## SIEMENS

## Data sheet

## 3RT1066-6AD36



power contactor, AC-3e/AC-3 300 A, 160 kW / 400 V, AC (50-60 Hz) / DC Uc: 42-48 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: screw terminal

Joh	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S10
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>	66 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	22 W
<ul> <li>without load current share typical</li> </ul>	7.4 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>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	500 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 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	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 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)	05/01/2012
SVHC substance name	Lead - 7439-92-1
Weight	6.615 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m

ambient temperature	
during operation	-25 +60 °C
during operation     during storage	-25 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30	95 %
maximum	50 /0
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	548 kg
global warming potential [CO2 eq] during manufacturing	31.5 kg
global warming potential [CO2 eq] during sales	2.6 kg
global warming potential [CO2 eq] during operation	521 kg
global warming potential [CO2 eq] after end of life	-7.22 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
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	1 000 V
• at AC-3e rated value maximum	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> <li>at AC-1</li> </ul>	330 A
— up to 690 V at ambient temperature 40 °C rated value	330 A
— up to 690 V at ambient temperature 60 °C rated value	300 A
— up to 1000 V at ambient temperature 40 $^\circ\mathrm{C}$ rated value	150 A
<ul> <li>— up to 1000 V at ambient temperature 60 °C rated value</li> <li>at AC-3</li> </ul>	150 A
- at 400 V rated value	300 A
— at 500 V rated value	300 A
— at 690 V rated value	280 A
— at 1000 V rated value	95 A
• at AC-3e	
— at 400 V rated value	300 A
— at 500 V rated value	300 A
— at 690 V rated value	280 A
— at 1000 V rated value	95 A
• at AC-4 at 400 V rated value	280 A
• at AC-5a up to 690 V rated value	290 A
• at AC-5b up to 400 V rated value	249 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	292 A
— up to 400 V for current peak value n=20 rated value	292 A
— up to 500 V for current peak value n=20 rated value	292 A
— up to 690 V for current peak value n=20 rated value	280 A
— up to 1000 V for current peak value n=20 rated value	95 A
• at AC-6a	
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	195 A
— up to 400 V for current peak value n=30 rated value	195 A
— up to 500 V for current peak value n=30 rated value	195 A
<ul> <li>— up to 690 V for current peak value n=30 rated value</li> </ul>	195 A
— up to 1000 V for current peak value n=30 rated value	95 A
minimum cross-section in main circuit at maximum AC-1 rated value	185 mm²
operational current for approx. 200000 operating cycles at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	125 A

• at 690 V rated value	115 A
operational current	
at 1 current path at DC-1	
- at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	33 A
— at 220 V rated value	3.8 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.6 A
with 2 current paths in series at DC-1	0.0 A
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
with 3 current paths in series at DC-1	28
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 10 V rated value	300 A
— at 220 V rated value	300 A
— at 220 V rated value — at 440 V rated value	300 A 11 A
	5.2 A
<ul> <li>— at 600 V rated value</li> <li>at 1 current path at DC-3 at DC-5</li> </ul>	0.2 A
-	300 A
— at 24 V rated value	
— at 60 V rated value	11 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
with 2 current paths in series at DC-3 at DC-5     at 24 V rated value	300 A
— at 24 V rated value — at 60 V rated value	300 A
	300 A
— at 110 V rated value	2.5 A
— at 220 V rated value	
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> <li>— at 24 V rated value</li> </ul>	300 A
— at 60 V rated value	300 A
— at 10 V rated value	300 A
	300 A
- at 220 V rated value	
— at 440 V rated value	1.4 A
- at 600 V rated value	0.75 A
• at AC-3	
<ul> <li>at AC-3</li> <li>— at 230 V rated value</li> </ul>	90 kW
— at 400 V rated value — at 500 V rated value	160 kW 200 kW
— at 690 V rated value	250 kW
- at 1000 V rated value	132 kW
• at AC-3e	00 1/1/
— at 230 V rated value	90 kW
— at 400 V rated value	160 kW
— at 500 V rated value	200 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
operating power for approx. 200000 operating cycles at AC- 4	
<ul> <li>at 400 V rated value</li> </ul>	71 kW
at 690 V rated value	112 kW
operating apparent power at AC-6a	
-personing apparent perior at re-ou	

