SIEMENS

Data sheet

3RA2120-1HD24-0AP0



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S0 5.50...8.00 A 230 V AC screw terminal for 60 mm busbar systems (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO+1 NC (contactor)

product brand name	SIRIUS
product designation	Direct (on-line) starter
design of the product	for 60 mm busbars
product type designation	3RA21
manufacturer's article number	
 of the supplied contactor 	<u>3RT2024-1AP00</u>
 of the supplied circuit-breakers 	<u>3RV2011-1HA10</u>
 of the supplied busbar adapter 	<u>8US1251-5NT10</u>
 of the supplied link module 	<u>3RA2921-1AA00</u>
General technical data	
size of the circuit-breaker	S00
size of load feeder	SO
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 (switching 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
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	5.5 8 A
operating voltage	
 rated value 	690 V
 at AC-3 rated value maximum 	690 V

operating frequency rated value	50 60 Hz
operating frequency rated value operational current at AC-3 at 400 V rated value	6.5 A
operating power at AC-3	0.5 A
at 400 V rated value	3 000 W
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	8.5 VA
Auxiliary circuit	
product extension auxiliary switch	Yes
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	8 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— 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)	
 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	45 mm 155 mm
depth required spacing	155 mm
for grounded parts	
— forwards	20 mm
— backwards	20 mm 0 mm
— backwards — upwards	
— backwards — upwards — at the side	0 mm
— upwards	0 mm 50 mm
— upwards — at the side	0 mm 50 mm 20 mm
 upwards at the side downwards 	0 mm 50 mm 20 mm
 upwards at the side downwards for live parts 	0 mm 50 mm 20 mm 10 mm
 upwards at the side downwards for live parts forwards backwards upwards 	0 mm 50 mm 20 mm 10 mm 20 mm 0 mm 50 mm
 upwards at the side downwards for live parts forwards backwards upwards downwards 	0 mm 50 mm 20 mm 10 mm 20 mm 50 mm 50 mm
 upwards at the side downwards for live parts forwards backwards upwards downwards at the side 	0 mm 50 mm 20 mm 10 mm 20 mm 0 mm 50 mm
 upwards at the side downwards for live parts forwards backwards upwards downwards at the side Connections/ Terminals	0 mm 50 mm 20 mm 10 mm 20 mm 50 mm 50 mm
 upwards at the side downwards for live parts forwards backwards upwards downwards at the side Connections/ Terminals type of electrical connection	0 mm 50 mm 20 mm 10 mm 20 mm 50 mm 50 mm 20 mm
 upwards at the side downwards for live parts forwards backwards backwards upwards downwards at the side Connections/ Terminals type of electrical connection for main current circuit 	0 mm 50 mm 20 mm 10 mm 20 mm 0 mm 50 mm 10 mm 20 mm
 upwards at the side downwards for live parts forwards backwards backwards upwards downwards at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit 	0 mm 50 mm 20 mm 10 mm 20 mm 50 mm 50 mm 20 mm
 upwards at the side downwards for live parts forwards backwards backwards upwards downwards at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit Safety related data	0 mm 50 mm 20 mm 10 mm 20 mm 0 mm 50 mm 10 mm 20 mm 20 mm 20 mm
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