## SIEMENS

## Data sheet

## 3RT2027-1AK64-3MA0



power contactor, AC-3e/AC-3, 32 A, 15 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S0, captive auxiliary switch, no surge suppressor retrofittable

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	No
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	6.3 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.3 W
<ul> <li>without load current share typical</li> </ul>	2.7 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	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 (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)	
Weight	0.493 kg
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 %

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			
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 rated value	50 A		
<ul> <li>at AC-1</li> <li>up to 690 V at ambient temperature 40 °C rated</li> </ul>	50 A		
value — up to 690 V at ambient temperature 60 °C rated value	42 A		
• at AC-3			
— at 400 V rated value	32 A		
— at 500 V rated value	32 A		
— at 690 V rated value	21 A		
• at AC-3e			
— at 400 V rated value	32 A		
— at 500 V rated value	32 A		
— at 690 V rated value	21 A		
• at AC-4 at 400 V rated value	22 A		
• at AC-5a up to 690 V rated value	44 A		
• at AC-5b up to 400 V rated value	26.5 A		
● at AC-6a			
— up to 230 V for current peak value n=20 rated value	30.8 A		
— up to 400 V for current peak value n=20 rated value	30.8 A		
— up to 500 V for current peak value n=20 rated value	27 A		
— up to 690 V for current peak value n=20 rated value	21 A		
• at AC-6a			
— up to 230 V for current peak value n=30 rated value	20.5 A		
— up to 400 V for current peak value n=30 rated value	20.5 A		
— up to 500 V for current peak value n=30 rated value	18 A		
— up to 690 V for current peak value n=30 rated value	18 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	10.4		
at 400 V rated value	12 A 12 A		
• at 690 V rated value     operational current			
at 1 current path at DC-1			
- at 24 V rated value	35 A		
— at 60 V rated value	20 A		
— at 100 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		
• with 2 current paths in series at DC-1			
— 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	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 60 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 60 V rated value	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 60 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 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-2 at 400 V rated value	15 kW			
• at AC-3				
— at 230 V rated value	7.5 kW			
— at 400 V rated value	15 kW			
— at 500 V rated value	15 kW			
— at 690 V rated value	18.5 kW			
• at AC-3e				
— at 230 V rated value	7.5 kW			
— at 400 V rated value	15 kW			
— at 500 V rated value	15 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				
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	12.2 kVA			
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	21.3 kVA			
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	23.3 kVA			
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	25 kVA			
operating apparent power at AC-6a				
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	8.1 kVA			
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	14.2 kVA			
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	15.5 kVA			
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	21.5 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>	499 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	341 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>	199 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	162 A; Use minimum cross-section acc. to AC-1 rated value			
no-load switching frequency				

