SIEMENS

Data sheet

3RA2220-1JD24-0AP6



Fuseless motor starter Reversing operation 600VAC Size S0 7-10A 220/240VAC 50/60HZ screw connection For snapping onto 60 mm busbar systems Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO+1NC (per contactor)

product brand name	SIRIUS
product designation	non-fused motor starter 3RA2
design of the product	reversing starter
manufacturer's article number	
of the supplied contactor	3RT2024-1AP60
 of the supplied circuit-breakers 	3RV2011-1JA10
 of the supplied RS assembly kit 	<u>3RA2923-1DB1</u>
 of the supplied busbar adapter 	8US1251-5NT10
 of the supplied link module 	3RA2921-1AA00
General technical data	
size of the circuit-breaker	S00
size of load feeder	S0
product extension auxiliary switch	Yes
insulation voltage with degree of pollution 3 at AC rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	6g / 11 ms
mechanical service life (switching cycles) of contactor	10 000 000
typical	
type of assignment	2
Substance Prohibitance (Date)	03/01/2017
Ambient conditions	
ambient temperature	
 during operation 	-20 +60 °C
 during storage 	-50 +80 °C
 during transport 	-55 +80 °C
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	7 10 A
operating voltage	
rated value	690 V
 at AC-3 rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current at AC-3 at 400 V rated value	8.5 A
operating power at AC-3	
at 400 V rated value	4 000 W
• at 500 V rated value	5 500 W

Control circuit/ Control	
control supply voltage at AC	
• at 50 Hz rated value	220 V
at 50 Hz rated value	176 242 V
• at 60 Hz rated value	240 V
• at 60 Hz rated value	192 264 V
apparent holding power of magnet coil at AC	7.2 VA
inductive power factor with the holding power of the	0.28
coil	
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
number of NO contacts for auxiliary contacts	2
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
response value current of instantaneous short-circuit trip	130 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	7.02.4
at 480 V rated value	7.92 A
at 600 V rated value	9.19 A
yielded mechanical performance [hp]	
 for single-phase AC motor — at 110/120 V rated value 	0.5 hp
— at 230 V rated value	
for 3-phase AC motor	1.5 hp
- at 200/208 V rated value	2 hp
— at 220/200 V rated value	3 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	7.5 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (Iq)	inagilous
 at 400 V according to IEC 60947-4-1 rated value 	153 000 A
Installation/ mounting/ dimensions	
mounting position	vertical
fastening method	for snapping onto 60 mm busbar systems
height	260 mm
width	90 mm
depth	155 mm
required spacing	
 for grounded parts 	
— forwards	10 mm
— backwards	0 mm
— upwards	30 mm
— at the side	9 mm
— downwards	10 mm
 for live parts 	
— forwards	10 mm
— backwards	0 mm
— upwards	30 mm
— downwards	10 mm
— at the side	9 mm
Connections/ Terminals	
type of electrical connection for main current circuit	screw-type terminals
type of connectable conductor cross-sections	
for main contacts stranded	1 10 mm ² , 2x (2.5 6 mm ²)
at AWG cables for main contacts connectable conductor cross-section for main contacts	2x (16 12), 2x (14 8)
	1 6 mm ²

finely stranded with	core end processing						
Safety related data							
	demand rate according to	SN 31920	1 000 000				
B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate according to SN 31920			73 %				
protection class IP on the front according to IEC 60529			IP20				
touch protection on the front according to IEC 60529			finger-safe, for vertical contact from the front				
Certificates/ approva	als						
General Product Approval				For use in hazard- ous locations	Declaration of Conformity		
SP CSA	<u>Confirmation</u>	(UL) u	EHC	K ATEX	UK CA		
Declaration of Conformity	Test Certificates		Marine / Shipping				
CE EG-Konf.	<u>Type Test Certific-</u>	Special Test Cert ate	tific- ABS	BUREAU VERITAS	Hoyd's Register uis		
Marine / Shipping				other	Railway		
PRS	RINA	KARS RARS	DNVs.COMP	<u>Confirmation</u>	Vibration and Shock		
Further information							
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