SIEMENS

Data sheet

3RA2220-1FB24-0AP0

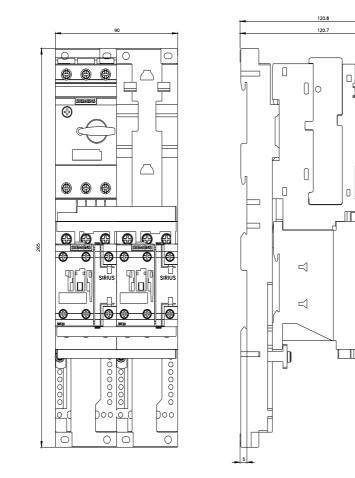


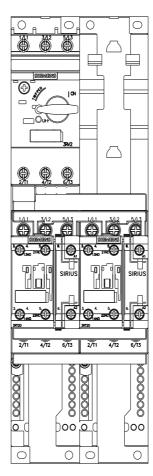
Load feeder fuseless, Reversing duty 400 V AC, Size S0 3.50...5.00 A 230 V AC screw terminal for installation on standard mounting rail with standard mounting rail adapter (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO+1 NC (contactor)

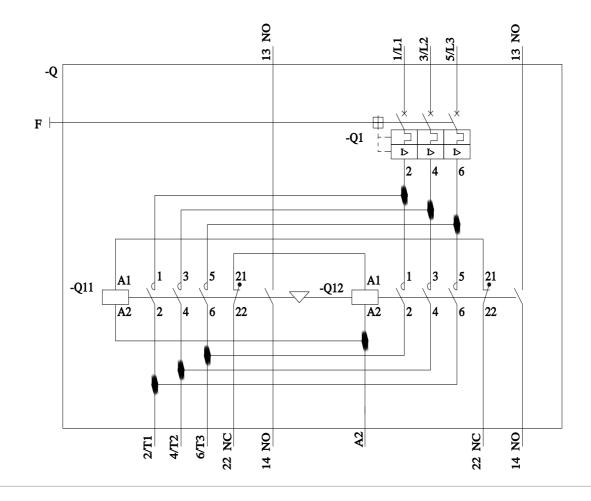
product brand name	SIRIUS
product designation	Reversing starter
design of the product	for standard rail or screw mounting
product type designation	3RA22
manufacturer's article number	
 of the supplied contactor 	<u>3RT2024-1AP00</u>
 of the supplied circuit-breakers 	<u>3RV2011-1FA10</u>
 of the supplied RH assembly kit 	<u>3RA2923-1BB1</u>
 of the supplied link module 	<u>3RA2921-1AA00</u>
 of the supplied standard mounting rail adapter 	<u>3RA2922-1AA00</u>
General technical data	
size of the circuit-breaker	S00
size of load feeder	SO
power loss [W] for rated value of the current	
 at AC in hot operating state per pole 	2.7 W
 without load current share typical 	7.6 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	10 000 000
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
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	3.5 5 A
operating voltage	
 rated value 	690 V

 at AC-3 rated value maximum 	690 V		
at AC-3e rated value maximum	690 V		
operating frequency rated value	50 60 Hz		
operational current			
• at AC-3 at 400 V rated value	5 A		
• at AC-3e at 400 V rated value	5 A		
operating power			
• at AC-3			
— at 400 V rated value	1 500 W		
• at AC-3e			
— at 400 V rated value	1 500 kW		
Control circuit/ Control			
type of voltage of the control supply voltage	AC		
control supply voltage at AC			
 at 50 Hz rated value 	230 V		
 at 50 Hz rated value 	230 230 V		
apparent holding power of magnet coil at AC	7.6 VA		
• at 50 Hz	7.6 VA		
inductive power factor with the holding power of the coil	0.25		
• at 50 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	65 A		
UL/CSA ratings			
full-load current (FLA) for 3-phase AC motor			
at 480 V rated value	5 A		
at 600 V rated value	5 A		
yielded mechanical performance [hp]			
 for single-phase AC motor 			
— at 110/120 V rated value	0.25 hp		
— at 230 V rated value	0.5 hp		
• for 3-phase AC motor			
— at 200/208 V rated value	1.5 hp		
— at 220/230 V rated value	1.5 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	Yes		
design of the short-circuit trip	magnetic		
accign of the short-oneur trip	Indenotio		
conditional short-circuit current (Ig)			
 conditional short-circuit current (Iq) at 400 V according to IEC 60947-4-1 rated value 			
• at 400 V according to IEC 60947-4-1 rated value	150 000 A		
at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions	150 000 A		
at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position	150 000 A vertical		
at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method	150 000 A vertical On adapter for screw and snap-on mounting on 35 mm DIN rail		
t 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height	150 000 A vertical On adapter for screw and snap-on mounting on 35 mm DIN rail 265 mm		
at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width	150 000 A vertical On adapter for screw and snap-on mounting on 35 mm DIN rail 265 mm 90 mm		
text at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth	150 000 A vertical On adapter for screw and snap-on mounting on 35 mm DIN rail 265 mm		
tat 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	150 000 A vertical On adapter for screw and snap-on mounting on 35 mm DIN rail 265 mm 90 mm		
the at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing for grounded parts	150 000 A vertical On adapter for screw and snap-on mounting on 35 mm DIN rail 265 mm 90 mm 120 mm		
tat 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing for grounded parts — forwards	150 000 A vertical On adapter for screw and snap-on mounting on 35 mm DIN rail 265 mm 90 mm 120 mm 32 mm		
the at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing for grounded parts — forwards — backwards	150 000 A vertical On adapter for screw and snap-on mounting on 35 mm DIN rail 265 mm 90 mm 120 mm 32 mm 0 mm		
term 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing for grounded parts — forwards — backwards — upwards	150 000 A vertical On adapter for screw and snap-on mounting on 35 mm DIN rail 265 mm 90 mm 120 mm 32 mm 0 mm 50 mm		
term 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing for grounded parts — forwards — backwards — upwards — at the side	150 000 A vertical On adapter for screw and snap-on mounting on 35 mm DIN rail 265 mm 90 mm 120 mm 32 mm 0 mm 50 mm 10 mm		
the side at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing for grounded parts forwards backwards upwards at the side downwards 	150 000 A vertical On adapter for screw and snap-on mounting on 35 mm DIN rail 265 mm 90 mm 120 mm 32 mm 0 mm 50 mm		
tat 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts	150 000 A vertical On adapter for screw and snap-on mounting on 35 mm DIN rail 265 mm 90 mm 120 mm 32 mm 0 mm 50 mm 10 mm 10 mm		
the side at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing for grounded parts forwards backwards upwards at the side downwards 	150 000 A vertical On adapter for screw and snap-on mounting on 35 mm DIN rail 265 mm 90 mm 120 mm 32 mm 0 mm 50 mm 10 mm		

- downwards10 mm- at the side10 mmconnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminalsSafety related datascrew-type terminalsB10 value with high demand rate according to SN 319201 000 000proportion of dangerous failures1 000 000• with high demand rate according to SN 3192073 %touch protection on the front according to EC 60529finger-safe, for vertical contact from the frontCommunication/ ProtocolNo• PROFINET IO protocolNo• PROFIsafe protocolNo• PROFIsafe protocolNo• PROFIsafe protocolNo• Protocol AS-Interface protocolNo						
	— upwards					
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