



Load feeder fuseless, Reversing duty 400 V AC, Size S00 10.0...16.0 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 DIN-rail or screw mounting
product type designation	3RA22
manufacturer's article number	
<ul style="list-style-type: none"> • of the supplied contactor • of the supplied circuit-breakers • of the supplied link module • of the supplied wiring kit 	3RT2018-1AP02 3RV2011-4AA10 3RA1921-1DA00 3RA2913-2AA1
General technical data	
size of the circuit-breaker	S00
size of load feeder	S00
power loss [W] for rated value of the current	
<ul style="list-style-type: none"> • at AC in hot operating state per pole • without load current share typical 	4.1 W 5.7 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 coordination	1
reference code according to IEC 81346-2:2019	Q
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1
Weight	0.898 kg
Ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport 	-20 ... +60 °C -50 ... +80 °C -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	10 ... 16 A
operating voltage	
<ul style="list-style-type: none"> • rated value • at AC-3 rated value maximum 	690 V 690 V

<ul style="list-style-type: none"> at AC-3e rated value maximum 	690 V
operating frequency rated value	50 ... 60 Hz
operational current	
<ul style="list-style-type: none"> at AC-3 at 400 V rated value 	16 A
<ul style="list-style-type: none"> at AC-3e at 400 V rated value 	16 A
operating power	
<ul style="list-style-type: none"> at AC-3 <ul style="list-style-type: none"> at 400 V rated value 	7 500 W
<ul style="list-style-type: none"> at AC-3e <ul style="list-style-type: none"> at 400 V rated value 	7 500 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
<ul style="list-style-type: none"> at 50 Hz rated value 	230 V
<ul style="list-style-type: none"> at 60 Hz rated value 	230 V
apparent holding power of magnet coil at AC	5.7 VA
<ul style="list-style-type: none"> at 50 Hz 	5.7 VA
<ul style="list-style-type: none"> at 60 Hz 	4.4 VA
inductive power factor with the holding power of the coil	0.25
<ul style="list-style-type: none"> at 50 Hz 	0.25
<ul style="list-style-type: none"> at 60 Hz 	0.25
Auxiliary circuit	
product extension auxiliary switch	Yes
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
response value current of instantaneous short-circuit trip unit	208 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul style="list-style-type: none"> at 480 V rated value 	14 A
<ul style="list-style-type: none"> at 600 V rated value 	11 A
yielded mechanical performance [hp]	
<ul style="list-style-type: none"> for single-phase AC motor <ul style="list-style-type: none"> at 110/120 V rated value 	1 hp
<ul style="list-style-type: none"> for single-phase AC motor <ul style="list-style-type: none"> at 230 V rated value 	2 hp
<ul style="list-style-type: none"> for 3-phase AC motor <ul style="list-style-type: none"> at 200/208 V rated value 	3 hp
<ul style="list-style-type: none"> for 3-phase AC motor <ul style="list-style-type: none"> at 220/230 V rated value 	5 hp
<ul style="list-style-type: none"> for 3-phase AC motor <ul style="list-style-type: none"> at 460/480 V rated value 	10 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (I_q)	
<ul style="list-style-type: none"> at 400 V according 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 DIN rail
height	170 mm
width	90 mm
depth	97 mm
required spacing	
<ul style="list-style-type: none"> for grounded parts <ul style="list-style-type: none"> forwards 	32 mm
<ul style="list-style-type: none"> for grounded parts <ul style="list-style-type: none"> backwards 	0 mm
<ul style="list-style-type: none"> for grounded parts <ul style="list-style-type: none"> upwards 	50 mm
<ul style="list-style-type: none"> for grounded parts <ul style="list-style-type: none"> at the side 	10 mm
<ul style="list-style-type: none"> for grounded parts <ul style="list-style-type: none"> downwards 	10 mm
<ul style="list-style-type: none"> for live parts <ul style="list-style-type: none"> forwards 	32 mm
<ul style="list-style-type: none"> for live parts <ul style="list-style-type: none"> 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
• for auxiliary and control circuit	screw-type terminals

Safety related data

product function suitable for safety function	Yes
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Electrical Safety

touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
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Communication/ Protocol

protocol is supported	
• PROFINET IO protocol	No
• PROFIsafe protocol	No
protocol is supported AS-Interface protocol	No

