## 3RA2210-1GA15-2AP0

**Data sheet** 



Load feeder fuseless, Reversing duty 400 V AC, Size S00 4.50...6.30 A 230 V AC screw terminal for installation on standard mounting rail Type of coordination 1, Iq = 150 kA 1 NC (contactor)

product brand name	SIRIUS	
product designation	Reversing starter	
design of the product	for standard rail or screw mounting	
product type designation	3RA22	
manufacturer's article number		
<ul> <li>of the supplied contactor</li> </ul>	3RT2015-1AP02	
<ul> <li>of the supplied circuit-breakers</li> </ul>	3RV2011-1GA10	
<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	
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	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	
Substance Prohibitance (Date)	01.10.2009 00:00:00	
Ambient conditions		
<ul> <li>ambient temperature during operation</li> </ul>	-20 +60 °C	
<ul> <li>ambient temperature during storage</li> </ul>	-50 +80 °C	
<ul> <li>ambient temperature during transport</li> </ul>	-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	
<ul> <li>operating voltage 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	4.9 A	

operating power at AC-3		_			
Control circuit/ Control  Sype of voitage of the control supply voitage  of to Voitage of the control supply voitage  and to Voitage of the control supply voitage  of the Voitage of Voitage of Voitage  product extension auxiliary switch  Productive and monitoring functions  trip class  design of the overload release  ULICSA rating  full-load current (FLA) for 3-phase AC motor  of 3-phase AC mo		0.000 \\			
type of voltage of the control supply voltage  control supply voltage at AC  at 60 Hz rated value  at 60 Hz rated value  230 V  at 60 Hz rated value  230 V  product extension auxillary switch  Protective and monitoring inactions  trip class  CLASS 10  design of the overload release  ULCSS ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  4 8 A  yielded mechanical performance (hp)  of 3-phase AC motor  - at 200208 V rated value  - at 200208 V rated value  - at 2502030 V rated value  - at 2502030 V rated value  - at 250200 V rated value  - box box box circuit protection  product function short circuit protection  yes  design of the short-circuit protection  product function short-circuit protection  set and 0 x acc, to IEC 6084-4 rated value  150 000 A  Installation/ mounting/ dimensions  mounting position  fastening method  - in for grounded parts  - for yeards  - upwards  - box words  - upwards  - on mine the die  - downwards  - on mine the side  - on ownwards  - on mine the side  - ownwards  - of or live parts  - ownwards  - ow		2 200 VV			
control supply voltage at AC  • at 60 Hz rated value  • at 60 Hz rated value  • at 60 Hz rated value  230 V  apparant holding power of magnet cell at AC  Azvializary circuit  Product extension auxiliary switch  Protective and monitoring functions  Irip class  design of the overload rolease  ULICSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  — at 200208 V rated value  — at 400480 V rated value  — at 400480 V rated value  • at 400 V acc to ICE 60947-4-1 rated value  • at 400 V acc to ICE 60947-4-1 rated value  height  for on the parts  — forwards  — converted  - forwards  — at the side  — downwards  — of man  - downwards  — of man					
e at 60 Hz rated value 230 V apparent holding power of magnet coil at AC Auxiliary circuit product extension auxiliary switch Yes Protective and monitoring functions It ip class design of the overload release UUCSA ratings (ULOSA ratings IULIOSA ratings (ULOSA ratings IULIOSA ratings  IULIOSA ratings  IULIOSA value 4.8 A  yielded mechanical performance [hp] • for 3-phase AC motor — at 200,028 V rated value — at 40,448 V rated value — at 575,000 V rated value — at 575,000 V rated value — at 575,000 V rated value — at 60,448 V rated value — at 674,444 V rated value		AC AC			
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Protective and monitoring functions trip class design of the overload release thermal (bimetallic)  ULCSA ratings  full-load current (FLA) for 3-phase AC motor		V.			
trip class design of the overload release UL/CSA 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 200/230 V rated value — at 200/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — by 5 hp  Short-circuit protection product function short circuit protection design of the short-circuit current (fq) • at 400 V acc. to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position depth  for grounded parts — forwards — backwards — upwards — at the side — downwards — orwards — backwards — upwards — the side — downwards — lo mm — of relie parts — forwards — backwards — upwards — backwards — upwards — the side — downwards — lo mm — of the parts — forwards — backwards — upwards — backwards — upwards — the side — downwards — lo mm — of the side — downwards — lo mm — of the side — downwards — lo mm — of the side — downwards — lo mm — of the side — downwards — lo mm — of the side — downwards — lo mm — of the side — downwards — lo mm — of the side — lo mm — of th		Yes			
