## SIEMENS

## Data sheet

## 3RA2215-1AA15-2BB4



Fuseless motor starter Reversing operation 600VAC Size S00 1.1-1.6A 24V DC screw connection For screw mounting Or 35 mm rail-mounting Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO+1NC (MSP) 1NC (per contactor)

product brand name	SIRIUS
product designation	non-fused motor starter 3RA2
design of the product	reversing starter
manufacturer's article number	
<ul> <li>of the supplied contactor</li> </ul>	3RT2015-1BB42
<ul> <li>of the supplied circuit-breakers</li> </ul>	3RV2011-1AA15
of the supplied link module	<u>3RA1921-1DA00</u>
General technical data	
size of the circuit-breaker	S00
size of load feeder	S00
product extension auxiliary switch	Yes
insulation voltage with degree of pollution 3 at AC rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	6g / 11 ms
mechanical service life (switching cycles) of contactor typical	30 000 000
type of assignment	2
Ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-20 +60 °C
<ul> <li>during storage</li> </ul>	-50 +80 °C
<ul> <li>during transport</li> </ul>	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
design of the switching contact	electromechanical
adjustable current response value current of the current-dependent overload release	1.1 1.6 A
operating voltage	
<ul> <li>rated value</li> </ul>	690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current at AC-3 at 400 V rated value	1.5 A
operating power at AC-3	
• at 400 V rated value	550 W
	550 W
<ul> <li>at 500 V rated value</li> </ul>	330 W
<ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul>	1 100 W

• Jako Value         4 V           Auxiliary concut         4 W           Auxiliary concut         4 W           Auxiliary concut         1           Protective and nonloning functions         1           Typic lass         CLASS 10           design of the overload release         Ubmark           response value current of instantaneous short-curruit trip         20.8 A           ULCSA ratings         1.1 A           ULCSA ratings         1.3 A           Videded mechanical performance (bp)         1.3 A           • of 30 Arated value         0.75 hp           • of 37 Apase A C motor         0.75 hp           • of 37 Apase A C motor         0.75 hp           • of 37 Apase A C motor         0.75 hp           • of 37 Apase A C motor         0.75 hp           • of 37 Apase A C motor         0.75 hp           • of 37 Apase A C motor         0.75 hp           • of 37 Apase A C motor         0.1 hp           • of 37 Apase A C motor         0.1 hp           • of 37 Apase A C motor         0.75 hp           • at 800 V stace value	<ul> <li>rated value</li> </ul>	24 V
Ausdiary stream		
number of NC contacts for auxiliary contacts         2           Protocitive and monitoring functions         1           Protocitive and monitoring functions         CLASS 10           design of the overload release         Elemental (binstalling)           response value current of instantaneous short-circuit trip unit         28.8 A           full-load current (FLA) for 3-phase AC motor         1.6 A           - at 800 V rated value         1.3 A           yleided mechanical performance (hp)         0.1 hp           • for single-phase AC motor         -           - at 320 V rated value         0.1 hp           • for 3-phase AC motor         -           - at 450 V rated value         0.75 hp           - at 575600 V rated value         0.76 hp           product function short-circuit trip relection         Yes           design of the abort-circuit trip         magnetic           conditional short-circuit trip         100 000 A           • at 600 V according to EC 6047-4-1 rated value         100 000 A           • at 800 V according to EC 6047-4-1 rated value         100 000 A           • at 800 V according to EC 6047-4-1 rated value         100 000 A           • at 800 V according to EC 6047-4-1 rated value         100 000 A           thenel trim and trip additional pusch-in lug         100 m		- **
number of NO contacts for auxiliary contacts         1           Protective and monitoring functions         CLASS 10           find class         CLASS 10           design of the overload release         CLASS 10           treports         28.8           ULCSA ratings         CLASS 10           full-dad current (FLA) for 3-phase AC motor         1.6 A           - at 400 V ratel value         1.6 A           - at 400 V ratel value         0.1 hp           - for single-phase AC motor         - at 400480 V rated value           - at 400480 V rated value         0.75 hp           orditional host-circuit protection         Yes           magnetic         00000 A           - at 600 V according to IEC 60947-4-1 rated value         100 000 A           - at 600 V according to IEC 60947-4-1 rated value         100 000 A           Installation mouting position         vertical           feating method         Single-mounted to DI		2