<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	110 000 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	200 000 VA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	250 000 VA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	330 000 VA
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	160 000 VA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	70 000 VA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	130 000 VA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	160 000 VA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	230 000 VA
<ul> <li>up to 1000 V for current peak value n=30 rated value</li> </ul>	160 000 VA
short-time withstand current in cold operating state up to 40 $^\circ\mathrm{C}$	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	5 524 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	4 579 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	3 153 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	1 883 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	1 445 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency	
● at AC-1 maximum	750 1/h
● at AC-2 maximum	250 1/h
● at AC-3 maximum	500 1/h
● at AC-3e maximum	500 1/h
● at AC-4 maximum	130 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	42 48 V
• at 60 Hz rated value	42 48 V
control supply voltage at DC rated value	42 48 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8
full-scale value	1.1
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power	
• at minimum rated control supply voltage at AC	400 \/A
— at 50 Hz	490 VA
— at 60 Hz	490 VA
• at maximum rated control supply voltage at AC	500 \/A
— at 60 Hz	590 VA
- at 50 Hz	590 VA
apparent pick-up power of magnet coil at AC • at 50 Hz	590 VA
• at 50 Hz	590 VA 590 VA
inductive power factor with closing power of the coil	
at 50 Hz	0.9
• at 60 Hz	0.9
apparent holding power	
at minimum rated control supply voltage at DC	6.1 VA
at maximum rated control supply voltage at DC     at maximum rated control supply voltage at DC	7.4 VA
<ul> <li>apparent holding power</li> <li>at minimum rated control supply voltage at AC</li> </ul>	
at minimum rated control supply voltage at AC     — at 50 Hz	5.6 VA
	5.6 VA
— at 60 Hz	3.0 VA

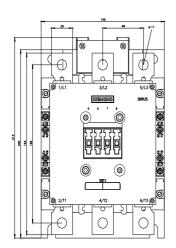
a at maximum rated control cupply voltage at AC	
<ul> <li>at maximum rated control supply voltage at AC — at 50 Hz</li> </ul>	6.7 VA
— at 60 Hz	6.7 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.9
• at 60 Hz	0.9
closing power of magnet coil at DC	650 W
holding power of magnet coil at DC	7.4 W
closing delay	
• at AC	30 95 ms
• at DC	30 95 ms
opening delay	
• at AC	40 80 ms
• at DC	40 80 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1A
operational current at DC-12	
at 24 V rated value	10 A
• at 48 V rated value	6 A
<ul> <li>at 60 V rated value</li> </ul>	6 A
• at 110 V rated value	3 A
at 125 V rated value	2 A
at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
at 48 V rated value	2 A
at 60 V rated value	2 A
at 110 V rated value	1 A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	302 A
at 400 V rated value     at 600 V rated value	289 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
- at 200/208 V rated value	100 hp
— at 220/230 V rated value	125 hp
— at 460/480 V rated value	250 hp
— at 575/600 V rated value	300 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit     with type of ecordination 1 required	C = E00 A (600 ) ( 100 kA)
<ul> <li>with type of coordination 1 required</li> <li>with type of coordination 2 required</li> </ul>	gG: 500 A (690 V, 100 kA)
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)

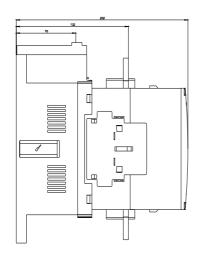
• for short-circuit protection of the auxiliary switch required

