SIEMENS

Data sheet

3RA2120-4BA27-0BB4



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S0 13...20 A 24 V DC screw terminal for installation on standard mounting rail (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 standard rail or screw mounting
product type designation	3RA21
manufacturer's article number	
 of the supplied contactor 	<u>3RT2027-1BB40</u>
 of the supplied circuit-breakers 	<u>3RV2021-4BA10</u>
 of the supplied link module 	<u>3RA2921-1BA00</u>
General technical data	
size of the circuit-breaker	SO
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	13 20 A
operating voltage	
rated value	690 V
 at AC-3 rated value maximum 	690 V
operating frequency rated value	50 60 Hz

protocol is supported AS-Interface protocol Certificates/ approvals General Product Approval	No	For use in hazard- ous locations	Declaration of Conformity
	NO		
protocol is supported AS-Interface protocol	NO		
	NI-		
PROFIsafe protocol	No		
PROFINET IO protocol	No		
protocol is supported			
Communication/ Protocol			
touch protection on the front according to IEC 60529	finger-safe, for vertical conta	ict from the front	
• with high demand rate according to SN 31920	73 %		
proportion of dangerous failures			
B10 value with high demand rate according to SN 31920	1 000 000		
Safety related data			
 for auxiliary and control circuit 	screw-type terminals		
• for main current circuit	screw-type terminals		
type of electrical connection			
Connections/ Terminals			
— at the side	20 mm		
— downwards	10 mm		
— upwards	50 mm		
— backwards	0 mm		
— forwards	20 mm		
for live parts			
— downwards	10 mm		
— at the side	20 mm		
— upwards	50 mm		
— backwards	0 mm		
— forwards	20 mm		
for grounded parts			
required spacing			
depth	107 mm		
width	45 mm		
height	193 mm		
fastening method	screw and snap-on mounting	g onto 35 mm standard	mounting rail
mounting position	vertical		
Installation/ mounting/ dimensions			
• at 400 V according to IEC 60947-4-1 rated value	150 000 A		
conditional short-circuit current (Iq)			
design of the short-circuit trip	magnetic		
product function short circuit protection	Yes		
Short-circuit protection			
design of the overload release	thermal (bimetallic)		
trip class	CLASS 10		
Protective and monitoring functions			
product extension auxiliary switch	Yes		
Auxiliary circuit			
holding power of magnet coil at DC	5.9 W		
 rated value 	24 24 V		
rated value	24 V		
control supply voltage at DC			
type of voltage of the control supply voltage	DC		
Control circuit/ Control			
at 400 V rated value	7 500 W		
operating power at AC-3	10.071		
operational current at AC-3 at 400 V rated value	15.5 A		

SP M	<u>Confirmation</u>	(UL)	EHC	KEX ATEX	UK CA
Declaration of Conformity	Test Certificates		Marine / Shipping		
C C EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS	BUREAU VERITAS	Lloyd's Register uis
Marine / Shipping				other	Railway
PRS	RINA	RMRS	DNV-GL	<u>Confirmation</u>	<u>Vibration and Shock</u>
Dangerous Good					
Transport Informa- tion					
Further information	ownloadcenter (Catalo	as Brochures)			
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