## SIEMENS

## Data sheet

## 3RV2342-4RC10



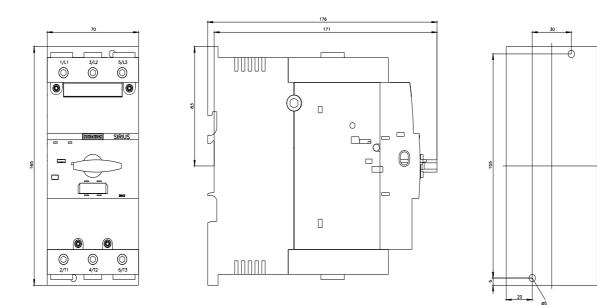
Circuit breaker size S3 for starter combination Rated current 84 A N-release 1170 A screw terminal Increased switching capacity 100 kA

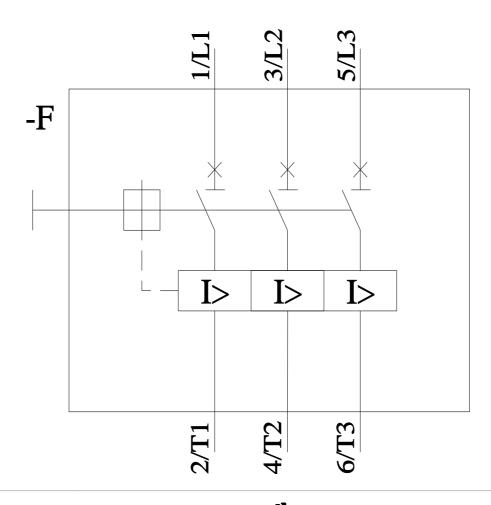
product brand name	SIRIUS		
product designation	Circuit breaker		
design of the product	For starter combinations		
product type designation	3RV2		
General technical data			
size of the circuit-breaker	S3		
size of contactor can be combined company-specific	S3		
product extension auxiliary switch	Yes		
power loss [W] for rated value of the current			
<ul> <li>at AC in hot operating state</li> </ul>	34 W		
<ul> <li>at AC in hot operating state per pole</li> </ul>	11.3 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		
operating voltage			
rated value	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	84 A		
operational current			

<ul> <li>at AC-3 at 400 V rated value</li> </ul>	84 A
<ul> <li>at AC-3e at 400 V rated value</li> </ul>	84 A
operating power	
• at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
• at AC-3e	
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
operating frequency	
<ul> <li>at AC-3 maximum</li> </ul>	15 1/h
<ul> <li>at AC-3e maximum</li> </ul>	15 1/h
Protective and monitoring functions	
product function	
<ul> <li>ground fault detection</li> </ul>	No
phase failure detection	No
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 (lcs) 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	1 170 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	84 A
• at 600 V rated value	84 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	7.5 hp
— at 230 V rated value	15 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	25 hp
— at 220/230 V rated value	30 hp
— at 460/480 V rated value	60 hp
— at 575/600 V rated value	75 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the short-circuit trip Installation/ mounting/ dimensions	
Installation/ mounting/ dimensions	magnetic
Installation/ mounting/ dimensions mounting position	magnetic any
Installation/ mounting/ dimensions mounting position fastening method	magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
Installation/ mounting/ dimensions mounting position fastening method height	magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 165 mm
Installation/ mounting/ dimensions mounting position fastening method height width	magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 165 mm 70 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth	magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 165 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 165 mm 70 mm 176 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting at the side	magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 165 mm 70 mm
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	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
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	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 70 mm
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	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

• In the parts at 400 V- dowards70 mn- upwards70 mn- upwards70 mn- upwards10 mn- dowards110 mn- upwards10 mn- upwards100 mn <trr>- upwards100 mn</trr>	• for live parts at 400 V	
- uwords in a field of a sai 500 V - downwards 100 mm - upwords 000 mm - upwords		
<ul> <li>is for provide part at 500 V</li> <li>- downads</li> <li>10 mm</li> <li>- at the side</li> <li>10 mm</li> <li>- downaads</li> <li>10 mm</li> <li>- at the side</li> <li>0 mm</li> <li>- at the side</li> <li>0 mm</li> <li>- downaads</li> <li>0 mm</li> <li>- beckwards</li> <li>00 mm</li> <li>- beckwards</li> <li>- beckwards</li> <li>00 mm</li> <li>- beckwards</li> <li>- beckwards<td>-</td><td></td></li></ul>	-	
downwards 10 mm spreads 150 V spreads 150 V 		10 mm
	<ul> <li>for grounded parts at 500 V</li> </ul>	
	— downwards	110 mm