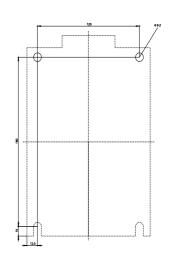
gG: 10 A (500 V, 1 kA)

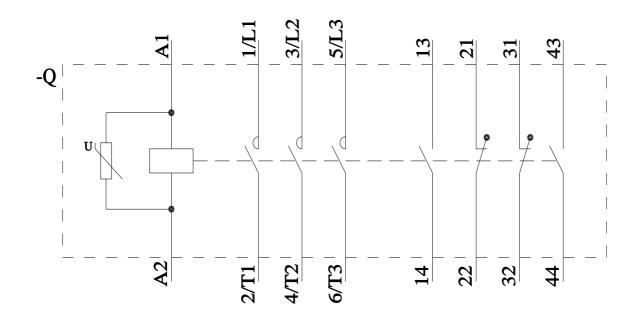
statistical mounting surface 4-50° robusto, with vertical mounting surface 4-50° robusto, with vertical mounting surface 4-50° robusto, with sur	Installation/ mounting/ dimonsions	gg. 10 A (300 V, 1 kA)
		with vortical mounting surface 1/ 00° rotatable with vortical mounting surface
fastening method side-by-side mountingYesfastening method side-by-side mounting210 mmwidth454 smwidth200 mmrequired spacing winds ide-by-side mounting0 mm-	mounting position	
Institution method         screw fixing           height         210 mm           width         145 mm           depth         20 mm           regulated spacing	fastening method side-by-side mounting	
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depth202 nmrequired spacing with side by side mouting forwards20 mm- upwafs10 mm- downwards0 mm- downwards20 mm- downwards20 mm- downwards20 mm- downwards20 mm- upwafs10 mm- upwafs20 mm- upwafs20 mm- upwafs20 mm- downwards20 mm- downwards20 mm- downwards10 mm- downwards20 mm- downwards20 mm- downwards10 mm- downwards10 mm- downwards20 mm- downwards <t< td=""><td></td><td></td></t<>		
reduical spacing         -           • with sloc-by-adde mounting         -           - forwards         10 mm           - upwards         10 mm           - downwards         00 mm           - at the side         00 mm           - at the side         10 mm           - downwards         50 remin		
•vith side-by-side mounting20 mm- ipyords10 mm- downwards10 mm- downwards10 mm- downwards10 mm- at the side20 mm- upyords10 mm- upyords10 mm- downwards20 mm- downwards10 mm- downwards20 mm- downwards10 mm- downwards20 mm- downwards10 mm- downwards10 mm- downwards20 mm<	•	202 11111
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- downwards10 mm- at the side0 mm- for grounds dpriss20 mm- forwards20 mm- uywards10 mm- downwards10 mm- downwards10 mm- downwards00 mm- downwards10 mm- forwards20 mm- forwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards00 mm- do		
- at the side0 mm• for grounded parts20 mm- forwards20 mm- upwards10 mm- upwards10 mm- downwards20 mm- forwards20 mm- forwards20 mm- forwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards0 mm- downwards20 softwaller- for auxiliary and control circuitScrew-type terminals- downortcin brar20 softwaller- downortcin brar20 softwaller- downortcin brar10 mm- downortcin cross-section for auxiliary contacts10 mm- for AWG cables conductor cross-section for auxiliary contacts10 mm- olid or stranded0.54 mm <sup>2</sup> - olid or stranded0.54 mm <sup>2</sup> - olid or stranded2050 mm <sup>3</sup> , 2x (0.7525 mm <sup>3</sup> , max. 2x (0.754 mm <sup>3</sup> )- olid or stranded2x (0.515 mm <sup>3</sup> , 2x (0.7525 mm <sup>3</sup> , max. 2x (0.754 mm <sup>3</sup> )- olid or stranded2x (0.515 mm <sup>3</sup> , 2x (0.7525 mm <sup>3</sup> , max. 2x (0.754 mm <sup>3</sup> )- olid or s		
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- downwards10 mm• or live parts20 mm- forwards20 mm- upwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards00 mm- downwards00 mm- downwards00 mm- downwards00 mm- downwards00 mm- downwards00 mm- downwardsScrew-type terminals- or auxilary and ontrol circuitConnection bar• or auxilary contactsScrew-type terminals- or auxilary contactsScrew-type terminals- or auxilary contactsScrew-type terminals- of rauxilary contactsScrew-type terminals- of auxilary contactsScrew-type terminals- of auxilary contactsScrew-type terminals- of auxilary contacts11 mm- of auxilary contacts- 0 mm <sup>2</sup> - of auxilary contacts- 0 man <sup>2</sup> - of auxilary contacts- 0 ma <sup>2</sup> - of auxilary contacts- 0 max- of auxilary con	•	
• for live parts     0       - forwards     20 mm       - wyards     10 mm       - downwards     10 mm       - at the side     10 mm       - of rain current icouit     Sorew-type terminals       of or main current icouit     sorew-type terminals       of magnet coli     Sorew-type terminals       of magnet coli     Sorew-type terminals       • of magnet coli     Timm       • of magnet coli     Sorew-type terminals       • of magnet coli     Timm       • of magnet coli     Sorew-type terminals       • of magnet coli bar     Gormetable conductor cross-sections       • of magnet coli bar     Sorew-type terminals       • of auxiliary contacts     Sorew-type ter		
- forwards20 mm- upwards10 mm- dowwards10 mm- dowwards10 mm- at the side10 mmcontractions/ Terminals0 mmConnection bar- for andicurrent circuitConnection barfor auxiliary and control circuitScrew-type terminalsof or auxiliary contactsScrew-type terminals- of auxiliary contactsScrew-type terminals- of auxiliary contactsScrew-type terminals- of auxiliary contactsScrew-type terminals- of auxiliary contacts11 mm- of auxiliary contacts20 500 kcmil- of auxiliary contacts20 50 mm²- of auxiliary contacts20 51 mm²- of auxiliary contacts20 51 mm²- of		10 mm
