SIEMENS

Data sheet

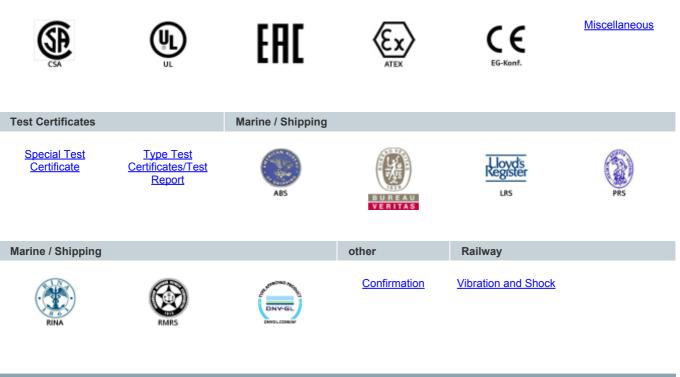
3RA2110-1DE15-1BB4



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 2.20...3.20 A 24 V DC Spring-type terminal for installation on standard mounting rail (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO (contactor)

product brand name	SIRIUS		
product designation	Direct (on-line) starter		
design of the product	for standard rail or screw mounting		
product type designation	3RA21		
manufacturer's article number			
 of the supplied contactor 	3RT2015-2BB41		
 of the supplied circuit-breakers 	3RV2011-1DA20		
 of the supplied link module 	3RA2911-2AA00		
General technical data			
size of the circuit-breaker	S00		
size of load feeder	S00		
insulation voltage with degree of pollution 3 at AC rated value	690 V		
surge voltage resistance rated value	6 kV		
shock resistance acc. to IEC 60068-2-27	6g / 11 ms		
mechanical service life (switching cycles) of contactor typical	30 000 000		
type of assignment	2		
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD		
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001		
Substance Prohibitance (Date)	01.10.2009 00:00:00		
Ambient conditions			
 ambient temperature during operation 	-20 +60 °C		
ambient temperature during storage	-50 +80 °C		
ambient temperature during transport	-50 +80 °C		
temperature compensation	-20 +60 °C		
relative humidity during operation	10 95 %		
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	2.2 3.2 A		
 operating voltage rated value 	690 V		
 operating voltage 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	2.7 A		

