## SIEMENS

## Data sheet

## 3RT2024-1AK60



power contactor, AC-3 12 A, 5.5 kW / 400 V 1 NO + 1 NC, 110 V AC, 50 Hz 120 V, 60 Hz, 3-pole Size S0, screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	0.9 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.3 W
<ul> <li>without load current share typical</li> </ul>	7.9 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7,5g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,8g / 5 ms, 7,4g / 10 ms
mechanical service life (switching cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	40 A
● at AC-1	
<ul> <li>— up to 690 V at ambient temperature 40 °C rated value</li> </ul>	40 A
— up to 690 V at ambient temperature 60 °C rated value	35 A
• at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	12.5 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	35.2 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	9.9 A
● at AC-6a	
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	11.4 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	11.4 A
<ul> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	11.3 A
— up to 690 V for current peak value n=20 rated value	9 A
<ul> <li>at AC-6a         <ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul> </li> </ul>	7.6 A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	7.6 A
<ul> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>	7.6 A
<ul> <li>— up to 690 V for current peak value n=30 rated value</li> </ul>	7.6 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating	10 mm <sup>2</sup>
cycles at AC-4	
• at 400 V rated value	5.5 A
at 690 V rated value	5.5 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
- at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	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-3	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	2.6 kW
• at 690 V rated value	4.6 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	4.5 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	7.8 kVA
• up to 500 V for current peak value n=20 rated value	9.8 kVA
• up to 690 V for current peak value n=20 rated value	10.7 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	3 kVA
• up to 400 V for current peak value n=30 rated value	5.2 kVA
• up to 500 V for current peak value n=30 rated value	6.5 kVA
• up to 690 V for current peak value n=30 rated value	9 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>	210 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	210 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	162 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	103 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	88 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	1 000 1/h
• at AC-3 maximum	1 000 1/h

a at AC 20 maximum	1 000 1/b
at AC-3e maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	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	68 VA
• at 60 Hz	67 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
• at 60 Hz	0.74
apparent holding power of magnet coil at AC	
• at 50 Hz	7.9 VA
• at 60 Hz	6.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.28
closing delay	
• at AC	8 40 ms
opening delay	
• at AC	4 16 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	
• at 500 V rated value	3 A
	3 A 2 A
at 690 V rated value	
at 690 V rated value     operational current at DC-12	2 A
	2 A
operational current at DC-12	2 A 1 A
• at 24 V rated value	2 A 1 A 10 A
<ul> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> </ul>	2 A 1 A 10 A 6 A
<ul> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> </ul>	2 A 1 A 10 A 6 A 6 A
<ul> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul>	2 A 1 A 10 A 6 A 6 A 3 A
<ul> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> </ul>	2 A 1 A 10 A 6 A 6 A 3 A 2 A
operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A
operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A
operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A
<ul> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 10 V rated value</li> </ul> </li> </ul>	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A
operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value	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 10 A
operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 2 A 10 A 2 A 10 A 2 A 1 A 10 A 2 A 1 A
<ul> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul> </li> </ul>	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A
operational current at DC-12         • at 24 V rated value         • at 48 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 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	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.3 A
operational current at DC-12         • at 24 V rated value         • at 48 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         • at 60 V rated value         • at 10 V rated value         • at 125 V rated value         • at 60 V rated value         • at 220 V rated value         • at 60 V rated value         • at 125 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A
