SIEMENS

Data sheet

3RA6250-1EB34



SIRIUS Compact load feeder Reversing starter 400 V 24 V AC/DC 50...60 Hz 8...32 A IP20 Connection main circuit: Screw terminal Connection control circuit: plug-in, without terminals

475	
product brand name	SIRIUS
product designation	compact starter
design of the product	reversing starter
product type designation	3RA62
General technical data	
product function control circuit interface to parallel wiring	Yes
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	5.4 W
 at AC in hot operating state per pole 	1.8 W
 without load current share typical 	3.5 W
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 000 V
maximum permissible voltage for protective separation	
 between main and auxiliary circuit 	400 V
 between auxiliary and auxiliary circuit 	250 V
 between control and auxiliary circuit 	300 V
degree of protection NEMA rating	other
shock resistance	a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes
vibration resistance	f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles
mechanical service life (operating cycles)	
 of the main contacts typical 	10 000 000
 of auxiliary contacts typical 	10 000 000
 of the signaling contacts typical 	10 000 000
electrical endurance (operating cycles) of auxiliary contacts	
 at DC-13 at 6 A at 24 V typical 	30 000
 at AC-15 at 6 A at 230 V typical 	200 000
type of assignment	continous operation according to IEC 60947-6-2
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-20 +60 °C
 during storage 	-55 +80 °C
during transport	-55 +80 °C
relative humidity during operation	10 90 %
Main circuit	
number of poles for main current circuit	3

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adjustable current response value current of the current- dependent overload release	8 32 A
formula for making capacity limit current	12 x le
formula for limit current breaking capacity	10 x le
yielded mechanical performance for 4-pole AC motor	
at 400 V rated value	15 kW
operating voltage at AC-3 rated value maximum	400 V
operational current	
at AC at 400 V rated value	32 A
• at AC-3 at 400 V rated value	32 A
• at AC-43	
— at 400 V rated value	29 A
operating power	45.114
• at AC-3 at 400 V rated value	15 kW
• at AC-43	
— at 400 V rated value	15 000 W
no-load switching frequency	3 600 1/h
operating frequency	
at AC-41 according to IEC 60947-6-2 maximum	750 1/h
 at AC-43 according to IEC 60947-6-2 maximum 	250 1/h
Control circuit/ Control	
type of voltage	AC/DC
control supply voltage 1 at AC	
• at 50 Hz rated value	24 V
• at 50 Hz	24 24 V
 at 60 Hz rated value 	24 V
• at 60 Hz	24 V
control supply voltage frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
control supply voltage 1	
• at DC rated value	24 V
• at DC	24 24 V
holding power	
• at AC maximum	3.5 W
• at DC maximum	3.1 W
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	2
number of NO contacts of instantaneous short-circuit trip unit for signaling contact	1
number of CO contacts of the current-dependent overload release for signaling contact	1
operational current of auxiliary contacts at AC-12 maximum	
operational current of auxiliary contacts at DC-13 at 250 V	0.27 A
Protective and monitoring functions	
trip class	CLASS 10 and 20 adjustable
operating short-circuit current breaking capacity (lcs)	
• at 400 V	53 kA
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	32 A
at 480 V rated value	
yielded mechanical performance [hp] for 3-phase AC motor	7.5 hp
at 200/208 V rated value	7.5 hp
at 220/230 V rated value	10 hp
• at 460/480 V rated value	20 hp
contact rating of auxiliary contacts according to UL	contacts 21-22, 13-14, 43-44 Q600 / A600, contacts 77-78 R300 / B300,
Short-circuit protection	contacts 95-96-98 R300 / D300
	contacts 95-96-98 R300 / D300
product function short circuit protection	contacts 95-96-98 R300 / D300 Yes

