## SIEMENS

## Data sheet

## 3RA2220-1GB24-0AP0

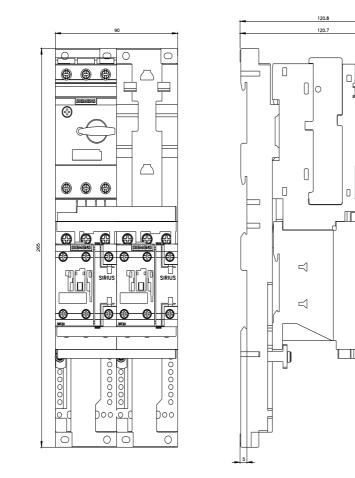


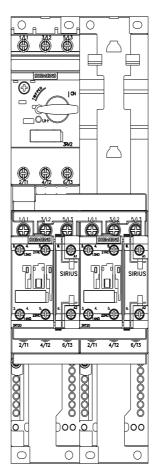
Load feeder fuseless, Reversing duty 400 V AC, Size S0 4.50...6.30 A 230 V AC screw terminal for installation on standard mounting rail with standard mounting rail adapter (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO+1 NC (contactor)

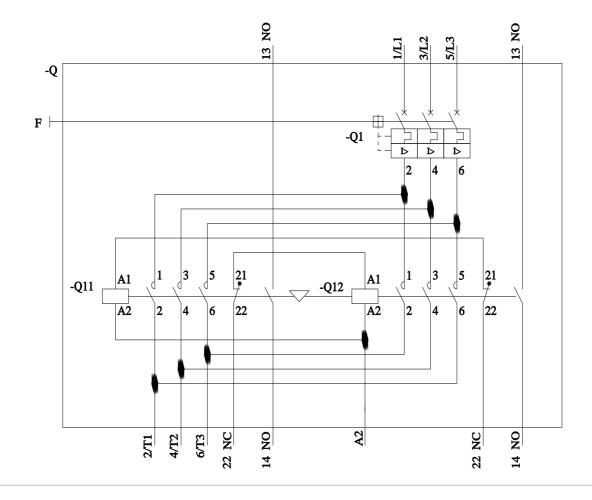
needuct brand name	SIRIUS
product brand name	
product designation	Reversing starter
design of the product	for standard rail or screw mounting
product type designation	3RA22
manufacturer's article number	
<ul> <li>of the supplied contactor</li> </ul>	<u>3RT2024-1AP00</u>
<ul> <li>of the supplied circuit-breakers</li> </ul>	<u>3RV2011-1GA10</u>
<ul> <li>of the supplied RH assembly kit</li> </ul>	<u>3RA2923-1BB1</u>
<ul> <li>of the supplied link module</li> </ul>	<u>3RA2921-1AA00</u>
<ul> <li>of the supplied standard mounting rail adapter</li> </ul>	<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	
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.7 W
<ul> <li>without load current share typical</li> </ul>	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
SVHC substance name	Blei - 7439-92-1
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
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	6.3 A
<ul> <li>at AC-3e at 400 V rated value</li> </ul>	6.3 A
operating power	
• at AC-3	
— at 400 V rated value	2 200 W
• at AC-3e	
— at 400 V rated value	2 200 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	0.25
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	82 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul> <li>at 480 V rated value</li> </ul>	6.3 A
• at 600 V rated value	6.3 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.75 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	2 hp
— at 460/480 V rated value	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)	inginut
	150 000 A
at 400 V according to IEC 60947-4-1 rated value	150 000 A
Installation/ mounting/ dimensions	
mounting position	vertical
fastening method	On adapter for screw and snap-on mounting on 35 mm DIN rail
height	265 mm
width	90 mm
depth	120 mm
required spacing	
<ul> <li>for grounded parts</li> </ul>	
— forwards	32 mm
— backwards	0 mm
— upwards	50 mm
— at the side	10 mm
— downwards	10 mm
<ul> <li>for live parts</li> </ul>	
<ul> <li>for live parts</li> <li>forwards</li> </ul>	32 mm

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			0 mm				
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Contractions       For instance         Vps of electrical connection       screw-type terminals         • or an action of actual       screw-type terminals         Bit value with high demand rate according to SN 1920       1 000 000         proportion of degressure failures       impact according to SN 1920         • with high demand rate according to SN 1920       73 %         foruch protection on the front according to SN 1920       73 %         foruch protection on the front according to SN 1920       73 %         protocol is supported       inger-safe, for vertical contact from the front         @remuncation Protocol       No         •PROFilest protocol       No         •Protocol is supported       Second Test Confic-         general Product Approval       Event         Confirmation       Second Test Confic-         general Product Approval       Event         Second Test Confic-       Insert Shipping         Second Test Confic-       Insert Shipping							
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Statesy related data       1000 000         Proportion of langerous failures       1000 000         • with high demand rate according to SN 31920       73 %         Touch protection of the foral according to EC 60529       Imger-safe, for vertical contact from the front         Communication/Protocol       No         • PROFINET (0 protocol       No         • Continuation       Image: Safe for vertical contact from the front         Continuation       Image: Safe for vertical contact from the front         Continuation       Image: Safe for vertical contact from the front         Continuation       Image: Safe for vertical contact from the form         Continuation       Image: Safe for vertical contact for motion         Special Tost Certificates       Marine / Shipping         Special Tost Certificates       Image: Safe for vertical contact form         Marine / Shipping       Image: Safe for vertical contact form         Special Tost Certificates       Image: Safe for vertical contact form         Special Tost Certificates       Image: Safe for vertical contact form         Special Tost Certificates       Image: Safe for vertical contact form         Special Tost Certificate							
B10 value with high demand rate according to SN 31920       1 000 000         propriotion of dangerous failures       70 %         such high demand rate according to SN 31920       70 %         touch protection on the front according to SN 31920       70 %         for value with high demand rate according to SN 31920       70 %         protocol is supported       No         Protocol is supported       No         protocol is supported       No         protocol is supported       No         continuation for protocol       No         continuation       Operation of the front according to SN 31920       No         continuation       No       No         protocol is supported       No       Declaration of Conformity         continuation       Operation of the front according to SN 31920       No         Confirmation       Operation of Conformity       Operation of Conformity         Secial Treat Certificates       Marine / Shipping       Operation of Conformity         Secial Treat Certificates       Inscription of Conformity       Operation of Conformity         Secial Treat Certificates       Marine / Shipping       Confirmation         Value of Confirmation       Inscription of Conformity       Operation of Conformity         Secial Treat Certificates<		SC	screw-type terminals				
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