## **SIEMENS**

## **Data sheet**



FUSELESS LOAD FEEDER REVERSING OPERATION, AC 400V, S00 2.8. . .4A, AC 110/120V 50/60HZ SCREW TERMINAL FOR RAIL MOUNTING, TYPE OF ASSIGNMENT 2,IQ = 150KA (ALSO FULFILLS TYPE OF ASSIGNMENT 1) 1NC (CONTACTOR)

product brand name	SIRIUS
product designation	non-fused load feeders 3RA2
design of the product	reversing starter
manufacturer's article number	
<ul> <li>of the supplied contactor</li> </ul>	3RT2015-1AK62
<ul> <li>of the supplied circuit-breakers</li> </ul>	3RV2011-1EA10
<ul> <li>of the supplied link module</li> </ul>	3RA1921-1DA00
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
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-20 +60 °C
during storage	-50 +80 °C
<ul> <li>during transport</li> </ul>	-50 +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	2.8 4 A
operating voltage	
rated value	690 V
at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current at AC-3 at 400 V rated value	3.6 A
operating power at AC-3	
• at 400 V rated value	1 500 W
● at 500 V rated value	2 200 W
at 690 V rated value	3 000 W
Control circuit/ Control	

control supply voltage at AC  • at 60 Hz rated value     120 V		
## aparent holding power of magnet cell at AC  Protective and monitoring functions  trip class  Class   Class	control supply voltage at AC	
apparent holding power of magnet coil at AC  Protective and monitoring functions Trip class  design of the overload release response value current of instantaneous short-circuit trip unit  22 A  ULGSA ratings  full-add current (FLA) for 3-phase AC motor  at 800 V rated value  at 800 V rated value  in 101/120 V rated value  in 10	at 50 Hz rated value	110 V
trip class  classing of the overload release response value current of Instantaneous short-aircuit trip unit  UUCSA ratings  (ILNSS 10 thermal (timetallic) 52 A  UUCSA ratings  (ILNI-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value • at 600 V rated value • al 2002 V rated value • al 4004 V rated value • al 4004 V rated value • al 4004 V rated value • al 500 V rated value • al 500 V rated value • al 600		120 V
trip class design of the overload release response value current of instantaneous short-circuit trip separation of the comment of instantaneous short-circuit trip separation of the comment of the short-circuit trip separation of the comment of the short-circuit trip separation of the comment of the short-circuit trip separation of the short-circuit current (separation of the short-circuit s	apparent holding power of magnet coil at AC	4.2 VA
design of the overfoad release   response value current of instantaneous short-circuit trip   s2 A	Protective and monitoring functions	
response value current of instantaneous short-circuit trip unit  ULCSA ratings  full-load current (FLA) for 3-phase AC motor  • al 480 V rated value  • at 500 V rated value  • at 500 V rated value  • at 200 V rated value  • at 400 V rated value  • at 500 V according to IEC 60947 -41 rated value  • at 500 V according to IEC 60947 -41 rated value  • at 500 V according to IEC 60947 -41 rated value  • at 500 V according to IEC 60947 -41 rated value  • at 500 V according to IEC 60947 -41 rated value  • at 500 V according to IEC 60947 -41 rated value  • at 500 V according to IEC 60947 -41 rated value  • at 500 V according to IEC 60947 -41 rated value  • at 500 V according to IEC 60947 -41 rated value  • at 500 V according to IEC 60947 -41 rated value  • at 500 V according to IEC 60947 -41 rated value  • at 500 V according to IEC 60947 -41 rated value  • at 500 V according to IEC 60947 -41 rated value  • at 500	trip class	CLASS 10
unit    ULCSA ratings		thermal (bimetallic)
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 680 V rated value  • at 680 V rated value  • at 680 V rated value  • at 710 V rated value  • at 710 V rated value  • at 200208 V rated value  • at 260233 V rated value  • at 260233 V rated value  • at 460480 V rated value  • at 460480 V rated value  • at 57600 V rated value  • at 57600 V rated value  • at 57600 V rated value  • at 460480 V rated value  • at 4604 v according to EC 60847 4-1 rated value  • at 460 V according to EC 60847 4-1 rated value  • at 460 V according to EC 60847 4-1 rated value  • at 460 V according to EC 60847 4-1 rated value  • at 460 V according to EC 60847 4-1 rated value  • at 460 V according to EC 60847 4-1 rated value  • at 460 V according to EC 60847 4-1 rated value  • at 460 V according to EC 60847 4-1 rated value  • at 460 V according to EC 60847 4-1 rated value  • at 460 V according to EC 60847 4-1 rated value  • at 460 V according to EC 60847 4-1 rated value  • at 460 V according to EC 60847 4-1 rated value  • at 460 V according to EC 60847 4-1 rated value  • at 460 V according to EC 60847 4-1 rated value  • at 460 V according to EC 60847 4-1 rated value  • at 500 V according to EC 60847 4-1 rated value  • at 460 V according to EC 60847 4-1 rated value  • at 500 V according to EC 60847 4-1 rated value  • at 600 V according to EC 60847 4-1 rated value  • at 600 V according to EC 60847 4-1 rated value  • at 600 V according to EC 60847 4-1 rated value  • at 600 V according to EC 60847 4-1 rated value  • at 600 V according to EC 60847 4-1 rated value  • at 600 V according to EC 60847 4-1 rated value  • at 600 V according to EC 60847 4-1 rated value  • at 600 V according to EC 60847 4-1 rated value  • at 600 V according to EC 60847 4-1 rated value  • at 600 V according to EC 60847 4-1 rated value  • at 600 V according to EC	·	52 A
