## SIEMENS

## Data sheet

## 3RV2042-4MA10



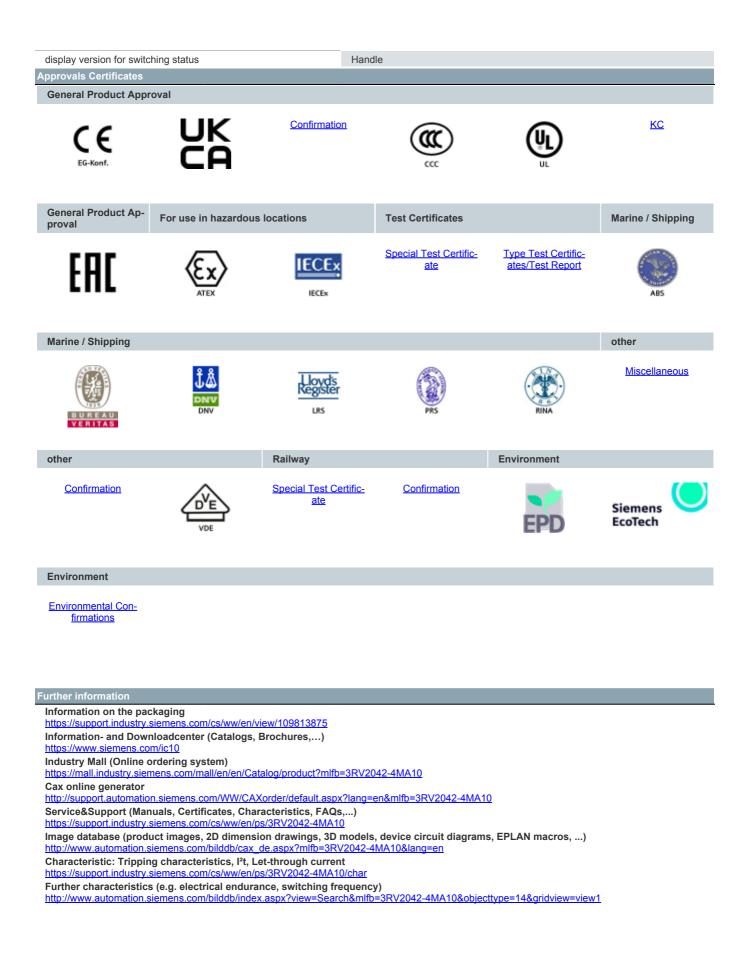
Circuit breaker size S3 for motor protection, CLASS 10 A-release 80...100 A N-release 1300 A screw terminal Increased switching capacity 100 kA  $\,$ 

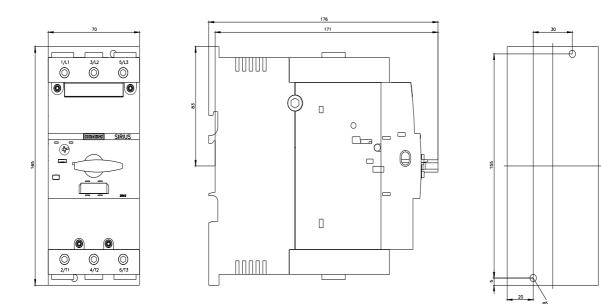
149 Atr	
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	\$3
size of contactor can be combined company-specific	S3
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	44 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	14.7 W
insulation voltage with degree of pollution 3 at AC rated value	1 000 V
surge voltage resistance rated value	8 kV
shock resistance according to IEC 60068-2-27	25g / 11 ms Sinus
mechanical service life (operating cycles)	
<ul> <li>of the main contacts typical</li> </ul>	25 000
<ul> <li>of auxiliary contacts typical</li> </ul>	25 000
electrical endurance (operating cycles) typical	25 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
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	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	80 100 A
operating voltage	
<ul> <li>rated value</li> </ul>	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	100 A
operational current	
• at AC-3 at 400 V rated value	100 A

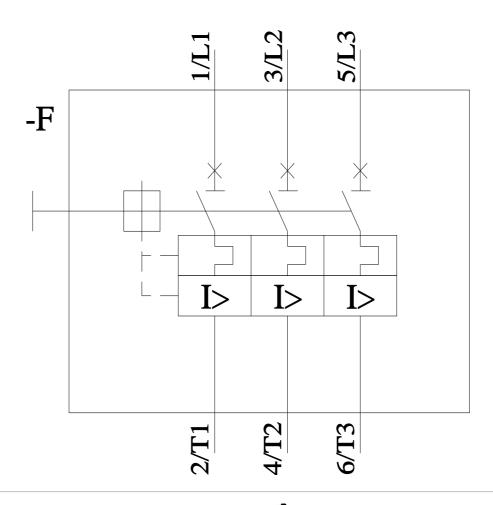
	400 A
at AC-3e at 400 V rated value	100 A
operating power	
• at AC-3	00.114
— at 230 V rated value	30 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	90 kW
• at AC-3e	
— at 230 V rated value	30 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	90 kW
operating frequency	
<ul> <li>at AC-3 maximum</li> </ul>	15 1/h
● at AC-3e maximum	15 1/h
Protective and monitoring functions	
product function	
<ul> <li>ground fault detection</li> </ul>	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
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	10 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	50 kA
• at 500 V rated value	5 kA
• at 690 V rated value	3 kA
response value current of instantaneous short-circuit trip unit	1 300 A
UL/CSA ratings	
OL/OOA ratings	
full-load current (FLA) for 3-phase AC motor	100 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value	100 A 100 A
full-load current (FLA) for 3-phase AC motor       • at 480 V rated value         • at 600 V rated value	100 A 100 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp]	
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp]         • for single-phase AC motor	100 A
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp]         • for single-phase AC motor         — at 110/120 V rated value	100 A 7.5 hp
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value	100 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor	100 A 7.5 hp 20 hp
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp]         • for single-phase AC motor         — at 110/120 V rated value         — at 230 V rated value         • for 3-phase AC motor         — at 200/208 V rated value	100 A 7.5 hp 20 hp 30 hp
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp]         • for single-phase AC motor         — at 110/120 V rated value         — at 230 V rated value         • for 3-phase AC motor         — at 200/208 V rated value         — at 220/230 V rated value	100 A 7.5 hp 20 hp 30 hp 40 hp
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp]         • for single-phase AC motor         — at 110/120 V rated value         — at 230 V rated value         • for 3-phase AC motor         — at 200/208 V rated value         — at 220/230 V rated value         — at 460/480 V rated value	100 A 7.5 hp 20 hp 30 hp 40 hp 75 hp
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value	100 A 7.5 hp 20 hp 30 hp 40 hp
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp]         • for single-phase AC motor         — at 110/120 V rated value         — at 230 V rated value         • for 3-phase AC motor         — at 200/208 V rated value         — at 220/230 V rated value         — at 460/480 V rated value         — at 575/600 V rated value         Short-circuit protection	100 A 7.5 hp 20 hp 30 hp 40 hp 75 hp 100 hp