operational current at DC-12         at 24 V rated value         at 48 V rated value         at 60 V rated value         at 110 V rated value         at 125 V rated value         at 220 V rated value         at 600 V rated value         at 600 V rated value         at 600 V rated value         at 24 V rated value         at 24 V rated value         at 48 V rated value         at 60 V rated value         at 110 V rated value         at 125 V rated value         at 220 V rated value         at 60 V rated value         at 125 V rated value         at 125 V rated value         at 220 V rated value         at 220 V rated value         at 220 V rated value         at 600 V rated value	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A

yielded mechanical performance [hp]         • for single-phase AC motor         - at 110/120 V rated value         1 hp         - at 230 V rated value         • for 3-phase AC motor         - at 200/208 V rated value         3 hp         - at 220/230 V rated value         3 hp         - at 460/480 V rated value         7.5 hp         - at 575/600 V rated value         10 hp         contact rating of auxiliary contacts according to UL         A600 / P600         Short-circuit protection         design of the fuse link         • for short-circuit protection of the main circuit         - with type of coordination 1 required         gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)	● at 600 V rated value	11 A
• for single-phase AC motor         1 hp		
		1 hp
• for 3-pbase AC motor             3 hp               - at 200208 V rated value             3 hp               - at 200230 V rated value             3 hp               - at 360/480 V rated value             7.5 hp               - at 360/480 V rated value             10 hp               contact rating of auxiliary contacts according to UL             A800 / P600               design of the fuse link             • for stort-clicul protection of the main circuit               - with type of contination 1 required             gG: 63A (690V, 100KA), att/ 32A (690V, 100KA), B588: 63A (415V.80KA               - with type of assignment 2 required             gG: 63A (690V, 100KA), att/ 32A (690V, 100KA), B588: 63A (415V.80KA               - with type of oscitalizity ovidicing on the auxiliary switch required             gG: 63A (690V, 100KA), att/ 32A (690V, 100KA), B588: 63A (415V.80KA               - with type of oscital mounting             GG: 63A (690V, 100KA), att/ 32A (690V, 100KA), B588: 63A (415V.80KA               - with side-by-side mounting             GG: 63A (690V, 100KA), att/ 32A (690V, 100KA), B588: 63A (415V.80KA               - with side-by-side mounting             - for add and backward to backward and backward and backward and backward and backward to backward and backwar		
		2 110
		3 hn
contact rating of auxiliary contacts according to UL       A600 / P600         Short-zircuit protection of the main circuit       -         - with type of coordination 1 required       gG: 63A (690V, 100kA), aM: 32A (690V, 100kA), BS8: 63A (415V 80kA)         - with type of assignment 2 required       gG: 63A (690V, 100kA), aM: 32A (690V, 100kA), BS8: 63A (415V 80kA)         - with type of assignment 2 required       gG: 63A (690V, 100kA), aM: 32A (690V, 100kA), BS8: 63A (415V 80kA)         - with type of assignment 2 required       gG: 60A (690V, 100kA), aM: 32A (690V, 100kA), BS8: 63A (415V 80kA)         - with side order of the auxiliary switch       required         required spacing       +/180 <sup>o</sup> rotation possible on vertical mounting surface         - side-by-side mounting       -/180 <sup>o</sup> rotation mounting onto 35 mm standard mounting rail according to DIN EN 60715         - side-by-side mounting       -/180 <sup>o</sup> rotation mounting onto 35 mm standard mounting rail according to DIN EN 60715         - with side-by-side mounting       -/180 <sup>o</sup> rotation mounting surface         - with side-by-side mounting       -/180 <sup>o</sup> rotation mounting surface         - with side-by-side mounting       -/100 <sup>o</sup> rotation         - with side-by-side mounting	— at 575/600 V rated value	
design of the fuse link <ul> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch</li> <li>reguired</li> </ul> Installation/ mounting/ dimensions <ul> <li>for short-circuit protection of the auxiliary switch</li> <li>reguired</li> <li>fastening method</li> <li>side-by-side mounting</li> <li>yes</li> <li>side-by-side mounting</li> <li>Yes</li> </ul> height <ul> <li>fastening method</li> <li>side-by-side mounting</li> <li>Yes</li> </ul> height              45 mm <ul> <li>depth</li> <li>ger on addition mounting aurface; can be tilted forward and backward by +2 22.5° on vertical mounting surface; can be tilted forward and backward by +2 22.5° on vertical mounting surface; see wand snap-on mounting non 0.35 mm standard mounting real according to DN EN 60715</li> <li>Yes</li> </ul> height              45 mm         depth              45 mm <li>ediversits side</li> 0 mm             0 mm             0 mm <li>for avards</li> 10 mm <li>downwards</li> 0 mm <li>downwards</li> <li>on mounting or control circuit</li> <li>screw-type terminals</li> <li>screw-type terminals<!--</td--><td>contact rating of auxiliary contacts according to UL</td><td></td></li>	contact rating of auxiliary contacts according to UL	