• at 480 V rated value • at 600 V rated value 9 / valed demochanical performance [hp] • for single-phase AC motor — at 1101/20 V rated value — at 230 V rated value — at 220 V rated value — at 220230 V rated value — at 220230 V rated value — at 2600/280 V rated value — at 2707 V rated value — at 460/480 V rated value — at 575/600 V rated value	UL/CSA ratings	
• at 600 V rated value  yiolided mechanical performance [hp] • for single-phase AC motor  — at 1101/20 V rated value — at 220 V rated value 0.33 hp • for 3-phase AC motor — at 220/230 V rated value — at 575/600 V rated value	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value — at 230 V rated value — at 2200 V rated value — at 2200 200 V rated value — at 2200/200 V rated value — at 2200/200 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 690 V rated value  product function short circuit protection  proportion function short circuit protection  proportion of any function short circuit protection  proportion of any function short circuit protection  proportion of dangerous protection for main current circuit  product function short circuit protection  proportion of dangerous fallures with high demand rate according to SN 31920  proportion of dangerous fallures with high demand rate according to SN 31920  proportion of dangerous fallures with high demand rate according to SN 31920  proportion of dangerous fallures with high demand rate according to SN 31920  proportion of dangerous fallures with high demand rate according to SN 31920  proportion of dangerous fallures with high demand rate according to SN 31920  proportion of dangerous fallures with high demand rate according to SN 31920  propor	<ul> <li>at 480 V rated value</li> </ul>	3.95 A
• for single-phase AC motor  — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor  — at 220/230 V rated value — at 57/600 V rated value	at 600 V rated value	4 A
- at 110/120 V rated value - at 230 V rated value - 0.33 hp - 1200 V rated value - 0.33 hp - 1200 V rated value - 0.75 hp - 1200 V rated value - 1200 V rated V	yielded mechanical performance [hp]	
• for 3-phase AC motor  • at 200/208 V rated value  • at 220/230 V rated value  • at 220/230 V rated value  • at 4575/600 V rated value  • at 460/480 V rated value  • at 675/600 V rated value  • at 690 V according to IEC 60947-4-1 rated value  • at 400 V according to IEC 60947-4-1 rated value  • at 550 V according to IEC 60947-4-1 rated value  • at 550 V according to IEC 60947-4-1 rated value  • at 550 V according to IEC 60947-4-1 rated value  • at 550 V according to IEC 60947-4-1 rated value  • at 550 V according to IEC 60947-4-1 rated value  • at 550 V according to IEC 60947-4-1 rated value  • at 550 V according to IEC 60947-4-1 rated value  • at 550 V according to IEC 60947-4-1 rated value  • at 550 V according to IEC 60947-4-1 rated value  • at 550 V according to IEC 60947-4-1 rated value  • at 550 V according to IEC 60947-4-1 rated value  • at 550 V according to IEC 60947-4-1 rated value  • at 550 V according to IEC 60947-4-1 rated value  • at 550 V according to IEC 60947-4-1 rated value  • at 550 V according to IEC 60947-4-1 rated value  • at 550 V according to IEC 60947-4-1 rated value  • at 550 V according to IEC 60947-4-1 rated value  • at 5500 A  • at 600 A  • at 550 V according to IEC 60947-4-1 rated value  • at 550 V according to IEC 60947-4-1 rated value  • at 600 A  • at	<ul> <li>for single-phase AC motor</li> </ul>	
• for 3-phase AC motor  — at 220/230 V rated value — at 450/480 V rated value — at 450/480 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 current (q)  • at 690 V according to IEC 60947-4-1 rated value • at 400 V according to IEC 60947-4-1 rated value • at 400 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value  * at 500 V according to IEC 60947-4-1 rated value  * at 500 V according to IEC 60947-4-1 rated value  * at 500 V according to IEC 60947-4-1 rated value  * at 500 V according to IEC 60947-4-1 rated value  * at 500 V according to IEC 60947-4-1 rated value  * at 500 V according to IEC 60947-4-1 rated value  * boundary dimensions  * wertical  * screw and snap-on mounting onto 35 mm standard mounting rail  * for grounded parts  • for grounded parts  • for grounded parts  • forwards  • upwards  • upwards  • at the side  • downwards  • for live parts  • for live parts  • for live parts  • for live parts  • to grounded parts  • for live parts  • to grounded parts  • for live parts  • for live parts  • for wards  • upwards  • upwards  • upwards  • to man  • to rain contacts stranded  • at 4806 cables for main current circuit  * type of connectable conductor cross-sections  • for main contacts stranded  • at AWG cables for main contacts  finely stranded with core end processing  * 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  1 000 000  73 %6	<ul> <li>— at 110/120 V rated value</li> </ul>	0.13 hp