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- at the side10 mmconnectionstype of electrical connectionof or main corrent circuitConnection barof or main corrent circuitConnection barat contactor for auxiliary and control circuitScrew-type terminalsof magnet coilScrew-type terminalswitch of connection bar6 mmdiameter of holes1 1 mmnumber of holes1 1 mmof row Cables for main contacts20 500 kcmilconnectable conductor cross-sections70 240 mm²of ro AWG cables for main contacts70 240 mm²connectable conductor cross-section for auxiliary contacts50 4 mm²of ro auxiliary contacts50 4 mm²of ro auxiliary contacts50 4 mm²of ro auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)- solid or stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)- solid or stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)- solid or stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)- solid or stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)- solid or stranded18 14Stery related data18 14Stery related dataYes- suitality for use astery functionYes- suitality for use astery functionYes- suitality for use astery functionYes- suitality for use astery functionYes <td< td=""><td>— upwards</td><td>10 mm</td></td<>	— upwards	10 mm
connections/Terminals           type of electrical connection           • for main current circuit         Connection bar           • of main current circuit         Screw-type terminals           • of magnet coll         Screw-type terminals           • of nonectable conductor cross-sections         1           • of AVVC cables for main contacts         20           • of auxiliary contacts         Screw-type terminals           • of auxiliary contacts         Screw-type terminals           • for auxiliary contacts         Screw-type terminals           • for auxiliary contacts         <	— downwards	10 mm
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thickness of connection bar         6 mm           diameter of holes         11 mm           number of holes         1           number of holes         1           number of holes         1           type of connectable conductor cross-sections         20 500 kcmil           ornectable conductor cross-section for main contacts         70 240 mm²           connectable conductor cross-section for auxiliary contacts         70 240 mm²           stranded         0.5 4 mm²           connectable conductor cross-section for auxiliary contacts         5 4 mm²           of rauxiliary contacts         2.5 mm²           of or auxiliary contacts         5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)           - solid or stranded         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)           - solid or stranded         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)           - solid or stranded         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)           - solid or stranded contactor cross         2x (20 1.6), 2x (18 14), 1x 12           AWG number as coded connectable conductor cross         3 tab           solid or auxiliary contacts         18 14           of or auxiliary contacts         18 14           of or auxiliary con	of magnet coil	Screw-type terminals
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number of holes         1           type of connectable conductor cross-sections         2/0500 kcmil           of A WG cables for main contacts         2/0500 kcmil           connectable conductor cross-section for main contacts         2/0200 mm²           e stranded         70240 mm²           connectable conductor cross-section for auxiliary contacts         0.54 mm²           e solid or stranded         0.54 mm²           e for auxiliary contacts         2/0.515 mm²), 2x (0.752.5 mm²), max. 2x (0.754 mm²)           e solid or stranded         2x (0.515 mm²), 2x (0.752.5 mm²), max. 2x (0.754 mm²)           e solid or stranded         2x (0.515 mm²), 2x (0.752.5 mm²), max. 2x (0.754 mm²)           e for auxiliary contacts         2x (0.515 mm²), 2x (0.752.5 mm²), max. 2x (0.754 mm²)           e for auxiliary contacts         2x (0.515 mm²), 2x (0.752.5 mm²), max. 2x (0.754 mm²)           e for auxiliary contacts         2x (0.515 mm²), 2x (0.752.5 mm²), max. 2x (0.754 mm²)           e for auxiliary contacts         1814           Gatety related data         14           product function         Yes           e suitability for use safety-related switching OFF         Yes           suitability for use safety-related switching OFF         Yes           suitability for use safety-related switching	thickness of connection bar	6 mm