for short-circuit protection of the main circuit         —with type of coordination 1 required         G: 63A (690V,100KA), aM: 32A (690V,100KA), BS88: 63A (415V,80KA         G: 52A (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), BS88: 63A (415V,80KA         G: 50 SA (690V,100KA), BS88: 63A (415V,80KA         G: 50 SA (690V,100KA), BS88: 63A (415V,80KA         G: 50 SA (690V,100KA), BS88: 63A (415V,80KA         Git main contacts         Side store and particle store and particle store and particle store and partisla store and particle	Short-circuit protection	
for short-circuit protection of the main circuit         —with type of coordination 1 required         G: 63A (690V,100KA), aM: 32A (690V,100KA), BS88: 63A (415V,80KA         G: 52A (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), aM: 22A (690V,100KA), BS88: 63A (415V,80KA         G: 52 SA (690V,100KA), BS88: 63A (415V,80KA         G: 50 SA (690V,100KA), BS88: 63A (415V,80KA         G: 50 SA (690V,100KA), BS88: 63A (415V,80KA         G: 50 SA (690V,100KA), BS88: 63A (415V,80KA         Git main contacts         Side store and particle store and particle store and particle store and partisla store and particle		
with type of assignment 2 required     gG: 25A (690V, 100kA), BX88: 25A (415V,80kA)       • for short-circuit protection of the auxiliary switch required     gG: 10 A (500 V, 1 kA)       mounting position    /180° rotation possible on vertical mounting surface; can be tilled forward and backward by 7-/22.5° on vertical mounting surface; can be tilled forward and backward by 7-/22.5° on vertical mounting surface; can be tilled forward and backward by 7-/22.5° on vertical mounting surface; can be tilled forward and backward by 7-/22.5° on vertical mounting surface; can be tilled forward and backward by 7-/22.5° on vertical mounting surface; can be tilled forward and backward by 7-/22.5° on vertical mounting surface; can be tilled forward and backward by 7-/22.5° on vertical mounting surface; can be tilled forward and backward by 7-/22.5° on vertical mounting surface; can be tilled forward and backward by 7-/22.5° on vertical mounting surface; can be tilled forward and backward by 7-/22.5° on vertical mounting surface; can be tilled forward and backward by 7-/22.5° on vertical mounting surface; can be tilled forward and backward by 7-/22.5° on vertical mounting surface; can be tilled forward and backward by 7-/22.5° on vertical mounting surface; can be tilled forward and backward by 7-/22.5° on vertical mounting surface; can be tilled forward and backward by 7-/22.5° on vertical mounting surface; can be tilled forward and backward by 7-/22.5° on vertical mounting surface; can be tilled forwards formation forwards formation forwards formation forwards formation forwards formation forwards for any formation forwards formation forwards formation forwards forwards formation formation forwards formation forwards formation	•	
• for short-circuit protection of the auxiliary switch required       gG: 10 A (500 V, 1 kA)         Installation/ mounting/ dimensions       4/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by 4/-285° on vertical mounting surface; can be tilted forward and backward by 4/-285° on vertical mounting surface; can be tilted forward and backward by 4/-285° on vertical mounting surface; can be tilted forward and backward by 4/-285° on vertical mounting surface; can be tilted forward and backward by 4/-285° on vertical mounting surface; can be tilted forward and backward by 4/-285° on vertical mounting surface; can be tilted forward and backward by 4/-285° on vertical mounting surface; can be tilted forward and backward by 4/-285° on vertical mounting surface; can be tilted mounting or to 35 mm standard mounting rail according to DIN EN 60715         • side-by-side mounting       Yes         • elight       45 mm         • depth       97 mm         required spacing       10 mm         • onwards       10 mm         - downwards       10 mm         - at the side       0 mm         - forwards       10 mm         - onwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - orbards       10 mm         - downwards       10 mm         - of onwards       10 mm	— with type of coordination 1 required	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)
Installation/mounting/dimensions       mounting position       fastening method       side-by-side mounting       + side-by-side mounting       + side-by-side mounting       - with side-by-side mounting       - with side-by-side mounting       - required spacing       • with side-by-side mounting       - forwards       - upwards       - downwards       - downwards       - downwards       - forwards       - downwards       - forwards       - forwards       - downwards       - forwards       - forwards       - downwards       - forwards       - forwards       - forwards       - forwards       - forwards       - forwards       - at the side       - downwards       - torwards       - torwards <td><ul> <li>— with type of assignment 2 required</li> </ul></td> <td>gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)</td>	<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