• at AC	5 000 1/h
operating frequency	
<ul> <li>at AC-1 maximum</li> </ul>	1 000 1/h
<ul> <li>at AC-2 maximum</li> </ul>	750 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	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
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	
• at 50 Hz	10.5 VA
• at 60 Hz	8.5 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
• at AC	4 16 ms 10 10 ms
• at AC arcing time	
at AC     arcing time     control version of the switch operating mechanism	10 10 ms
• at AC arcing time control version of the switch operating mechanism Auxiliary circuit	10 10 ms Standard A1 - A2
• at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     design of the auxiliary switch	10 10 ms Standard A1 - A2 on the front, non-detachable
• at AC arcing time control version of the switch operating mechanism Auxiliary circuit	10 10 ms Standard A1 - A2
• at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     design of the auxiliary switch     number of NC contacts for auxiliary contacts instantaneous	10 10 ms Standard A1 - A2 on the front, non-detachable
• at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     design of the auxiliary switch     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous	10 10 ms Standard A1 - A2 on the front, non-detachable 2
• at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     design of the auxiliary switch     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact	10 10 ms Standard A1 - A2 on the front, non-detachable 2 2
• at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     design of the auxiliary switch     number of NC contacts for auxiliary contacts instantaneous     contact     number of NO contacts for auxiliary contacts instantaneous     contact     operational current at AC-12 maximum	10 10 ms Standard A1 - A2 on the front, non-detachable 2 2
• at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     design of the auxiliary switch     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	10 10 ms Standard A1 - A2 on the front, non-detachable 2 2 10 A
• at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     design of the auxiliary switch     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	10 10 ms Standard A1 - A2 on the front, non-detachable 2 2 10 A 6 A
• at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     design of the auxiliary switch     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	10 10 ms Standard A1 - A2 on the front, non-detachable 2 2 10 A 6 A 3 A
• at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     design of the auxiliary switch     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	10 10 ms Standard A1 - A2 on the front, non-detachable 2 2 10 A 6 A 3 A 2 A
• at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     design of the auxiliary switch     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	10 10 ms Standard A1 - A2 on the front, non-detachable 2 2 10 A 6 A 3 A 2 A
• at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     design of the auxiliary switch     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         operational current at DC-12	10 10 ms Standard A1 - A2 on the front, non-detachable 2 2 10 A 6 A 3 A 2 A 1 A
• at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     design of the auxiliary switch     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 690 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value	10 10 ms Standard A1 - A2 on the front, non-detachable 2 2 10 A 6 A 3 A 2 A 1 A 10 A
• at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     design of the auxiliary switch     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 24 V rated value         • at 24 V rated value         • at 48 V rated value	10 10 ms         Standard A1 - A2         on the front, non-detachable         2         2         10 A         6 A         3 A         2 A         1 A         10 A
<ul> <li>at AC</li> <li>arcing time</li> <li>control version of the switch operating mechanism</li> <li>Auxiliary circuit</li> <li>design of the auxiliary switch</li> <li>number of NC contacts for auxiliary contacts instantaneous contact</li> <li>number of NO contacts for auxiliary contacts instantaneous contact</li> <li>operational current at AC-12 maximum</li> <li>operational current at AC-15</li> <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 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li></ul>	10 10 ms Standard A1 - A2 on the front, non-detachable 2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A
<ul> <li>at AC</li> <li>arcing time</li> <li>control version of the switch operating mechanism</li> <li>Auxiliary circuit</li> <li>design of the auxiliary switch</li> <li>number of NC contacts for auxiliary contacts instantaneous contact</li> <li>number of NO contacts for auxiliary contacts instantaneous contact</li> <li>operational current at AC-12 maximum</li> <li>operational current at AC-15</li> <li>at 230 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rate</li></ul>	10 10 ms Standard A1 - A2 on the front, non-detachable 2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A
<ul> <li>at AC</li> <li>arcing time</li> <li>control version of the switch operating mechanism</li> <li>Auxiliary circuit</li> <li>design of the auxiliary switch</li> <li>number of NC contacts for auxiliary contacts instantaneous contact</li> <li>number of NO contacts for auxiliary contacts instantaneous contact</li> <li>operational current at AC-12 maximum</li> <li>operational current at AC-15</li> <li>at 230 V rated value</li> <li>at 690 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 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> <l< td=""><td>10 10 ms         Standard A1 - A2         on the front, non-detachable         2         2         10 A         6 A         3 A         2 A         10 A         6 A         3 A         2 A         10 A         6 A         3 A         2 A         1 A</td></l<></ul>	10 10 ms         Standard A1 - A2         on the front, non-detachable         2         2         10 A         6 A         3 A         2 A         10 A         6 A         3 A         2 A         10 A         6 A         3 A         2 A         1 A
<ul> <li>at AC</li> <li>arcing time</li> <li>control version of the switch operating mechanism</li> <li>Auxiliary circuit</li> <li>design of the auxiliary switch</li> <li>number of NC contacts for auxiliary contacts instantaneous contact</li> <li>number of NO contacts for auxiliary contacts instantaneous contact</li> <li>operational current at AC-12 maximum</li> <li>operational current at AC-15</li> <li>at 230 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> <li>at 24 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 125 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <l< td=""><td>10 10 ms Standard A1 - A2 on the front, non-detachable 2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A</td></l<></ul>	10 10 ms Standard A1 - A2 on the front, non-detachable 2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A
• at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     design of the auxiliary switch     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 600 V rated value         • at 48 V rated value         • at 48 V rated value         • at 48 V rated value         • at 420 V rated value         • at 420 V rated value         • at 48 V rated value         • at 48 V rated value         • at 48 V rated value         • at 600 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value	10 10 ms         Standard A1 - A2         on the front, non-detachable         2         2         10 A         6 A         3 A         2 A         10 A         6 A         3 A         2 A         10 A         0 A         0 A         0 A         0 A         0 A         0 A         10 A         0 A         10 A         1
• at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     design of the auxiliary switch     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 60 V rated value         • at 48 V rated value         • at 60 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 V rated value         • at 600 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value	10 10 ms         Standard A1 - A2         on the front, non-detachable         2         2         10 A         6 A         3 A         2 A         10 A         6 A         3 A         2 A         10 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 A         6 A         6 A         6 A         6 A         6 A
• at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     design of the auxiliary switch     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 48 V rated value         • at 110 V rated value         • at 125 V rated value         • at 220 V rated value         • at 24 V rated value	10 10 ms         Standard A1 - A2         on the front, non-detachable         2         2         10 A         6 A         3 A         2 A         10 A         6 A         3 A         2 A         10 A         6 A         3 A         2 A         1 A         10 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         2 A
<ul> <li>at AC</li> <li>arcing time</li> <li>control version of the switch operating mechanism</li> <li>Auxiliary circuit</li> <li>design of the auxiliary switch <ul> <li>number of NC contacts for auxiliary contacts instantaneous contact</li> <li>number of NO contacts for auxiliary contacts instantaneous contact</li> <li>operational current at AC-12 maximum</li> </ul> </li> <li>operational current at AC-15 <ul> <li>at 230 V rated value</li> <li>at 690 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 220 V rated value</li> <li>at 24 V rated value</li> </ul> </li> </ul>	10 10 ms         Standard A1 - A2         on the front, non-detachable         2         2         10 A         6 A         3 A         2 A         10 A         6 A         3 A         2 A         10 A         6 A         3 A         2 A         10 A         6 A         6 A         6 A         6 A         6 A         6 A         6 A         6 A         6 A         6 A         6 A         6 A         6 A         2 A         2 A         2 A         2 A
• at AC           arcing time           control version of the switch operating mechanism           Auxiliary circuit           design of the auxiliary switch           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 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 48 V rated value           • at 60 V rated value           • at 220 V rated value           • at 220 V rated value           • at 48 V rated value           • at 220 V rated value           • at 24 V rated value           • at 24 V rated value           • at 600 V rated value           • at 48 V rated value	10 10 ms Standard A1 - A2 on the front, non-detachable 2 2 10 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
<ul> <li>at AC</li> <li>arcing time</li> <li>control version of the switch operating mechanism</li> <li>Auxiliary circuit</li> <li>design of the auxiliary switch <ul> <li>number of NC contacts for auxiliary contacts instantaneous contact</li> <li>number of NO contacts for auxiliary contacts instantaneous contact</li> <li>operational current at AC-12 maximum</li> </ul> </li> <li>operational current at AC-15 <ul> <li>at 230 V rated value</li> <li>at 690 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 220 V rated value</li> <li>at 24 V rated value</li> </ul> </li> </ul>	10 10 ms         Standard A1 - A2         on the front, non-detachable         2         2         10 A         6 A         3 A         2 A         10 A         6 A         6 A         6 A         6 A         6 A         6 A         6 A         6 A         6 A         2 A         2 A         2 A         2 A

