1 — B10 value with high demand rate according to SN 31920 — with low demand rate according to SN 31920 — with low demand rate according to SN 31920 — with low demand rate according to SN 31920 — with high demand rate according to SN 31920 — with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 100 FIT	width	45 mm
with side-by-side mounting — forwards — upwards — downwards — at the side  of or grounded parts — forwards — upwards — 10 mm  of or grounded parts — forwards — upwards — 10 mm — at the side — downwards — 10 mm — at the side — downwards — 10 mm  of or live parts — for live parts — forwards — upwards — 10 mm  of or live parts — forwards — upwards — 10 mm — downwards — 10 mm — downwards — 10 mm — of mm  Connections/ Terminals  type of electrical connection  of or auxiliary and control circuit — of contactor for auxiliary contacts of magnet coil  Safety related data  product function  omirror contact according to IEC 60947-4-1  B10 value with high demand rate according to SN 31920 owith low demand rate according to SN 31920 owith high demand rate according to SN 31920 owith high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN failure rate [FIT] with low demand rate according to SN failure rate [FIT] with low demand rate according to SN failure rate [FIT] with low demand rate according to SN failure rate [FIT] with low demand rate according to SN failure rate [FIT] with low demand rate according to SN failure rate [FIT] with low demand rate according to SN failure rate [FIT] with low demand rate according to SN failure rate [FIT] with low demand rate according to SN failure rate [FIT] with low demand rate according to SN failure rate [FIT] with low demand rate according to SN	depth	97 mm
forwards	required spacing	
- upwards 10 mm 10	<ul> <li>with side-by-side mounting</li> </ul>	
- downwards - at the side	— forwards	10 mm
- at the side  • for grounded parts  - forwards  - upwards  - at the side  - downwards  • for live parts  - forwards  - forwards  - to for live parts  - forwards  - upwards  - forwards  - upwards  - upwards  - upwards  - upwards  - downwards  - at the side  Connections/ Terminals  type of electrical connection  • for main current circuit  • for auxillary and control circuit  • for auxillary and control circuit  • at contactor for auxillary contacts  • of magnet coil  Safety related data  product function  • mirror contact according to IEC 60947-4-1  B10 value with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 100 FIT	— upwards	10 mm
• for grounded parts  — forwards — upwards — at the side — downwards — 10 mm  • for live parts — forwards — lownwards — of main current circuit — for main current circuit — for auxiliary and control circuit — at contactor for auxiliary contacts — of magnet coil  Safety related data  product function  • mirror contact according to ISC 60947-4-1  B10 value with high demand rate according to SN 31920 • with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 1920 failure rate [FIT] with low demand rate according to SN 1920 failure rate [FIT] with low demand rate according to SN 1920 failure rate [FIT] with low demand rate according to SN 1920 failure rate [FIT] with low demand rate according to SN 1920 failure rate [FIT] with low demand rate according to SN 1920 failure rate [FIT] with low demand rate according to SN 1920 failure rate [FIT] with low demand rate according to SN 1920	— downwards	10 mm
forwards 10 mm upwards 10 mm at the side 6 mm downwards 10 mm  • for live parts forwards 10 mm upwards 10 mm upwards 10 mm upwards 10 mm downwards 10 mm downwards 10 mm at the side 6 mm  Connections/ Terminals  type of electrical connection • for main current circuit Ring cable lug connection • for auxiliary and control circuit ring terminal lug connection • at contactor for auxiliary contacts Ring cable lug connection  • at main current circuit ring terminal lug connection • at contactor for auxiliary contacts • of magnet coil Ring cable lug connection  Safety related data  product function • mirror contact according to IEC 60947-4-1 Yes  B10 value with high demand rate according to SN 31920  proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 19190 failure rate [FIT] with low demand rate according to SN 11920 failure rate [FIT] with low demand rate according to SN 11920	— at the side	0 mm
- upwards - at the side - downwards 10 mm  • for live parts - forwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm  Connections/ Terminals  type of electrical connection • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  Safety related data  product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 1920 failure rate [FIT] with low demand rate according to SN 1920 failure rate [FIT] with low demand rate according to SN 1920 failure rate [FIT] with low demand rate according to SN 1920 failure rate [FIT] with low demand rate according to SN 1920 failure rate [FIT] with low demand rate according to SN 1920	for grounded parts	
- at the side	— forwards	10 mm
- downwards • for live parts - forwards - upwards - upwards - downwards - at the side  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  Safety related data  product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 1100 FIT	— upwards	10 mm
for live parts         — forwards         — upwards         — downwards         — at the side  Connections/ Terminals  type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • of magnet coil  Safety related data  product function         • mirror contact according to IEC 60947-4-1  B10 value with high demand rate according to SN 31920  proportion of dangerous failures         • with low demand rate according to SN 31920         • with high demand rate according to SN 31920         • with high demand rate according to SN 31920         • with low demand rate according to SN 31920         • with ligh demand rate according to SN 31920         • with ligh demand rate according to SN 31920         • with ligh demand rate according to SN 31920         • with ligh demand rate according to SN 31920         • with ligh demand rate according to SN 31920         • with ligh demand rate according to SN 31920         • With ligh demand rate according to SN 31920         • With ligh demand rate according to SN 31920         • With ligh demand rate according to SN 31920         • With ligh demand rate according to SN 31920         • With ligh demand rate according to SN 31920         • With ligh demand rate according to SN 31920         • With ligh demand rate according to SN 31920         • With ligh demand rate according to SN 31920         • With ligh demand rate according to SN 31920         • With ligh demand rate according to SN 31920         • With ligh demand rate according to SN 31920	— at the side	6 mm
- forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm  Connections/ Terminals  type of electrical connection • for main current circuit Ring cable lug connection • for auxiliary and control circuit ring terminal lug connection • at contactor for auxiliary contacts Ring cable lug connection • of magnet coil Ring cable lug connection  Safety related data  product function • mirror contact according to IEC 60947-4-1 Yes  B10 value with high demand rate according to SN 31920  proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 1920  failure rate [FIT] with low demand rate according to SN 100 FIT	— downwards	10 mm
- forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm  Connections/ Terminals  type of electrical connection • for main current circuit Ring cable lug connection • for auxiliary and control circuit ring terminal lug connection • at contactor for auxiliary contacts Ring cable lug connection • of magnet coil Ring cable lug connection  Safety related data  product function • mirror contact according to IEC 60947-4-1 Yes  B10 value with high demand rate according to SN 31920  proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 1920  failure rate [FIT] with low demand rate according to SN 100 FIT	for live parts	
- upwards - downwards - at the side  Connections/ Terminals  type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  Safety related data  product function • mirror contact according to IEC 60947-4-1  B10 value with high demand rate according to SN 31920  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 1920  failure rate [FIT] with low demand rate according to SN 1920  10 mm  10 emm  4 soun according to SN 31920  45 o 000  73 %  failure rate [FIT] with low demand rate according to SN 31920	•	10 mm
downwards at the side  Connections/ Terminals  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • at contactor for auxiliary contacts  • of magnet coil  Safety related data  product function  • mirror contact according to IEC 60947-4-1  B10 value with high demand rate according to SN 31920  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 100 FIT		
- at the side 6 mm  Connections/ Terminals  type of electrical connection  • for main current circuit Ring cable lug connection  • for auxiliary and control circuit ring terminal lug connection  • at contactor for auxiliary contacts Ring cable lug connection  • of magnet coil Ring cable lug connection  Safety related data  product function  • mirror contact according to IEC 60947-4-1 Yes  B10 value with high demand rate according to SN 31920  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 100 FIT	•	
type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  Safety related data  product function • mirror contact according to IEC 60947-4-1  B10 value with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 100 FIT		
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • at contactor for auxiliary contacts  • of magnet coil  Safety related data  product function  • mirror contact according to IEC 60947-4-1  B10 value with high demand rate according to SN 31920  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN  100 FIT		
<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> <li>Ring cable lug connection</li> <li>Ring cable lug connection</li> <li>Ring cable lug connection</li> <li>Ring cable lug connection</li> </ul> Safety related data product function <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>B10 value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN</li> </ul> 100 FIT		
<ul> <li>for auxiliary and control circuit         <ul> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul> </li> <li>Safety related data         <ul> <li>product function</li> <li>mirror contact according to IEC 60947-4-1</li> <li>B10 value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN</li> </ul> </li> <li>failure rate [FIT] with low demand rate according to SN</li> <li>100 FIT</li> </ul>		Ring cable lug connection
<ul> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>Ring cable lug connection</li> <li>Safety related data</li> <li>product function</li> <li>mirror contact according to IEC 60947-4-1</li> <li>B10 value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN</li> <li>100 FIT</li> </ul>		
of magnet coil     Ring cable lug connection      Safety related data  product function     o mirror contact according to IEC 60947-4-1     B10 value with high demand rate according to SN 31920  proportion of dangerous failures     o with low demand rate according to SN 31920     o with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN  100 FIT		
product function		
product function		Tang sabio iag ootinoolion
<ul> <li>mirror contact according to IEC 60947-4-1</li> <li>B10 value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN</li> <li>100 FIT</li> </ul>		
B10 value with high demand rate according to SN 31920  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN  100 FIT		Ves
proportion of dangerous failures		
<ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN</li> <li>100 FIT</li> </ul>		450 000
<ul> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN</li> <li>100 FIT</li> </ul>		40.0/
failure rate [FIT] with low demand rate according to SN 100 FIT		
		100 FII

T1 value for proof test interval or service life according to 20 y IEC 61508 IP00 protection class IP on the front according to IEC 60529 suitability for use • safety-related switching OFF Yes

Certificates/ approvals

## **General Product Approval**





Confirmation



<u>KC</u>



**EMC** 

**Functional** Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 



**Type Examination Certificate** 





**Special Test Certific-**<u>ate</u>

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping

other



Confirmation



Confirmation

**Further information** 

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=3RT2028-4AK60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2028-4AK60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-4AK60

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2028-4AK60&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-4AK60/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2028-4AK60&objecttype=14&gridview=view1

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