SIEMENS

Data sheet

3RT2035-3AF04



power contactor, AC-3 40 A, 18.5 kW / 400 V 2 NO + 2 NC, 110 V AC 50 Hz, 3-pole, Size S2, Spring-type terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
 function module for communication 	No
 auxiliary switch 	No
power loss [W] for rated value of the current at AC in hot operating state	6.6 W
• per pole	2.2 W
power loss [W] for rated value of the current without load current share typical	16 W
surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	9.8g / 5 ms, 6.5g / 10 ms
shock resistance with sine pulse	
● at AC	15.3g / 5 ms, 10.1g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2014 00:00:00
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
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

operational current	-
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	60 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	60 A
— up to 690 V at ambient temperature 60 °C rated value	55 A
• at AC-3	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
 at AC-4 at 400 V rated value 	35 A
at AC-5a up to 690 V rated value	52.8 A
• at AC-5b up to 400 V rated value	33.2 A
• at AC-6a	00.27
 up to 230 V for current peak value n=20 rated value 	36.5 A
— up to 400 V for current peak value n=20 rated value	36.5 A
— up to 500 V for current peak value n=20 rated value	36.5 A
— up to 690 V for current peak value n=20 rated value	24 A
• at AC-6a	24.2.4
— up to 230 V for current peak value n=30 rated value	24.2 A
— up to 400 V for current peak value n=30 rated value	24.2 A 24.2 A
— up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated	24.2 A
value	
minimum cross-section in main circuit at maximum AC-1 rated value	16 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	22 A
 at 690 V rated value 	18.5 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
operational current	
 at 1 current path at DC-3 at DC-5 	

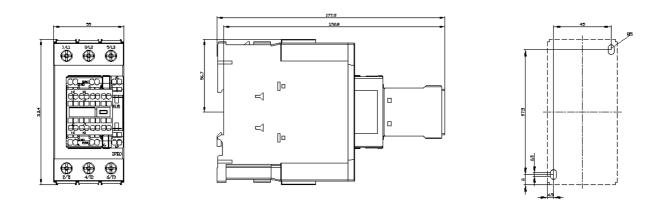
Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz	AC 110 V 0.8 1.1
type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value operating range factor control supply voltage rated	
type of voltage of the control supply voltage control supply voltage at AC	
type of voltage of the control supply voltage	AC
	AC
Control circuit/ Control	
and the contraction of the	
• at AC-4 maximum	300 1/h
• at AC-2 maximum • at AC-3 maximum	1 000 1/h
 at AC-1 maximum at AC-2 maximum 	1 200 1/h 750 1/h
operating frequency	1.200.1/b
• at AC	5 000 1/h
no-load switching frequency	5 000 1/b
Imited to 60 s switching at zero current maximum	196 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum limited to 60 a guitabing at zero surrant maximum 	241 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum limited to 20 s switching at zero surrent maximum 	400 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum limited to 10 a switching at zero surrent maximum 	596 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 1 s switching at zero current maximum 	843 A; Use minimum cross-section acc. to AC-1 rated value
up to 40 °C	8/13 At Llea minimum cross section and to AC 4 retadiuslus
short-time withstand current in cold operating state	
 up to 690 V for current peak value n=30 rated value 	28.6 kV·A
 up to 500 V for current peak value n=30 rated value 	21 kV·A
 up to 400 V for current peak value n=30 rated value 	16.8 kV·A
• up to 230 V for current peak value n=30 rated value	9.6 kV·A
operating apparent power at AC-6a	
• up to 690 V for current peak value n=20 rated value	28.6 kV·A
• up to 500 V for current peak value n=20 rated value	31.6 kV·A
• up to 400 V for current peak value n=20 rated value	25.2 kV·A
• up to 230 V for current peak value n=20 rated value	14.5 kV·A
operating apparent power at AC-6a	
at 690 V rated value	16.8 kW
at 400 V rated value	11.6 kW
operating power for approx. 200000 operating cycles at AC-4	
- at 690 V rated value	22 kW
— at 500 V rated value	22 kW
— at 400 V rated value	18.5 kW
— at 230 V rated value	11 kW
• at AC-3	
• at AC-2 at 400 V rated value	18.5 kW
operating power	
— at 600 V rated value	0.35 A
— at 440 V rated value	0.6 A
— at 220 V rated value	25 A
— at 110 V rated value	55 A
— at 24 V rated value	55 A
• with 3 current paths in series at DC-3 at DC-5	
— at 600 V rated value	0.16 A
— at 440 V rated value	0.27 A
— at 220 V rated value	5 A
— at 110 V rated value	25 A
— at 24 V rated value	55 A
 with 2 current paths in series at DC-3 at DC-5 	0.00 /
— at 600 V rated value	0.06 A
— at 440 V rated value	0.1 A
	2.5 A 1 A
— at 220 V rated value	2.3 A