a at 600 V rated value	014			
at 600 V rated value				
contact reliability of auxiliary contacts UL/CSA ratings	1 faulty switching per 100 million (17 V, 1 mA)			
full-load current (FLA) for 3-phase AC motor				
at 480 V rated value	27 A			
at 400 V rated value	27 A			
	27 A			
yielded mechanical performance [hp]				
for single-phase AC motor	2 hz			
— at 110/120 V rated value	2 hp			
— at 230 V rated value	5 hp			
for 3-phase AC motor     at 200/208 V reted uplus	10 hz			
— at 200/208 V rated value	10 hp			
- at 220/230 V rated value	10 hp			
— at 460/480 V rated value	20 hp			
- at 575/600 V rated value	25 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: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA)			
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (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			
for the minute set of the set	backward by +/- 22.5° on vertical mounting surface			
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
height	85 mm			
width	45 mm			
depth	141 mm			
required spacing				
• with side-by-side mounting				
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	0 mm			
for grounded parts				
— forwards	10 mm			
— upwards	10 mm			
— at the side	6 mm			
— downwards	10 mm			
<ul> <li>for live parts</li> </ul>				
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	6 mm			
Connections/ Terminals				
type of electrical connection				
<ul> <li>for main current circuit</li> </ul>	screw-type terminals			
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals			
<ul> <li>at contactor for auxiliary contacts</li> </ul>	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 or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)			
<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>			
<ul> <li>for AWG cables for main contacts</li> </ul>	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 core end processing</li> </ul>	1 10 mm <sup>2</sup>			