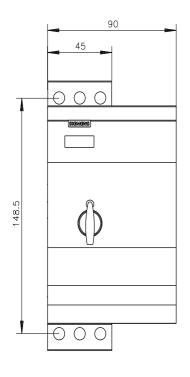
Supply voltage required Auxiliary voltage Display number of LEDs Certificates/ approvals General Product Approval	No 3	
Supply voltage required Auxiliary voltage Display number of LEDs		
Supply voltage required Auxiliary voltage Display		
Supply voltage required Auxiliary voltage	No	
	No	
Supply voltage		
CISPR11 field-bound HF interference emission according to CISPR11	30 1000 MHz Class A	
conducted HF interference emissions according to	150 kHz 30 MHz Class A	
electrostatic discharge according to IEC 61000-4-2	8 kV	
field-based interference according to IEC 61000-4-3	10 V/m	
 due to high-frequency radiation according to IEC 61000- 4-6 	0.15-80Mhz at 10V	
 due to conductor-conductor surge according to IEC 61000-4-5 	2 kV main contacts, 1 kV auxiliary contacts	
• due to conductor-earth surge according to IEC 61000-4-5	4 kV main contacts, 2 kV auxiliary contacts	
• due to burst according to IEC 61000-4-4	4 kV main contacts, 2 kV auxiliary contacts	
conducted interference		
Electromagnetic compatibility		
product function control circuit interface with IO link	No	
IO-Link protocol	No	
AS-Interface protocol	No	
protocol is supported		
product function bus communication	No	
Communication/ Protocol		
touch protection on the front according to IEC 60529	finger-safe	
protection class IP on the front according to IEC 60529	IP20	
61508	204	
failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC	20 a	
with high demand rate according to SN 31920 failure rate [EIT] with low demand rate according to SN 31920	 100 FIT	
with low demand rate according to SN 31920 with high demand rate according to SN 31920	40 % 50 %	
proportion of dangerous failures	40 %	
B10 value with high demand rate according to SN 31920	2 000 000	
	2 000 000	
for AWG cables for auxiliary contacts Safety related data	2x (20 14)	
 finely stranded with core end processing for AWG cables for auxiliary contacts 	0.5 2.5 mm², 2x (0.5 1.5 mm²)	
solid	0.5 4 mm², 2x (0.5 2.5 mm²)	
for auxiliary contacts		
type of connectable conductor cross-sections		
 finely stranded with core end processing 	2x (2.5 6 mm ²)	
• solid	2x (2.5 6 mm²), 1x 10 mm²	
type of connectable conductor cross-sections for main contacts		
 for auxiliary and control circuit 	plug-in without terminals	
for main current circuit	screw-type terminals	
type of electrical connection		
product component removable terminal for auxiliary and control circuit	Yes	
product component removable terminal for main circuit	Yes	
Connections/ Terminals		
depth	165 mm	
width	90 mm	
height	170 mm	
fastening method	screw and snap-on mounting	
recommended	vertical, on horizontal standard DIN rail	
mounting position	any	
Installation/ mounting/ dimensions		
overload release required	17.9-1907 1007	
 short-circuit release required for short-circuit protection of the signaling switch of the 	4A gL/gG/400V	
 for short-circuit protection of the signaling switch of the 	6A gL/gG/400V	
	fuse gL/gG: 10 A	

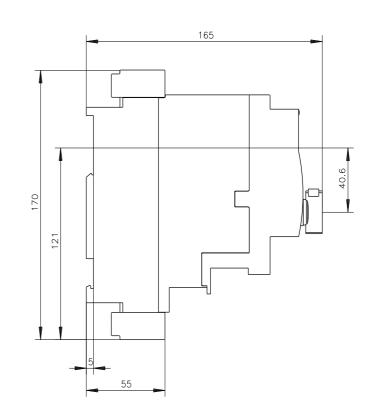
					Safety/Safety of Ma- chinery		
<u>Confirmation</u>			EHC	RCM			
Declaration of Conformi	ty	Test Certificates	Marine / Shipping				
UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	ABS		Hoyds Register us		
Marine / Shipping		other	Dangerous Good				
PRS	RINA	<u>Confirmation</u>	Transport Information				
Further information							
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=3RA6250-1EB34 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6250-1EB34							
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-1EB34 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)							

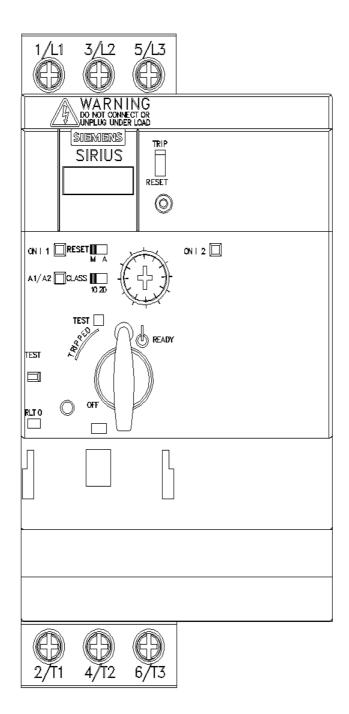
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6250-1EB34&lang=en

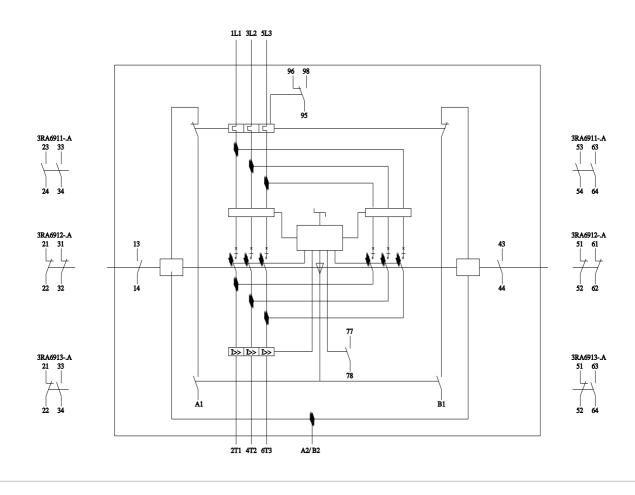
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-1EB34/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6250-1EB34&objecttype=14&gridview=view1









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