operating power at AC-3 100 W Centrol supply voltage at DC 0C • raide Value DC • raide value 24 V • holding power of magnet coll at DC 4W Awainary circuit Product actavity of magnet coll at DC • raide value 24 V holding power of magnet coll at DC 4W Awainary circuit Product actavity of magnet coll at DC # Avainary circuit Yes Product actavity of the overload release Ubmetallic) UL/SA ratings CLASS 10 design of the overload release thermal (bimetallic) UL/SA ratings 32.A yielded metchnical performance (Pp) • for 3-phase AC motor - at 420/208 V rated value 0.5 hp - at 45004208 V rated value 2.hp Short-circuit protection Product function short circuit current (Lip) - at 45004208 V rated value 1.5 hp - at 400 V acc. to IEC 60947.4.1 rated value 150 000 A Installion/ mounting polition verical feating method screw and anapon mounting onto 35 mm standard mounting rail		_					
Control circuit/ Control supply voltage DC Tride value 24 V • rated value 94 V • rated value 0.5 hp • at 480 V rated value 0.5 hp • at 480 V rated value 0.5 hp • at 480 V rated value 1.5 hp • at 480 V rated value 1.5 hp • at 5000 V rated value 1.5 hp • at 600480 V rated value 1.5 hp • at 600470 V rated value 1.5 000 V rated value • at 600 V rated value 1.5 hp • at 600 V rated value 1.5 000 V rated value • for appendix functions short circuit trip magnetic conditional short circuit trip magnetic conditional short circuit trip magnetic	operating power at AC-3						
type of voltage of the control supply voltage DC control supply voltage at DC + rated value 24 V holding power of magnet coil at DC 4 W Availlary clock 4 W Availlary clock 4 W Protective and monitoring functions trip class CLASS 10 thermal (bimetallic) ULCSA natings thermal (bimetallic) ULCSA natings 1 full-code current (FLA) for 3-phase AC motor • at 480 V rated value - at 4200/208 V rated value 0.5 hp - at 4201/201209 V rated value 0.5 hp - at 4201/201209 V rated value 1.5 hp - at 4201/20120 V rated value 1.5 hp - at 4201/20120 V rated value 150 000 A Installation mounting dimensions magnetic mounting former (fL) 160 000 A Installation mounting of dimensions vertical mounting position vertical - at 400 V acc: bit EC 60947-41 rated value 150 000 A Installation mounting of dimensions vertical mounting position vertical - at 400	at 400 V rated value	1 100) W				
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holding power of magnet coil at DC 4 W Auxiliary circuit module distance and monitoring functions product existion auxiliary switch Yes Protective and monitoring functions CLASS 10 thip class CLASS 10 design of the overload release themat (bimetallic) ULCSA ratings CLASS 10 full-load current (FLA) for 3-phase AC motor - at 4800 Y relet value - at 200208 V rated value 0.5 hp - at 400480 V rated value 0.5 hp - at 400480 V rated value 1.5 hp - at 400480 V rated value 2.4 Montower (class and class and	control supply voltage at DC						
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product extension auxiliary switch Yes Protective and monitoring functions trip class CLASS 10 tip class CLASS 10 termal (bimetallic) ULCSA ratings full-load current (FLA) for 3-phase AC motor a 2.4 • at 480 V rated value 3.2 A yielded mechanical performance (hp) • for 3-phase AC motor - a 220/230 V rated value 0.5 hp - at 220/230 V rated value 0.75 hp - - - at 450/480 V rated value 1.5 hp - - - at 450/480 V rated value 1.5 hp - - - at 450/480 V rated value 1.5 hp - - - at 450/480 V rated value 1.5 hp - - - at 450/480 V rated value 1.5 hp - - - at 450/480 V rated value 1.5 hp - - - at 450/480 V rated value 1.5 hp - - - at 450/480 V rated value 1.5 hp - - conditional short-circuit turnent (ng) - - - conditional short-circuit	holding power of magnet coil at DC	4 W					
Protective and monitoring functions CLASS 10 trip class CLASS 10 design of the overload release thermal (bimetallic) ULCSA ratings full-load current (FLA) for 3-phase AC motor • at 4400 V rated value 32.A yielded mechanical performance (hp) • 0.5 hp • 1.6 420/2030 V rated value 0.5 hp - at 220/230 V rated value 0.75 hp - at 220/230 V rated value 2.hp Short-circuit protection Yes product function short circuit protection Yes design of the short-circuit trip magnetic conditional short-circuit tring(lq) • etal 400 V acc. to IEC 60047.4-1 rated value 150 000.A installation/ mounting / dimensions vertical screw and snap-on mounting onto 35 mm standard mounting rall mounting position vertical screw and snap-on mounting onto 35 mm standard mounting rall height 198 mm vertical screw and snap-on mounting onto 35 mm standard mounting rall installation/ mounting rall screw and snap-on mounting onto 35 mm standard mounting rall screw and snap-on mounting onto 35 mm standard mounting rall width 45 mm<	Auxiliary circuit						
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design of the overload release Ithermal (bimetallic) ULCSA ratings Ithelead current (FLA) for 3-phase AC motor 3.2 A • if all-bod current (FLA) for 3-phase AC motor 3.2 A • if all-bod current (FLA) for 3-phase AC motor - at 200/208 V rated value 0.5 hp - at 200/208 V rated value 0.5 hp - at 200/208 V rated value 1.5 hp - at 460/480 V rated value 1.5 hp - at 575/600 V rated value 2 hp Short-circuit protection Yes - at 575/600 V rated value 15 hp - at 575/600 V rated value 1.5 hp - at 575/600 V rated value - at 500/208 V rated value - at 450/480 V rated value 150 000 A - magnetic - conditional short-circuit trip conditional short-circuit current (tq) • at 400 V acc, to ICC 60947-4-1 rated value 150 000 A - magnetic mounting position vertical screw and snap-on mounting onto 35 mm standard mounting rail - haight hoight 198 mm - forwards 20 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - backwards <	Protective and monitoring functions						
ULCSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] • for 3-phase AC motor - at 20/0208 V rated value - at 20/0208 V rated value - at 400/480 V rated value - at 400/480 V rated value - at 575/600 V rated value 2 hp Short-circuit protection product function short circuit protection vertical design of the short-circuit trip mounting voltac: to EC 60497-41 rated value - at 400 value - at 575/600 V rated value - at 575/600 V rated value - at 575/600 V rated value - at 575/600 V rate va	trip class	CLAS	SS 10				