Protective and monitoring functions         CLASS 10           trip class         CLASS 10           design of the overload release         thermal (bimetallic)           response value current of instantaneous short-circuit trip unit         28.8 A           ULCSA values         1.6 A           • at 800 V rated value         1.6 A           • at 800 V rated value         0.1 hp           • for single-ghase AC motor         0.1 hp           - at 32 V rated value         0.75 hp           - at 355600 V rated value         0.75 hp           - at 355600 V rated value         0.75 hp           - at 355600 V rated value         0.76 hp           - at 355600 V rated value         0.76 hp           - at 3560 V according to EC 6047-4.1 rated value         13.0 value           • at 800 V according to EC 6047-4.1 rated value         130 000 A           • at 800 V according to EC 6047-4.1 rated value         130 000 A           • at 800 V according to EC 6047-4.1 rated value         100 000 A           • at 800 V according to EC 6047-4.1 rated value         100 000 A           • at 800 V according to EC 6047-4.1 rated value         100 000 A           • at 800 V according to EC 6047-4.1 rated value         100 000 A           • at 800 V according to EC 6047-4.1 rated value         100 mm		
trip class         CLASS 10           design of the overlad relates         thermai (bimetallic)           response value current of instantaneous short-circuit trip         28.8           full-dad current (FLA) for 3-phase AC motor         1.6 A           • at 400 V ratel value         1.6 A           • at 400 V ratel value         0.1 hp           at 230 V ratel value         0.1 hp           at 240 Vratel value         0.75 hp           at 400-480 V ratel value         0.75 hp           at 300 Vratel value         0.75 hp	-	1
design of the overlaad release         thermal (binetallic)           creapense value current of instantaneous short-circuit trip         20.8 A           UUCSA ratings         1           full-load current (FLA) for 3-phase AC motor         1.6 A           • at 400 V rated value         1.6 A           • at 300 V rated value         1.3 A           yleided mechanical performance [hp]         •           • for single-phase AC motor         0.1 hp           • at 300 V rated value         0.75 hp           • at 500 V rated value         0.75 hp           • at 500 V according to EC 60947-4-1 rated value         100 000 A           • at 500 V according to EC 60947-4-1 rated value         100 000 A           • at 500 V according to EC 60947-4-1 rated value         100 000 A           • at 500 V according to EC 60947-4-1 rated value         100 000 A           • at 500 V according to EC 60947-4-1 rated value         100 000 A           • at 500 V according to EC 60947-4-1 rated value         100 000 A           • at 500 V according to EC 60947-4-1 rated value         100 000 A           • at 500 V according to EC 60947-4-1 rated value         100 mm		01 400 40
response value current of instantaneous short-circuit trip unit     20.8 A <b>UUCSA ratings</b> 10 <b>full-ad current (FLA) for 3-phase AC motor</b> • at 480 V rated value     1.6 A       • at 480 V rated value     1.3 A       • for single-phase AC motor • - at 250 V rated value     0.1 hp       • for 3-phase AC motor • - at 450460 V rated value     0.75 hp       • for 3-phase AC motor • - at 450460 V rated value     0.75 hp       • for 3-phase AC motor • - at 450460 V rated value     0.75 hp       • at 690 V according to IEC 60947.4-1 rated value • at 600 V according to IEC 60947.4-1 rated value     100 000 A       • at 690 V according to IEC 60947.4-1 rated value • at 600 V according to IEC 60947.4-1 rated value     100 000 A       • at 690 V according to IEC 60947.4-1 rated value • at 600 V according to IEC 60947.4-1 rated value     100 000 A       • for grounded parts     magnetic       • for grounded parts     90 mm       • for grounded parts     0 mm       • backwards     0 mm       • at the side     9 mm       • backwards     0 mm       • backwards     0 mm       • backwards     0 mm       • at he side     9 mm       • at he side     9 mm       • backwards     <	· · ·	