<ul> <li>conscience searcher for auxiliary contacts</li> <li>a-solid or standed</li> <li>(1) 5 - 2.5 mm<sup>2</sup></li> <li>(2) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(2) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(2) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(2) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(2) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(2) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(2) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(3) 5 - 2.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(4) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(4) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(4) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(4) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(4) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(4) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(4) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(4) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(4) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(4) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(4) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(4) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(4) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(4) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(4) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(4) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(4) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(4) 5 - 1.5 mm<sup>3</sup>, 2x (0.75 - 2.5 mm<sup>2</sup>)</li> <li>(4) 5 - 1.5 m<sup>3</sup>, 2x (1.5 m<sup>3</sup>, 2x (1.5 - 1.5 m<sup>3</sup>, 2x</li></ul>	connectable conducto	r cross-section for aux	liary contacts					
<ul> <li>every strands with ore not processing</li> <li>0.5 2.5 mm<sup>2</sup></li> <li>Type Connectable conductor cross-sections</li> <li>every strands with contacts</li> <li>every strands with strands</li> <li>every stran</li></ul>			nary contacts	0.5	2.5 mm <sup>2</sup>			
type of connectable conductor cross-sections <ul> <li> <ul> <li></li></ul></li></ul>		ith core end processing						
<ul> <li>I or auxiliary contacts</li> <li>I o solid or stranded</li> <li>I</li></ul>			•	0.5 2.5 mm²				
<ul> <li>solid or strained</li> <li>solid or strained</li> <li>findly strained with ore and processing</li> <li>for XWC cables for auxiliary contacts</li> <li>for ania contacts</li> <li>for ania</li></ul>			•					
<ul> <li>- fmely standed with one end processing 2x (0.75 15 mm<sup>2</sup>) 2x (0.75 25 mm<sup>2</sup>) 2x (0.75 2</li></ul>				2x (0)	$5 + 1.5 \text{ mm}^2$ $2x (0.75)$	$2.5 \text{ mm}^2$		
<ul> <li>che rAVIG cabelles er auxiliary contracts</li> <li>24 (20 16), 2x (18 14)</li> <li>Area conductor cross</li> <li>a contracts</li> <li>a contracts</li> <li>a contracts</li> <li>a contracts</li> <li>a contract according to IEC 80947-4-1</li> <li>b contract according to IEC 80947-5-1</li> <li>b contracts</li> <li>a contract according to IEC 80947-5-1</li> <li>b contract according to IEC 80947-5-1</li> <li>c contract according to IEC 80949-2</li> <li>c contract according to IEC 80947-5-1</li></ul>			ing					
AWE mumber as coded connectable conductor cross       16 8         is real-constrated.       16 8         is real-constrated.       20 I         Status real-constrate according to EC 60947-4-1       Yes         is constrated according to EC 60947-6-1       No         is constrated according to EN 31920       40 %         is constrated according to EN 31920       1000 000         filture rate (FTM) with bru demand rate according to EN 31920       1000 000         filture rate (FTM) with bru demand rate according to EC 60920       Type A         recerting to EC 61934-1       3         servertine status according to EC 60920       Type A         recerting to EC 61930-2       Type A         recerting to EC 61930-3       FE20         recerting to EC 61932       FE20         recerting to EC 61932       FE3			ang			2.5 mm <sup>-</sup> )		
$ \begin{array}{c c c c c } \text{second} & is for an activation according to IEC 60947-51 & Yes & Interference of the constraint of the IEC 60947-51 & Yes & Interference of the constraint of the CO0000 & Yes & Interference of the constraint of the CO0000 & Yes & Interference of the constraint of the CO0000 & Yes & Interference of the constraint of the CO0000 & Interference of the constraint of the c$				28 (20	2x (20 16), 2x (18 14)			
<ul> <li>in raudiary contacts</li> <li>2014</li> <li>Staty routed data</li> <li>Inform contact according to IEC 60947-5-1</li> <li>No</li> <li>Subtrative data resultance of the contact for state of the contact for stat</li></ul>			or cross					
Safety related data <ul> <li>Product function</li> <li>Initro contait according to IEC 60947-6-1</li> <li>Solitwey driven operation according to IEC 60947-6-1</li> <li>Subtable for safety function</li> <li>Subtable for sa</li></ul>								
product function <ul> <li>intror contact according to IEC 60947-4-1</li> <li>isolitable for asfery function</li> <li>isolitable for ascording to ISO 13920</li> <li>isolitable for ascording to ISO 13849-1</li> <li>isolitable for ascording to IEC 6198-2</li> <li>isolitable for ascording to IEC 6198-2</li> <li>isolitable for ascording to IEC 60529</li> <li>iproval</li> <li>isolitable for the fort according to IEC 60529</li> <li>iproval</li> <li>isolitable for ascerving to IEC 60529</li> <li>iproval</li> <li>isolitable for ascerving to IEC 60529</li> <li>iproval</li> <li>isolitable for the fort according to IEC 60529</li> <li>iproval</li> <li>isolitable for ascerving to IEC 60529</li> <li>iproval</li> <li>isolitable for ascerving to IEC 60529</li> <li>iproval</li> <li>isolitable for ascerving to IEC 60529</li> <li>iproval</li> <li>isolitable for ascording t</li></ul>		acts		20	14			
<ul> <li>initial contact according to EC 60947-5-1</li> <li>isolately driven operation according to SN 31920</li> <li>isolately driven operation according to ISO 13849-1</li> <li>isolately driven operation according to ISO 13849-2 necessary</li> <li>isolately driven operation according to IEC 61908-2</li> <li>isolately driven operation according</li></ul>	Safety related data							
<ul> <li> <ul> <li></li></ul></li></ul>	•							
• suitable for safety function     Yes       suitability for use safety-related switching OFF     Yes       evervice life maximum     20 a       1 out how demand rate according to SN 31920     40 %       • with high demand rate according to SN 31920     1000 000       1 status with high demand rate according to SN 31920     1000 000       1 status with high demand rate according to SN 31920     1000 000       1 status with high demand rate according to SN 31920     1000 1000       1 status with high demand rate according to SN 31920     1000 1000       1 status with high demand rate according to SN 31920     1000 FT       1 status with high demand rate according to SN 31920     1000 FT       1 status with high demand rate according to SN 31920     1000 FT       1 status with high demand rate according to ISO 13849-2 mecessary     Yes       1 status with high demand rate according to IEC 60529     Type A       Electrical Stately     Ft20       1 status Certificaties     Inter-safe, for vertical contact from the front       2 status Certificaties     Ft20       1 status Certificaties     Inter-safe, for vertical contact from the front       2 status Certificaties     Inter-safe, for vertical contact from the front       2 status Certificaties     Inter-safe, for vertical contact from the front       2 status Certificaties     Inter-safe, for vertical contact from the front	<ul> <li>mirror contact according</li> </ul>	cording to IEC 60947-4-1		Yes	/es			
