SIEMENS

Data sheet

3RV2311-1KC10



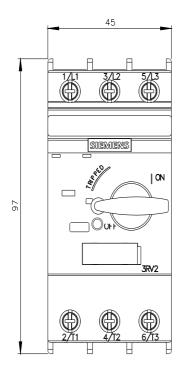
Circuit breaker size S00 for starter combination Rated current 12.5 A N-release 163 A screw terminal Standard switching capacity

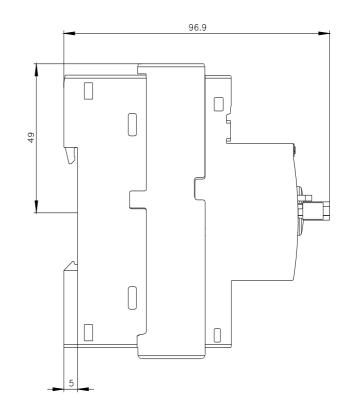
product brand name SIRUS product designation Circuit breaker design of the product For stater combinations product type designation 3RV2 Canaral technical data size of the circuit-breaker size of the circuit-breaker S00 product extension auxiliary switch Yes power loss (W) for rated value of the current - • at AC in hot operating state per pole 3.1 W insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 64V shock resistance according to EC 60068-227 Z59 (11 ms mechanical service life (perating scycles) - • of the main contacts typical 100 000 • of auxilary contacts typical 100 000 electricial endurance (operating cycles) typical 100 102009 SWHC subtance name 200 m amblent conditions - Instalation alitude at height above sea level maximum 2000 m amblent temporature - • during storage -50 +80 "C • during operation -20 60		
Assign of the product For starter combinations product type designation 3RV2 Ceneral technical data 500 size of the circuit-breaker 500 size of the circuit-breaker 500, S0 product extension auxiliary switch Yes power loss [W] for rated value of the current 925 W • at AC in hot operating state per pole 3.1 W insulation voltage with digree of pollution 3 at AC rated value 6kV surge voltage resistance rated value 6kV shock resistance according to IEC 60068-2.27 Z5g/111 ms mechanical service life (operating cycles) 00 000 • of the main contacts typical 100 000 efference code according to IEC 81346-2 Q Substance Prohibitance (Date) 100/1/2009 SWHC substance name Lead - 7439-92-1 Anbiot conditions - installation altitude at height above sea level maximum 2 000 m ambient temperature - • during storage -50 +60 °C	product brand name	SIRIUS
product type designation 3RV2 Concrat lochnical data	product designation	Circuit breaker
Ceneral technical data S00 size of the circuit-breaker S00 size of contactor can be combined company-specific S00, S0 product extension auxilary switch Yes power loss [W] for rated value of the current 9.25 W • at AC in hot operating state 9.25 W • at AC in hot operating state prole 3.1 W insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 25g /11 ms mechanical service life (operating cycles) 100 000 • of auxiliary contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 • of auxiliary contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 electrical endurance (operating cycles) typical 100 000 reference code according to IEC 81346-2 Q Subtastance Prohibitance (Date) 100/1/2009 SVHC substance name Lead - 7439-92-1 Ambient conditions -20 +60 °C installation altitude at height above sea level maximum 2 000 m ambient temperature -50, +80 °C • during transport -50, +80 °C • elating upperation -20	design of the product	For starter combinations
size of the circuit-breaker S00 size of contactor can be combined company-specific S00, S0 product extension auxiliary switch Yes power loss [W] for rated value of the current at AC in hot operating state 9.25 W at AC in hot operating state 9.25 W at AC in hot operating state per pole 3.1 W insulation voltage with degree of pollution 3 at AC rated value 600 V surge voltage resistance rated value 61k V shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) of the main contacts typical 100 000 ef auxiliary contacts typical 100 000 ef auxiliary contacts typical 100 000 efference code according to IEC 81346-2 Q Substance Prohibitance (Date) 100/01/2009 SVHC substance name Lead - 7439-92-1 Anthient conditions installation altitude at height above sea level maximum ambient temperature during operation -20 +60 °C -50 +80 °C relative humidity during operation -50 +80 °C relative humidity during operation -50 +80 °C relative humidity during operation -90 % Main circuit operating requency rated value -600 V -600 V -600 V -600 V -600 V -600 V	product type designation	3RV2
size of contactor can be combined company-specific 500, 50 product extension auxiliary switch Yes power loss [W] for rated value of the current 925 W • at AC in hot operating state 925 W • at AC in hot operating state per pole 3.1 W insulation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) 610 000 • of the main contacts typical 100 000 • of auxiliary contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 • of auxiliary contacts typical 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 100/12009 SVHC substance name Lead - 7439-92-1 Ambient conditions installation altitude at height above sea level maximum ambient temperature - • during operation -20 +60 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating relequency rated value 20 690 V • at AC-3 rated value maximum 690 V	General technical data	
product extension auxiliary switch Yes power loss [W] for rated value of the current 9.25 W • at AC in hot operating state 9.25 W • at AC in hot operating state per pole 3.1 W insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 64V shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service IIfe (operating cycles) 6 • of the main contacts typical 100 000 • of auxiliary contacts typical 100 000 efference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 SVLS substance name Lead - 7439-92-1 Ambient conditions 1 installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during storage -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating frequency rated value maximum 690 V et at Q-3e rated va	size of the circuit-breaker	S00
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• at AC in hot operating state 9.25 W • at AC in hot operating state per pole 3.1 W insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) - • of the main contacts typical 100 000 • of auxiliary contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Ambient temperature - • during operation -20 +60 °C • during transport -50 +80 °C • during troting to foles for main current circuit	product extension auxiliary switch	Yes
• at AC in hot operating state per pole 3.1 W insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 259 /11 ms mechanical service life (operating cycles) - • of the main contacts typical 100 000 • of auxiliary contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Ambient conditions -20 +60 °C • during operation -20 +60 °C • during transport -50 +80 °C • at AC-3 rated value maximum 690 V • at AC-3 rated value maximum	power loss [W] for rated value of the current	
insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2:27 25g / 11 ms mechanical service life (operating cycles) - • of the main contacts typical 100 000 • of auxiliary contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Ambient conditions - installation altitude at height above sea level maximum 2 000 m ambient temperature - • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage - at AC-3 rated value maximum 600 V - at AC-3 rated value maximum 690 V - at AC-3 rated value maximum 690 V - at AC-3 rated	 at AC in hot operating state 	9.25 W