uni ULCSA ratings ULCSA ratings ULCSA ratings ULCSA ratings ULCSA ratings ULCSA ratings  i dialocat current (FLA) for 3-phase AC motor i at 480 V rated value i 1.6 A i at 60 V rated value i 1.3 A  yielded mechanical performance [hp] i for single-phase AC motor - at 230 V rated value 0.1 hp i for 3-phase AC motor - at 480480 V rated value 0.75 hp - at 57560 V rated value 0.75 hp Conditional short-circuit current (lq) i at 480 V according to EC 60947-4-1 rated value 100 000 A i at 500 V according to EC 60947-4-1 rated value 100 000 A i at 500 V according to EC 60947-4-1 rated value 100 000 A i at 500 V according to EC 60947-4-1 rated value 100 000 A i at 500 V according to EC 60947-4-1 rated value 100 000 A i at 500 V according to EC 60947-4-1 rated value 100 000 A i at 500 V according to EC 60947-4-1 rated value 100 000 A i at 500 V according to EC 60947-4-1 rated value 100 000 A i at 500 V according to EC 60947-4-1 rated value 100 000 A i at 500 V according to EC 60947-4-1 rated value 100 000 A i at 500 V according to EC 60947-4-1 rated value 100 000 A i at 500 V according to EC 60947-4-1 rated value 100 000 A i at 500 V according to EC 60947-4-1 rated value 100 000 A i at 500 V according to EC 60947-4-1 rated value 100 000 A i at 500 V according to EC 60947-4-1 rated value 100 000 A i at 500 V according to EC 60947-4-1 rated value 100 000 A i at 500 V according to EC 00947-4-1 rated value 100 000 A i at 500 V according to EC 00947-4-1 rated value 100 000 A i at 500 V according to EC 00947-4-1 rated value 100 000 A i at 500 V according to EC 00947-4-1 rated value 100 000 A i at 500 V according to EC 00947-4-1 rated value 100 000 A i at 500 V according to EC 00947-4-1 rated value 100 000 A i at 500 V according to EC 00947-4-1 rated value 100 000 A i at 500 V according to EC 00947-4-1 rated value 100 000 A i at 500 V according to EC 00947-4-1 rated value 100 000 A i at 500 V according to EC 00947-4-1 rated value 100 000 A i at 500 V according to EC 00947-4-1 rated value 100 000 A i at 500 V according to EC 00947-		
UUCSA ratings         full-load current (FLA) for 3-phase AC motor         • at 800 V rated value       1.5 A         1.3 A       1.3 A         yieldeam exchancial performance (trp)       0.1 hp         • for single-phase AC motor       0.1 hp         • at 300 V rated value       0.75 hp         - at 4200480 V rated value       0.75 hp         Short-circuit protection       Yes         design of the short-circuit trop       magnetic         conditional short-circuit current (tq)       100 000 A         • at 800 V according to IEC 60947-4-1 rated value       100 000 A         • at 800 V according to IEC 60947-4-1 rated value       100 000 A         Installation mutring dimension       vertical         mounting position       vertical         fastening method       Snape-mounted to DIN rail or screw-mounted with additional push-in lug         height       90 mm         • for grounded parts       0 mm         - forwards       0 mm <t< td=""><td></td><td>20.8 A</td></t<>		20.8 A
full-load current (FLA) for 3-phase AC motor     1.6 A       • at 480 V rated value     1.8 A       • at 480 V rated value     1.3 A       vibiled mechanical performance (hp)     • for single-phase AC motor       at 230 V rated value     0.1 hp       • for single-phase AC motor     0.75 hp       at 375600 V rated value     0.75 hp       at 575600 V rated value     0.75 hp       Short-Lincarly protection     Ves       design of the short-circuit urpot     magnetic       conditional short-circuit current (lq)     100 000 A       • at 500 V according to EC 60947-4-1 rated value     133 000 A       • at 500 V according to EC 60947-4-1 rated value     133 000 A       • at 500 V according to EC 60947-4-1 rated value     130 000 A       • at 500 V according to EC 60947-4-1 rated value     133 000 A       • at 500 V according to EC 60947-4-1 rated value     133 000 A       Installation monting/ dimensions     vertical       mounting position     vertical       factening method     p0 mm       - boxwards     0 mm       - downwards     10 mm       - downwards     0		
• at 480 V rated value     16 A       • at 600 V rated value     1.3 A       • for single-phase AC motor     0.1 hp       - at 230 V rated value     0.1 hp       • for 3-phase AC motor     0.75 hp       - at 460/480 V rated value     0.75 hp       - at 4750600 V rated value     0.75 hp       - at 480/480 V rated value     0.75 hp       - at 480/480 V rated value     0.75 hp       conditional short-circuit frip     magnetic       conditional short-circuit and protection     Ves       design of the short-circuit frip     magnetic       conditional short-circuit and value     100 000 A       • at 400 V according to EC 60947-4-1 rated value     133 000 A       • at 400 V according to EC 60947-4-1 rated value     130 000 A       Installation/ mounting/ climensions     vertical       mounting position     vertical       frastening method     Snap-mounted to DIN rail or screw-mounted with additional push-in lug       height     90 mm       • for grounded parts     0 mm       - forwards     0 mm       - dowards     0 mm       - dowards     0 mm       - dowards     0 mm </td <td></td> <td></td>		
