## **SIEMENS**

## Data sheet 3RA2225-4EB27-0AK6

	FUSELESS MOTOR STARTER REVERSING OPERATION 600V AC SZ S0 27-32A 110/120V AC 50/60HZ SCREW CONNECTION FOR 35 MM RAIL-MOUNTING TYPE OF COORDINATION 2 IQ = 150 KA ALSO FULFILLS TYPE OF COORDINATION 1 1NO+1NC (MSP) 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	3RT2027-1AK60
of the supplied circuit-breakers	3RV2021-4EA15
of the supplied RH assembly kit	3RA2923-1BB1
of the supplied busbar adapter	3RA2922-1AA00
of the supplied link module	3RA2921-1AA00
of the supplied standard mounting rail adapter	3RA2922-1AA00
General technical data	<u>5.0 a522 1.5 (5)</u>
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
Substance Prohibitance (Date)	03/01/2017
Ambient conditions	30/01/2017
ambient temperature	
•	-20 +60 °C
during operation     during storage	-50 +80 °C
<ul><li>during storage</li><li>during transport</li></ul>	-55 +80 °C
Main circuit	-55 +60 C
	3
number of poles for main current circuit	electromechanical
design of the switching contact adjustable current response value current of the current-	27 32 A
dependent overload release	21 32 A
operating voltage	
rated value	690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current at AC-3 at 400 V rated value	29 A
operating power at AC-3	
• at 400 V rated value	15 000 W
• at 500 V rated value	18 500 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	3
number of NO contacts for auxiliary contacts	3

Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
response value current of instantaneous short-circuit trip unit	416 A
L/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	27 A
• at 600 V rated value	27 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 230 V rated value	5 hp
• for 3-phase AC motor	
— at 200/208 V rated value	10 hp
<ul> <li>at 220/230 V rated value</li> </ul>	10 hp
— at 460/480 V rated value	20 hp
— at 575/600 V rated value	25 hp
hort-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (Iq)	
<ul> <li>at 400 V according to IEC 60947-4-1 rated value</li> </ul>	153 000 A
• at 500 V according to IEC 60947-4-1 rated value	100 000 A
nstallation/ mounting/ dimensions	
mounting position	vertical
fastening method	snap-on fastening on 35 mm DIN rail
height	265 mm
width	90 mm
depth	120 mm
required spacing	
<ul> <li>for grounded parts</li> </ul>	
— 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
onnections/ Terminals	
type of electrical connection for main current circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts stranded	1 10 mm², 2x (2.5 6 mm²)
connectable conductor cross-section for main contacts finely stranded with core end processing	1 6 mm²
afety 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-safe, for vertical contact from the front
ertificates/ approvals	
General Product Approval	For use in hazard- ous locations Declaration of Conformity

Confirmation











**Test Certificates** 

Marine / Shipping

Type Test Certificates/Test Report

**Special Test Certific**ate









Marine / Shipping

other

Railway







Confirmation

Vibration and Shock

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens/ ens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

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

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2225-4EB27-0AK6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2225-4EB27-0AK6

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

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2225-4EB27-0AK6&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2225-4EB27-0AK6/char

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

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