SIEMENS

Data sheet

3RA2125-4CD27-0AK6

	FUSELESS MOTOR STARTER DIRECT START 600V AC SZ S0 17-22A 110/120V AC 50/60HZ SCREW CONNECTION FOR SNAPPING ONTO 60 MM
	BUSBAR SYSTEMS TYPE OF COORDINATION 2 IQ = 50 KA ALSO FULFILLS TYPE OF COORDINATION 1 1NO+1NC (MSP) 1NO+1NC (CONTACTOR)
and dist brand name	SIRIUS
product brand name	
product designation design of the product	non-fused motor starter 3RA2
	direct starter
manufacturer's article number	2DT2027 4AVC0
of the supplied contactor	3RT2027-1AK60
of the supplied circuit-breakers	3RV2021-4CA15
of the supplied busbar adapter	8US1251-5NT10
of the supplied link module	3RA2921-1AA00
General technical data	00
size of the circuit-breaker	S0
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 (operating cycles) of contactor typical	10 000 000
type of assignment	2
Weight	1.06 kg
Ambient conditions	
ambient temperature	00
during operation	-20 +60 °C
during storage	-50 +80 °C
during transport Main circuit	-55 +80 °C
number of poles for main current circuit	3
design of the switching contact	electromechanical 17 22 A
adjustable current response value current of the current- dependent overload release	17 22 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	22 A
operating power at AC-3	
• at 400 V rated value	11 000 W
• at 500 V rated value	11 000 W
Control circuit/ Control	
control supply voltage at AC	
• at 50 Hz rated value	110 V
• at 50 Hz rated value	88 121 V
• at 60 Hz rated value	120 V
• at 60 Hz rated value	96 132 V
apparent holding power of magnet coil at AC	9.4 VA
inductive power factor with the holding power of the coil	0.28
Auxiliary circuit	
number of NC contacts for auxiliary contacts	
	2
number of NO contacts for auxiliary contacts	2 2
number of NO contacts for auxiliary contacts Protective and monitoring functions	

General Product Approval		ous locations	Test Certificates
		For use in hazard-	Toot Contification
Approvals Certificates			
touch protection on the front according to IEC 60529	finger-safe, for vertical contact	from the front	
protection class IP on the front according to IEC 60529	IP20		
Electrical Safety			
B10 value with high demand rate according to SN 31920	1 000 000	1,000,000	
proportion of dangerous failures with high demand rate according to SN 31920	73 %	73 %	
Safety related data			
connectable conductor cross-section for main contacts finely stranded with core end processing	1 6 mm²		
stranded			
type of connectable conductor cross-sections for main contacts	1 10 mm², 2x (2.5 6 mm²)		
type of electrical connection for main current circuit	screw-type terminals		
Connections/ Terminals	V IIIIII		
— at the side	9 mm		
— downwards	10 mm		
— upwards	30 mm		
— backwards	0 mm		
— forwards	10 mm		
for live parts	10 111111		
— at the side — downwards	9 mm 10 mm		
— upwards	30 mm		
— backwards	0 mm		
— forwards	10 mm		
for grounded parts	40		
required spacing			
depth	155 mm		
width	45 mm		
height	260 mm		
fastening method	for snapping onto 60 mm busb	ar systems	
mounting position	vertical	au au atam -	
Installation/ mounting/ dimensions			
at 500 V according to IEC 60947-4-1 rated value Installation/mounting/dimensions	100 000 A		
-			
at 400 V according to IEC 60947-4-1 rated value	153 000 A		
conditional short-circuit current (Iq)	magnetic		
design of the short-circuit trip	magnetic		
product function short circuit protection	Yes		
Short-circuit protection	20 110		
— at 450/450 V rated value — at 575/600 V rated value	15 hp 20 hp		
— at 460/480 V rated value	·		
— at 200/208 V rated value — at 220/230 V rated value	5 hp 7.5 hp		
• for 3-phase AC motor	E has		
— at 230 V rated value	3 hp		
— at 110/120 V rated value	1.5 hp		
for single-phase AC motor	4-1		
yielded mechanical performance [hp]			
at 600 V rated value	21.9 A		
at 480 V rated value	22 A		
full-load current (FLA) for 3-phase AC motor			
UL/CSA ratings			
response value current of instantaneous short-circuit trip unit	286 A		
	thermal (bimetallic)		











Special Test Certificate

Test Certificates

Marine / Shipping

Type Test Certificates/Test Report











Marine / Shipping

other

Railway

Environment





Confirmation

Special Test Certificate Environmental Confirmations

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2125-4CD27-0AK6

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2125-4CD27-0AK6}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2125-4CD27-0AK6

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2125-4CD27-0AK6&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2125-4CD27-0AK6/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2125-4CD27-0AK6&objecttype=14&gridview=view1

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