design of the overload release   thermal (bimetallic)		01.400.40			
ULICSA 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  for 3-phase AC motor  at 220/230 V rated value  at 460/480 V rated value  at 575/600 V rated value  by 5 hp  Short-circuit protection  product function short circuit tryp  conditional short-circuit current (Iq)  at 400 V acc. to IEC 60947-4-1 rated value  fastening method  fastening method  fastening method  screw and snap-on mounting onto 35 mm standard mounting rail  height  170 mm  depth  required spacing  for grounded parts  for grounded parts  backwards  upwards  the side  downwards  for live parts  forwards  of rive parts  forwards  downwards  for wards  obackwards  upwards  for live parts  forwards  downwards  for wards  downwards  for live parts  forwards  downwards  for main current circuit  screw-type terminals  type of electrical connection  of or main current circuit  screw-type terminals  screw-type terminals  Sately related data  Bit ovalue with high demand rate acc. to SN 31920  proportion of dangerous failures  with high demand rate acc. to IEC 60529  Certificates/ approvals  For use in  Declaration of Contentity  For use in  Declaration of Contenti		thermal (bimetallic)			
• at 480 V rated value     yielded mechanical performance [hp]     • 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 575/500 V rated value     — at 575/500 V rated value     — at 575/500 V rated value     — ba 4575/500 V rated value     — at 575/500 V rated value      Description of the short-circuit trip     conditional short-circuit trip     conditional short-circuit current (tq)     • at 400 V acc. to IEC 60947-4-1 rated value  Installation mounting / dimensions  mounting position     design method     screw and snap-on mounting onto 35 mm standard mounting rail     height     170 mm     width     40pth     depth     70 grounded parts     — forwards     — backwards     — backwards     — upwards     — at the side     — downwards     — to fire parts     — forwards     — upwards     — backwards     — upwards     — backwards     — upwards     — for live parts     — forwards     — at the side     — downwards     — to mm     — downwards     — to mm     — downwards     — to mm     — downwards     — at the side     — downwards     — to mm     — downwards     — to fire parts     — downwards     — to fire parts     — downwards     — to fire parts     — at the side     — downwards     — to mm     — downwards     — to fire parts     — to fire p		<u></u>			
yleided mechanical performance [hp]  • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 520/208 V rated value — at 575/600 V rated value  Short-circuit protection product function short circuit trop conditional short-circuit trip conditional short-circuit current (lq) • at 400 V acc. to IEC 60947-4-1 rated value  Iso 000 A  Installation mounting of dimensions  mounting position fastening method height violation depth 90 mm  depth 97 mm  required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards — the side — downwards — beckwards — beckwards — upwards — the side — downwards — beckwards — beckwards — beckwards — the side — downwards — the side — to mm — the side — downwards — the side — to mm — the side — downwards — the side — to mm — the side — downwards — the side — to mm — the side — the side — to mm — the side — to mm — the side — the side — to mm — the side — to mm — the side — the					
of or 3-phase AC motor		4.8 A			
- at 200/208 V rated value					
- at 220/230 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  product function short circuit protection  design of the short-circuit trip endesign of the short-circuit surface of conformity endesign of the short-circuit surface of conformity endesign of the short-ci	•				
- at 460/480 V rated value					