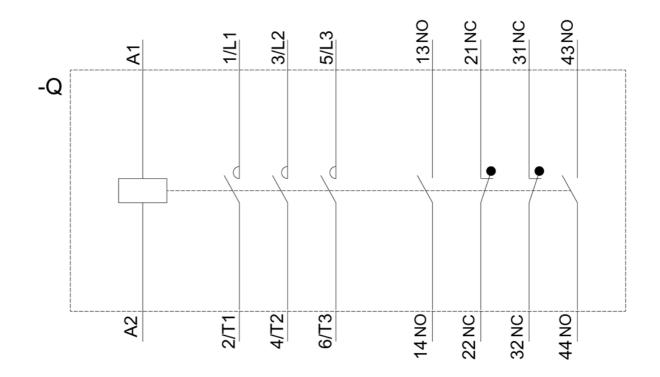
	100.1/ A
• at 50 Hz	190 V·A
inductive power factor with closing power of the coil	0.72
• at 50 Hz	0.72
apparent holding power of magnet coil at AC • at 50 Hz	16 V·A
inductive power factor with the holding power of the	
coil	
• at 50 Hz	0.37
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 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	1 A
operational current at DC-12	
 at 24 V rated value 	10 A
 at 48 V rated value 	6 A
 at 60 V rated value 	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 	6 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 	40 A
 at 600 V rated value 	41 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	10 hp
— at 220/230 V rated value	15 hp
— at 460/480 V rated value	30 hp
— at 575/600 V rated value	40 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 coordination 1 required	gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)			
- with type of assignment 2 required	v, so ka) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)			
 for short-circuit protection of the auxiliary switch 	gG: 80A (690V,100KA), aM: 50A (690V,100KA), BS88: 63A (415V,80KA) gG: 10 A (500 V, 1 kA)			
required	go. 1077(000 v, 1107)			
Installation/ mounting/ dimensions				
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface			
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715			
side-by-side mounting	Yes			
height	114 mm			
width	55 mm			
depth	178 mm			
required spacing				
with side-by-side mounting	10			
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
 — at the side for grounded parts 	0 mm			
5	10 mm			
— forwards	10 mm			
— upwards — at the side	6 mm			
— downwards	10 mm			
 for live parts 	10 11111			
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	6 mm			
Connections/ Terminals				
Connections/ Terminals type of electrical connection				
type of electrical connection	screw-type terminals			
type of electrical connection • for main current circuit	screw-type terminals			
 type of electrical connection for main current circuit for auxiliary and control circuit 	spring-loaded terminals			
type of electrical connection • for main current circuit	spring-loaded terminals Spring-type terminals			
 type of electrical connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts 	spring-loaded terminals			
 type of electrical connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil 	spring-loaded terminals Spring-type terminals			
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections	spring-loaded terminals Spring-type terminals			
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts	spring-loaded terminals Spring-type terminals Spring-type terminals			
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded	spring-loaded terminals Spring-type terminals Spring-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²)			
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing	spring-loaded terminals Spring-type terminals Spring-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²) 2x (1 25 mm ²), 1x (1 35 mm ²)			
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main	spring-loaded terminals Spring-type terminals Spring-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²) 2x (1 25 mm ²), 1x (1 35 mm ²)			
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts	spring-loaded terminals Spring-type terminals Spring-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²) 2x (1 25 mm ²), 1x (1 35 mm ²) 2x (18 2), 1x (18 1)			
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing	spring-loaded terminals Spring-type terminals Spring-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²) 2x (1 25 mm ²), 1x (1 35 mm ²) 2x (18 2), 1x (18 1)			
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely contacts • finely stranded with core end processing • finely contacts • finely stranded with core end processing • finely contacts • finely stranded with core end processing	spring-loaded terminals Spring-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²) 2x (1 25 mm ²), 1x (1 35 mm ²) 2x (18 2), 1x (18 1) 1 35 mm ²			
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • solid or stranded with core section for auxiliary contacts • solid or stranded	spring-loaded terminals Spring-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²) 2x (1 25 mm ²), 1x (1 35 mm ²) 2x (18 2), 1x (18 1) 1 35 mm ² 0.5 2.5 mm ²			
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • finely stranded with core end processing • finely stranded with core end processing • solid or stranded with core end processing • solid or stranded with core end processing • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • solid or stranded	spring-loaded terminals Spring-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²) 2x (1 25 mm ²), 1x (1 35 mm ²) 2x (18 2), 1x (18 1) 1 35 mm ² 0.5 2.5 mm ² 0.5 1.5 mm ²			
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing	spring-loaded terminals Spring-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²) 2x (1 25 mm ²), 1x (1 35 mm ²) 2x (18 2), 1x (18 1) 1 35 mm ² 0.5 2.5 mm ² 0.5 1.5 mm ²			
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • finely stranded with core end processing • for auxiliary contacts <	spring-loaded terminals Spring-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²) 2x (1 25 mm ²), 1x (1 35 mm ²) 2x (18 2), 1x (18 1) 1 35 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 2x (0.5 2.5 mm ²)			
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing finely stranded with core end processing • for auxiliary contacts — solid or stranded • for auxiliary contacts — solid or stranded — finely stranded with core end processing	spring-loaded terminals Spring-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²) 2x (1 25 mm ²), 1x (1 35 mm ²) 2x (18 2), 1x (18 1) 1 35 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²)			
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • finely stranded with core end processing • for auxiliary contacts <	spring-loaded terminals Spring-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²) 2x (1 25 mm ²), 1x (1 35 mm ²) 2x (18 2), 1x (18 1) 1 35 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 2x (0.5 2.5 mm ²)			
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts offinely stranded with core end processing • finely stranded with core end processing connectable conductor cross-section for main contacts onnectable conductor cross-section for auxiliary contacts • finely stranded with core end processing finely stranded with core end processing • for auxiliary contacts — solid or stranded • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded with cor	spring-loaded terminals Spring-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²) 2x (1 25 mm ²), 1x (1 35 mm ²) 2x (18 2), 1x (18 1) 1 35 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²)			
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type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • finely stranded with core end processing • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • for auxiliary contacts - solid or stranded • for auxiliary contacts - solid or stranded - finely stranded with core end processing - finely stranded with core end processing <td>spring-loaded terminals Spring-type terminals 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 1 35 mm² 0.5 2.5 mm² 0.5 2.5 mm² 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)</td>	spring-loaded terminals Spring-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²) 2x (1 25 mm ²), 1x (1 35 mm ²) 2x (18 2), 1x (18 1) 1 35 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²)			
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • finely stranded with core end processing • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • for auxiliary contacts - solid or stranded • for auxiliary contacts - solid or stranded - finely stranded with core end processing - finely stranded with core end processing <td>spring-loaded terminals Spring-type terminals 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 1 35 mm² 0.5 2.5 mm² 0.5 2.5 mm² 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 1.5 mm²) 2x (20 14)</td>	spring-loaded terminals Spring-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²) 2x (1 25 mm ²), 1x (1 35 mm ²) 2x (18 2), 1x (18 1) 1 35 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (20 14)			