suitability for use safety-related switching OFF 20 a service life maximum 20 a % service life a service l	<ul> <li>positively driven of</li> </ul>	operation according to IE	C 60947-5-1	No				
service life maximum       20 a         test wear-related service life necessary       Yes         proportion of dangrous failures       40 %         • with high demand rate according to SN 31920       40 %         • with high demand rate according to SN 31920       73 %         1000 rate with high demand rate according to SN 31920       73 %         1000 rate (FTT) with low demand rate according to SN 31920       1000 FTT         failure rate [FTT] with low demand rate according to SN 31920       3         overdimensioning according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61500       overdimensioning according to ISO 60529       Type A         Electrical Safety       protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       Inger-safe, for vertical contact from the front According to IEC 60529       Inger-safe, for vertical contact from the front According to IEC 60529         Centeral Product Approval       EMV       Functional Safety       Tast Centificates         General Product Approval       EMV       Functional Safety       Tast Centificates         Marine / Shipping       Image: Safety Centificates       Safety Centificates       Image: Safety Centificates         Marine / Shipping       Image:	<ul> <li>suitable for safety</li> </ul>	/ function		Yes				
test wear-related service life necessary       Yes         proportion of dangerous failures       40 %         • with low demand rate according to SN 31920       73 %         B10 value with high demand rate according to SN 31920       1000 000         failure rate f[T] with low demand rate according to SN 31920       1000 000         SN 13849       0         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       safety device type according to IEC 61508-2       Type A         Electrical Safely       more rate according to IEC 61508-2       IP20         protection class IP on the front according to IEC 60529       IP20       Incertain form the front         Approvals Certificates       cccc       Confirmation         Approvals Certificates       Edvice type according to IEC 60529       IP20         forward Product Approval       Edvice type according to IEC 60529       IP20         forward Product Approval       Edvice type according to IEC 60529       IP20         forward Product Approval       Edvice type according to IEC 60529       Incertain according to IEC 60529         forward Product Approval       Edvice type according to IEC 60529       Incertain according to IEC 60529       Incertain according to IEC 60529         fo	suitability for use safety-	-related switching OFF		Yes				
proportion of dangerous failures     40 %       • with high demand rate according to SN 31920     40 %       • with high demand rate according to SN 31920     1000 000       failure rate [FT] with low demand rate according to SN 31920     1000 FT       strate grant rate [FT] with low demand rate according to SN 31920     1000 FT       strate grant rate [FT] with low demand rate according to SN 31920     3       overdimensioning according to ISO 13849-1     3       overdimensioning according to ISO 13849-2 necessary     Yes       IEC 61508     FT       safety device type according to ISO 13849-2 necessary     Yes       IEC 61508     Impersafe, for vertical contact from the front according to IEC 60529       protection class IP on the front according to IEC 60529     IP20       touch protection on the front according to IEC 60529     IP20       formation     time rate for vertical contact from the front According to IEC 60529       General Product Aproval     EMV     Functional Safey       for safe, for vertical contact from the front according to IEC 60529     IP20       formation     EMV     Functional Safey       for safe, for vertical contact from the front according to IEC 60529     IP20       formation     EMV     Functional Safey     Image: Safey Gevertice	service life maximum			20 a				
<ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>Ta %</li> <li>Ta %</li></ul>	test wear-related servi	ice life necessary		Yes				
• with high demand rate according to SN 31920       73 %         B10 value with high demand rate according to SN 31920       1 000 000         failur cate [FT] with low demand rate according to SN       100 FT         SN 13849       0 VERT         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       Yes         safety device type according to IEC 61508-2       Type A         Electrical Safety       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         Approvals CartIff Teals       Imager-safe, for vertical contact from the front         General Product Approvals       EMV       Punctional Safey         for safey       EMV       Punctional Safey         File Safey       Imager-safe, for vertical contact from the front         Soferal Product Approvals       EMV       Punctional Safey         for safey       EMV       Punctional Safey       Imager-safe, for vertical contact from the front         for safey       EMV       Punctional Safey       Imager-safe, for vertical contact from the front         for safe       EMV       Punctional Safey       Imager-safe, for vertical contact from the front         for safe <td< td=""><td>proportion of dangero</td><td>us failures</td><td></td><td></td><td></td><td></td><td></td></td<>	proportion of dangero	us failures						
• with high demand rate according to SN 31920       73 %         B10 value with high demand rate according to SN 31920       1 000 000         failur cate [FT] with low demand rate according to SN       100 FT         SN 13849       0 VERT         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       Yes         safety device type according to IEC 61508-2       Type A         Electrical Safety       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         Approvals CartIff Teals       Imager-safe, for vertical contact from the front         General Product Approvals       EMV       Punctional Safey         for safey       EMV       Punctional Safey         File Safey       Imager-safe, for vertical contact from the front         Soferal Product Approvals       EMV       Punctional Safey         for safey       EMV       Punctional Safey       Imager-safe, for vertical contact from the front         for safey       EMV       Punctional Safey       Imager-safe, for vertical contact from the front         for safe       EMV       Punctional Safey       Imager-safe, for vertical contact from the front         for safe <td< td=""><td><ul> <li>with low demand</li> </ul></td><td>rate according to SN 319</td><td>20</td><td>40 %</td><td></td><td></td><td></td></td<>	<ul> <li>with low demand</li> </ul>	rate according to SN 319	20	40 %				