- at 575/600 V rated value 5 hp  Short-circuit protection product function short circuit trip conditional short-circuit trip at 400 V acc. to IEC 60947-4-1 rated value 150 000 A  Installation/mounting/dimensions mounting position vertical fastening method screw and snap-on mounting onto 35 mm standard mounting rail height 170 mm whidth 90 mm depth 97 mm  required spacing • for grounded parts — forwards 0 mm — at the side 10 mm • for live parts — forwards 32 mm — at the side 10 mm • for live parts — forwards 32 mm — backwards 0 mm • for live parts — forwards 32 mm — at the side 10 mm • for live parts — backwards 0 mm  • for live parts — forwards 32 mm — backwards 0 mm  • for live parts — forwards 10 mm • for live parts — downwards 10 mm  • for live parts — downwards 10 mm  Some of the side 10 mm  To mm  Some of the side 10 mm  To m					
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current ((a)  • at 400 V acc. 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 depth 97 mm  required spacing • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards • for live parts — backwards — upwards — backwards — upwards — to mm — to					
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V acc. to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height 170 mm width 90 mm depth 97 mm required spacing • for grounded parts — forwards — at the side — downwards — at the side — downwards — backwards — backwards — backwards — backwards — on mm • for live parts — forwards — backwards — on mm  • for live parts — forwards — at the side — downwards — 10 mm  • for man current circuit  Connections/ Terminals  type of electrical connection • for main current circuit  Safety related data B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures • with high demand rate acc. to SN 31920 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  Peclaration of Contormity		5 hp			
design of the short-circuit current (Iq)  • at 400 V acc. to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  90 mm  depth  required spacing  • for grounded parts  — forwards — at the side — downwards — for live parts — forwards — backwards — ownwards — ownwards — the side — downwards — the side — downwards — ownwards — backwards — for mand  • for live parts — forwards — at the side — downwards — upwards — backwards — ownwards — the side — downwards — the side — downwards — the side — the s					
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mounting position fastening method height width 170 mm width depth 97 mm  required spacing  • for grounded parts — backwards — upwards — at the side — downwards — for live parts — forwards — backwards — upwards — at the side — downwards — townwards — upwards — downwards — upwards — at the side — townwards — the side  Connections/ Terminals  type of electrical connection • for main current circuit  Safety related data  B10 value with high demand rate acc. to SN 31920  proportion of dangerous failures • with high demand rate acc. to SN 31920  proportion of dangerous failures • with high demand rate acc. to IEC 60529  Certificates/ approvals  For use in  Declaration of Conformity		150 000 A			
fastening method height width depth 90 mm  for grounded parts - forwards - upwards - at the side - downwards - backwards - browards - browards - to fir live parts - forwards - upwards - a the side - downwards - backwards - browards - browards - to mm - for live parts - forwards - upwards - backwards - backwards - browards - to mm -	Installation/ mounting/ dimensions				
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width 90 mm  depth 97 mm  required spacing  • for grounded parts  — forwards — backwards — upwards — at the side — downwards — for wards  • for live parts  — forwards — backwards — o mm  • for live parts — forwards — backwards — upwards — backwards — upwards — backwards — upwards — upwards — at the side — downwards — 10 mm  Connections/ Terminals  type of electrical connection • for main current circuit  Safety related data  B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures • with high demand rate acc. to SN 31920 touch protection on the front acc. to IEC 60529  Cortificates/ approvals  For use in Packaration of Conformity		screw and snap-on mounting onto 35 mm standard mounting rail			
depth   97 mm   97 mm					
required spacing  • for grounded parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — of mile parts  — forwards  — of mile parts  — forwards  — upwards  — backwards  — upwards  — upwards  — downwards  — upwards  — of mile parts  — for main current circuit   Connections/ Terminals  type of electrical connection  • for main current circuit  Safety related data  B10 value with high demand rate acc. to SN 31920  proportion of dangerous failures  • with high demand rate acc. to IEC 60529  touch protection on the front acc. to IEC 60529  Certificates/ approvals  For use in  Paclaration of Conformity					
