SIEMENS

Data sheet

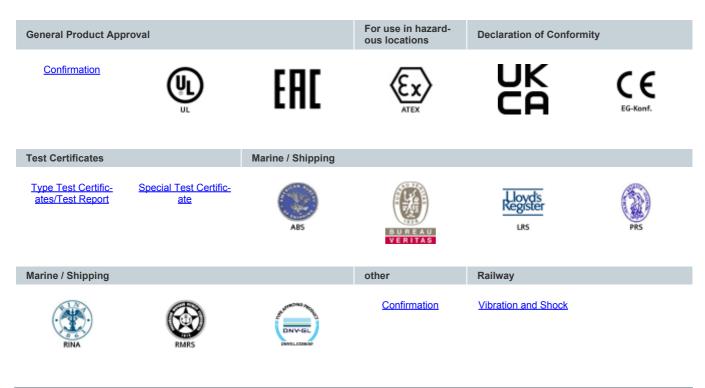
3RA2125-1FA24-0AP6



Fuseless motor starter Direct start 600VAC Size S0 3.5-5A 220/240VAC 50/60HZ screw connection For screw mounting Or 35 mm rail-mounting Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO+1NC (MSP) 1NO+1NC (contactor)

and the set	
product brand name	SIRIUS
product designation	non-fused motor starter 3RA2
design of the product	direct starter
manufacturer's article number	
 of the supplied contactor 	<u>3RT2024-1AP60</u>
 of the supplied circuit-breakers 	<u>3RV2011-1FA15</u>
 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 (operating 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	3.5 5 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	3.6 A
operating power at AC-3	
• at 400 V rated value	1 500 W
• at 500 V rated value	2 200 W
Control circuit/ Control	
control supply voltage at AC	
• at 50 Hz rated value	220 V
• at 50 Hz rated value	176 242 V
• at 60 Hz rated value	240 V

● at 60 Hz rated value	192 264 V
apparent holding power of magnet coil at AC	192 204 V 7.2 VA
inductive power factor with the holding power of the coil	0.28
Auxiliary circuit	0.20
number of NC contacts for auxiliary contacts	2
number of NO contacts for auxiliary contacts	2
Protective and monitoring functions	2
	CLASS 10
trip class	thermal (bimetallic)
design of the overload release response value current of instantaneous short-circuit trip unit	65 A
UL/CSA ratings	05 A
 full-load current (FLA) for 3-phase AC motor at 480 V rated value 	4.8 A
at 400 V rated value at 600 V rated value	4.5 A
	4.55 A
yielded mechanical performance [hp]	
for single-phase AC motor	0.47 hz
— at 110/120 V rated value	0.17 hp
— at 230 V rated value	0.5 hp
for 3-phase AC motor at 200/208 \/ roted value	1 hr.
- at 200/208 V rated value	1 hp
- at 220/230 V rated value	1 hp
- at 460/480 V rated value	3 hp
— at 575/600 V rated value	3 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (Iq)	450.000 A
• at 400 V according to IEC 60947-4-1 rated value	153 000 A
at 500 V according to IEC 60947-4-1 rated value	100 000 A
Installation/ mounting/ dimensions	
mounting position	vertical
fastening method height	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm
width	45 mm
depth	97.1 mm
required spacing	97.1 mm
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
— upwarus — downwards	10 mm
— at the side	9 mm
Connections/ Terminals	
type of electrical connection for main current circuit type of connectable conductor cross-sections for main contacts	screw-type terminals 1 10 mm², 2x (2.5 6 mm²)
stranded	
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 according to SN 31920	73 %
	/3 % IP20
according to SN 31920	



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=3RA2125-1FA24-0AP6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2125-1FA24-0AP6

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2125-1FA24-0AP6

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

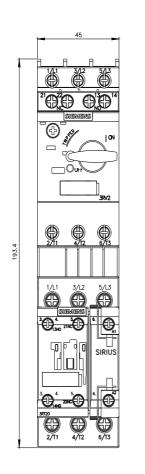
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2125-1FA24-0AP6&lang=en

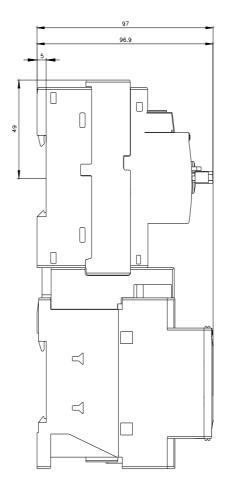
Characteristic: Tripping characteristics, I2t, Let-through current

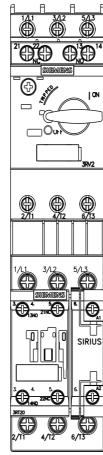
https://support.industry.siemens.com/cs/ww/en/ps/3RA2125-1FA24-0AP6/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2125-1FA24-0AP6&objecttype=14&gridview=view1







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