failure rate [FIT] with low demand rate according to SN     100 FIT       SN 13849     3       device type according to ISO 13849-1     3       overdimensioning according to ISO 13849-2 necessary     Yes       IEC 81508     safety device type according to IEO 81508-2     Type A       Electrical Safely     IP20       protection cats IP on the front according to IEC 60529     Inger-safe, for vertical contact from the front       Approvals Certificates     IP20       General Product Aproval     EMV       FileAler     Image: Safety device type according to IEC 80529       Confirmation     Image: Safety device type according to IEC 80529       General Product Aprovals     EMV       FileAler     Image: Safety device type according to IEC 80529       Image: Safety device type according to IEC 80529     Image: Safety device type according to IEC 80529       General Product Aprovals     EMV       FileAler     Image: Safety device type according to IEC 80529       Image: Safety device type according to IEC 80529     Image: Safety device type according to IEC 80529       Image: Safety device type according to IEC 80529     Image: Safety device type according to IEC 80529       General Product Aproval     EMV     Functional Safety     Type Test Certifice ates Trest Certifice ates Trest Report       Image: Safety device type according to IEC 80529     Image: Safety device type according to IEC	<ul> <li>with high demand</li> </ul>	d rate according to SN 31	920	73 %				
31920       INO       3         ISO 13849       Gevice type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       safety device type according to IEC 61508-2       Type A         Electrical Safety       IP20         protection class IP on the front according to IEC 60529       IP20         touch protection class IP on the front according to IEC 60529       Inger-safe, for vertical contact from the front         Approvals Certificates       General Product Approval       KC         General Product Approval       EMV       Functional Saftey       KC         General Product Approval       EMV       Functional Saftey       Inger-safe, for verticates       Marine / Shipping         Marine / Shipping       Inger-safe, for verticates       Marine / Shipping       KC         Marine / Shipping       Inger-safe, for verticates       Marine / Shipping         If Safety       Functional Saftey       Type Test Certificates       Marine / Shipping         Marine / Shipping       Inger-safe, for verticates       Type Test Certificates       Type Test Certificates       Type Test Certificates         Marine / Shipping       Inger-safe, for verticates       Inger-safe, for verticates       Inger-safe, for verticates       Inger-safe, for verticates </td <td>B10 value with high de</td> <td>emand rate according to</td> <td>SN 31920</td> <td colspan="4"></td>	B10 value with high de	emand rate according to	SN 31920					
device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       Safety device type according to ISO 13849-2 necessary       Yes         IEC 61508       Type A         Electrical Safety       IP20         protection class IP on the front according to IEC 60529       Inger-safe, for vertical contact from the front         Approvals Certificates       Imager-safe, for vertical contact from the front         General Product Approval       EMV       Functional Safety         Effect       Imager-safe, for vertical contact from the front       KC         General Product Approvals       Imager-safe, for vertical contact from the front       KC         Effect       EMV       Functional Safety       Imager-safe, for vertical contact from the front         Figure S       Imager-safe, for vertical contact from the front       KC         General Product Approvals       Imager-safe, for vertical contact from the front       KC         If contact Approvals       Imager-safe, for vertical contact from the front       KC         If contact Approvals       Imager-safe, for vertical contact from the front       KC         If contact Approvals       Imager-safe, for vertical contact from the front       KC         If contact Approvals       Imager-safe, for vertical conta		ow demand rate accord	ing to SN					
overdimensioning according to ISD 13849-2 necessary       Yes         IEC 61508       IEC 61508         safety device type according to IEC 61508-2       Type A         Electrical Safety       protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       IP20         ceneral Product Approvals       Confirmation         General Product Approval       EMV       Functional Safety         Forval       EMV       Functional Safety         Marine / Shipping       Special Test Certificates       Marine / Shipping         Marine / Shipping       Special Test Certificates       Type Test Oertificates         Marine / Shipping       Special Test Certificates       Type Test Oertificates         Marine / Shipping       Special Test Certificates       Type Test Oertificates         Marine / Shipping       Special Test Certificates       Type Test Oertificates         Marine / Shipping       Special Test Certificates       Type Test Oertificates         Special Test Spingers       Special Test Certificates       Special Test Certificates         Marine / Shipping       Special Test Certificates	ISO 13849							
IEC 61508         safety device type according to IEC 61508-2       Type A         Electrical Safety       protection class IP on the front according to IEC 60529       IP20         fortection on the front according to IEC 60529       Inger-safe, for vertical contact from the front         Approvals Certificates       General Product Approval         General Product Approval       EMV       Functional Safety       Test Certificates         General Product Approval       EMV       Functional Safety       Test Certificates       Marine / Shipping         Marine / Shipping       EMV       Functional Safety       Special Test Certificates       Type Test Certificates         Marine / Shipping       Exc       Special Test Certificates       Type Test Certificates       Special Test Certificates         Marine / Shipping       Exc       Special Test Certificates       Type Test Certificates       Special Test Certificates       Speci	device type according	to ISO 13849-1		3				
IEC 61508         safety device type according to IEC 61508-2       Type A         Electrical Safety       protection class IP on the front according to IEC 60529       IP20         fortection on the front according to IEC 60529       Inger-safe, for vertical contact from the front         Approvals Certificates       General Product Approval         General Product Approval       EMV       Functional Safety       Test Certificates         General Product Approval       EMV       Functional Safety       Test Certificates       Marine / Shipping         Marine / Shipping       EMV       Functional Safety       Special Test Certificates       Type Test Certificates         Marine / Shipping       Exc       Special Test Certificates       Type Test Certificates       Special Test Certificates         Marine / Shipping       Exc       Special Test Certificates       Type Test Certificates       Special Test Certificates       Speci	overdimensioning acc	ording to ISO 13849-2 n	ecessary					