- at 200/208 V rated value	— at 230 V rated value	0.33 hp
- at 220/230 V rated value 2 hp 3 hp	<ul> <li>for 3-phase AC motor</li> </ul>	
- at 460/480 V rated value	<ul> <li>at 200/208 V rated value</li> </ul>	0.75 hp
- at 575/600 V rated value 3 hp  Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic conditional short-circuit current (Iq) • at 690 V according to IEC 60947-4-1 rated value • at 400 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value  * at 500 V according to IEC 60947-4-1 rated value  * at 500 V according to IEC 60947-4-1 rated value  * bright strain function for mounting dimensions  **mounting position  fastening method  * serve and snap-on mounting onto 35 mm standard mounting rail  * serve and sna	<ul> <li>at 220/230 V rated value</li> </ul>	0.75 hp
Short-circuit protection   Product function short circuit protection   Yes   design of the short-circuit trip   magnetic   conditional short-circuit trip   magnetic   conditional short-circuit trip   e at 690 V according to IEC 60947-4-1 rated value   4 000 A   153 000 A   e at 500 V according to IEC 60947-4-1 rated value   153 000 A   e at 500 V according to IEC 60947-4-1 rated value   150 000 A   e at 500 V according to IEC 60947-4-1 rated value   150 000 A   e at 500 V according to IEC 60947-4-1 rated value   150 000 A   e at 500 V according to IEC 60947-4-1 rated value   150 000 A   e at 500 V according to IEC 60947-4-1 rated value   150 000 A   e at 500 V according to IEC 60947-4-1 rated value   150 000 A   e at 500 V according to IEC 60947-4-1 rated value   150 000 A   e at 500 V according to IEC 60947-4-1 rated value   150 000 A   e at 500 V according to IEC 60947-4-1 rated value   150 000 A   e at 500 V according to IEC 60947-4-1 rated value   150 000 A   e at 500 V according to IEC 60947-4-1 rated value   150 000 A   e at 500 V according to IEC 60947-4-1 rated value   150 000 A   e at 500 V according to IEC 60947-4-1 rated value   150 000 A   e at 500 V according to IEC 60947-4-1 rated value   150 000 A   e at 500 V according to IEC 60947-4-1 rated value   150 000 V according to IEC 60947-4-1 rated value   150 000 V according to IEC 60947-4-1 rated value   150 000 V according to IEC 60947-4-1 rated value   150 000 V according to IEC 60947-4-1 rated value   150 000 V according to IEC 60947-4-1 rated value   150 000 V according to IEC 60947-4-1 rated value   150 000 V according to IEC 60947-4-1 rated value   150 000 V according to IEC 60947-4-1 rated value   150 000 V according to IEC 60947-4-1 rated value   150 000 V according to IEC 60947-4-1 rated value   150 000 V according to IEC 60947-4-1 rated value   150 000 V according to IEC 60947-4-1 rated value   150 000 V according to IEC 60947-4-1 rated value   150 000 V according to IEC 60947-4-1 rated value   150 000 V according to IEC 60947-4-1 rated v	<ul> <li>at 460/480 V rated value</li> </ul>	2 hp
product function short circuit protection   design of the short-circuit trip   magnetic   conditional short-circuit trurent (tq)	— at 575/600 V rated value	3 hp
design of the short-circuit current (Iq)   a test of the variable of the conditional short-circuit current (Iq)   a test of the variable of the conditional short-circuit current (Iq)   a test of the variable of the conditional short-circuit current (Iq)   a test of the variable of the connectable conductor cross-section for main current circuit type of connectable conductor cross-section for main current circuit stranded with core end processing Safety related data   B10 value with high demand rate according to SN 31920 proportion of dangerous fast in the side variable of the conditions on the conditions on the condition of the conditions on the conditions on the conditions of the condition of the conditions of the condi	Short-circuit protection	
conditional short-circuit current (Iq)  • at 4690 V according to IEC 60947-4-1 rated value • at 400 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value  * at 500 V according to IEC 60947-4-1 rated value  * Installation/ mounting/ dimensions  mounting position fastening method  * Installation/ mounting/ dimensions  mounting position fastening method  * In the side of the	product function short circuit protection	Yes
at 690 V according to IEC 60947-4-1 rated value at 400 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value loss tablation/ mounting/ dimensions  mounting position  fastening method height vidth 90 mm  depth required spacing  of grounded parts  - forwards - at the side - downwards - of or live parts - forwards - backwards - ownwards - otherwise - forwards - ownwards - ownwar	design of the short-circuit trip	magnetic