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type of connectable conductor cross-sections• for auxiliary contacts- solid- solid or stranded- solid or stranded- finely stranded with core end processing• for AWG cables for auxiliary contacts• for AWG cables for auxiliary contacts• positively driven operation according to IEC 60947-4-1• positively driven operation according to IEC 60947-5-1• positively driven operation according to IEC 60947-5-1• suitabilify for use safety-related switching OFF• suitability for use safety-related switching OFF• service life maximum• 20 a• test wear-related service life necessary <tr< td=""><td></td><td></td></tr<>		
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solid or stranded2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²) finely stranded with core end processing2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)• for AWG cables for auxiliary contacts2x (20 16), 2x (18 14), 1x 12AWG number as coded connectable conductor cross section• for auxiliary contacts• for auxiliary contacts18 14, 1x 12AWG runder as coded connectable conductor cross section• for auxiliary contacts• for auxiliary contacts18 14Safety related data• Yes• mirror contact according to IEC 60947-4-1Yes• positively driven operation according to IEC 60947-5-1No• suitable for safety functionYes• suitablity for use safety-related switching OFFYesservice life maximum20 atest wear-related service life necessaryYes		$2x (0.5 \pm 1.5 \text{ mm}^2) 2x (0.75 \pm 2.5 \text{ mm}^2) \text{ may } 2x (0.75 \pm 4 \text{ mm}^2)$
finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for AWG cables for auxiliary contacts2x (20 16), 2x (18 14), 1x 12AWG number as coded connectable conductor cross section•• for auxiliary contacts18 14• for auxiliary contacts18 14Cafety related data•• entror contact according to IEC 60947-4-1Yes• positively driven operation according to IEC 60947-5-1No• suitable for safety functionYes• suitable for safety functionYessuitability for use safety-related switching OFFYesservice life maximum20 atest wear-related service life necessaryYes		
• for AWG cables for auxiliary contacts2x (20 16), 2x (18 14), 1x 12AWG number as coded connectable conductor cross section•• for auxiliary contacts18 14Safety related dataYesproduct functionYes• mirror contact according to IEC 60947-4-1Yes• positively driven operation according to IEC 60947-5-1No• suitable for safety functionYessuitability for use safety-related switching OFFYesservice life maximum20 atest wear-related service life necessaryYes		
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section     Image: section       • for auxiliary contacts     18 14       Safety related data     Image: section       product function     Yes       • mirror contact according to IEC 60947-4-1     Yes       • positively driven operation according to IEC 60947-5-1     No       • suitable for safety function     Yes       suitability for use safety-related switching OFF     Yes       service life maximum     20 a       test wear-related service life necessary     Yes	·	2x (20 10), 2x (10 14), 1X 12
• for auxiliary contacts18 14Safety related data7product function • mirror contact according to IEC 60947-4-1Yes• positively driven operation according to IEC 60947-5-1No• suitable for safety functionYessuitability for use safety-related switching OFFYesservice life maximum20 atest wear-related service life necessaryYes		
Safety related data         product function         • mirror contact according to IEC 60947-4-1       Yes         • positively driven operation according to IEC 60947-5-1       No         • suitable for safety function       Yes         suitability for use safety-related switching OFF       Yes         service life maximum       20 a         test wear-related service life necessary       Yes		18 14
product functionYes• mirror contact according to IEC 60947-4-1Yes• positively driven operation according to IEC 60947-5-1No• suitable for safety functionYessuitability for use safety-related switching OFFYesservice life maximum20 atest wear-related service life necessaryYes	- -	
• mirror contact according to IEC 60947-4-1Yes• positively driven operation according to IEC 60947-5-1No• suitable for safety functionYessuitability for use safety-related switching OFFYesservice life maximum20 atest wear-related service life necessaryYes		
• positively driven operation according to IEC 60947-5-1       No         • suitable for safety function       Yes         suitability for use safety-related switching OFF       Yes         service life maximum       20 a         test wear-related service life necessary       Yes		Yes
• suitable for safety function     Yes       suitability for use safety-related switching OFF     Yes       service life maximum     20 a       test wear-related service life necessary     Yes	-	
suitability for use safety-related switching OFF     Yes       service life maximum     20 a       test wear-related service life necessary     Yes		
service life maximum     20 a       test wear-related service life necessary     Yes	•	
test wear-related service life necessary Yes		
proportion of dangerous failures		
with low demand rate according to SN 31920     40 %		