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Shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) 100 000 • of the main contacts typical 100 000 • of auxiliary contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Ambient conditions 2000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -50 +60 °C • during operation -20 +60 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage 690 V • at AC-3 areated value maximum 690 V • at AC-3 areated value maximum 690 V • at AC-3 areated value maximum 690 V • operating frequency rated value 50 60 Hz operating frequency rated value 50 60 Hz operational current rated value 50 60 Hz	insulation voltage with degree of pollution 3 at AC rated value	690 V
mechanical service life (operating cycles) 100 000 • of the main contacts typical 100 000 • of auxiliary contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Ambient conditions installation altitude at height above sea level maximum ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -50 +80 °C • during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage -0 690 V • at AC-3 rated value 20 690 V • at AC-3 rated value maximum 690 V • operating frequency rated value 50 60 Hz operating frequency rated value 50 60 Hz operational current rated value 12.5 A	surge voltage resistance rated value	6 kV
• of the main contacts typical100 000• of auxiliary contacts typical100 000electrical endurance (operating cycles) typical100 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009SVHC substance nameLead - 7439-92-1Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature-• during operation-20 +60 °C• during storage-50 +80 °C• during transport-50 +80 °Crelative humidity during operation10 95 %Main circuit3number of poles for main current circuit3operating voltage20 690 V• at AC-3 rated value maximum690 V• at AC-3 rated value maximum690 V• operating frequency rated value50 60 Hzoperating frequency rated value50 60 Hzoperational current rated value50 60 Hz	shock resistance according to IEC 60068-2-27	25g / 11 ms
• of auxiliary contacts typical100 000electrical endurance (operating cycles) typical100 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009SVHC substance nameLead - 7439-92-1Ambient conditions2 000 mambient temperature-• during operation-20 +60 °C• during storage-50 +80 °C• during transport-50 +80 °Crelative humidity during operation10 95 %Main circuit3operating voltage20 690 V• at AC-3 rated value maximum690 V• at AC-3e rated value maximum690 Voperating frequency rated value50 60 Hzoperating frequency rated value50 60 Hzoperational current rated value12.5 A	mechanical service life (operating cycles)	
electrical endurance (operating cycles) typical 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Ambient conditions 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage 690 V • at AC-3 rated value maximum 690 V • at AC-3 rated value maximum 690 V • operating frequency rated value 50 600 Hz operating frequency rated value 50 60 Hz	 of the main contacts typical 	100 000
reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • operating frequency rated value 50 600 Hz operating frequency rated value 50 60 Hz operating frequency rated value 50 60 Hz	 of auxiliary contacts typical 	100 000
Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature - • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage - • rated value 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • operating frequency rated value 50 600 Hz operating frequency rated value 50 600 Hz	electrical endurance (operating cycles) typical	100 000
SVHC substance name Lead - 7439-92-1 Ambient conditions 2000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage -20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value 50 60 Hz operating frequency rated value 50 60 Hz operational current rated value 12.5 A	reference code according to IEC 81346-2	Q
Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage -20 690 V • at AC-3 rated value maximum 690 V • at AC-3 rated value maximum 690 V • operating frequency rated value 50 60 Hz operating current rated value 50 60 Hz	Substance Prohibitance (Date)	10/01/2009
installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • at AC-3e rated value maximum 690 V • at AC-3e rated value maximum 690 V • perating frequency rated value 50 60 Hz operating frequency rated value 12.5 A	SVHC substance name	Lead - 7439-92-1
ambient temperature -20 +60 °C • during operation -20 +80 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage - • at AC-3 rated value maximum 690 V • at AC-3e rated value 50 60 Hz • operating frequency rated value 12.5 A	Ambient conditions	
• during operation-20 +60 °C• during storage-50 +80 °C• during transport-50 +80 °Crelative humidity during operation10 95 %Main circuit3number of poles for main current circuit3operating voltage-• rated value20 690 V• at AC-3 rated value maximum690 V• at AC-3e rated value maximum690 V• operating frequency rated value50 60 Hzoperational current rated value12.5 A	installation altitude at height above sea level maximum	2 000 m
• during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage - • rated value 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • perating frequency rated value 50 60 Hz operational current rated value 12.5 A	ambient temperature	
• during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage -50 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • operating frequency rated value 50 60 Hz operational current rated value 12.5 A	during operation	-20 +60 °C
relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage 20 690 V • rated value 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • perating frequency rated value 50 60 Hz operating current rated value 12.5 A	during storage	-50 +80 °C
Main circuit 3 number of poles for main current circuit 3 operating voltage 20 690 V • rated value 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • operating frequency rated value 50 60 Hz operational current rated value 12.5 A	during transport	-50 +80 °C
number of poles for main current circuit 3 operating voltage - • rated value 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 12.5 A	relative humidity during operation	10 95 %
operating voltage20 690 V• rated value20 690 V• at AC-3 rated value maximum690 V• at AC-3e rated value maximum690 V• operating frequency rated value50 60 Hzoperational current rated value12.5 A	Main circuit	
• rated value20 690 V• at AC-3 rated value maximum690 V• at AC-3e rated value maximum690 V• operating frequency rated value50 60 Hzoperational current rated value12.5 A	number of poles for main current circuit	3
• at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 12.5 A	operating voltage	
• at AC-3e rated value maximum690 Voperating frequency rated value50 60 Hzoperational current rated value12.5 A	rated value	20 690 V
operating frequency rated value 50 60 Hz operational current rated value 12.5 A	 at AC-3 rated value maximum 	690 V
operational current rated value 12.5 A	 at AC-3e rated value maximum 	690 V
	operating frequency rated value	50 60 Hz
operational current	operational current rated value	12.5 A
	operational current	