at 400 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value  installation/ mounting/ dimensions  mounting position  fastening method height vidth depth 97.1 mm  required spacing for grounded parts — forwards — at the side — downwards — of roriwards — for ilive parts — for wards — upwards — at the side — downwards — to mm  backwards — upwards — of or ilive parts — for wards — at the side — downwards — to mm  contacts side — downwards — upwards — at the side — downwards — to mm  connectations/ Terminals  type of electrical connection for main current circuit type of connectable conductor cross-sections of m min contacts stranded  at AWG cables for main contacts connectable conductor cross-section for main contacts finely stranded with core end processing  Safety related data  B10 000 A  100	conditional short-circuit current (Iq)	
• at 500 V according to IEC 60947-4-1 rated value  Installation/ mounting / dimensions  mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail height 170 mm  width 90 mm  required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards — for live parts — forwards — backwards — upwards — ownwards — to mm  • for live parts — forwards — downwards — upwards — downwards — upwards — at the side — downwards — parties — formards — omm  • for live parts — formards — upwards — upwards — upwards — omm  • for main contacts  for electrical connection for main current circuit type of connectable conductor cross-sections • for main contacts stranded • at AWG cables for main contacts sinely stranded with core end processing  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 proportion of dangerous failures with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate according to SN 31920	<ul> <li>at 690 V according to IEC 60947-4-1 rated value</li> </ul>	4 000 A
mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail height 170 mm width 90 mm  depth 97.1 mm  required spacing  • for grounded parts  — forwards 0 mm  — backwards 20 mm  — at the side 9 mm  • for live parts  — forwards 0 mm  • for live parts  — forwards 0 mm  • for live parts  — torwards 0 mm  • for live parts  — torwards 0 mm  — backwards 0 mm  — backwards 10 mm  • for live parts  — forwards 0 mm  — backwards 10 mm  — torwards 0 mm  — backwards 10 mm  — torwards 10 mm  — at the side 9 mm  Connections/ Terminals  type of electrical connection for main current circuit screw-type terminals  type of connectable conductor cross-sections  • for main contacts stranded 0.5 4 mm², 2x (0.75 2.5 mm²)  • at AWG cables for main contacts finely stranded with core end processing  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  proportion of dangerous failures with high demand rate according to SN 31920  proportion of dangerous failures with high demand rate according to SN 31920  proportion of dangerous failures with high demand rate according to SN 31920  proportion of dangerous failures with high demand rate according to SN 31920  proportion of dangerous failures with high demand rate according to SN 31920	<ul> <li>at 400 V according to IEC 60947-4-1 rated value</li> </ul>	153 000 A
mounting position  fastening method  height  170 mm  width  90 mm  depth  97.1 mm  required spacing  • for grounded parts  — forwards — backwards — upwards — at the side — downwards — for wards — for live parts  — forwards — upwards — upwards — at the side — downwards — to mm  • for live parts  — forwards — upwards — upwards — backwards — mm  • for live parts — forwards — upwards — upwards — upwards — backwards — upwards — backwards — upwards — upwards — upwards — upwards — upwards — of mm  - downwards — upwards — of mm  - downwards — at the side — ymm  Connections/ Terminals  type of electrical connection for main current circuit  type of connectable conductor cross-sections • for main contacts stranded • at AWG cables for main contacts finely stranded with core end processing  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 proportion of dangerous failures with high demand rate according to SN 31920  73 %	<ul> <li>at 500 V according to IEC 60947-4-1 rated value</li> </ul>	100 000 A
fastening method height vidth 90 mm  depth 97.1 mm  required spacing • for grounded parts — forwards — upwards — at the side — downwards — for live parts — forwards — backwards — o mm • for live parts — forwards — upwards — at the side — downwards 0 mm • for live parts — forwards — upwards — at the side — ymm — at the side — o mm  Connections/ Terminals  type of electrical connection for main current circuit  type of connectable conductor cross-sections • for main contacts stranded • at AWG cables for main contacts finely stranded with core end processing  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  73 %	Installation/ mounting/ dimensions	
height   170 mm   width   90 mm   97.1 mm	mounting position	vertical
width 90 mm  depth 97.1 mm  required spacing  • for grounded parts  — forwards — backwards — upwards — at the side — downwards — for wards — forwards — of mine parts — forwards — of mine parts — forwards — upwards — a the side — downwards — upwards — upwards — upwards — at the side — downwards — upwards — at the side — of mine contacts of main contacts finely stranded with core end processing  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  7 mm  90 mm  97.1 mm  97.1 mm  97.1 mm  97.1 mm  90 mm  90 mm  0 mm  9 mm  9 mm  10 mm  9 mm  9 mm  10 mm  9 mm  9 mm  10 mm  10 mm	mounting position	vertical