full-load current (FLA) for 3-phase AC motor 32.A • el 480 V rated value 32.A yielded mechanical performance (hp) 0.5 hp - at 200/208 V rated value 0.5 hp - at 460/400 V rated value 1.5 hp - at 460/400 V rated value 1.5 hp - at 4575/600 V rated value 1.5 hp - at 575/600 V rated value 1.5 hp read of the short-circuit trip magnetic conditional short-circuit current (lq) • it 400 V acc. to IEC 60947-4-1 rated value • it 400 V acc. to IEC 60947-4-1 rated value 150 000 A Installation/mounting/dimensions vertical mounting position vertical fastening method screw and snap-on mounting onto 35 mm standard mounting rall height 198 mm width 45 mm depth 97 mm required spacing 0 mm • for grounded parts 0 mm - forwards 0 mm - downards 10 mm • ord wards 0 mm - downards 0 mm - downards 0 mm </td <td>design of the overload release</td> <td>thern</td> <td>nal (bimetallic)</td> <td></td>	design of the overload release	thern	nal (bimetallic)				
• el 480 V rated value 3.2 A yielded mechanical performance [hp] • for 3-phase AC motor - at 2002208 V rated value 0.5 hp - at 200230 V rated value 0.75 hp - at 460/480 V rated value 1.5 hp - at 4576/800 V rated value 2 hp Short-circuit protection Yes design of the short-circuit trip magnetic conditional short-circuit cornet (lq) 150 000 A • at 400 V ace. to IEC 60947-4-1 rated value 150 000 A Installation/ mounting/ dimensions vertical mounting position vertical fastening method screw and snap-on mounting onto 35 mm standard mounting rail height 198 mm width 45 mm depth 97 mm required spacing 0 mm • forwards 20 mm - at the side 20 mm - downwards 10 mm • for live parts 0 mm - downwards 20 mm - at the side 20 mm - downwards 0 mm - at the side 20 mm - downwards 0 mm - at the side 20 mm - downwards 0 mm - at the side 20 mm - downwa	UL/CSA ratings						
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• for 3-phase AC motor 0.5 hp - at 200203 V rated value 0.5 hp - at 20023 V rated value 0.75 hp - at 460/480 V rated value 1.5 hp - at 575/600 V rated value 2 hp Short-circuit protection Yes magnetic conditional short-circuit trip conditional short-circuit trent (dg) • at 400 V acc. to IEC 60947-4-1 rated value • at 400 V acc. to IEC 60947-4-1 rated value 150 000 A Installation/ mounting/ dimensions vertical mounting position screw and snap-on mounting onto 35 mm standard mounting rail height 198 mm width 45 mm dopth 97 mm required spacing • for grounded parts - forwards 20 mm - at the side 20 mm - downwards 10 mm - forwards 20 mm - downwards 20 mm - downwards 10 mm - downwards 20 mm - downwards 20 mm - downwards 20 mm - downwards	 at 480 V rated value 	3.2 A					
- at 200/208 V rated value 0.5 hp - at 220/230 V rated value 0.75 hp - at 20/230 V rated value 1.5 hp - at 575/600 V rated value 2 hp Short-circuit protection Yes design of the short-circuit protection Yes orditional short-circuit trip magnetic conditional short-circuit current (lq) 150 000 A i et 40 V ac. to IEC 60947.4-1 rated value 150 000 A Installation/ mounting/dimensions vertical mounting position screw and snap-on mounting onto 35 mm standard mounting rail height 198 mm width 45 mm depth 97 mm required spacing 0 mm • for grounded parts 0 mm - forwards 20 mm - at the side 20 mm - downards 10 mm - otowards 0 mm - downards 20 mm - backwards 0 mm - at the side 20 mm - at the side 20 mm - backwards 0 mm - downwards 10 mm - at the side 20 mm - at the side 20 mm - backwards 0 mm - at the side 20 mm <	yielded mechanical performance [hp]						
	 for 3-phase AC motor 						
	— at 200/208 V rated value	0.5 h	р				
	— at 220/230 V rated value						
	— at 460/480 V rated value	1.5 h	р				
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height 198 mm width 45 mm depth 97 mm required spacing 97 mm • for grounded parts 97 mm - forwards 20 mm - backwards 0 mm - upwards 50 mm - downwards 10 mm • for live parts 20 mm - forwards 20 mm - downwards 10 mm • for live parts 20 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - downwards 10 mm - backwards 0 mm - at the side 20 mm Safety related data 50 mm B10 value with high demand rate acc. to SN 31920 1 000 000 proportion of dangerous failures 73 % • with high demand rate acc. to SN 31920 73 % touch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front Certificates/ approvals For use in hazardous <td< td=""><td></td><td colspan="4"></td></td<>							
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• for live parts 20 mm - forwards 20 mm - backwards 0 mm - upwards 50 mm - downwards 10 mm - at the side 20 mm Connections/ Terminals 20 mm type of electrical connection spring-loaded terminals safety related data 1000 000 B10 value with high demand rate acc. to SN 31920 1 000 000 proportion of dangerous failures - • with high demand rate acc. to IEC 60529 finger-safe, for vertical contact from the front Certificates/ approvals For use in hazardous Declaration of Conformity	— at the side	20 mm					
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Safety related data B10 value with high demand rate acc. to SN 31920 1 000 000 proportion of dangerous failures 73 % • with high demand rate acc. to SN 31920 73 % touch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front Certificates/ approvals For use in hazardous Declaration of Conformity	 for main current circuit 	spring-loaded terminals					
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proportion of dangerous failures 73 % • with high demand rate acc. to SN 31920 73 % touch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front Certificates/ approvals For use in hazardous Declaration of Conformity	B10 value with high demand rate acc. to SN 31920	1 000 000					
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Certificates/ approvals General Product Approval For use in hazardous Declaration of Conformity		finge	finger-safe, for vertical contact from the front				
General Product Approval For use in hazardous Declaration of Conformity							
				Declaration of Conformity			



