3RA2210-1GH15-2AP0

Data sheet



Load feeder fuseless, Reversing duty 400 V AC, Size S00 4.50...6.30 A 230 V AC Spring-type terminal for 60 mm busbar systems Type of coordination 1, Iq = 150 kA 1 NC (contactor)

product brand name	SIRIUS		
product designation	Reversing starter		
design of the product	for 60 mm busbars		
product type designation	3RA22		
manufacturer's article number			
of the supplied contactor	3RT2015-2AP02		
 of the supplied circuit-breakers 	3RV2011-1GA20		
 of the supplied RS assembly kit 	3RA2913-1DB2		
 of the supplied link module 	3RA2911-2AA00		
General technical data			
size of the circuit-breaker	S00		
size of load feeder	S00		
power loss [W] for rated value of the current			
 at AC in hot operating state per pole 	2.6 W		
 without load current share typical 	4.2 W		
insulation voltage with degree of pollution 3 at AC rated value	690 V		
surge voltage resistance rated value	6 kV		
degree of protection NEMA rating	other		
shock resistance according to IEC 60068-2-27	6g / 11 ms		
mechanical service life (operating cycles) of contactor typical	30 000 000		
type of assignment	1		
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		
reference code according to IEC 81346-2:2019	Q		
Substance Prohibitance (Date)	10/01/2009		
Ambient conditions			
ambient temperature			
 during operation 	-20 +60 °C		
during storage	-50 +80 °C		
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	4.5 6.3 A		
operating voltage			
• rated value	690 V		
• at AC-3 rated value maximum	690 V		