product function min	rror contact acc. to IEC	60947-4-1 Yes	3			
B10 value with high d	emand rate acc. to SN 31	1920 1 0	00 000			
proportion of dange	rous failures					
 with low deman 	d rate acc. to SN 31920	40	%			
 with high demai 	nd rate acc. to SN 31920	73	%			
	ow demand rate acc. to S	SN 31920 100) FIT			
product function positively driven operation acc. to IEC 60947-5-1		c. to IEC No				
T1 value for proof test interval or service life acc. to IEC 61508		e acc. to 20	20 у			
protection class IP on the front acc. to IEC 60529			IP20			
touch protection on	the front acc. to IEC 605	529 fing	finger-safe, for vertical contact from the front			
suitability for use						
 safety-related s 	witching OFF	Yes	3			
ertificates/ approval	S					
General Product Ap					EMC	
Concrar roudor Ap	provui				LINO	
SP SM		(UL)	<u>KC</u>	EHC	RCM	
Functional Safety/Safety of Machinery	Declaration of Confor	mity	Test Certificates		Marine / Shipping	
Type Examination Certificate	<u>UK Declaration of</u> <u>Conformity</u>	CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS	
Marine / Shipping						
B U REAU VERITAS	Llovd's Register us	PRS	RINA	RMRS	DNV-GL ENVILOBER	
other						
Confirmation	Confirmation					
urther information	wnloadcenter (Catalogs					

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