for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         — for live parts         — for wards         — backwards         — for live parts         — forwards         — backwards         — backwards         — upwards         — upwards         — upwards         — upwards         — upwards         — upwards         — at the side         — 10 mm  Connections/ Terminals  type of electrical connection         • for main current circuit  Safety related data  B10 value with high demand rate acc. to SN 31920  proportion of dangerous failures         • with high demand rate acc. to SN 31920  touch protection on the front acc. to IEC 60529  Certificates/ approvals  For use in  Packaration of Conformity	<u> </u>	97 mm			
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- at the side 10 mm - downwards 10 mm  • for live parts - forwards 32 mm - backwards 0 mm - upwards 50 mm - downwards 10 mm  - at the side 10 mm  Connections/ Terminals  type of electrical connection • for main current circuit screw-type terminals  Safety related data  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 Pactaration of Conformity					
- downwards  • for live parts  - forwards  - backwards  - upwards  - downwards  - at the side  Connections/ Terminals  type of electrical connection  • for main current circuit  Safety related data  B10 value with high demand rate acc. to SN 31920  proportion of dangerous failures  • with high demand rate acc. to SN 31920  touch protection on the front acc. to IEC 60529  To use in  Paclaration of Conformity  For use in  Paclaration of Conformity					
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forwards backwards upwards upwards downwards at the side at		10 mm			
— backwards — upwards — downwards — at the side — at the side — at the side — at the side — of electrical connection • for main current circuit  Safety related data  B10 value with high demand rate acc. to SN 31920  proportion of dangerous failures • with high demand rate acc. to SN 31920  touch protection on the front acc. to IEC 60529  For use in  Declaration of Conformity	•	20			
- upwards - downwards - at the side  Connections/ Terminals  type of electrical connection • for main current circuit  Safety related data  B10 value with high demand rate acc. to SN 31920  proportion of dangerous failures • with high demand rate acc. to SN 31920  touch protection on the front acc. to IEC 60529  Certificates/ approvals  For use in  Paclaration of Conformity					
— downwards — at the side  Connections/ Terminals  type of electrical connection • for main current circuit  Safety related data  B10 value with high demand rate acc. to SN 31920  proportion of dangerous failures • with high demand rate acc. to SN 31920  touch protection on the front acc. to IEC 60529  Certificates/ approvals  For use in  Poclaration of Conformity		~ *****			
— at the side 10 mm  Connections/ Terminals  type of electrical connection					
type of electrical connection					
type of electrical connection		TO MIM			
◆ for main current circuit     Safety related data  B10 value with high demand rate acc. to SN 31920     proportion of dangerous failures     ◆ with high demand rate acc. to SN 31920  touch protection on the front acc. to IEC 60529  Certificates/ approvals  For use in  Peclaration of Conformity					
Safety related data  B10 value with high demand rate acc. to SN 31920  proportion of dangerous failures  • with high demand rate acc. to SN 31920  touch protection on the front acc. to IEC 60529  Certificates/ approvals  For use in  Declaration of Conformity		annu haa taasa			
B10 value with high demand rate acc. to SN 31920  proportion of dangerous failures  • with high demand rate acc. to SN 31920  touch protection on the front acc. to IEC 60529  Certificates/ approvals  For use in  Declaration of Conformity		screw-type terminals			
proportion of dangerous failures  • with high demand rate acc. to SN 31920  touch protection on the front acc. to IEC 60529  Certificates/ approvals  For use in  Declaration of Conformity		4 000 000			
with high demand rate acc. to SN 31920     touch protection on the front acc. to IEC 60529  Certificates/ approvals  For use in  Declaration of Conformity		1 000 000			
touch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front  Certificates/ approvals  For use in Declaration of Conformity					
Certificates/ approvals  For use in Declaration of Conformity					
General Product Approval  For use in  Declaration of Conformity		tinger-safe, for vertical contact from the front			
General Product Approval	Certificates/ approvals				
	General Product Approval		Declaration of Conformity		