depth  required spacing  of or grounded parts  - forwards  - packwards  - upwards  - at the side  - downwards  of for live parts  - forwards  - backwards  of norm  of live parts  - forwards  - upwards  - upwards  - upwards  - downwards  - upwards  - upwards  - downwards  - upwards  - at the side  9 mm  Connections/ Terminals  type of electrical connection for main current circuit  type of connectable conductor cross-sections  of romain contacts stranded  at AWG cables for main contacts finely stranded with core end processing  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  73 %		
required spacing  • for grounded parts  — forwards — backwards — upwards — at the side — downwards 10 mm  • for live parts — forwards — backwards 0 mm  • for live parts — forwards — backwards — upwards — backwards — upwards — downwards — 10 mm  • for live parts  — forwards — backwards — upwards — at the side  Connections/ Terminals  type of electrical connection for main current circuit  type of connectable conductor cross-sections • for main contacts stranded • at AWG cables for main contacts finely stranded with core end processing  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  73 %	fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
• for grounded parts  — forwards — backwards — upwards — upwards — at the side — downwards — for live parts — forwards — backwards — backwards — omm — backwards — omm — backwards — upwards — upwards — upwards — upwards — at the side — omm —	fastening method height width	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm
- forwards 0 mm - backwards 20 mm - upwards 20 mm - at the side 9 mm - downwards 10 mm  • for live parts - forwards 0 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - upwards 20 mm - upwards 20 mm - downwards 10 mm - at the side 9 mm  Connections/ Terminals  type of electrical connection for main current circuit screw-type terminals  type of connectable conductor cross-sections • for main contacts stranded 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 finely stranded with core end processing  Safety related data  B10 value with high demand rate according to SN 31920 1000 000  proportion of dangerous failures with high demand rate according to SN 31920 73 %	fastening method height width depth	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm
- backwards 0 mm - upwards 20 mm - at the side 9 mm - downwards 10 mm  • for live parts - forwards 0 mm - backwards 0 mm - upwards 20 mm - backwards 10 mm - backwards 10 mm - upwards 20 mm - upwards 9 mm  Connections/ Terminals  type of electrical connection for main current circuit screw-type terminals  type of connectable conductor cross-sections • for main contacts stranded 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 finely stranded with core end processing  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 73 %	fastening method height width depth required spacing	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm
- upwards - at the side - downwards 10 mm  • for live parts - forwards 0 mm - backwards 0 mm - upwards 20 mm - backwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 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 stranded • at AWG cables for main contacts connectable conductor cross-section for main contacts finely stranded with core end processing  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  73 %	fastening method height width depth required spacing • for grounded parts	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm 97.1 mm
- at the side 9 mm - downwards 10 mm  • for live parts - forwards 0 mm - backwards 20 mm - downwards 10 mm - downwards 10 mm - at the side 9 mm  Connections/ Terminals  type of electrical connection for main current circuit screw-type terminals  type of connectable conductor cross-sections • for main contacts stranded 0.5 4 mm², 2x (0.75 2.5 mm²) • at AWG cables for main contacts finely stranded with core end processing  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  To mm  9 mm  0 mm  9 mm  0 mm  9 mm  0 mm  9 mm  Connectable conductor cross-sections • for main contactor for main current circuit screw-type terminals  2x (20 16), only for contactor 2x (18 14), 2x 12  0.5 2.5 mm²  1 000 000  73 %	fastening method height width depth required spacing  • for grounded parts — forwards	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm 97.1 mm
- downwards  • for live parts  - forwards  - backwards  - upwards  - downwards  - at the side  Connections/ Terminals  type of electrical connection for main current circuit  type of connectable conductor cross-sections  • for main contacts stranded  • at AWG cables for main contacts  connectable conductor cross-section for main contacts finely stranded with core end processing  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  73 %	fastening method height width depth required spacing  • for grounded parts — forwards — backwards	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm 97.1 mm 0 mm