<ul> <li>- for ive parts all SOV V</li> <li>- downwards</li> <li>10 mm</li> <li>- downwards</li> <li>10 mm</li> <li>- at the side</li> <li>10 mm</li> <li>- at the side</li> <li>00 mm</li> <li>- downwards</li> <li>150 mm</li> <li>- downwards</li> <li>00 mm</li> <li>- downwards</li> <li>00 mm</li> <li>- backwards</li> <li>0 mm</li> <li>- backwards</li> <li>- at the side</li> <li>2 (2 5 50 mm)</li> <li>- as blot on stranded</li> <li>2 (2 5 50 mm)</li> <li>- backwards</li> <li>- mely stranded with core end processing</li> <li>2 (2 5 50 mm)</li> <li>- backwards</li> <li>- for main contack with sore with processing</li> <li>2 (2 5 50 mm)</li> <li>- for main contack with sore with processing</li> <li>2 (2 5 50 mm)</li> <li>- for main contack with sore with processing</li> <li>2 (2 5 50 mm)</li> <li>- for main contack with sore with processing</li>     &lt;</ul>	— upwards	110 mm
downards110 mmuwards100 mmdownards100 mmdownards150 mmdownards150 mmuyards150 mmuyards00 mma the side30 mmdownards00 mmdownards00 mmdownards160 mmdownards160 mmdownards160 mmdownards00 mmdownards160 mmdownards00 mmdownards22 (2550 mm?)downards22 (2550 mm?)downards24 (2550 mm?)downards456 N mdownards10 astal-do	— at the side	10 mm
- upwards     10 mm       - at the sale     10 mm       - of or younds parts at 900 V     150 mm       - upwards     150 mm       - upwards     00 mm       - upwards     0 mm       - backwards     0 mm       - backwards     0 mm       - backwards     0 mm       - backwards     0 mm       - downwards     150 mm       - backwards     0 mm       - downwards     0 mm       - downards     0 mm       - downards     0 mm       - downards     2 (2550 mm?) tr      - for main contacts     - for main contacts       - of or main contacts     - for main contacts       - exting     - for main contacts       - exting     - for main contacts       - exting     - for main contacts       - extr	<ul> <li>for live parts at 500 V</li> </ul>	
	— downwards	110 mm
• for grounded parts at 680 V150 mm- downwards150 mm- backwards0 mm- backwards0 mm- this aide30 mm- forwards0 mm- forwards150 mm- forwards150 mm- downwards150 mm- downwards150 mm- backwards0 mm- backwards30 mm- backwards50 mm?- backwards50 mm?- backwards50 mm?- backwards2x (25 50 mm?) 1x (10 70 mm?)- backwards50 mm?- backwards2x (25 50 mm?) 1x (10 50 mm?)- backwards45 6 NmSafety-related without core and processing2x (10 35 mm?) 1x (10 50 mm?)- backwards10 a- backwards50 mm?- backwards50 mm?- backwards50 mm?- backwards50 mm	— upwards	110 mm
- downards150 mm- upwards0 mm- backwards0 mm- orwards0 mm- for live parts at 680 V150 mm- downards150 mm- downards150 mm- downards150 mm- upwards0 mm- upwards0 mm- upwards0 mm- backwards0 mm- the side30 mm- for vards0 mm- for vards2 (2 5 50 mm²)- for vards3 5 6 Nmupdar dimeter of the usable ring cable lug4 5 6 Nmupdar dimeter of the usable ring cable lug4 5 6 Nmupdar dimeter of the usable ring cable lug10 a- for vards10 a- sately-related switching ofNo- sately-related switching of10 a- sately-related switching of S 13 19203	— at the side	10 mm
	<ul> <li>for grounded parts at 690 V</li> </ul>	
	— downwards	150 mm
- althe side30 mm- forwards0 mmof orle pais at 600 V- downwards150 mm- upwards150 mm- upwards0 mm- backwards0 mm- at the side30 mm- at the side0 mm- for main current circuitscrew-type terminalsranagement of electrical connectors for main current circuitscrew-type terminalsranagement of electrical connectors for main current circuitscrew-type terminalsranagement of electrical connectors for main current circuitto main current circuittype of connectable conductor cross-sectionsfor main current circuitof or main contacts2x (25 16 mm²)- sold2x (25 35 mm²), 1x (10 70 mm²)- sold or stranded2x (25 35 mm²), 1x (10 70 mm²)- for main contacts for ing cable lug45 60 Nmouter diameter of the usable ring cable lug maximum19 mmtightening torqueing cama contacts without core end processing- for main contacts without core end processing2x (10 35 mm²), 1x (10 50 mm²)- for main contacts without core end processing2x (10 35 mm²), 1x (10 50 mm²)outer diameter of the usable ring cable lug maximum19 mmtightening torqueing cama contacts without core• for main contacts withoring onNosafety-related switching onNo• safety-related switching onNo• safety-related switching onNo• safety-related switching onNo• safety-related sw	— upwards	150 mm