• at 600 V rated value     1.3 A       yielded mechanical performance [hp]     • for single-phase AC motor       - at 230 V rated value     0.1 hp       • for single-phase AC motor     - at 460/480 V rated value     0.75 hp       - at 460/480 V rated value     0.75 hp       Short-circuit protection     Yes       design of the short-circuit protection     Yes       design of the short-circuit trip     magnetic       conditional short-circuit crurent (lg)     100 000 A       • at 600 V according to EC 60947-4-1 rated value     100 000 A       • at 600 V according to EC 60947-4-1 rated value     100 000 A       • at 600 V according to EC 60947-4-1 rated value     100 000 A       • at 600 V according to EC 60947-4-1 rated value     100 000 A       • at 600 V according to EC 60947-4-1 rated value     100 mm       • at 600 V according to EC 60947-4-1 rated value     100 mm       fastaning method     Snap-mounting to EN       frequired spacing     • for grounded parts       - for grounded parts     0 mm       - backwards     0 mm       - upwards     20 mm       - at the side     9 mm       - backwards     0 mm       - backwards     0 mm       - downwardis     10 mm       - the side     9 mm       - downwardis     0 mm		16A
yielded mechanical performance [hp] <ul> <li>for single-phase AC motor</li> <li>- at 20 V rated value</li> <li>- of 3-phase AC motor</li> <li>- at 40/480 V rated value</li> <li>0.1 hp</li> <li>- of 3-phase AC motor</li> <li>- at 40/480 V rated value</li> <li>0.75 hp</li> <li>- at 675/600 V rated value</li> <li>0.76 hp</li> <li>- at 60/480 V rated value</li> <li>0.76 hp</li> <li>- at 600 V rated value</li> <li>- at 600 V according to EC 60947.4-1 rated value</li> <li>- at 600 V according to EC 60947.4-1 rated value</li> <li>- at 600 V according to EC 60947.4-1 rated value</li> <li>- at 600 V according to EC 60947.4-1 rated value</li> <li>- at 600 V according to EC 60947.4-1 rated value</li> <li>- at 600 V according to EC 60947.4-1 rated value</li> <li>- at 600 V according to EC 60947.4-1 rated value</li> <li>- forwards</li> <li>- mm</li> <li>- powards</li> <li>- mm</li> <li>- powards</li> <li>- mm</li> <li>- powards</li> <li>- mm</li> <li>- powards</li> <li>- mm</li> <li>- backwards</li> <li>- mm</li> <li>- backwards</li> <li>- mm</li> <li>- backwards</li> <li>- mm</li> <li>- backwards</li> <li>- mm</li> <li>- at the side</li> <li>- mm</li> <li>- mm</li> <li>- at the side</li> <li>- mm</li> <li>- at the side</li></ul>		
• for single-phase AC motor         0.1 hp           - at 230 V rated value         0.1 hp           - at 460/480 V rated value         0.75 hp           - at 450/480 V rated value         0.75 hp           Short-circuit protection         Yes           design of the short-circuit trip         magnetic           conditional short-circuit current (q)         100 000 A           • at 680 V according to IEC 60947-4-1 rated value         103 000 A           • at 600 V according to IEC 60947-4-1 rated value         103 000 A           • at 600 V according to IEC 60947-4-1 rated value         103 000 A           • at 600 V according to IEC 60947-4-1 rated value         100 000 A           Installation/ mounting/ dimensions         vertical           mounting position         vertical           fastening method         Snep-mounted to DIN rail or screw-mounted with additional push-In lug           height         170 mm           width         90 mm           - forwards         0 mm           - upwards         20 mm           - at the side         9 mm           - forwards         0 mm           - backwards         0 mm           - forwards         0 mm           - downwards         10 mm           - forward		
<ul> <li>for 3-phase AC motor         <ul> <li>at 460/480 V rated value</li> <li>0.75 hp</li> <li>5hort-circuit protection</li> </ul> </li> <li>Short-circuit protection</li> <li>reduct function short circuit protection</li> <li>design of the short-circuit rup</li> <li>magnetic</li> <li>conditional short-fircuit current (lq)</li> <li>at 680 V according to IEC 60947-4-1 rated value</li> <li>100 000 A</li> <li>at 600 V according to IEC 60947-4-1 rated value</li> <li>at 600 V according to IEC 60947-4-1 rated value</li> <li>to 000 A</li> </ul> <li>installation/mounting/dimensions</li> <li>vertical</li> <li>fastening method</li> <li>fastening method</li> <ul> <li>Snap-mounted to DIN rail or screw-mounted with additional push-in lug</li> <li>height</li> <li>170 mm</li> <li>width</li> <li>90 mm</li> <li>of or grounded parts</li> <li>for for grounded parts</li> <li>for five apsaing</li> <li>of or grounded parts</li> <li>at the side</li> <li>9 mm</li> <li>omm</li> <li>of or live parts</li> <li>of or live parts</li> <li>on min</li> <li>od min</li> <li>backwards</li> <li>0 mm</li> <li>at the side</li> <li>9 mm</li> </ul> <ul> <li>for main contacts stranded</li> <li>of main contacts stranded</li> <li>at at min contacts stranded</li> <li>at at</li></ul>		0.1 hp