Approvals Certificates

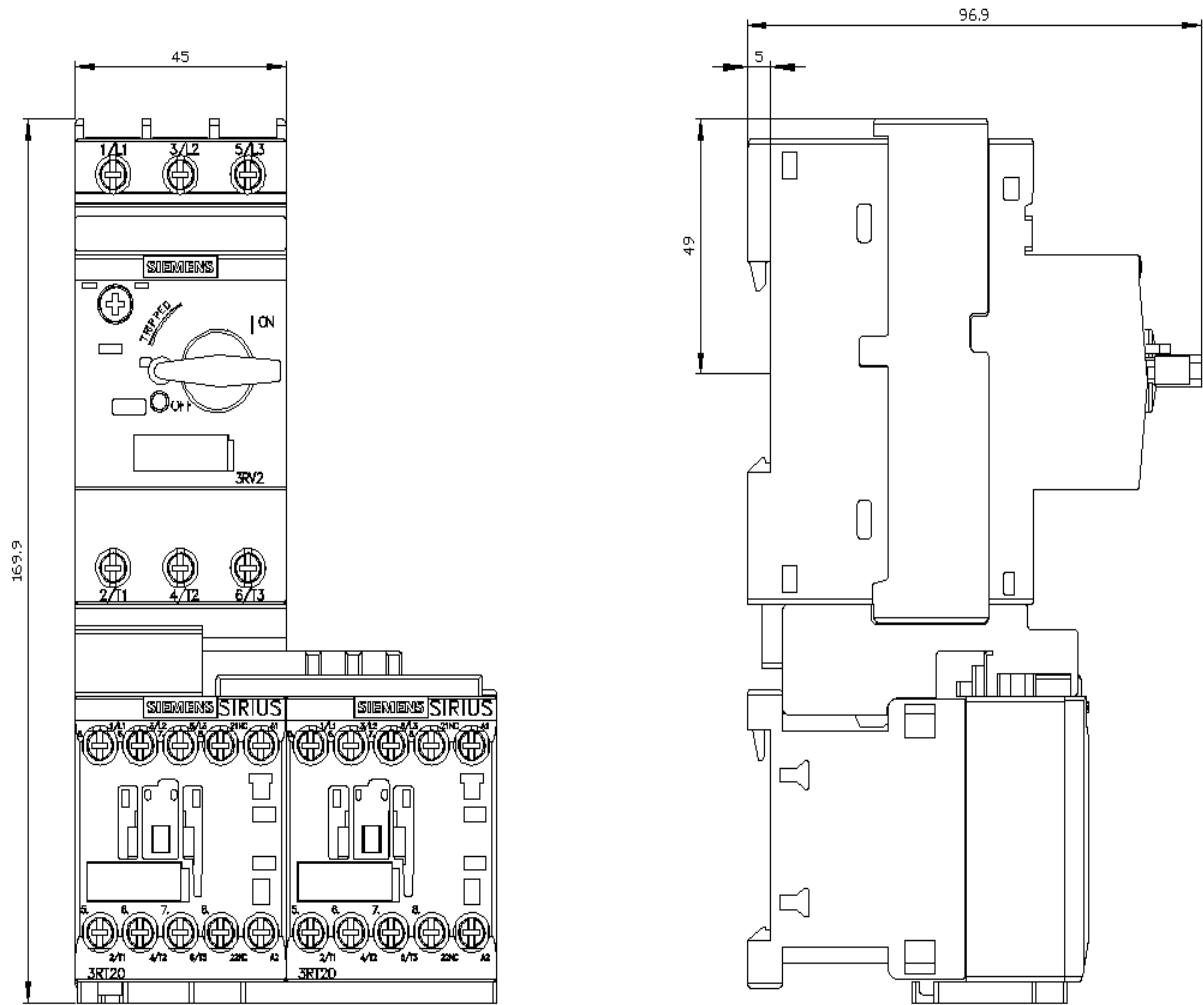
General Product Approval	For use in hazardous locations	Test Certificates
 EG-Konf.		 UL
	 ATEX	Special Test Certificate

Test Certificates	Maritime application
Type Test Certificates/Test Report	 ABS  BUREAU VERITAS  DNV  LRS  PRS

Maritime application	other	Railway	Environment
 RINA  RMRS  产品合格 QC PASS	Confirmation	Special Test Certificate	Environmental Confirmations

Further information

Information on the packaging
<https://support.industry.siemens.com/cs/ww/en/view/109813875>
Information for data generation and storage
<https://support.industry.siemens.com/cs/ww/en/view/109995012>
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=3RA2210-4AA18-2AP0>
Cax online generator
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2210-4AA18-2AP0>
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-4AA18-2AP0>
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2210-4AA18-2AP0&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
<https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-4AA18-2AP0/char>
Further characteristics (e.g. electrical endurance, switching frequency)
<https://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2210-4AA18-2AP0&objecttype=14&gridview=view1>







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