forwards0 mm• for live parts at 60 V150 mm upwards150 mm upwards0 mm backwards0 mm backwards0 mm at the side30 mm forwards0 mm forwards2 k2 (2 m. 16 mm*) forwards2 k2 (2 m. 16 mm*) forwards2 k2 (2 m. 16 mm*) solid or stranded2 k2 (2 m. 16 mm*) solid or stranded2 k2 (2 m. 16 mm*) finely stranded with our end processing2 k (10 35 mm*), 1 k (10 50 mm*) finely stranded with our end processing2 k (10 35 mm*), 1 k2 (10 50 mm*) formain contacts for ring cable lug4 mm formain contacts with screw-type terminals4 mm<	— backwards	0 mm
<ul> <li>for live parts at 690 V</li> <li>- downwards</li> <li>40 wards</li> <li>50 mm</li> <li>- backwards</li> <li>0 mm</li> <li>- backwards</li> <li>0 mm</li> <li>- backwards</li> <li>0 mm</li> <li>- hards</li> <li>0 mm</li> <li>- hards</li> <li>0 mm</li> <li>- dowards</li> <li>or main current circuit</li> <li>sorew-type terminals</li> <li>arrangement of electrical connectors for main current circuit</li> <li>a for main contacts</li> <li>a for main contacts with core end processing</li> <li>a for main contacts with core end processing</li> <li>a for main contacts with screw-type terminals</li> <li>a f</li></ul>	— at the side	30 mm
	— forwards	0 mm
- upwards     150 mm       - backwards     0 mm       - at the side     30 mm       - forwards     0 mm       Connectional Terminals     Top and bottom       type of electrical connectors for main current circuit     Top and bottom       arrangement of electrical connectors for main current     Top and bottom       tricuit     screw-type terminals       arrangement of electrical connectors for main current     Top and bottom       tricuit     screw-type terminals       arrangement of electrical connectors for main current     Top and bottom       tricuit     screw-type terminals       arrangement of electrical connectors for main current     Top and bottom       tricuit     top and bottom       tricuit     screw-type terminals       - solid     2x (25 16 mm <sup>2</sup> )       - solid or stranded     2x (25 35 mm <sup>2</sup> ), 1x (10 70 mm <sup>3</sup> )       - fiely stranded without core end processing     2x (25 35 mm <sup>2</sup> ), 1x (10 50 mm <sup>3</sup> )       tight neind oritacts with screw-type terminals     4.5 6 Nm       other diamet or the usable ring cable lug maximum     19 mm       tight neind dela     vest       product function suitable for safety function     Yes       safety-related swriching on     No       • safety-related swriching on     No       • safety-related swr	<ul> <li>for live parts at 690 V</li> </ul>	
backwards     0 mm      at the side     30 mm       0-forwards     0 mm       connections/ Terminals     sorew-type terminals       for main content circuit     sorew-type terminals       arrangement of electrical connectors for main current circuit     Top and bottom       for main contacts     2x (2.5 16 mm²)       solid or stranded     2x (2.5 50 mm²), 1x (10 70 m²)       finely stranded with core end processing     2x (2.5 50 mm²), 1x (10 70 m²)       finely stranded with core end processing     2x (2.5 50 mm²), 1x (10 50 mm²)       finely stranded without core end processing     2x (2.5 50 mm²), 1x (10 50 mm²)       - of or main contacts for ring cable lug     4.5 6 N m       outer diameter of the usable ring cable lug maximum     19 mm       tightening torque     4.5 6 N m       • for main contacts with screw-type terminals     4.5 6 N m       soldy related data     9 mm       product function suitable for safety function     Yes       suitability for use     9 mm       • safety-related sourcenting in according to SN 31920     50 %       B10 value with high demand rate according to SN 31920     50 %       B10 value with high demand rate according to SN 31920     50 %       State     50 %     50 00       failure rate [FIT] with low domand rate	— downwards	150 mm
