## SIEMENS

## Data sheet

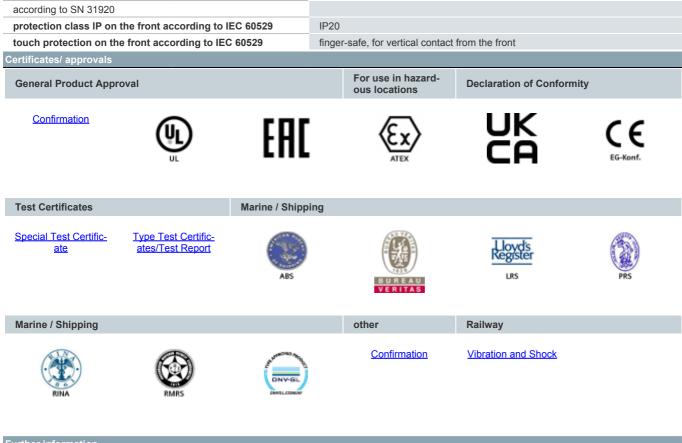
## 3RA2220-4DB27-0AP6



Fuseless motor starter Reversing operation 600VAC Size S0 20-25A 220/240VAC 50/60HZ screw connection For 35 mm rail-mounting 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	
<ul> <li>of the supplied contactor</li> </ul>	<u>3RT2027-1AP60</u>
<ul> <li>of the supplied circuit-breakers</li> </ul>	<u>3RV2021-4DA10</u>
<ul> <li>of the supplied RH assembly kit</li> </ul>	<u>3RA2923-1BB1</u>
<ul> <li>of the supplied busbar adapter</li> </ul>	<u>3RA2922-1AA00</u>
<ul> <li>of the supplied link module</li> </ul>	<u>3RA2921-1AA00</u>
<ul> <li>of the supplied standard mounting rail adapter</li> </ul>	<u>3RA2922-1AA00</u>
General technical data	
size of the circuit-breaker	SO
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 (operating cycles) of contactor typical	10 000 000
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	20 25 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	22 A
operating power at AC-3	
• at 400 V rated value	11 000 W
• at 500 V rated value	15 000 W
Control circuit/ Control	

control supply voltage at AC	
at 50 Hz rated value	220 V
• at 50 Hz rated value	176 242 V
<ul> <li>at 60 Hz rated value</li> </ul>	240 V
at 60 Hz rated value	192 264 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
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
response value current of instantaneous short-circuit trip unit	325 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	22.2 A
• at 600 V rated value	21.9 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	2 hp
— at 230 V rated value	3 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	5 hp
— at 220/230 V rated value	7.5 hp
— at 460/480 V rated value	15 hp
— at 575/600 V rated value	20 hp
Short-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
<ul> <li>at 500 V according to IEC 60947-4-1 rated value</li> </ul>	100 000 A
Installation/ 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	
for grounded parts	40
— forwards	10 mm
— backwards	0 mm
— upwards — at the side	30 mm 9 mm
	9 mm 10 mm
- downwards	
<ul> <li>for live parts</li> <li>forwards</li> </ul>	10 mm
— lorwards — backwards	0 mm
— upwards	30 mm
— upwards — 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 mm², 2x (2.5 6 mm²)
connectable conductor cross-section for main contacts finely stranded with core end processing	1 6 mm²
Safety related data	
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures with high demand rate	73 %



## **Further information**

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

https://press.siemens.com/global/en/pressrelease/siemens-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,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2220-4DB27-0AP6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-4DB27-0AP6

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-4DB27-0AP6

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

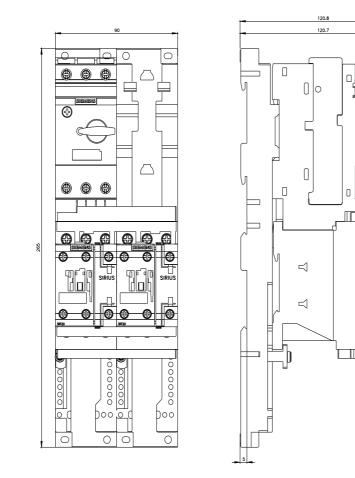
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2220-4DB27-0AP6&lang=en

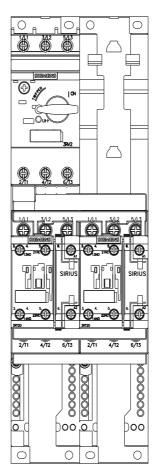
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-4DB27-0AP6/char

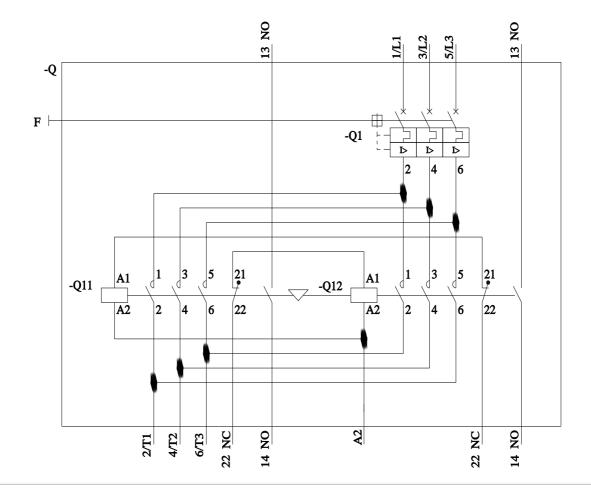
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-4DB27-0AP6&objecttype=14&gridview=view1





7/10/2023



last modified:

11/21/2022 🖸