• with high demand	rate according to SN 3				
B10 value with high de	-		0 000		
failure rate [FIT] with lo			FIT		
31920		_			
ISO 13849	100 100 1	0			
device type according		3			
overdimensioning acc IEC 61508	ording to 150 13849-2	necessary Yes			
safety device type acc	ording to IEC 61508-2	Туре	2 A		
Electrical Safety		1,12			
protection class IP on	the front according to	IEC 60529 IP00	; IP20 with box terminal/co	over	
touch protection on th	e front according to IE	EC 60529 finge	er-safe, for vertical contact	from the front with box ter	minal/cover
pprovals Certificates					
General Product Appr	oval				
	CE EG-Konf.	UK CA	<u>Confirmation</u>		KC
General Product Approval	EMV	Functional Saftey	Test Certificates		Marine / Shipping
EAC	Ø	<u>Type Examination Cer-</u> tificate	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	۲
	RCM				ABS
Marine / Shipping	RCM			other	NB2
Marine / Shipping		PRS	RMPS	other <u>Miscellaneous</u>	ABS
ĴÅ DNV		PRS	<b>Environment</b>		ABS
	RCM	PRS PRS Railway Special Test Certific- ate	Environment		Confirmation
t d DNV DNV		Special Test Certific-	<b>Environment</b>	Miscellaneous Siemens	Environmental Con-
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