at the side     30 mm       forwards     0 mm       Connections/Terminals     70 mm       type of electrical connection     screw-type terminals       for main current circuit     Top and bottom       arrangement of electrical connectors for main current     Top and bottom       solid     2x (2.5 16 mm²)       solid or stranded     2x (2.5 50 mm²), 1x (10 70 mm²)       forly stranded with ore end processing     2x (2.5 50 mm²), 1x (10 50 mm²)       forly stranded without core end processing     2x (10 35 mm²), 1x (10 50 mm²)       for fain contracts     for main contracts for ring cable lug       for fain contracts with screw-type terminals     4.5 6 Nm       outer dlameter of the usable ring cable lug maximum     19 mm       tightening torque     for main contracts with screw-type terminals       for wards     4.5 6 Nm       Safety related data     Yes       product function suitable for safety function     Yes       suitability for use     safety-related switching on       safety-related switching OFF     Yes       service life maximum     10 a       test wear-related service life necessary     Yes       ewith with demand rate according to SN 31920     5000       failure rate [FIT] with lew demand rate according to SN 31920     5000	— upwards	150 mm
forwards     0 mm       Connectional/ Ferminals       type of electrical connection          • for main current circuit       Top and bottom         arrangement of electrical connectors for main current          íror main contacts <ul> <li>- solid</li> <li>2x (2.5 16 mm²)</li> <li>- solid or stranded</li> <li>2x (2.5 30 mm²), 1x (10 70 mm²)</li> <li>- finely stranded with core end processing</li> <li>2x (2.5 35 mm²), 1x (10 50 mm²)</li> <li>- finely stranded without core end processing</li> <li>2x (2.5 35 mm²), 1x (10 50 mm²)</li> <li>- finely stranded without core end processing</li> <li>2x (2.5 6 N m</li> <li>outer diameter of the usable ring cable lug</li> <li>4.5 6 N m</li> <li>outer diameter of the usable fing cable lug maximum</li> <li>19 mm</li> <li>tightening torque</li> <li>• for main contacts for ring cable lug maximum</li> <li>19 mm</li> <li>safely-related switching on</li> <li>safely-related switching on</li> <li>safely-related switching OFF</li> <li>yes</li> <li>safely-related switching OFF</li> <li>yes</li> <li>safely-related service life necessary</li> <li>Yes</li> <li>with low demand rate according to SN 31920</li> <li>50 %</li> <li>BIO value with high demand rate according to SN 31920</li> <li>50 %</li> <li>BIO value with high demand rate according to SN 31920</li> <li>50 %</li> <li>SIO 13849</li> <li>device type according to ISO 13849-1</li> <li>overdimensioning according to ISO 13849-2 necessary</li> <li>Yes</li> <li>Safety related to ISO 13849-1</li> <li>overdimensioning according to ISO 13849-2 necessary</li> <li>Yes</li></ul>	— backwards	0 mm
Connections/ type of electrical connectors         screw-type terminals           • for main current circuit         screw-type terminals           type of connectable conductor cross-sections         • for main contacts           • solid or stranded         2x (2.5 16 mm²)           — solid or stranded         2x (2.5 35 mm²), 1x (10 70 mm²)           — solid or stranded with core end processing         2x (10 35 mm²), 1x (10 70 mm²)           — finely stranded with core end processing         2x (10 35 mm²), 1x (10 50 mm²)           • for main contacts for ring cable lug         4.5 6 N·m           outer diameter of the usable ring cable lug maximum         19 mm           tightening torque         • for main contacts with screw-type terminals           • for main contacts with screw-type terminals         4.5 6 N·m           Safety related data	— at the side	30 mm