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp]         • for single-phase AC motor         — at 110/120 V rated value         — at 230 V rated value         • for 3-phase AC motor         — at 200/208 V rated value         — at 220/230 V rated value         — at 460/480 V rated value         — at 575/600 V rated value         Short-circuit protection	100 A 7.5 hp 20 hp 30 hp 40 hp 75 hp 100 hp
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp]         • for single-phase AC motor         — at 110/120 V rated value         — at 230 V rated value         • for 3-phase AC motor         — at 200/208 V rated value         — at 220/230 V rated value         — at 460/480 V rated value         — at 575/600 V rated value         Short-circuit protection         design of the short-circuit trip	100 A 7.5 hp 20 hp 30 hp 40 hp 75 hp 100 hp
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp]         • for single-phase AC motor         — at 110/120 V rated value         — at 230 V rated value         • for 3-phase AC motor         — at 200/208 V rated value         — at 220/230 V rated value         — at 460/480 V rated value         — at 575/600 V rated value         Short-circuit protection         design of the short-circuit trip         Installation/ mounting/ dimensions	100 A 7.5 hp 20 hp 30 hp 40 hp 75 hp 100 hp Yes magnetic
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp]         • for single-phase AC motor         — at 110/120 V rated value         — at 230 V rated value         • for 3-phase AC motor         — at 200/208 V rated value         — at 220/230 V rated value         — at 460/480 V rated value         — at 575/600 V rated value         Short-circuit protection         design of the short-circuit trip         Installation/ mounting/ dimensions         mounting position	100 A 7.5 hp 20 hp 30 hp 40 hp 75 hp 100 hp Yes magnetic any
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp]         • for single-phase AC motor         — at 110/120 V rated value         — at 230 V rated value         • for 3-phase AC motor         — at 200/208 V rated value         — at 220/230 V rated value         — at 460/480 V rated value         — at 575/600 V rated value         Short-circuit protection         design of the short-circuit trip         Installation/ mounting/ dimensions         mounting position         fastening method	100 A 7.5 hp 20 hp 30 hp 40 hp 75 hp 100 hp Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp]         • for single-phase AC motor         - at 110/120 V rated value         - at 230 V rated value         • for 3-phase AC motor         - at 200/208 V rated value         - at 220/230 V rated value         - at 460/480 V rated value         - at 575/600 V rated value         Short-circuit protection         product function short circuit protection         design of the short-circuit trip         Installation/ mounting/ dimensions         mounting position         fastening method         height	100 A 7.5 hp 20 hp 30 hp 40 hp 75 hp 100 hp Yes magnetic Any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 165 mm
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp]         • for single-phase AC motor         - at 110/120 V rated value         - at 230 V rated value         • for 3-phase AC motor         - at 200/208 V rated value         - at 220/230 V rated value         - at 460/480 V rated value         - at 575/600 V rated value         - at 575/600 V rated value         Short-circuit protection         design of the short-circuit trip         Installation/ mounting/ dimensions         mounting position         fastening method         height         width	100 A 7.5 hp 20 hp 30 hp 40 hp 75 hp 100 hp Yes magnetic 40 hp 75 mm 100 hp 100 hp
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         • at 600 V rated value         yielded mechanical performance [hp]         • for single-phase AC motor         — at 110/120 V rated value         — at 230 V rated value         • for 3-phase AC motor         — at 200/208 V rated value         — at 220/230 V rated value         — at 460/480 V rated value         — at 575/600 V rated value         — at 575/600 V rated value         Short-circuit protection         design of the short-circuit trip         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth	100 A 7.5 hp 20 hp 30 hp 40 hp 75 hp 100 hp Yes magnetic Any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 165 mm