Operating frequency rated value 50 60 Hz				
Separation Control C		690 V		
# at AC-3 at 400 V rinde value	operating frequency rated value	50 60 Hz		
# AIA-G-9a ti 400 V roled value 0.3 A	operational current			
Operating power	• at AC-3 at 400 V rated value			
* et AC-3		6.3 A		
- at 400 V rated value 2 200 W • alt AC-3c — at 400 V rated value 2 200 kW Control Circital Control Vige of Voltage of the control supply voltage AC • at 50 Hz rated value 230 V • at 50 Hz value Value 250 V • at 400 V rated value 4.8 A • at 50 V rated value 4.8 A • at 50 V rated value 9.25 hp • at 200 V rated value 9.5 hp • at 500 V rated valu	operating power			
	• at AC-3			
	— at 400 V rated value	2 200 W		
Control circuit/ Control AC . op of voltage of the control supply voltage AC . at 50 Hz rated value 230 V . at 50 Hz rated value 230 L20 V . at 60 Hz rated value 230 L20 V . at 60 Hz rated value 230 L20 V . at 60 Hz rated value 230 L20 V . at 50 Hz 42 VA . at 50 Hz 33 VA inductive power factor with the holding power of the coil 0.25 . at 60 Hz 0.25 <t< td=""><td>• at AC-3e</td><td></td></t<>	• at AC-3e			
type of voltage of the control supply voltage at AC - all 50 Hz rated value - all 50 Hz	— at 400 V rated value	2 200 kW		
control supply voltage at AC	Control circuit/ Control			
	type of voltage of the control supply voltage	AC		
■ at 50 Hz rated value ■ at 60 Hz rated value ■ at 60 Hz rated value ■ at 60 Hz rated value ■ 230 230 V apparent holding power of magnet coil at AC ■ at 50 Hz ■ at 50 Hz ■ at 60	control supply voltage at AC			
• at 60 Hz rated value 230 V apparent holding power of magnet coil at AC	at 50 Hz rated value	230 V		
■ at 60 Hz rated value apparent holding power of magnet coil at AC ■ at 50 Hz ■ at 60 Hz ■ at 60 Hz Declaration auxiliary switch Protective and monitoring functions trip class □ CLASS 10 design of the overload rolease □ thermal (nimetallic) response value current of instantaneous short-circuit trip unit UUCSA ratings full-load current (FLA) for 3-phase AC motor ■ at 80 V rated value ■ at 80 V rated value ■ at 80 V rated value ■ at 600 V rated value ■ of or single-phase AC motor ■ at 200 V rated value ■ of or single-phase AC motor ■ at 200/208 V rated value ■ at 200/208 V rated value ■ at 200/208 V rated value ■ at 60040 V rated value ■ at 80040	at 50 Hz rated value	230 230 V		
apparent holding power of magnet coil at AC	• at 60 Hz rated value	230 V		
	• at 60 Hz rated value	230 230 V		
• at 60 Hz	apparent holding power of magnet coil at AC	4.2 VA		
• st 60 Hz				
at 50 Hz				
Auxiliary circuit product extension auxiliary switch Protective and monitoring functions trip class design of the overload release response value current of instantaneous short-circuit trip unit ULCSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value A 8.6 A at 600 V rated value Or single-phase AC motor — at 110/120 V rated value — at 230 V rated value — at 230 V rated value — at 200/208 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 65/600 V rated value — at 65/600 V rated value — at 670/000 V rated value — at 600/000 V rated value — at 670/000 V rated value — at 600/000 V rated value — at 670/000 V rate				
product extension auxiliary switch Protective and monitoring functions trip class design of the overload release response value current of instantaneous short-circuit trip unit ULICSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • for single-phase AC motor • at 1101/20 V rated value • for single-phase AC motor • at 1200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • at 200/208 V rated value • at 200/208 V rated value • at 2400/800 V rated value • at 480 V rated value • for 3-phase AC motor • at 200/208 V rated value • at 200/208 V rated value • at 200/208 V rated value • at 400/408 V rated value • b for 3-phase AC motor • at 400/408 V rated value • b for 3-phase AC motor • at 400/408 V rated value • b for 3-phase AC motor • at 400 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 400 V according to IEC 60947-4-1 rated value • for snapping onto 60 mm busbar systems height vidth • go mm depth • for grounded parts • for grou	1111	0.20		
Protective and monitoring functions trip class CLASS 10 design of the overload release tesponse value current of instantaneous short-circuit trip unit 82 A ULCSA ratings full-load current (FLA) for 3-phase AC motor		Voc		
CLASS 10		res		
design of the overload release thermal (bimetallic) response value current of instantaneous short-circuit trip unit 82 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor		01.400.40		
response value current of instantaneous short-circuit trip unit ULCSX ratings full-load current (FLA) for 3-phase AC motor	<u> </u>			
full-load current (FLA) for 3-phase AC motor • at 480 V rated value 4.8 A • at 600 V rated value 6.1 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 0.25 hp — at 230 V rated value 0.75 hp • for 3-phase AC motor — at 200/280 V rated value 0.75 hp • for 3-phase AC motor — at 200/280 V rated value 2 1.5 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 5 hp — at 475/600 V rated value 5 hp Short-circuit protection product function short circuit protection 4 magnetic conditional short-circuit turrent (Iq) • at 400 V according to IEC 60947-4-1 rated value 150 000 A Installation/ mounting dimensions mounting position 5 vertical fastening method 6 ro snapping onto 60 mm busbar systems height 260 mm width 90 mm depth 155 mm required spacing • for grounded parts — forwards 32 mm — backwards — backwards — upwards — at the side 10 mm				
full-load current (FLA) for 3-phase AC motor • at 480 V rated value		82 A		