Installation/ mounting/ dimensions         +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface; fastening method           • side-by-side mounting         Serve and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715           • height         B5 mm           width         45 mm           depth         97 mm           • euried spacing         97 mm           • uth side-by-side mounting         10 mm           - powrads         10 mm           - upwards         10 mm           - downwards         10 mm           - foreauliary and control circuit         screw-	<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 10 A (500 V, 1 kA)
mounting position         +/180° rotation possible on vertical mounting surface; can be tilled forward and backward by +/. 22.5° 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         97 mm           • with side-by-side mounting         97 mm           - forwards         10 mm           - upwards         10 mm           - downwards         10 mm           - downward		
forward and backward by 4+.22.5° mm           fastening method          screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715           height         85 mm           width         45 mm           depth         97 mm           required spacing         97 mm           • with side-by-side mounting         10 mm           - powards         10 mm           - downwards         10 mm           - forwards         10 mm           - downwards         10 mm           - forwards         10 mm           - forwards         10 mm           - forwards         10 mm           - soid	Installation/ mounting/ dimensions	
fastening method       screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715         height       85 mm         width       85 mm         depth       97 mm         required spacing       97 mm         • with side-by-side mounting       97 mm         - forwards       10 mm         - upwards       10 mm         - downwards       0 mm         - downwards       10 mm         - of rawidiary and control circuit       screw-type terminals         screw-type terminals       screw-type terminals	mounting position	
• side-by-side mounting     Yes       height     85 mm       width     45 mm       depth     97 mm       required spacing     • with side-by-side mounting       - forwards     10 mm       - upwards     10 mm       - downwards     00 mm       - downwards     10 mm       - at the side     0 mm       - forwards     10 mm       - forwards     10 mm       - upwards     10 mm       - forwards     10 mm       - upwards     10 mm       - forwards     10 mm       - upwards     10 mm       - downwards     10 mm       - upwards     10 mm       - downwards     10 mm       - downwards     10 mm       - at the side     6 mm       Connections/ Terminals     5 crew-type terminals       type of electrical connection     screw-type terminals       • for main current circuit     screw-type terminals       • of main current circuit     screw-type terminals       • of ormain current circuit     screw-type terminals       • of ormain contacts     - solid       - solid     Screw-type terminals       • of main contacts     - solid       - solid or stranded     2x (1 25 mm <sup>2</sup> ), 2x (2.5 10 m	factoring method	
• side-by-side mounting       Yes         height       85 mm         width       45 mm         depth       97 mm         required spacing       97 mm         • with side-by-side mounting       0 mm         - forwards       10 mm         - upwards       0 mm         - downwards       0 mm         - at the side       0 mm         - forwards       10 mm         - downwards       10 mm         - forwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - so	rastening method	
height       85 mm         width       45 mm         depth       97 mm         required spacing       97 mm         • with side-by-side mounting       97 mm         - forwards       10 mm         - upwards       10 mm         - downwards       0 mm         - downwards       10 mm         - at the side       0 mm         - forgrounded parts       10 mm         - at the side       6 mm         - downwards       10 mm         - for auxilary and control circuit       screw-type terminals         type of electrical connection       screw-type terminals         • for main current circuit       screw-type terminals         • of main contacts       Screw-type terminals         • of	<ul> <li>side-by-side mounting</li> </ul>	-
width       45 mm         depth       97 mm         required spacing       97 mm         • with side-by-side mounting       -         - forwards       10 mm         - upwards       10 mm         - downwards       10 mm         - at the side       0 mm         • for grounded parts       0 mm         - forwards       10 mm         - upwards       10 mm         - upwards       10 mm         - dornwards       10 mm         - dornwards       10 mm         - dornwards       10 mm         - dornwards       10 mm         - forwards       10 mm         - downwards       10 mm         - forwards       10 mm         - forwards       10 mm         - downwards       10 mm         - downwards       10 mm         - forwards       10 mm         - downwards       10 mm         - forwards       10 mm         - downwards       10 mm         - forwards       10 mm         - forwards       10 mm         - downwards       10 mm         - forwards       10 mm         - down		