type of electrical connection       screw-type terminals         efor main current diricult       Top and bottom         arrangement of electrical connectors for main current       Top and bottom         irrow of connectable conductor cross-sections       • for main contacts         - solid       2x (2.5 16 mm²)         - solid or stranded       2x (2.5 50 mm²), 1x (10 70 mm²)         - finely stranded with core end processing       2x (2.5 35 mm²), 1x (2.5 50 mm²)         - finely stranded without core end processing       2x (1.0 35 mm²), 1x (1.0 50 mm²)         e for main contacts for ring cable lug       4.5 6 N·m         outer diameter of the usable ring cable lug maximum       19 mm         tightening torque       • for main contacts with screw-type terminals         • for main contacts with screw-type terminals       4.5 6 N·m         Safety related data       product function suitable for safety function         yes       yes         service life maximum       10 a         test wear-related service life necessary       Yes         proportion of dangerous failures       40 %         • with logh demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920	— forwards	0 mm
• for main current circuit screen-type terminals     Top and bottom     Top and bottom and rate according to SN 31920     Top and bottom suitable for asset princip and and rate according to SN 31920     Top and bottom and rate according to SN 31920     Top and bottom and rate according to SN 31920     Top and bottom and rate acco	Connections/ Terminals	
arrangement of electrical connectors for main current circuit       Top and bottom         type of connectable conductor cross-sections       •         • for main contacts       -	type of electrical connection	
chronic conductor cross-sections         • for main contacts         - solid       2x (2.5 16 mm²)         - solid standed       2x (2.5 50 mm²), 1x (10 70 mm²)         - finely stranded with core end processing       2x (2.5 50 mm²), 1x (10 50 mm²)         - finely stranded without core end processing       2x (2.5 50 mm²), 1x (10 50 mm²)         - finely stranded without core end processing       2x (10 35 mm²), 1x (10 50 mm²)         tightening torque       • for main contacts for ring cable lug maximum         • for main contacts with screw-type terminals       4.5 6 N·m         Safety related data	<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for main contacts</li> <li>- solid</li> <li>2x (25 16 mm<sup>2</sup>)</li> <li>2x (25 50 mm<sup>3</sup>), 1x (10 70 mm<sup>2</sup>)</li> <li>- finely stranded with core end processing</li> <li>2x (25 35 mm<sup>3</sup>), 1x (25 50 mm<sup>3</sup>)</li> <li>- finely stranded with core end processing</li> <li>2x (10 35 mm<sup>3</sup>), 1x (25 50 mm<sup>3</sup>)</li> <li>- finely stranded without core end processing</li> <li>2x (10 35 mm<sup>3</sup>), 1x (10 50 mm<sup>3</sup>)</li> <li>- finely stranded without core end processing</li> <li>2x (10 35 mm<sup>3</sup>), 1x (10 50 mm<sup>3</sup>)</li> <li>- finely stranded without core end processing</li> <li>2x (10 35 mm<sup>3</sup>), 1x (10 50 mm<sup>3</sup>)</li> <li>- finely stranded without core end processing</li> <li>2x (10 35 mm<sup>3</sup>), 1x (10 50 mm<sup>3</sup>)</li> <li>- finely stranded without core end processing</li> <li>2x (10 35 mm<sup>3</sup>), 1x (10 50 mm<sup>3</sup>)</li> <li>- finely stranded without core end processing</li> <li>2x (10 35 mm<sup>3</sup>), 1x (10 50 mm<sup>3</sup>)</li> <li>- finely stranded without core end processing</li> <li>2x (10 35 mm<sup>3</sup>), 1x (10 50 mm<sup>3</sup>)</li> <li>- finely stranded without core end processing</li> <li>2x (10 35 mm<sup>3</sup>), 1x (10 50 mm<sup>3</sup>)</li> <li>- finely stranded with core end processing</li> <li>2x (10 35 mm<sup>3</sup>), 1x (10 50 mm<sup>3</sup>)</li> <li>- finely stranded with core end processing</li> <li>2x (10 35 mm<sup>3</sup>), 1x (10 50 mm<sup>3</sup>)</li> <li>- finely stranded with core end processing</li> <li>- finely stranded with score maximum</li> <li>19 mm</li> <li>- finely stranded with score with score-type terminals</li> <li>4.5 6 N·m</li> <li>Safety related switching OFF</li> <li>Yes</li> <li>- safety-related switching OFF</li> <li>Yes</li> <li>- safety force life necessary</li> <li>Yes</li> <li>- safety descording to SN 31920</li> <li>50 %</li> <li>B10 value with high demand rate according to SN 31920</li> <li>50 %</li> <li>FI</li></ul>		Top and bottom