**Miscellaneous** 



**Test Certificates** 

Marine / Shipping

Type Test
Certificates/Test
Report

Special Test Certificate









Marine / Shipping

other Railway







Confirmation

Vibration and Shock

## 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=3RA2210-1GA15-2AP0

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2210-1GA15-2AP0}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-1GA15-2AP0

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

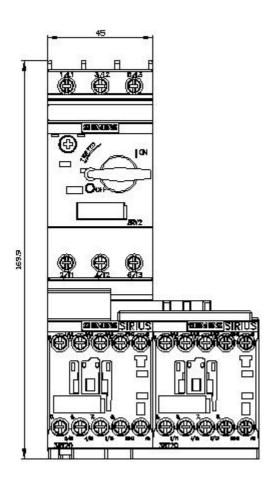
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2210-1GA15-2AP0&lang=en

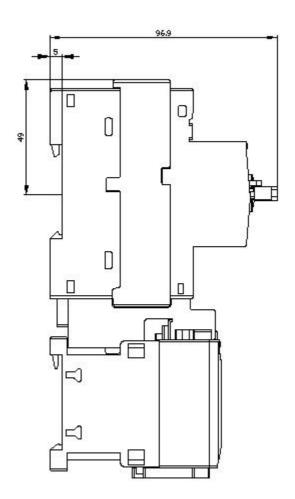
Characteristic: Tripping characteristics, I2t, Let-through current

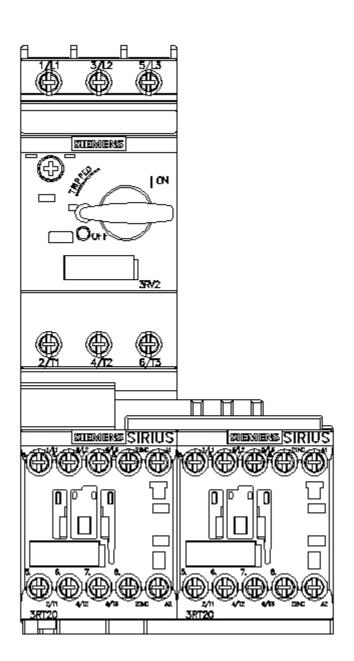
https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-1GA15-2AP0/char

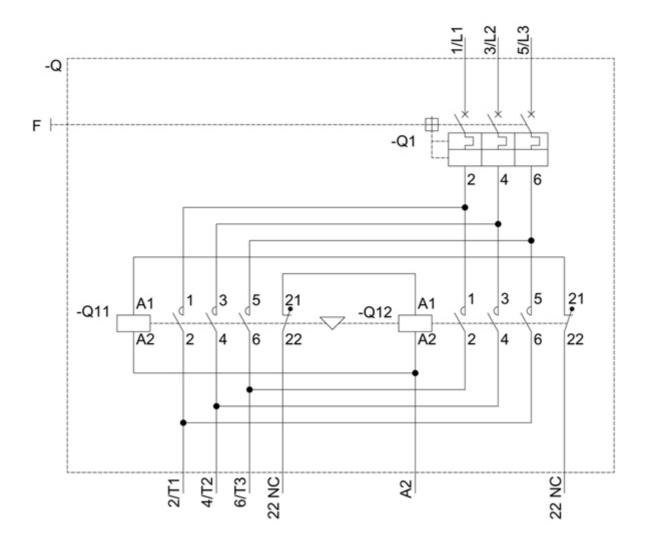
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2210-1GA15-2AP0&objecttype=14&gridview=view1









last modified: 12/15/2020 🖸