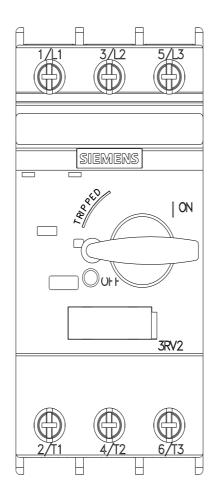
at AC-3 at 400 V rated value	12.5 A
at AC-3e at 400 V rated value	12.5 A
operating power	
• at AC-3	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
● at AC-3e	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection	No
maximum short-circuit current breaking capacity (Icu)	
• at AC at 240 V rated value	100 kA
at AC at 400 V rated value	100 kA
at AC at 500 V rated value	42 kA
at AC at 690 V rated value	6 kA
operating short-circuit current breaking capacity (Ics) at AC	
at 240 V rated value	100 kA
• at 400 V rated value	100 kA
• at 500 V rated value	42 kA
at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip unit	163 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	40.5 A
• at 480 V rated value	12.5 A
at 600 V rated value	12.5 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	0.5 hp
— at 230 V rated value	2 hp
 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	8 hp
— at 575/600 V rated value	10 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link for IT network for short-circuit	
protection of the main circuit	
• at 400 V	gL/gG 63 A
• at 500 V	gL/gG 50 A
• at 690 V	gL/gG 40 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
fastening method height	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm

depth	97 mm
required spacing	
 with side-by-side mounting at the side 	0 mm
 for grounded parts at 400 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for live parts at 400 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for grounded parts at 500 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
● for live parts at 500 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for grounded parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— upwards — backwards	0 mm
— at the side	30 mm
— forwards	0 mm
	Unin
• for live parts at 690 V	50 mm
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
for main contacts	
solid or stranded	$2v (0.75 - 0.5 mm^2) 2v 4 mm^2$
 — finely stranded with core end processing 	$2x (0.75 \dots 2.5 \text{ mm}^2), 2x 4 \text{ mm}^2$
	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
for AWG cables for main contacts	2x (18 14), 2x 12
tightening torque	
for main contacts with screw-type terminals	0.8 1.2 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	
for main contacts	M3
Safety related data	
product function suitable for safety function	Yes
suitability for use	
 safety-related switching on 	No
 safety-related switching OFF 	Yes
service life maximum	10 a
	Yes
test wear-related service life necessary	
test wear-related service life necessary proportion of dangerous failures	
	40 %
proportion of dangerous failures	40 % 50 %
proportion of dangerous failureswith low demand rate according to SN 31920	
 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 	50 %
 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 	50 % 5 000

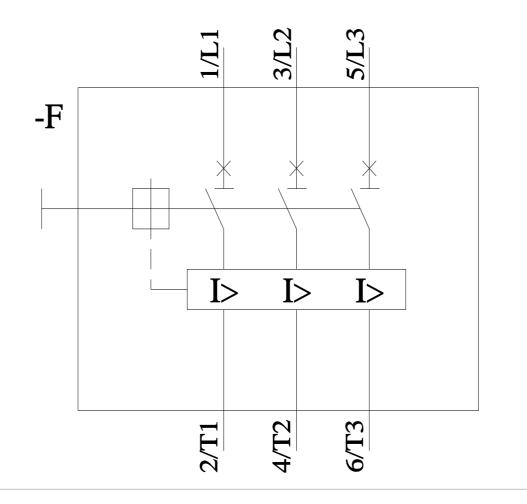
device type according			3		
-	ording to ISO 13849-2 n	ecessary	Yes		
IEC 61508					
afety device type according to IEC 61508-2		Туре А			
T1 value					
 for proof test interval or service life according to IEC 61508 		10 a			
Electrical Safety					
protection class IP on	the front according to I	EC 60529	IP20		
touch protection on th	e front according to IEC	60529	finger-safe, for vertical contact	from the front	
isplay					
display version for swite	hing status		Handle		
pprovals Certificates					
General Product Appr	oval				
CE EG-Konf.	UK CA	<u>Confirmation</u>			KC
General Product Approval	Test Certificates		Marine / Shipping		
EHC	Special Test Certific- ate	<u>Type Test Certi</u> ates/Test Repr		BUREAU VERITAS	
Marine / Shipping			other		
Lloyds Kegister urs	PRS	RINA	<u>Miscellaneous</u>	<u>Confirmation</u>	DE
Railway		Environment			
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Image database (prod	siemens.com/cs/ww/en/p uct images, 2D dimensi siemens.com/bilddb/cax	on drawings, 3D m	odels, device circuit diagram	s, EPLAN macros,)	
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Further characteristics	s (e.g. electrical endura	nce, switching free	auency)		
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