solid2x (2.5 16 mm²) solid or stranded2x (2.5 50 mm²), 1x (10 70 mm²) finely stranded with core end processing2x (2.5 35 mm²), 1x (2.5 50 mm²) finely stranded without core end processing2x (10 35 mm²), 1x (10 50 mm²)tightening torque for main contacts for ring cable lug4.5 6 N·mouter diameter of the usable ring cable lug maximum19 mmtightening torque for main contacts with screw-type terminals4.5 6 N·mSafety related data	type of connectable conductor cross-sections	
solid or stranded2x (2,5 50 mm²), 1x (10 70 mm²) finely stranded with core end processing2x (2,5 35 mm²), 1x (2,5 50 mm²) finely stranded without core end processing2x (10 35 mm²), 1x (10 50 mm²)ightening torque for main contacts for ring cable lug4,5 6 Nmouter diameter of the usable ring cable lug maximum19 mmtightening torque for main contacts with screw-type terminals4,5 6 Nmouter diameter of the usable for safety functionYessafety related data for useproduct function suitable for safety functionYessuitability for use safety-related switching OFF• safety-related switching OFFYesservice life maximum10 atest wear-related service life necessaryYesproportion of dangerous failures for 00 %• with high demand rate according to SN 3192050 %B10 value with high demand rate according to SN 3192050 %ISO 13849 for 01 SO 13849-1device type according to ISO 13849-2 necessaryYesIEC 61508 safety function to ISO 13849-2 necessaryIEC 61508 safety function to IEC 61508-2Type AT1 value	for main contacts	
finely stranded with core end processing2x (2.5 35 mm²), 1x (2.5 50 mm²) finely stranded without core end processing2x (10 35 mm²), 1x (10 50 mm²)tightening torque4.5 6 N·mouter diameter of the usable ring cable lug maximum19 mmtightening torque	— solid	2x (2.5 16 mm²)
finely stranded without core end processing2x (10 35 mm²), 1x (10 50 mm²)tightening torque4.5 6 N·mouter diameter of the usable ring cable lug maximum19 mmtightening torque9 mm• for main contacts with screw-type terminals4.5 6 N·mSafety related data9 mmproduct function suitable for safety functionYessuitability for use9 mm• safety-related switching onNo• safety-related switching OFFYesservice life maximum10 atest wear-related service life necessaryYesproportion of dangerous failures40 %• with high demand rate according to SN 3192050 00billow alue with high demand rate according to SN 319205000sized [FIT] with low demand rate according to SN 3192050 00Sized Sized10 aISO 138493device type according to ISO 13849-2 necessaryYessafety device type according to IEC 61508-2Type AT1 valueT1 value	— solid or stranded	2x (2,5 50 mm²), 1x (10 70 mm²)
tightening torque       4.5 6 N·m         outer diameter of the usable ring cable lug maximum       19 mm         tightening torque       4.5 6 N·m         ofor main contacts with screw-type terminals       4.5 6 N·m         Safety related data	<ul> <li>— finely stranded with core end processing</li> </ul>	2x (2.5 35 mm²), 1x (2.5 50 mm²)
• for main contacts for ring cable lug4.5 6 N·mouter diameter of the usable ring cable lug maximum19 mmtightening torque 6 N·m• for main contacts with screw-type terminals4.5 6 N·mSafety related data 6 N·mproduct function suitable for safety functionYessuitability for use safety-related switching on• safety-related switching OFFYesservice life maximum10 atest wear-related service life necessaryYesproportion of dangerous failures 6 N·m• with high demand rate according to SN 3192050 %B10 value with high demand rate according to SN 3192050 000failure rate [FIT] with low demand rate according to SN 3192050 FIT33920 6 FITISO 13849 6 N·mdevice type according to ISO 13849-13overdimensioning according to ISO 13849-2 necessaryYesIEC 61508 6 N·msafety device type according to IEC 61508-2Type AT1 value 7 Ype A	<ul> <li>finely stranded without core end processing</li> </ul>	2x (10 35 mm²), 1x (10 50 mm²)
