SIEMENS

Data sheet

3RA2120-1HD24-0AP6



Fuseless motor starter Direct start 600VAC Size S0 5.5-8Amp 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 (contactor)

product brand name					
	SIRIUS				
product designation	non-fused motor starter 3RA2 direct starter				
design of the product manufacturer's article number					
of the supplied contactor	2072024 14060				
	<u>3RT2024-1AP60</u> 2PV2011 1H410				
of the supplied circuit-breakers	<u>3RV2011-1HA10</u>				
of the supplied busbar adapter	8US1251-5NT10				
of the supplied link module	<u>3RA2921-1AA00</u>				
General technical data					
size of the circuit-breaker	S00				
size of load feeder	SO				
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 typical	10 000 000				
type of assignment	2				
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	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				
operational current at AC-3 at 400 V rated value	6.5 A				
operating power at AC-3					
• at 400 V rated value	3 000 W				
• at 500 V rated value	4 000 W				
Control circuit/ Control					
control supply voltage at AC					

• at 50 Hz rated value	220 \/				
at 50 Hz rated value at 50 Hz rated value	220 V				
at 50 Hz rated value at 60 Hz rated value	176 242 V 240 V				
at 60 Hz rated value	240 V 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	0.20				
Auxiliary circuit					
number of NC contacts for auxiliary contacts	1				
number of NO contacts for auxiliary contacts	1				
Protective and monitoring functions					
trip class	CLASS 10				
design of the overload release	thermal (bimetallic)				
response value current of instantaneous short-circuit trip unit	104 A				
UL/CSA ratings					
full-load current (FLA) for 3-phase AC motor					
• at 480 V rated value	7.92 A				
• at 600 V rated value	6.33 A				
yielded mechanical performance [hp]					
 for single-phase AC motor 					
— at 110/120 V rated value	0.33 hp				
— at 230 V rated value	1 hp				
• for 3-phase AC motor					
— 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	Voo				
product function short circuit protection design of the short-circuit trip	Yes magnetic				
conditional short-circuit current (lq)	magnetic				
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	45 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	1 10 mm², 2x (2.5 6 mm²) 2x (16 12), 2x (14 8)				
• at AWG cables for main contacts	2x (10 12), 2x (14 0) 1 6 mm ²				
finely stranded with core end processing					
Safety related data					

B10 value with high demand rate according to SN 31920		1 000 000					
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	finger-safe, for vertical contact from the front			
ertificates/ approva	ls						
General Product Approval					For use in hazard- ous locations	Declaration of Conformity	
SP SM	<u>Confirmation</u>	(UL) ut		EHC	K ATEX	CE EG-Konf.	
Declaration of Conformity	Test Certificates			Marine / Shipping			
UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Ce</u> <u>ates/Test Re</u>		ABS	BUREAU VERITAS	Lloyd's Register uts	
Marine / Shipping					other	Railway	
PRS	RINA	KMRS RMRS		DNV-GL	<u>Confirmation</u>	Vibration and Shoc	
urther information Information- and Do	ownloadcenter (Catalog	ıs, Brochures,.)				

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2120-1HD24-0AP6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-1HD24-0AP6

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1HD24-0AP6

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

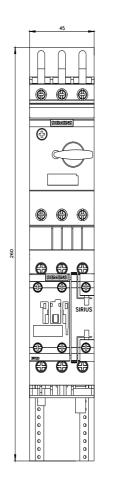
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-1HD24-0AP6&lang=en

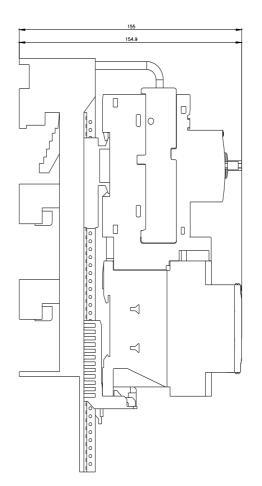
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1HD24-0AP6/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-1HD24-0AP6&objecttype=14&gridview=view1





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