- at 460480 V rated value     0.75 hp       - at 575:000 V rated value     0.75 hp       product function short circuit trotection     Yes       design of the short-circuit current (iq)     magnetic       • at 690 V according to IEC 60947-4-1 rated value     100 000 A       • at 600 V according to IEC 60947-4-1 rated value     100 000 A       • at 600 V according to IEC 60947-4-1 rated value     100 000 A       Installation/ mounting/ dimensions     vertical       mounting position     vertical       fastening method     Snap-mounted to DIN rail or screw-mounted with additional push-in lug       height     170 mm       width     90 mm       depth     97.1 mm       required spacing     • for grounded parts       - forwards     0 mm       - at the side     9 mm       - downwards     10 mm       - downwards     0 mm       - downwards     0 mm       - downwards     0 mm       - at the side     9 mm       Connections/ Terminals     20 mm       - downwards     0 mm       - downwards     0 mm       - downwards     0 mm       - downwards     0 mm       - at the side     9 mm       Connectible conductor cross-sections     05 4 mm <sup>2</sup> , 2(0.75 2.5 mm <sup>2</sup> )		
		0.75 hp
Short-circuit protection         Yes           design of the short-circuit trip         magnetic           conditional short-circuit current (tq)         100 000 A           • at 690 V according to IEC 60947-4-1 rated value         100 000 A           • at 400 V according to IEC 60947-4-1 rated value         100 000 A           • at 400 V according to IEC 60947-4-1 rated value         100 000 A           • at 500 V according to IEC 60947-4-1 rated value         100 000 A           Installation/ mounting dimensions         wertical           mounting position         srap-mounted to DIN rail or screw-mounted with additional push-in lug           height         170 mm           width         90 mm           depth         97.1 mm           required spacing         0 mm           • for grounded parts         0 mm           - downwards         0 mm           - downwards         0 mm           - upwards         20 mm           - upwards         20 mm           - at the side         9 mm           - downwards         0 mm           - upwards         20 mm           - upwards         20 mm           - at the side         9 mm           Connectable conductor cross-sections         0 mm <td></td> <td></td>		
product function short circuit trip         Yes           design of the short-circuit trip         magnetic           conditional short-circuit trip         magnetic           conditional short-circuit trip         100 000 A           • at 690 V according to IEC 60947-4-1 rated value         103 000 A           • at 500 V according to IEC 60947-4-1 rated value         103 000 A           Installation/ mounting/ dimonsions         vertical           mounting position         vertical           fastening method         Snap-mounted to DIN rail or screw-mounted with additional push-in lug           height         170 mm           width         90 mm           depth         97.1 mm           required spacing         0 mm           • for grounded parts         0 mm           - downwards         0 mm           - upwards         20 mm           - downwards         10 mm           • for live parts         0 mm           - downwards         0 mm           - at the side         9 mm           Connections/ Terminals         9 mm           Vpre of electrical connection for main current circuit         screw-type terminals           Vpre of electrical connection for main current circuit         2.4 mm², 2x (0.75 2.5 mm²) <td></td> <td></td>		
design of the short-circuit turp         magnetic           conditional short-circuit current (Iq)         in 809 V according to IEC 60947-4-1 rated value         100 000 A           e at 400 V according to IEC 60947-4-1 rated value         153 000 A         100 000 A           installation/mounting/ dimensions         100 000 A         installation/mounting/ dimensions           mounting position         vertical         snap-mounted to DIN rail or screw-mounted with additional push-in lug           height         170 mm         width         90 mm           depth         97.1 mm         omm         omm           required spacing         or grounded parts         0 mm         omm           - forwards         0 mm         20 mm         omm         omm           - backwards         0 mm         0 mm         omm		Yes