outer diameter of the usable ring cable lug maximum19 mmtightening torque • for main contacts with screw-type terminals4.5 6 N·mSafety related dataproduct function suitable for safety functionYessuitability for use • safety-related switching on • safety-related switching OFFYesservice life maximum10 atest wear-related service life necessary • with low demand rate according to SN 3192040 %B10 value with high demand rate according to SN 3192050 %B10 value with high demand rate according to SN 3192050 FIIT319203350 FIITsiles3device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary Field Street Stre	tightening torque	
tightening torque • for main contacts with screw-type terminals4.5 6 N·mSafety related dataproduct function suitable for safety functionYessuitability for use • safety-related switching onNo• safety-related switching OFFYesservice life maximum10 atest wear-related service life necessaryYesproportion of dangerous failures • with low demand rate according to SN 3192040 %• with high demand rate according to SN 3192050 %B10 value with high demand rate according to SN 3192050 NOfailure rate [FIT] with low demand rate according to SN 3192050 FITSlo 13849device type according to ISO 13849-1overdimensioning according to ISO 13849-2 necessaryYesIEC 61508safety device type according to IEC 61508-2Type AT1 value	<ul> <li>for main contacts for ring cable lug</li> </ul>	4.5 6 N·m
• for main contacts with screw-type terminals       4.5 6 N·m         Safety related data	outer diameter of the usable ring cable lug maximum	19 mm
Safety related data         product function suitable for safety function       Yes         suitability for use       No         • safety-related switching on       No         • safety-related switching OFF       Yes         service life maximum       10 a         test wear-related service life necessary       Yes         proportion of dangerous failures       40 %         • with low demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       50 00         failure rate [FIT] with low demand rate according to SN 31920       50 FIT         31920       50 FIT         ISO 13849       4evice type according to ISO 13849-1         device type according to ISO 13849-2 necessary       Yes         IEC 61508       safety device type according to IEC 61508-2         safety device type according to IEC 61508-2       Type A         T1 value       T1 value	tightening torque	
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<ul> <li>safety-related switching on</li> <li>safety-related switching OFF</li> <li>Yes</li> <li>service life maximum</li> <li>10 a</li> <li>test wear-related service life necessary</li> <li>Yes</li> <li>proportion of dangerous failures         <ul> <li>with how demand rate according to SN 31920</li> <li>40 %</li> <li>with high demand rate according to SN 31920</li> <li>50 %</li> </ul> </li> <li>B10 value with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>Ves</li> <li>ISO 13849</li> <li>device type according to ISO 13849-1</li> <li>overdimensioning according to ISO 13849-2 necessary</li> <li>Yes</li> <li>IEC 61508</li> <li>safety device type according to IEC 61508-2</li> <li>Type A</li> <li>T1 value</li> </ul>		4.5 6 N·m
<ul> <li>safety-related switching OFF</li> <li>Yes</li> <li>service life maximum</li> <li>10 a</li> <li>test wear-related service life necessary</li> <li>Yes</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>40 %</li> <li>with high demand rate according to SN 31920</li> <li>50 %</li> <li>B10 value with high demand rate according to SN 31920</li> <li>50 00</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>50 FIT</li> <li>31920</li> <li>Ves</li> <li>ISO 13849</li> <li>device type according to ISO 13849-1</li> <li>overdimensioning according to ISO 13849-2 necessary</li> <li>Yes</li> <li>IEC 61508</li> <li>safety device type according to IEC 61508-2</li> <li>Type A</li> <li>T1 value</li> </ul>	Safety related data	
