## SIEMENS

## Data sheet

## 3RA2125-1GD24-0AK6

	Fuseless motor starter Direct start 600VAC Size S0 4.5-6.3A 110/120VAC 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 (MSP) 1NO+1NC (contactor)
product brand name	SIRIUS
product designation	non-fused motor starter 3RA2
design of the product	direct starter
manufacturer's article number	
	2072024 14/60
<ul> <li>of the supplied contactor</li> <li>of the supplied circuit-breakers</li> </ul>	<u>3RT2024-1AK60</u> 2RV2011 1CA15
	<u>3RV2011-1GA15</u>
of the supplied busbar adapter	8US1251-5NT10 3RA2921-1AA00
of the supplied link module General technical data	<u>3RA2921-1AA00</u>
size of the circuit-breaker	\$00
size of load feeder	S00
	Yes
product extension auxiliary switch	690 V
insulation voltage with degree of pollution 3 at AC rated value	3
degree of pollution	3 6 kV
surge voltage resistance rated value	
shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) of contactor typical	6g / 11 ms 10 000 000
	2
type of assignment Ambient conditions	2
ambient temperature	
-	-20 +60 °C
during operation	-50 +80 °C
during storage	-50 +80 °C
during transport Main circuit	-55 +00 C
	3
number of poles for main current circuit design of the switching contact	electromechanical
adjustable current response value current of the current-	4.5 6.3 A
dependent overload release	4.0 0.0 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	50 60 Hz 5 A
operating power at AC-3	5 A
operating power at AC-3 • at 400 V rated value	5 A 2 200 W
operating power at AC-3 • at 400 V rated value • at 500 V rated value	5 A
operating power at AC-3 • at 400 V rated value • at 500 V rated value Control circuit/ Control	5 A 2 200 W
operating power at AC-3 • at 400 V rated value • at 500 V rated value Control circuit/ Control control supply voltage at AC	5 A 2 200 W 3 000 W
operating power at AC-3 • at 400 V rated value • at 500 V rated value Control circuit/ Control control supply voltage at AC • at 50 Hz rated value	5 A 2 200 W 3 000 W 110 V
operating power at AC-3 • at 400 V rated value • at 500 V rated value Control circuit/ Control control supply voltage at AC • at 50 Hz rated value • at 50 Hz rated value	5 A 2 200 W 3 000 W 110 V 88 121 V
operating power at AC-3 • at 400 V rated value • at 500 V rated value Control circuit/ Control control supply voltage at AC • at 50 Hz rated value • at 50 Hz rated value • at 60 Hz rated value	5 A 2 200 W 3 000 W 110 V 88 121 V 120 V
operating power at AC-3 • at 400 V rated value • at 500 V rated value Control circuit/ Control control supply voltage at AC • at 50 Hz rated value • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz rated value	5 A 2 200 W 3 000 W 110 V 88 121 V 120 V 96 132 V
operating power at AC-3 • at 400 V rated value • at 500 V rated value Control circuit/ Control control supply voltage at AC • at 50 Hz rated value • at 50 Hz rated value • at 60 Hz rated value	5 A 2 200 W 3 000 W 110 V 88 121 V 120 V 96 132 V 7.2 VA
operating power at AC-3 • at 400 V rated value • at 500 V rated value Control circuit/ Control control supply voltage at AC • at 50 Hz rated value • at 50 Hz rated value • at 60 Hz rated value	5 A 2 200 W 3 000 W 110 V 88 121 V 120 V 96 132 V
operating power at AC-3 • at 400 V rated value • at 500 V rated value Control circuit/ Control control supply voltage at AC • at 50 Hz rated value • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value apparent holding power of magnet coil at AC inductive power factor with the holding power of the coil Auxiliary circuit	5 A 2 200 W 3 000 W 110 V 88 121 V 120 V 96 132 V 7.2 VA 0.28
operating power at AC-3 • at 400 V rated value • at 500 V rated value Control circuit/ Control control supply voltage at AC • at 50 Hz rated value • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value apparent holding power of magnet coil at AC inductive power factor with the holding power of the coil Auxiliary circuit number of NC contacts for auxiliary contacts	5 A 2 200 W 3 000 W 110 V 88 121 V 120 V 96 132 V 7.2 VA 0.28
operating power at AC-3 • at 400 V rated value • at 500 V rated value Control circuit/ Control control supply voltage at AC • at 50 Hz rated value • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value apparent holding power of magnet coil at AC inductive power factor with the holding power of the coil Auxiliary circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	5 A 2 200 W 3 000 W 110 V 88 121 V 120 V 96 132 V 7.2 VA 0.28
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operating power at AC-3 • at 400 V rated value • at 500 V rated value Control circuit/ Control control supply voltage at AC • at 50 Hz rated value • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz rated value apparent holding power of magnet coil at AC inductive power factor with the holding power of the coil Auxiliary circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	5 A 2 200 W 3 000 W 110 V 88 121 V 120 V 96 132 V 7.2 VA 0.28

response value current of instantaneous short-circuit trip unit	81.9 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	4.8 A
• at 600 V rated value	6.3 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.5 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	1 hp
— at 220/230 V rated value	1.5 hp
— at 460/480 V rated value	3 hp
— at 575/600 V rated value	5 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (Iq)	
• at 400 V according to IEC 60947-4-1 rated value	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	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 electrical connection for main current circuit	1 10 mm², 2x (2.5 6 mm²)
stranded	1 6 mm <sup>2</sup>
connectable conductor cross-section for main contacts finely stranded with core end processing	
Safety related data	1 000 000
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 Certificates/ approvals	finger-safe, for vertical contact from the front
	For use in hazard-
General Product Approval	ous locations Declaration of Conformity
	KEX CE UK ATEX EG-Konf.

Test Certificates

Marine / Shipping

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<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS	BUREAU VERITAS	Lloyds Register urs	PRS
Marine / Shipping			other	Railway	
RINA	RMRS RATE	DNV-GL	<u>Confirmation</u>	Vibration and Shock	
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