conditional short-circuit current (lq)       100 000 A         • at 690 V according to IEC 60947-4-1 rated value       153 000 A         • at 500 V according to IEC 60947-4-1 rated value       100 000 A         istailation/ mounting/dimensions       100 000 A         mounting position       vertical         fastening method       Snap-mounted to DIN rail or screw-mounted with additional push-in lug         height       170 mm         width       90 mm         depth       97.1 mm         required spacing       orm         • for grounded parts       0 mm         - forwards       0 mm         - at the side       9 mm         - downwards       10 mm         • for live parts       0 mm         - downwards       0 mm         - backwards       0 mm         - downwards       0 mm         - forwards       0 mm         -		
• at 690 V according to IEC 60947-4-1 rated value     100 000 A       • at 600 V according to IEC 60947-4-1 rated value     133 000 A       Installation/ mounting/ dimensions     100 000 A       Installation/ mounting/ dimensions     vertical       mounting position     vertical       fastening method     Snap-mounted to DIN rail or screw-mounted with additional push-in lug       height     170 mm       width     90 mm       depth     97.1 mm       required spacing     • for grounded parts       - forwards     0 mm       - downwards     0 mm       - forwards     0 mm       - downwards     0 mm       - downwards     0 mm       - forwards     0 mm       - downwards     0 mm       - d		
• at 400 V according to IEC 60947-4-1 rated value       153 000 A         • at 500 V according to IEC 60947-4-1 rated value       100 000 A         Installation/mounting position       vertical         fastening method       Snap-mounted to DIN rail or screw-mounted with additional push-in lug         height       170 mm         width       90 mm         depth       97.1 mm         required spacing <ul> <li>for grounded parts</li> <li>forwards</li> <li>orwards</li> <li>orm</li> <li>backwards</li> <li>0 mm</li> <li>dommadds</li> <li>forwards</li> <li>0 mm</li> <li>of for post</li> <li>onwards</li> <li>0 mm</li> <li>for live parts</li> <li>onwards</li> <li>0 mm</li> <li>backwards</li> <li>0 mm</li> <li>dommadds</li> <li>backwards</li> <li>0 mm</li> <li>dommadds</li> <li>max</li> <li>dommadds</li> <li>0 mm</li> <li>for main contacts</li> <li>0 mm</li> <li>dommadds</li> <li>0 for main contacts</li> <li>do</li></ul>		100 000 A
• at 500 V according to IEC 60947-4-1 rated value       100 000 A         Installation/ mounting/ dimensions       vertical         mounting position       srap-mounted to DIN rail or screw-mounted with additional push-in lug         height       170 mm         width       90 mm         depth       97.1 mm         required spacing       •         • for grounded parts       0 mm         - ackwards       0 mm         - backwards       0 mm         - at the side       9 mm         - downwards       10 mm         • for lwe parts       0 mm         - downwards       0 mm         - backwards       0 mm         - downwards       10 mm         • for lwe parts       0 mm         - downwards       0 mm         - at the side       9 mm         - at the side       9 mm         - at wards       0 mm         - backwards       0 mm         - backwards       0 mm         - backwards       0 mm         - forwards       0 mm         - downwards       10 mm         - at the side       9 mm         - at the side       9 mm         - at the	-	
Installation/ mounting/ dimensions           mounting position         vertical           fastening method         Snap-mounted to DIN rail or screw-mounted with additional push-in lug           height         170 mm           width         90 mm           depth         97.1 mm           required spacing <ul> <li>for grounded parts</li> <li>for grounded parts</li> <li>powards</li> <li>0 mm</li> <li>backwards</li> <li>0 mm</li> <li>at the side</li> <li>9 mm</li> <li>at the side</li> <li>9 mm</li> <li>for live parts</li> <li>for live parts</li> <li>adownards</li> <li>0 mm</li> <li>backwards</li> <li>0 mm</li> <li>adownards</li> <li>9 mm</li> <li>adownards</li> <li>10 mm</li> <li>for live parts</li> <li>adownards</li> <li>9 mm</li> <li>at the side</li> <li>9 mm</li> <li>at the side</li> <li>9 mm</li> <li>at main contacts stranded</li> <li>0.5 4 mm², 2x (0.75 2.5 mm²)</li> <li>at AVG cables for main contacts</li> <li>2x (20 16), only for contactor 2x (18 14), 2x 12</li> <li>connectable conductor cross-sections for main contacts</li> <li>2x (20 16), only for contactor 2x (18 14), 2x 12</li> <li>0.5 2.5 mm²</li></ul>	-	