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp]         • for single-phase AC motor         — at 110/120 V rated value         — at 230 V rated value         • for 3-phase AC motor         — at 200/208 V rated value         — at 220/230 V rated value         — at 460/480 V rated value         — at 575/600 V rated value         Short-circuit protection         design of the short-circuit trip         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth	100 A 7.5 hp 20 hp 30 hp 40 hp 75 hp 100 hp Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 165 mm 70 mm 176 mm
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp]         • for single-phase AC motor         — at 110/120 V rated value         — at 230 V rated value         • for 3-phase AC motor         — at 200/208 V rated value         — at 220/230 V rated value         — at 460/480 V rated value         — at 575/600 V rated value         Short-circuit protection         product function short circuit protection         design of the short-circuit trip         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing         • with side-by-side mounting at the side	100 A 7.5 hp 20 hp 30 hp 40 hp 75 hp 100 hp Yes magnetic 40 hp 75 mm 100 hp 100 hp
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp]         • for single-phase AC motor         — at 110/120 V rated value         — at 230 V rated value         • for 3-phase AC motor         — at 200/208 V rated value         — at 220/230 V rated value         — at 460/480 V rated value         — at 575/600 V rated value         — at 575/600 V rated value         Short-circuit protection         product function short circuit protection         design of the short-circuit trip         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing         • with side-by-side mounting at the side         • for grounded parts at 400 V	100 A 7.5 hp 20 hp 30 hp 40 hp 75 hp 100 hp Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 165 mm 70 mm 176 mm 0 mm
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp]         • for single-phase AC motor         - at 110/120 V rated value         - at 230 V rated value         • for 3-phase AC motor         - at 200/208 V rated value         - at 220/230 V rated value         - at 220/230 V rated value         - at 460/480 V rated value         - at 575/600 V rated value         - at 575/600 V rated value         Short-circuit protection         design of the short-circuit protection         design of the short-circuit trip         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing         • with side-by-side mounting at the side         • for grounded parts at 400 V         - downwards	100 A 7.5 hp 20 hp 30 hp 40 hp 75 hp 100 hp Yes magnetic 40 hp 75 m 100 hp 40 hp 75 hp 100 hp 40 hp 75 hp 100 hp 40 hp 75 hp 100 hp 40 hp 70 mm 70 mm 70 mm
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp]         • for single-phase AC motor         - at 110/120 V rated value         - at 230 V rated value         • for 3-phase AC motor         - at 200/208 V rated value         - at 220/230 V rated value         - at 460/480 V rated value         - at 575/600 V rated value         - at 575/600 V rated value         Short-circuit protection         product function short circuit protection         design of the short-circuit trip         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing         • with side-by-side mounting at the side         • for grounded parts at 400 V	100 A 7.5 hp 20 hp 30 hp 40 hp 75 hp 100 hp Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 165 mm 70 mm 176 mm 0 mm

• for live parts at 400 V	
— downwards	70 mm
— upwards	70 mm
— at the side	10 mm
<ul> <li>for grounded parts at 500 V</li> </ul>	
— downwards	110 mm
— upwards	110 mm
— at the side	10 mm
<ul> <li>for live parts at 500 V</li> </ul>	
— downwards	110 mm
— upwards	110 mm
— at the side	10 mm
<ul> <li>for grounded parts at 690 V</li> </ul>	