• at 600 V rated value yelded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 0.25 hp 0.75 hp • for 3-phase AC motor — at 200/208 V rated value 1.5 hp — at 220/230 V rated value 2 hp — at 460/480 V rated value 3 hp — at 575/600 V rated value 5 hp Short-circuit protection product function short circuit protection reading of the short-circuit trip at 400 V according to IEC 60947-4-1 rated value 150 000 A Installation/ mounting/ dimensions mounting position fastening method for snapping onto 60 mm busbar systems height 90 mm depth 155 mm required spacing • for grounded parts — forwards — backwards — backwards — upwards — at the side 10 mm	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 0.75 hp • for 3-phase AC motor — at 200/208 V rated value 1.5 hp — at 220/230 V rated value 2 hp — at 460/480 V rated value 3 hp — at 575/600 V rated value 5 hp Short-circuit protection product function short circuit protection design of the short-circuit current (lq) • at 400 V according to IEC 60947-4-1 rated value 150 000 A Installation/ mounting/ dimensions mounting position fastening method for snapping onto 60 mm busbar systems height 90 mm depth 155 mm required spacing • for grounded parts — backwards — backwards — backwards — upwards — at the side 10 mm		6.1 A		
- at 110/120 V rated value	yielded mechanical performance [hp]			
- at 230 V rated value • for 3-phase AC motor - at 220/208 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value Short-circuit protection	 for single-phase AC motor 			
• for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value Short-circuit protection For a design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method for snapping onto 60 mm busbar systems height vertical fastening method for snapping onto 60 mm busbar systems height yen efor grounded parts — for grounded parts — for grounded parts — backwards — backwards — upwards — at the side 10 mm	— at 110/120 V rated value	0.25 hp		
- at 200/208 V rated value	— at 230 V rated value	0.75 hp		
- at 220/230 V rated value 2 hp - at 460/480 V rated value 5 hp Short-circuit protection product function short circuit protection Yes design of the short-circuit trip magnetic conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value 150 000 A Installation/ mounting/ dimensions mounting position vertical fastening method for snapping onto 60 mm busbar systems height 260 mm width 90 mm depth 155 mm required spacing • for grounded parts - forwards 32 mm - backwards 0 mm - upwards - upwards - at the side 10 mm	 for 3-phase AC motor 			
- at 460/480 V rated value 5 hp Short-circuit protection product function short circuit protection Yes design of the short-circuit trip magnetic conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value 150 000 A Installation/ mounting/ dimensions mounting position vertical for snapping onto 60 mm busbar systems height 260 mm width 90 mm depth 155 mm required spacing • for grounded parts - forwards 32 mm - backwards 0 mm - upwards - upwards - at the side 10 mm	 — at 200/208 V rated value 	1.5 hp		
— at 575/600 V rated value 5 hp Short-circuit protection product function short circuit protection Yes design of the short-circuit trip magnetic conditional short-circuit current (lq) ■ at 400 V according to IEC 60947-4-1 rated value 150 000 A Installation/ mounting/ dimensions mounting position vertical fastening method for snapping onto 60 mm busbar systems height 260 mm width 90 mm depth 155 mm required spacing ■ for grounded parts — forwards — backwards — backwards — upwards — at the side 10 mm	 — at 220/230 V rated value 	2 hp		
product function short circuit protection product function short circuit protection design of the short-circuit trip anguetic conditional short-circuit current (Iq) at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method for snapping onto 60 mm busbar systems height 260 mm width 90 mm depth 155 mm required spacing for grounded parts - forwards - backwards - backwards - upwards - ut the side 10 mm	— at 460/480 V rated value	3 hp		
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height 260 mm width 90 mm depth required spacing • for grounded parts — forwards — backwards — upwards — upwards — at the side 10 mm magnetic 150 000 A 150 000 A portical for snapping onto 60 mm busbar systems 155 mm 155 mm 155 mm 155 mm 155 mm 157 mg 158 mg 159 mg 150 mm 150 mm 10 mm	— at 575/600 V rated value	5 hp		
design of the short-circuit trip conditional short-circuit current (Iq)	Short-circuit protection			
design of the short-circuit trip magnetic conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value 150 000 A Installation/ mounting/ dimensions mounting position vertical fastening method for snapping onto 60 mm busbar systems height 260 mm width 90 mm depth 155 mm required spacing • for grounded parts — forwards — backwards — upwards — upwards — at the side 10 mm	product function short circuit protection	Yes		
conditional short-circuit current (Iq)	<u> </u>	magnetic		
● at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position vertical fastening method height 260 mm width 90 mm depth 155 mm required spacing ● for grounded parts — forwards — backwards — upwards — at the side 10 mm				
mounting position vertical fastening method for snapping onto 60 mm busbar systems height 260 mm width 90 mm depth 155 mm required spacing		150 000 A		
mounting positionverticalfastening methodfor snapping onto 60 mm busbar systemsheight260 mmwidth90 mmdepth155 mmrequired spacingFor grounded parts— for grounded parts32 mm— backwards0 mm— upwards50 mm— at the side10 mm				
fastening method for snapping onto 60 mm busbar systems height 260 mm width 90 mm depth 155 mm required spacing • for grounded parts — forwards — backwards — upwards — at the side for snapping onto 60 mm busbar systems 32 mm 0 mm 50 mm		vertical		
height260 mmwidth90 mmdepth155 mmrequired spacing● for grounded parts- forwards— forwards32 mm— backwards0 mm— upwards50 mm— at the side10 mm				
width 90 mm depth 155 mm required spacing For grounded parts — for wards 32 mm — backwards 0 mm — upwards 50 mm — at the side 10 mm		i i i		
depth 155 mm required spacing For grounded parts — for grounded parts 32 mm — backwards 0 mm — upwards 50 mm — at the side 10 mm				
required spacing • for grounded parts — forwards — backwards — upwards — at the side 32 mm 0 mm 50 mm 10 mm				
 for grounded parts forwards backwards upwards at the side for grounded parts 32 mm 0 mm 50 mm 10 mm 	<u> </u>	100 mill		
— forwards 32 mm — backwards 0 mm — upwards 50 mm — at the side 10 mm				
 backwards upwards at the side 0 mm 50 mm 10 mm 		22		
upwardsat the side50 mm10 mm				
— at the side 10 mm				
	·	50 mm		
— downwards 10 mm	at the side			