mounting position         vertical           fastening method         Snap-mounted to DIN rail or screw-mounted with additional push-in lug           height         170 mm           width         90 mm           depth         97.1 mm           required spacing         -           - forwards         0 mm           - backwards         0 mm           - upwards         20 mm           - at the side         9 mm           - downwards         10 mm           - forwards         0 mm           - downwards         10 mm           - backwards         0 mm           - downwards         10 mm           - backwards         0 mm           - downwards         10 mm           - at the side         9 mm           - downwards         10 mm           - at the side         9 mm           - downwards         10 mm           - at the side         9 mm           - downwards         0 5 4 mm², 2x (0.75 2.5 mm²)           • at AWG cables for main contacts         screw-type terminals           type of electrical connectable conductor cross-sections         0.5 4 mm², 2x (0.75 2.5 mm²)           • at AWG cables for main contacts		
fastening method       Snap-mounted to DIN rail or screw-mounted with additional push-in lug         height       170 mm         width       90 mm         depth       97.1 mm         required spacing       6 for grounded parts         - forwards       0 mm         - backwards       0 mm         - upwards       20 mm         - at the side       9 mm         - downwards       10 mm         - forwards       0 mm         - downwards       0 mm         - downwards       10 mm         - downwards       0 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - at the side       9 mm         Connections/Terminals       20 mm         type of electrical connection for main current circuit       screw-type terminals         type of electrical connection for main current circuit       screw-type terminals         type of electrical connecton for main contacts       0.5 4 mm², 2x (0.75 2.5 mm²)         e at AWG cables for main contacts       0.5 4 mm², 2x (0.75 2.5 mm²)         e at WG cables of main contacts       0.5 2.5 mm²         B10 value with high demand rate according to SN 31920		vertical
height       170 mm         width       90 mm         depth       97.1 mm         required spacing       97.1 mm         • for grounded parts       97.1 mm         — forwards       0 mm         — backwards       0 mm         — upwards       20 mm         — downwards       10 mm         — downwards       0 mm         — downwards       10 mm         — at the side       9 mm         Connections/Terminals       50 connection for main current circuit         type of electrical connection for main contacts       2x (20 16), only for contactor 2x (18 14), 2x 12         connectable conductor cross-sections       0.5 4 mm², 2x (0.75 2.5 mm²)<		
width       90 mm         depth       97.1 mm         required spacing       • for grounded parts         - forwards       0 mm         - backwards       0 mm         - upwards       20 mm         - at the side       9 mm         - downwards       10 mm         - forwards       0 mm         - downwards       10 mm         - forwards       0 mm         - downwards       10 mm         - forwards       0 mm         - downwards       10 mm         - downwards       0 mm         - at the side       9 mm         - downwards       10 mm         - at the side       9 mm         Connections/ Terminals       20 mm         type of electrical connection for main current circuit       screw-type terminals         type of connectable conductor cross-sections       0.5 4 mm², 2x (0.75 2.5 mm²)         • at AWG cables for main contacts       2x (20 16), only for contactor 2x (18 14), 2x 12         connectable conductor cross-section for main contacts       0.5 2.5 mm²         Safety rela		
depth     97.1 mm       required spacing     • for grounded parts       - forwards     0 mm       - backwards     0 mm       - upwards     20 mm       - at the side     9 mm       - downwards     10 mm       • for live parts     0 mm       - forwards     0 mm       - downwards     10 mm       • for live parts     0 mm       - backwards     0 mm       - backwards     0 mm       - backwards     0 mm       - at the side     9 mm       Connections/ Terminals     screw-type terminals       type of electrical connection for main current circuit     screw-type terminals       type of connectable conductor cross-sections     0.5 4 mm², 2x (0.75 2.5 mm²)       • at AWG cables for main contacts     2x (20 16), only for contactor 2x (18 14), 2x 12       connectable conductor cross-section for main contacts     0.5 2.5 mm²       finely stranded with core end processing     2x (20 16), only for contactor 2x (18 14), 2x 12       Safety related data     73 %       B10 value with high demand rate according to IEC 60529     IP20		