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proportion of dangerous failures       40 %         • with low demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       50 00         failure rate [FIT] with low demand rate according to SN 31920       50 FIT         31920       50 FIT         ISO 13849       40 %         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       508         safety device type according to IEC 61508-2       Type A         T1 value       1	Safety related data product function suitable for safety function suitability for use • safety-related switching on	Yes
proportion of dangerous failures       40 %         • with low demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       50 00         failure rate [FIT] with low demand rate according to SN 31920       50 FIT         31920       50 FIT         ISO 13849       40 %         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       5120         safety device type according to IEC 61508-2       Type A         T1 value       1	Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF	Yes No Yes
<ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>50 %</li> <li>B10 value with high demand rate according to SN 31920</li> <li>50 00</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>S0 FIT</li> <li>S0 13849</li> <li>device type according to ISO 13849-1</li> <li>overdimensioning according to ISO 13849-2 necessary</li> <li>IEC 61508</li> <li>safety device type according to IEC 61508-2</li> <li>Type A</li> <li>T1 value</li> </ul>	Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum	Yes No Yes 10 a
• with high demand rate according to SN 3192050 %B10 value with high demand rate according to SN 319205 000failure rate [FIT] with low demand rate according to SN 3192050 FITISO 138493device type according to ISO 13849-13overdimensioning according to ISO 13849-2 necessaryYesIEC 61508Type Asafety device type according to IEC 61508-2Type A	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	Yes No Yes 10 a
B10 value with high demand rate according to SN 31920       5 000         failure rate [FIT] with low demand rate according to SN       50 FIT         31920       50 FIT         ISO 13849       4         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       5         safety device type according to IEC 61508-2       Type A         T1 value       1	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	Yes No Yes 10 a Yes
31920     ISO 13849       device type according to ISO 13849-1     3       overdimensioning according to ISO 13849-2 necessary     Yes       IEC 61508     Type A       T1 value     Type A	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	Yes No Yes 10 a Yes 40 %
ISO 13849       device type according to ISO 13849-1       overdimensioning according to ISO 13849-2 necessary       Yes       IEC 61508       safety device type according to IEC 61508-2       T1 value	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	Yes No Yes 10 a Yes 40 % 50 %
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IEC 61508       safety device type according to IEC 61508-2       T1 value	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	Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT
safety device type according to IEC 61508-2     Type A       T1 value     Time A	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	Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT
T1 value	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	Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT
	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         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	Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT
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• for proof test interval or service life according to IEC 10 a 61508	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	Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT 3 Yes

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