required spacing         • with side-by-side mounting         - forwards         - upwards         - downwards         - for grounded parts         - forwards         - forwards         - forwards         - downwards         - downwards         - forwards         - downwards         - forwards         - downwards         - forwards         - downwards         - forwards         - downwards         - downwards         - at the side         6 mm         Connections/ Terminals         screw-type terminals		45 mm
• with side-by-side mounting       0 mm         - forwards       10 mm         - upwards       10 mm         - at the side       0 mm         - at the side       0 mm         - forwards       10 mm         - upwards       10 mm         - upwards       10 mm         - upwards       10 mm         - upwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - forwards       10 mm         - downwards       10 mm         - at the side       6 mm         for auxiliary and contotol circuit       screw-type termi	depth	97 mm
- forwards     10 mm       - upwards     10 mm       - downwards     10 mm       - downwards     10 mm       - at the side     0 mm       - forwards     10 mm       - upwards     10 mm       - upwards     10 mm       - at the side     6 mm       - downwards     10 mm       - downwards     50 mm       - downwards     50 mm       - downwards     50 mm       - downwards     50 mm       - for auxiliary and control circuit     screw-type terminals <tr< td=""><td>required spacing</td><td></td></tr<>	required spacing	
	<ul> <li>with side-by-side mounting</li> </ul>	
- downwards       10 mm         - at the side       0 mm         • for grounded parts       0 mm         - forwards       10 mm         - upwards       0 mm         - at the side       6 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - forwards       10 mm         - forwards       10 mm         - downwards       10 mm         - at the side       6 mm         Connections/ Terminals       screw-type terminals         • of magnet coil       Screw-type terminals         • of magnet coil	— forwards	10 mm
	— upwards	10 mm
<ul> <li>for grounded parts         <ul> <li>forwards</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>form</li> <li>at the side</li> <li>form</li> <li>adownwards</li> <li>form</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>forwards</li> <li>forwards</li> <li>for man</li> <li>adownwards</li> <li>forwards</li> <li>forwards</li> <li>forwards</li> <li>form</li> <li>adownwards</li> <li>form</li> <li>adownwards</li> <li>form</li> <li>adownwards</li> <li>form</li> <li>adownwards</li> <li>for man</li> <li>adownwards</li> <li>for main current circuit</li> <li>screw-type terminals</li> <li>screw-type terminals</li> <li>for auxiliary and control circuit</li> <li>screw-type terminals</li> <li>for main contacts</li> <li>a contactor for auxiliary contacts</li> <li>Screw-type terminals</li> </ul> <ul> <li>for main contacts</li> <li>a solid</li> <li>2x (1 2.5 mm<sup>2</sup>), 2x (2.5 10 mm<sup>2</sup>)</li> <li>a dAWG cables for main contacts</li> <li>a tAWG cables for main contacts</li> <li>a tAWG cables for main contacts</li> <li>a solid</li> <li>a tatwore cable conductor cross-section for main contacts</li> <li>a solid</li> <li>a no mm<sup>2</sup></li> </ul> <ul> <ul></ul></ul></li></ul>	— downwards	10 mm
- forwards       10 mm         - upwards       10 mm         - at the side       6 mm         - downwards       10 mm         • for live parts       10 mm         - forwards       10 mm         - upwards       10 mm         - downwards       10 mm         - upwards       10 mm         - downwards       10 mm         - at the side       6 mm         Connections/ Terminals       6 mm         type of electrical connection       screw-type terminals         • for main current circuit       screw-type terminals         • for auxiliary and control circuit       screw-type terminals         • at contactor for auxiliary contacts       Screw-type terminals         • of magnet coil       Screw-type terminals         type of connectable conductor cross-sections       6 mm²)         • for main contacts       - solid         - solid or stranded       2x (1 2.5 mm²), 2x (2.5 10 mm²)         - solid or stranded       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • at AWG cables for main contacts       2x (16 12), 2x (14 8)         connectable conductor cross-section for main contacts       2x (16 12), 2x (14 8)	— at the side	0 mm