required spacing         • for grounded parts         - forwards         - backwards         - backwards         0 mm         - upwards         20 mm         - at the side         9 mm         - downwards         10 mm         • for live parts         - forwards         0 mm         - backwards         0 mm         - downwards         10 mm         - at the side         9 mm         Connections/ Terminals         type of electrical connection for main current circuit         type of connectable conductor cross-sections         • for main contacts         • at AWG cables for main contacts         2x (20 16), only for contactor 2x (18 14), 2x 12         connectable conductor cross-section for main contacts         5afety related data         B10 value with high demand rate according to SN 31920		
• for grounded parts         0 mm           - forwards         0 mm           - backwards         0 mm           - upwards         20 mm           - at the side         9 mm           - downwards         10 mm           • for live parts         0 mm           - forwards         0 mm           - forwards         0 mm           - backwards         0 mm           - backwards         0 mm           - upwards         20 mm           - downwards         10 mm           - at the side         9 mm           Connections/ Terminals         10 mm           - at the side         9 mm           Connectable conductor cross-sections         0.5 4 mm², 2x (0.75 2.5 mm²)           • at AWG cables for main contacts         2x (20 16), only for contactor 2x (18 14), 2x 12           connectable conductor cross-section for main contacts         2x (20 16), only for contactor 2x (18 14), 2x 12           connectable conductor cross-section for main contacts         2x (20 16), only for contactor 2x (18 14), 2x 12           connectable conductor cross-section for main contacts         1000 000           protection of dangerous failures with high demand rate according to SN 31920         1000 000           protection class IP o	•	
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<ul> <li>for live parts</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>downwards</li> <li>at the side</li> <li>mm</li> <li>at the side</li> <li>mm</li> <li>at the side</li> <li>mm</li> <li>at the side</li> <li>mm</li> <li>beckwards</li> <li>mm</li> <li>connections/ Terminals</li> <li>type of electrical connection for main current circuit</li> <li>screw-type terminals</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts stranded</li> <li>0.5 4 mm², 2x (0.75 2.5 mm²)</li> <li>at AWG cables for main contacts</li> <li>connectable conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> <li>Safety related data</li> <li>B10 value with high demand rate according to SN 31920</li> <li>protection of dangerous failures with high demand rate according to SN 31920</li> <li>protection class IP on the front according to IEC</li> <li>60529</li> </ul>	— at the side	9 mm
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<ul> <li>for main contacts stranded</li> <li>at AWG cables for main contacts</li> <li>at AWG cables for main contacts</li> <li>connectable conductor cross-section for main contacts finely stranded with core end processing</li> <li>Safety related data</li> <li>B10 value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures with high demand rate according to IEC 60529</li> <li>for strands of the front according to IEC 60529</li> <li>for main contacts stranded 0.5 4 mm<sup>2</sup>, 2x (0.75 2.5 mm<sup>2</sup>)</li> <li>2x (20 16), only for contactor 2x (18 14), 2x 12</li> <li>0.5 2.5 mm<sup>2</sup></li> <li>0.5 2.5 mm<sup>2</sup></li> <li>1 000 000</li> <li>1 000 000</li></ul>		
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Safety related data         B10 value with high demand rate according to SN 31920         proportion of dangerous failures with high demand rate according to SN 31920         protection class IP on the front according to IEC 60529		0.5 2.5 mm²
B10 value with high demand rate according to SN 31920       1 000 000         proportion of dangerous failures with high demand rate according to SN 31920       73 %         protection class IP on the front according to IEC 60529       IP20		
proportion of dangerous failures with high demand rate according to SN 31920       73 %         protection class IP on the front according to IEC 60529       IP20		1 000 000
protection class IP on the front according to IEC IP20	proportion of dangerous failures with high demand rate	
	protection class IP on the front according to IEC	IP20
		finger-safe, for vertical contact from the front

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General Product A	pproval			For use in hazard- ous locations	Declaration of Conformity
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Declaration of Conformity	Test Certificates		Marine / Shipping		
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