- downwards	150 mm
— upwards	150 mm
— at the side	30 mm
• for live parts at 690 V	
— downwards	150 mm
— upwards	150 mm
— upwards — at the side	30 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	2x (2.5 16 mm²)
— solid — solid or stranded	2x (2.5 10 mm <sup>2</sup> ) 2x (2.5 50 mm <sup>2</sup> ), 1x (10 70 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> </ul>	2x (2.5 35 mm <sup>2</sup> ), 1x (2.5 50 mm <sup>2</sup> )
- finely stranded without core end processing	2x (10 35 mm²), 1x (10 50 mm²)
tightening torque	
<ul> <li>for main contacts for ring cable lug</li> </ul>	4.5 6 N·m
outer diameter of the usable ring cable lug maximum	19 mm
tightening torque	
tightening torque • for main contacts with screw-type terminals	19 mm 4.5 6 N⋅m
tightening torque	
tightening torque • for main contacts with screw-type terminals	
tightening torque • for main contacts with screw-type terminals Safety related data	4.5 6 N·m
tightening torque • for main contacts with screw-type terminals Safety related data product function suitable for safety function	4.5 6 N·m
tightening torque <ul> <li>for main contacts with screw-type terminals</li> </ul> Safety related data product function suitable for safety function suitability for use	4.5 6 N·m Yes
tightening torque • for main contacts with screw-type terminals Safety related data product function suitable for safety function suitability for use • safety-related switching on	4.5 6 N·m Yes No
tightening torque • for main contacts with screw-type terminals Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF	4.5 6 N·m Yes No Yes
tightening torque • for main contacts with screw-type terminals Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum	4.5 6 N·m Yes No Yes 10 a
tightening torque • for main contacts with screw-type terminals Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary	4.5 6 N·m Yes No Yes 10 a
tightening torque         • for main contacts with screw-type terminals         Safety related data         product function suitable for safety function         suitability for use         • safety-related switching on         • safety-related switching OFF         service life maximum         test wear-related service life necessary         proportion of dangerous failures         • with low demand rate according to SN 31920	4.5 6 N·m Yes No Yes 10 a Yes
tightening torque • for main contacts with screw-type terminals Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920	4.5 6 N·m Yes No Yes 10 a Yes 40 % 50 %
tightening torque • for main contacts with screw-type terminals Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 B10 value with high demand rate according to SN 31920	4.5 6 N·m Yes No Yes 10 a Yes 40 % 50 % 5 000
tightening torque • for main contacts with screw-type terminals Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920	4.5 6 N·m Yes No Yes 10 a Yes 40 % 50 %
tightening torque • for main contacts with screw-type terminals Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary 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	4.5 6 N·m Yes No Yes 10 a Yes 40 % 50 % 5 000
tightening torque • for main contacts with screw-type terminals Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary 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 31920	4.5 6 N·m Yes No Yes 10 a Yes 40 % 50 % 5 000
tightening torque • for main contacts with screw-type terminals Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary 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 31920 ISO 13849	4.5 6 N·m Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT
tightening torque • for main contacts with screw-type terminals Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary 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 31920 ISO 13849 device type according to ISO 13849-1	4.5 6 N·m Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT
tightening torque • for main contacts with screw-type terminals Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary 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 31920 ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary	4.5 6 N·m Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT
tightening torque • for main contacts with screw-type terminals Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 B10 value 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 31920 ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary IEC 61508	4.5 6 N·m Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT 3 Yes
tightening torque • for main contacts with screw-type terminals Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary 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 31920 ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary IEC 61508 safety device type according to IEC 61508-2	4.5 6 N·m Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT 3 Yes
tightening torque         • for main contacts with screw-type terminals         Safety related data         product function suitable for safety function         suitability for use         • safety-related switching on         • safety-related switching OFF         service life maximum         test wear-related service life necessary         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 31920         ISO 13849         device type according to ISO 13849-1         overdimensioning according to ISO 13849-2 necessary         IEC 61508         safety device type according to IEC 61508-2         T1 value         • for proof test interval or service life according to IEC 61508	4.5 6 N·m         Yes         No         Yes         10 a         Yes         40 %         50 %         5 000         50 FIT         3         Yes         Type A
tightening torque • for main contacts with screw-type terminals Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary 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 31920 ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary IEC 61508 safety device type according to IEC 61508-2 T1 value • for proof test interval or service life according to IEC	4.5 6 N·m         Yes         No         Yes         10 a         Yes         40 %         50 %         5 000         50 FIT         3         Yes         Type A
tightening torque         • for main contacts with screw-type terminals         Safety related data         product function suitable for safety function         suitability for use         • safety-related switching on         • safety-related switching OFF         service life maximum         test wear-related service life necessary         proportion of dangerous failures         • with low 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 31920         failure rate [FIT] with low demand rate according to SN 31920         ISO 13849         device type according to ISO 13849-1         overdimensioning according to ISO 13849-2 necessary         IEC 61508         safety device type according to IEC 61508-2         T1 value         • for proof test interval or service life according to IEC 61508         Electrical Safety         protection class IP on the front according to IEC 60529	4.5 6 N·m         Yes         No         Yes         10 a         Yes         40 %         50 %         5 000         50 FIT         3         Yes         Type A
tightening torque         • for main contacts with screw-type terminals         Safety related data         product function suitable for safety function         suitability for use         • safety-related switching on         • safety-related switching OFF         service life maximum         test wear-related service life necessary         proportion of dangerous failures         • with low demand rate according to SN 31920         e with high demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         ISO 13849         device type according to ISO 13849-1         overdimensioning according to ISO 13849-2 necessary         IEC 61508         safety device type according to IEC 61508-2         T1 value         • for proof test interval or service life according to IEC 61508         Electrical Safety	4.5 6 N·m         Yes         No         Yes         10 a         Yes         40 %         50 %         5 000         50 FIT         3         Yes         Type A         10 a

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