Electrical Safety         IP20         touch protection on the front according to IEC 60529         Inger-safe, for vertical contact from the front         Approvals Certificates         General Product Approval         EMV       Functional Saftey       Confirmation       KC         General Product Approval       EMV       Functional Saftey       Test Certificates       Marine / Shipping         Image: Safety       Image: Safety       Test Certificates       Marine / Shipping         Image: Safety       Image: Safety       Image: Safety       Image: Safety       Image: Safety         Image: Safety       <	-							
Electrical Safety         IP20         touch protection on the front according to IEC 60529         Inger-safe, for vertical contact from the front         Approvals Certificates         General Product Approval         EMV       Functional Saftey       Confirmation       KC         General Product Approval       EMV       Functional Saftey       Test Certificates       Marine / Shipping         Image: Safety       Image: Safety       Test Certificates       Marine / Shipping         Image: Safety       Image: Safety       Image: Safety       Image: Safety       Image: Safety         Image: Safety       <	safety device type acc	ording to IEC 61508-2		Type A				
protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       Inger-safe, for vertical contact from the front         Approvals Certificates       General Product Approval       Confirmation         General Product Ap- proval       EMV       Functional Saftey       Certificates       Marine / Shipping         General Product Ap- proval       EMV       Functional Saftey       Test Certificates       Type Test Certific- ate       Type Test Certific- ate       Marine / Shipping         Marine / Shipping       If the formation is the formation       Emprovance       Special Test Certific- ate       Type Test Certific- ate       Type Test Certific- ate       Type Test Certific- ate       Type Test Certific- ate       If the certific- ate		0		· jport				
Inder-safe, for vertical contact from the front         Approvals Certificates         General Product Approval         EK-Konf.         EMV         Functional Saftey         Test Certificates         Marine / Shipping         Marine / Shipping         Marine / Shipping         Marine / Shipping         Image: Safe for vertical contact from the front	protection class IP on	the front according to I	EC 60529	IP20				
Approvals Certificates         General Product Approval       USA       Image: Confirmation states       Image: Confirmation states       KC         General Product Approval       EMV       Functional Saftey       Test Certificates       Marine / Shipping         Image: Confirmation certificate       Image: Confirmation certificate       Special Test Certificate       Type Test Certificates       Image: Confirmation certificate         Image: Confirmation certificate       Image: Confirmation certificate       Special Test Certificate       Type Test Certificates       Image: Confirmation certificate         Image: Confirmation certificate       Image: Confirmation certificate       Image: Confirmation certificate       Image: Confirmation certificate       Image: Confirmation certificate         Image: Confirmation certificate       Image: Confirmation certificate       Image: Confirmation certificate       Image: Confirmation certificate       Image: Confirmation certificate         Image: Confirmation certificate       Image: Confirmation certificate       Image: Confirmation certificate       Image: Confirmation certificate       Image: Confirmation certificate         Image: Confirmation certificate       Image: Confirmation certificate       Image: Confirmation certificate       Image: Confirmation certificate       Image: Confirmation certificate         Image: Confirmation certificate       Image: Confirmatice       Image: Confirmatice	•	-						
General Product Approval       Confirmation       EC         General Product Apper Examination Cerrer Special Test Certificates       Marine / Shipping         General Product Apper Examination Cerrer Special Test Certificates       Type Test Certificates       Marine / Shipping         Marine / Shipping       Type Examination Cerrer Special Test Certificates       Type Test Certificates       Type Test Certificates         Marine / Shipping       Type Examination Cerrer Special Test Certificates       Type Test Certificates       Type Test Certificates         Marine / Shipping       EMV       EMV       Special Test Certificates       Type Test Certificates         Marine / Shipping       EME       Special Test Certificates       Type Test Certificates       Special Test Certificates         Marine / Shipping       EME       Special Test Certificates       Type Test Certificates       Special Test Certificates	•	Ū						
Confirmation Confirmation   General Product Apporal EMV   Functional Saftey Test Certificates   Marine / Shipping   Image: Special Test Certification Certific	General Product Appr	oval						
General Product Ap- proval       EMV       Functional Saftey       Test Certificates       Marine / Shipping         EME       Image: Special Test Certificate       Type Test Certificate       Type Test Certificate       Image: Special Test Certificate       Imag								
General Product Ap- proval       EMV       Functional Saftey       Test Certificates       Marine / Shipping         EME       Image: Special Test Certificate       Type Test Certificate       Type Test Certificate       Image: Special Test Certificate       Imag	CE	UK	$(\mathbf{m})$		<b>Confirmation</b>		<u>KC</u>	
proval       Env       Functional safety       rest certificates       Type Test Certificate       Marine / Shipping         Marine / Shipping       RCM       Type Examination Certificate       Special Test Certificates       Type Test Certificates       Image: Stress Report       Image: Stress Report       Image: Stress Report         Marine / Shipping       Image: Stress Report       Image: S	EG-Konf.	CA						
proval       Env       Functional safety       rest certificates       Type Test Certificate       Marine / Shipping         Marine / Shipping       RCM       Type Examination Certificate       Special Test Certificates       Type Test Certificates       Image: Stress Report       Image: Stress Report       Image: Stress Report         Marine / Shipping       Image: Stress Report       Image: S								
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Image: Second secon	<b>F</b>							
RCM RCM     Marine / Shipping     other     Miscellaneous     Miscellaneous     Miscellaneous	101	Â		on Cer-			1	
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Image: Second								
	Marine / Shipping					other		
VERITAS		۴ Å				Miscellaneous	Confirmation	
VERITAS		DINA			W			
other Railway Environment	BUREAU VERITAS	DNV	RINA		RMRS			
	other	Railway	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=3RT2027-1AK64-3MA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2027-1AK64-3MA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-1AK64-3MA0