$-$ upwards10 mm $-$ at the side6 mm $-$ downwards10 mm $-$ for vards10 mm $-$ for vards10 mm $-$ upwards10 mm $-$ upwards10 mm $-$ downwards10 mm $-$ at the side6 mmConnections/ Terminalstype of electrical connection $+$ for auxiliary and control circuitscrew-type terminals $+$ for auxiliary and control circuitscrew-type terminals $+$ of connectable conductor cross-sectionsScrew-type terminals $+$ solid $2x (1 \dots 2.5 mm^2), 2x (2.5 \dots 10 mm^2)$ $-$ solid or stranded $2x (1 \dots 2.5 mm^2), 2x (2.5 \dots 6 mm^2), 1x 10 mm^2$ $-$ solid or stranded $2x (1 \dots 2.5 mm^2), 2x (2.5 \dots 6 mm^2), 1x 10 mm^2$ $-$ at AWG cables for main contacts $2x (1 \dots 2.5 mm^2), 2x (14 \dots 8)$ $-$ solid $2x (1 \dots 2.5 mm^2), 2x (14 \dots 8)$	<ul> <li>for grounded parts</li> </ul>	
at the side6 mm downwards10 mm• for live parts forwards10 mm upwards10 mm upwards10 mm downwards10 mm downwards6 mm at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• of magnet coilScrew-type terminals• of magnet coilScrew-type terminals• of or auxiliary contactsScrew-type terminals• for main contactsScrew-type terminals• of magnet coilScrew-type terminals• for main contactsScrew-type terminals• for main contacts2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid2x (1 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 10 mm²)• at AWG cables for main contacts2x (1 2.5 mm²), 2x (2.5 10 mm²)• at AWG cables for main contacts2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid1 10 mm²		10 mm
downwards10 mm• for live parts0 mm forwards10 mm upwards10 mm downwards10 mm downwards6 mm at the side6 mmConnections/ Terminalsscrew-type terminalstype of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminals• for main contacts- solid- solid2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)- at AWG cables for main contacts2x (1 2.5 mm²), 2x (14 8)• solid1 10 mm²		
• for live partsI0 mm- forwards10 mm- upwards10 mm- downwards10 mm- a the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sectionsScrew-type terminals• for main contacts2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)• at AWG cables for main contacts2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• solid2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• solid1 10 mm²		
- forwards10 mm- upwards10 mm- downwards10 mm- downwards10 mm- at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sectionsScrew-type terminals• for main contacts- solid- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• at AWG cables for main contacts2x (16 12), 2x (14 8)• solid1 10 mm²		10 mm
- upwards10 mm- downwards10 mm- at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sectionsScrew-type terminals• for main contacts- solid- solid2x (1 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 10 mm²)• at AWG cables for main contacts2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• at AWG cables for main contacts2x (1 2.5 mm²), 2x (1 8)• solid1 10 mm²		
downwards10 mm at the side6 mmConnections/Terminalstype of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sectionsScrew-type terminals• for main contacts2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid2x (1 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• at AWG cables for main contacts2x (1 2.5 mm²), 2x (14 8)• solid1 10 mm²		
at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminals• of main contactsScrew-type terminals• for main contactsScrew-type terminals• solid2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• at AWG cables for main contacts2x (1 2.5 mm²), 2x (14 8)connectable conductor cross-section for main contacts2x (1 10 mm²		
Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • at contactor for auxiliary contacts         • of magnet coil         Screw-type terminals         • of magnet coil         Screw-type terminals         • for main contacts         - solid         - solid or stranded         - finely stranded with core end processing         • at AWG cables for main contacts         connectable conductor cross-section for main contacts         2x (1 2.5 mm²), 2x (2.5 10 mm²)         2x (1 2.5 mm²), 2x (1.1 mm²)         • solid       1 10 mm²		
type of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sectionsScrew-type terminals• for main contacts- solid- solid2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• at AWG cables for main contacts2x (1 2.5 mm²), 2x (14 8)connectable conductor cross-section for main contacts1 10 mm²		o mm
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>Screw-type terminals</li> <li>of magnet coil</li> <li>Screw-type terminals</li> <li>for main contacts</li> <li>for main contacts</li> <li>- solid</li> <li>- solid or stranded</li> <li>- finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> <li>2x (1 2.5 mm<sup>2</sup>), 2x (2.5 10 mm<sup>2</sup>)</li> <li>- finely stranded mith core end processing</li> <li>at AWG cables for main contacts</li> <li>- solid</li> <li>- solid</li> <li>- solid</li> <li>- solid</li> <li>- solid</li> <li>- solid</li> <li>- finely stranded with core end processing</li> <li>- at AWG cables for main contacts</li> <li>- solid</li> <li>- solid</li> <li>- solid</li> <li>- solid</li> <li>- solid</li> <li>- 1 10 mm<sup>2</sup></li> </ul>		
<ul> <li>for auxiliary and control circuit</li> <li>for auxiliary contacts</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>Screw-type terminals</li> <li>Scr</li></ul>		
• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sectionsScrew-type terminals• for main contacts2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• at AWG cables for main contacts2x (16 12), 2x (14 8)connectable conductor cross-section for main contacts1 10 mm²		
• of magnet coilScrew-type terminalstype of connectable conductor cross-sectionsScrew-type terminals• for main contacts2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• at AWG cables for main contacts2x (1 2.5 mm²), 2x (14 8)connectable conductor cross-section for main contacts1 10 mm²	-	
type of connectable conductor cross-sections• for main contacts- solid2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing• at AWG cables for main contactsconnectable conductor cross-section for main contacts• solid1 10 mm²	-	
<ul> <li>for main contacts         <ul> <li>for main contacts</li> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts</li> <li>solid</li> <li>1 10 mm<sup>2</sup></li> </ul>		Screw-type terminals
solid       2x (1 2.5 mm²), 2x (2.5 10 mm²)         solid or stranded       2x (1 2.5 mm²), 2x (2.5 10 mm²)         finely stranded with core end processing       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         finely stranded with core end processing       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         e at AWG cables for main contacts       2x (16 12), 2x (14 8)         connectable conductor cross-section for main contacts       1 10 mm²		
solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²) finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• at AWG cables for main contacts2x (16 12), 2x (14 8)connectable conductor cross-section for main contacts1 10 mm²		$2x(1 - 2.5 \text{ mm}^2) 2x(2.5 - 10 \text{ mm}^2)$
— finely stranded with core end processing       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • at AWG cables for main contacts       2x (1 12), 2x (14 8)         connectable conductor cross-section for main contacts       1 10 mm²         • solid       1 10 mm²		
• at AWG cables for main contacts       2x (16 12), 2x (14 8)         connectable conductor cross-section for main contacts		
connectable conductor cross-section for main contacts       1 10 mm²		
contacts       • solid       1 10 mm²		LA (10 12), LA (17 0)
• stranded 1 10 mm <sup>2</sup>	• solid	1 10 mm²
	• stranded	
• finely stranded with core end processing 1 10 mm <sup>2</sup>	<ul> <li>finely stranded with core end processing</li> </ul>	1 10 mm²
connectable conductor cross-section for auxiliary	connectable conductor cross-section for auxiliary	

contacts						
<ul> <li>solid or strande</li> </ul>	ed		0.5 2.5 mm²	5 mm <sup>2</sup>		
	naea ed with core end processing		0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup>			
type of connectable conductor cross-sections		0.0 2.0 mm				
<ul> <li>for auxiliary co</li> </ul>						
solid or stranded			2x (0.5 1.5 mm²), 2x (	$1.75 2.5 \text{ mm}^2$		
<ul> <li>— finely stranded with core end processing</li> </ul>			2x (0.5 1.5 mm <sup>2</sup> ), 2x (			
-		cooling	2x (20 16), 2x (18 1			
at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross		ZX (20 10), ZX (10 1				
section						
<ul> <li>for main contact</li> </ul>	for main contacts		16 8			
<ul> <li>for auxiliary co</li> </ul>	ntacts		20 14			
Safety related data						
product function						
<ul> <li>mirror contact</li> </ul>	according to IEC 60947-	-4-1	Yes			
B10 value with high of	demand rate according t	o SN 31920	450 000			
proportion of dange	erous failures					
<ul> <li>with low demain</li> </ul>	nd rate according to SN	31920	40 %			
<ul> <li>with high dema</li> </ul>	and rate according to SN	I 31920	73 %			
failure rate [FIT] with 31920	low demand rate accord	ding to SN	100 FIT			
T1 value for proof tes IEC 61508	T1 value for proof test interval or service life according to IEC 61508		20 y			
protection class IP 60529	protection class IP on the front according to IEC 60529		IP20			
touch protection on the front according to IEC 60529		finger-safe, for vertical c	ontact from the front			
suitability for use						
<ul> <li>safety-related</li> </ul>	switching OFF		Yes			
Certificates/ approva	ls					
General Product A	pproval					
<b>SP</b>	Confirmation		(h)	KC	EAC	
CSA		ccc	UL			
EMC	Functional Safety/Safety of Machinery	Declaration of	f Conformity	Test Certificates		
RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.		<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	
Marine / Shipping						
		ĴÅ	Lloyd's Register		$\odot$	
ABS	BUREAU	DNV	LRS	RINA	RMRS	
ABS	BUREAU VERITAS	DNV	LRS	RINA	RMRS	
other Confirmation		DNV		RINA	RMRS	

## 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=3RT2024-1AK60 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2024-1AK60 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-1AK60 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2024-1AK60&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-1AK60/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2024-1AK60&objecttype=14&gridview=view1

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