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=3RA2110-1DE15-1BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-1DE15-1BB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1DE15-1BB4

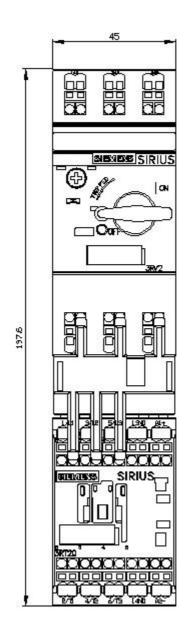
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-1DE15-1BB4&lang=en</u>

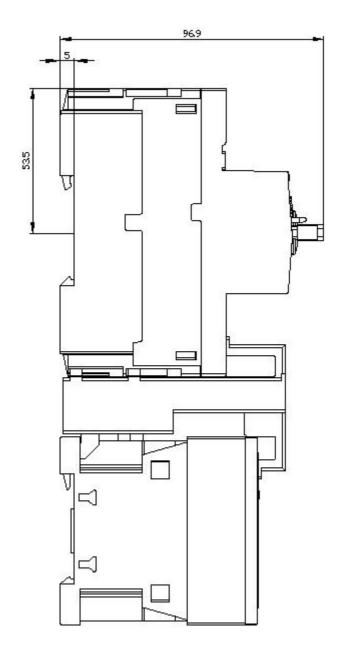
Characteristic: Tripping characteristics, I²t, Let-through current

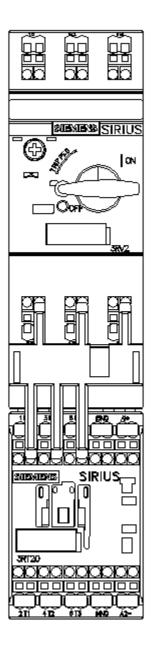
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1DE15-1BB4/char

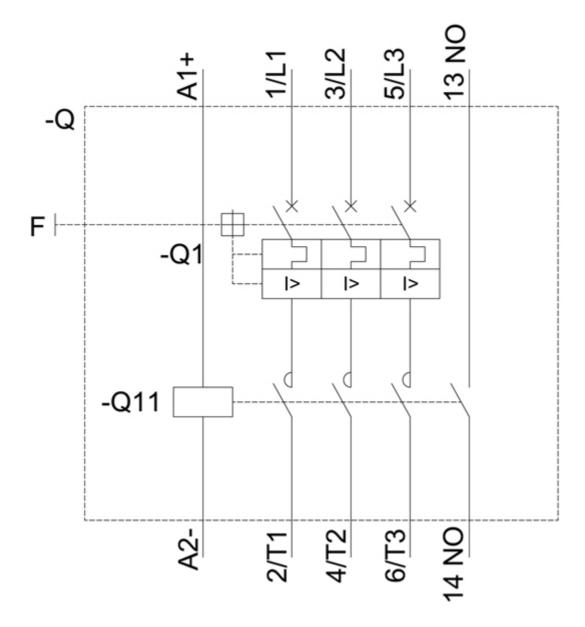
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-1DE15-1BB4&objecttype=14&gridview=view1









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