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

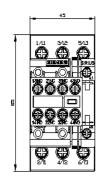
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2027-1AK64-3MA0&lang=en

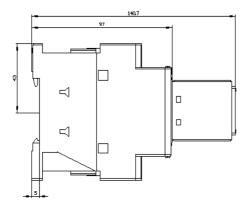
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

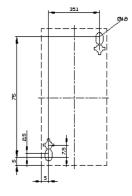
https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-1AK64-3MA0/char

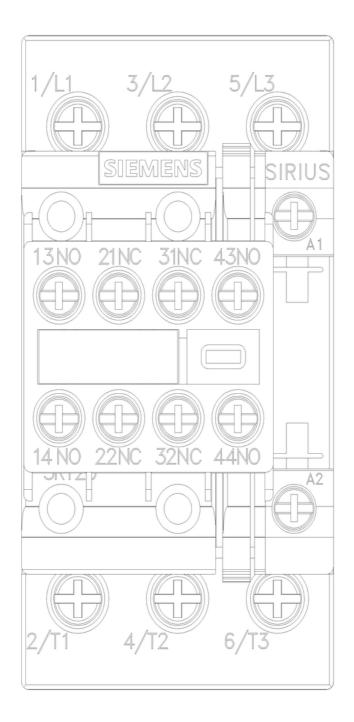
Further characteristics (e.g. electrical endurance, switching frequency)

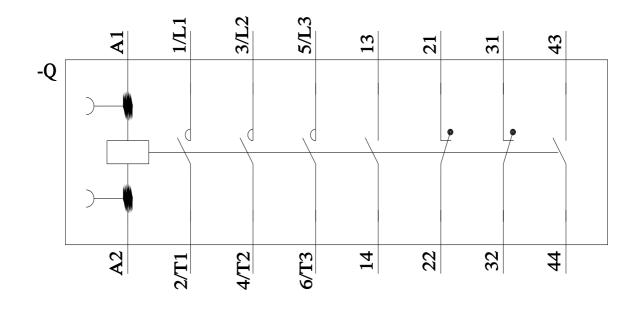
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2027-1AK64-3MA0&objecttype=14&gridview=view1











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