<ul> <li>for live parts</li> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> <li>9 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>at AWG cables for main contacts</li> <li>at AWG cables for main contacts</li> <li>2x (20 16), only for contactor 2x (18 14), 2x 12</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 SN 31920</li> <li>73 %</li> </ul>	fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm 97.1 mm 0 mm 0 mm 20 mm
- forwards - backwards - upwards - downwards - at the side  Connections/ Terminals  type of electrical connection for main current circuit  type of connectable conductor cross-sections  • for main contacts stranded • at AWG cables for main contacts  connectable conductor cross-section for main contacts finely stranded with core end processing  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  73 %	fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm 97.1 mm  0 mm 0 mm 20 mm 9 mm
- backwards - upwards - downwards - at the side  Connections/ Terminals  type of electrical connection for main current circuit  screw-type terminals  type of connectable conductor cross-sections  o for main contacts stranded at AWG cables for main contacts  connectable conductor cross-section for main contacts finely stranded with core end processing  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  o mm  20 mm  corew-type terminals  screw-type terminals  0.5 4 mm², 2x (0.75 2.5 mm²)  2x (20 16), only for contactor 2x (18 14), 2x 12  0.5 2.5 mm²  1 000 000  73 %	fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm 97.1 mm  0 mm 0 mm 20 mm 9 mm
<ul> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> <li>9 mm</li> </ul> Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections <ul> <li>• for main contacts stranded</li> <li>• at AWG cables for main contacts</li> <li>connectable conductor cross-section for main contacts finely stranded with core end processing</li> </ul> Safety related data B10 value with high demand rate according to SN 31920 <ul> <li>proportion of dangerous failures with high demand rate according to SN 31920</li> </ul> 73 % 73 %	fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards  • for live parts	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm 97.1 mm  0 mm 0 mm 20 mm 9 mm 10 mm
— downwards — at the side  9 mm  Connections/ Terminals  type of electrical connection for main current circuit  screw-type terminals  type of connectable conductor cross-sections  • for main contacts stranded • at AWG cables for main contacts  connectable conductor cross-section for main contacts  finely stranded with core end processing  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  73 %	fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm 97.1 mm  0 mm 0 mm 20 mm 9 mm 10 mm
— at the side 9 mm  Connections/ Terminals  type of electrical connection for main current circuit screw-type terminals  type of connectable conductor cross-sections	fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm 97.1 mm  0 mm 0 mm 20 mm 10 mm 0 mm
type of electrical connection for main current circuit  type of connectable conductor cross-sections  • for main contacts stranded  • at AWG cables for main contacts  connectable conductor cross-section for main contacts  connectable conductor cross-section for main contacts  finely stranded with core end processing  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  73 %	fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards  • for live parts — forwards — backwards — upwards — upwards	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm 97.1 mm  0 mm 0 mm 20 mm 10 mm 0 mm 10 mm
type of electrical connection for main current circuit  type of connectable conductor cross-sections  • for main contacts stranded  • at AWG cables for main contacts  connectable conductor cross-section for main contacts  finely stranded with core end processing  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  proportion of SN 31920  screw-type terminals  0.5 4 mm², 2x (0.75 2.5 mm²)  2x (20 16), only for contactor 2x (18 14), 2x 12  0.5 2.5 mm²  1 000 000  73 %	fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards  • for live parts — forwards — backwards — upwards — downwards — downwards — for lowe parts — forwards — backwards — backwards — upwards — upwards — downwards	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm 97.1 mm  0 mm 0 mm 20 mm 9 mm 10 mm 0 mm 0 mm
type of connectable conductor cross-sections	fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards  • for live parts — forwards — backwards — townwards — downwards — townwards — townwards — backwards — backwards — backwards — upwards — at the side	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm 97.1 mm  0 mm 0 mm 20 mm 9 mm 10 mm 0 mm 0 mm