General Product Approval		For use in hazard- ous locations	Declaration of Conformity		
Certificates/ approvals					
protocol is supported AS-Interface protocol	No				
PROFIsafe protocol	No				
PROFINET IO protocol	No				
protocol is supported					
Communication/ Protocol					
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front				
with high demand rate according to SN 31920	73 %				
proportion of dangerous failures					
B10 value with high demand rate according to SN 31920	1 000 000				
Safety related data					
for auxiliary and control circuit	spring-loaded terminals				
for main current circuit	spring-loaded terminals				
type of electrical connection					
Connections/ Terminals					
— at the side	10 mm				
— downwards	10 mm				
— upwards	50 mm				
— backwards	0 mm				
— forwards	32 mm				
for live parts					

Confirmation











Test Certificates

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate









Marine / Shipping







Confirmation

other

Vibration and Shock

Railway

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RA2210-1GH15-2AP0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2210-1GH15-2AP0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-1GH15-2AP0

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

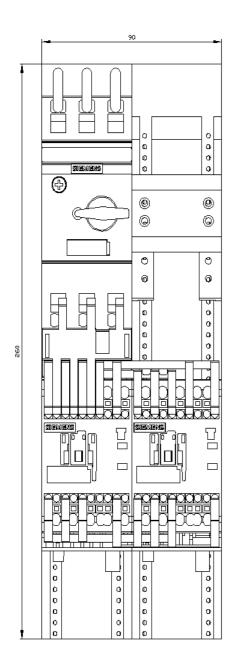
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2210-1GH15-2AP0\&lang=en}}$

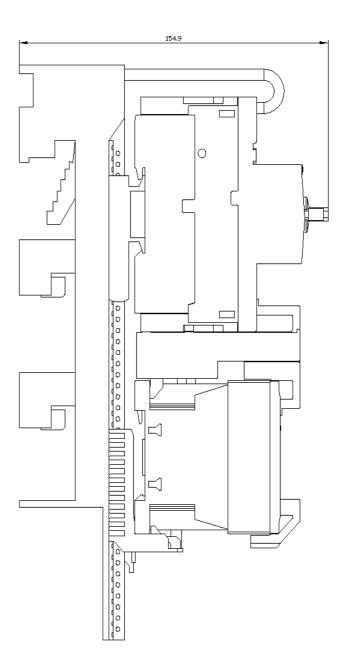
Characteristic: Tripping characteristics, I^2t , Let-through current

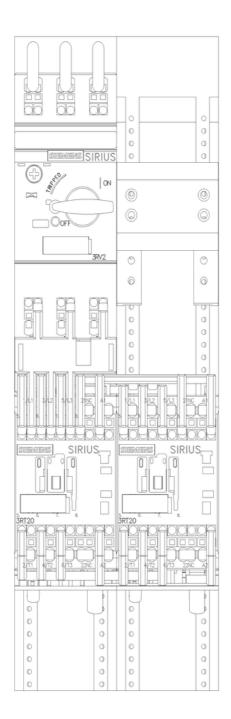
https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-1GH15-2AP0/char

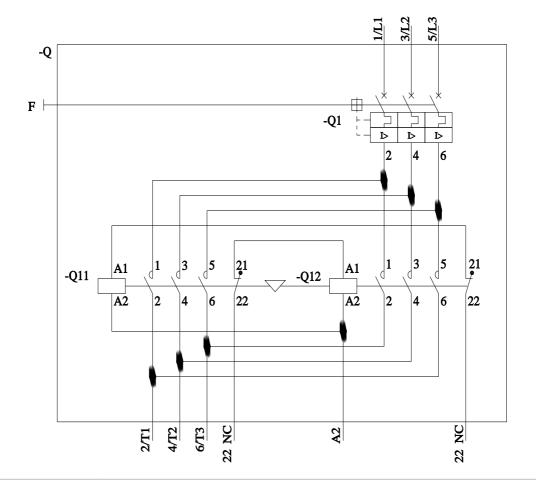
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2210-1GH15-2AP0&objecttype=14&gridview=view1









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