<ul> <li>for main contacts stranded</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 SN 31920</li> <li>73 %</li> <li>73 %</li> </ul>	fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards  • for live parts — forwards — backwards — upwards — at the side — downwards — for live parts — forwards — backwards — backwards — upwards — at the side  Connections/ Terminals	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm 97.1 mm  0 mm 0 mm 20 mm 10 mm 10 mm 0 mm 20 mm
<ul> <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 SN 31920</li> <li>73 %</li> </ul>	fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards  • for live parts — forwards — backwards — upwards  of or live parts — forwards — backwards — backwards — upwards — the side  Connections/ Terminals  type of electrical connection for main current circuit	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm 97.1 mm  0 mm 0 mm 20 mm 10 mm 10 mm 0 mm 20 mm
connectable conductor cross-section for main contacts finely stranded with core end processing  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  73 %	fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards  • for live parts — forwards — backwards — upwards — to downwards — to downwards — backwards — upwards — backwards — upwards — at the side  Connections/ Terminals  type of electrical connection for main current circuit type of connectable conductor cross-sections	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm 97.1 mm  0 mm 0 mm 20 mm 9 mm 10 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
Finely stranded with core end processing  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  73 %	fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards  • for live parts — forwards — backwards — backwards — upwards — torwards — of the side — downwards — backwards — upwards — at the side  Connections/ Terminals  type of electrical connection for main current circuit  type of connectable conductor cross-sections • for main contacts stranded	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm 97.1 mm  0 mm 0 mm 20 mm 9 mm 10 mm 0 mm 0 mm comm comm comm comm comm comm comm c
B10 value with high demand rate according to SN 31920  proportion of dangerous failures with high demand rate according to SN 31920  73 %	fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards  • for live parts — forwards — backwards — upwards — a the side — downwards  • for live parts — forwards — backwards — upwards — at the side  Connections/ Terminals  type of electrical connection for main current circuit type of connectable conductor cross-sections • for main contacts stranded • at AWG cables for main contacts	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm 97.1 mm  0 mm 0 mm 20 mm 9 mm 10 mm 0 mm 0 mm 20 mm 5 mm 10 mm 20 mm 10 mm 20 mm 10 mm 10 mm 9 mm
proportion of dangerous failures with high demand rate according to SN 31920	fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards  • for live parts — forwards — backwards — upwards — backwards — upwards — the side — downwards — at the side  Connections/ Terminals  type of electrical connection for main current circuit type of connectable conductor cross-sections • for main contacts stranded • at AWG cables for main contacts finely stranded with core end processing	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm 97.1 mm  0 mm 0 mm 20 mm 9 mm 10 mm 0 mm 0 mm 20 mm 5 mm 10 mm 20 mm 10 mm 20 mm 10 mm 10 mm 9 mm
according to SN 31920	fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards  • for live parts — forwards — backwards — upwards — backwards — upwards — the side  Connections/ Terminals  type of electrical connection for main current circuit  type of connectable conductor cross-sections • for main contacts stranded • at AWG cables for main contacts finely stranded with core end processing  Safety related data	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm 97.1 mm  0 mm 0 mm 20 mm 9 mm 10 mm 0 mm 0 mm 20 mm 5 mm 10 mm 20 mm 10 mm 20 mm 10 mm 10 mm 9 mm
protection class IP on the front according to IEC IP20	fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards  • for live parts — forwards — backwards — upwards — backwards — upwards — the side  Connections/ Terminals  type of electrical connection for main current circuit  type of connectable conductor cross-sections • for main contacts stranded • at AWG cables for main contacts finely stranded with core end processing  Safety related data	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm 97.1 mm  0 mm 0 mm 20 mm 9 mm 10 mm 0 mm 20 mm 5 mm 20 mm 20 mm 20 mm 20 mm 10 mm 9 mm
	fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — a the side — downwards — backwards — upwards — at the side  Connections/ Terminals  type of electrical connection for main current circuit type of connectable conductor cross-sections • for main contacts stranded • at AWG cables for main contacts connectable conductor cross-section for main contacts finely stranded with core end processing  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	screw and snap-on mounting onto 35 mm standard mounting rail 170 mm 90 mm 97.1 mm  0 mm 0 mm 20 mm 9 mm 10 mm 0 mm 20 mm 9 mm 10 mm 20 mm 20 mm 10 mm 20 mm 10 mm 20 mm 10 mm 20 mm

60529

touch protection on the front according to IEC 60529

finger-safe, for vertical contact from the front

Certificates/ approvals

**General Product Approval** 

For use in hazardous locations Declaration of Conformity



Confirmation









Declaration of Conformity

**Test Certificates** 

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping









Confirmation

other

Vibration and Shock

Railway

## **Further information**

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2210-1EA15-2AK6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2210-1EA15-2AK6

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-1EA15-2AK6

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

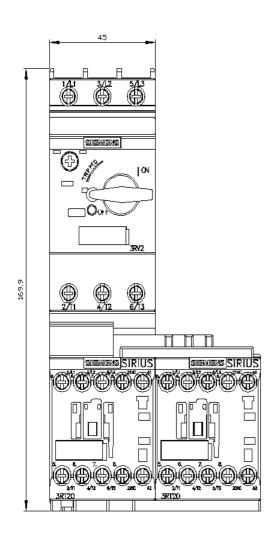
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2210-1EA15-2AK6&lang=en

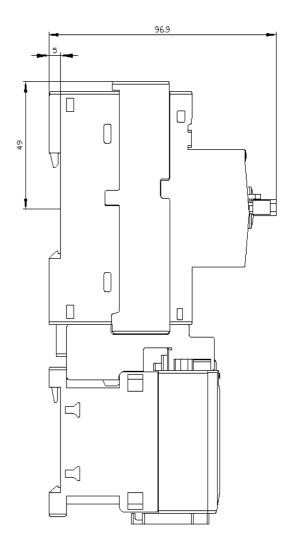
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-1EA15-2AK6/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2210-1EA15-2AK6&objecttype=14&gridview=view1





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