SIEMENS

Data sheet

3RA6250-2EB34



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

product function control circuit interface to parallel wiring Yes product extension auxiliary switch Yes power loss [W] for rated value of the current 5.4 W • 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 • between main and auxiliary circuit 250 V • between main and auxiliary circuit 250 V • between control and auxiliary circuit 300 V degree of protection NEMA rating other shock 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) 10 000 000 • of the main contacts typical 10 000 000 • of the signaling contacts typical 200 000 • of the signaling contacts typical 200 000 • at AC-15 at 6 A at 230 V typical 200 000 • type casingment continous operation according to IEC 60947-6-2 reference code according to IEC 8136-2 Q Substance Prohibitance (Date) 05/01/2012 SVHC substance name Blei -7439-92-1 Bleitanzi/konoxid - 12626-81-2 <th>and the state of t</th> <th></th>	and the state of t	
design of the product reversing starter product type designation 3RA62 product function control circuit interface to parallel wiring Yes product direction control circuit interface to parallel wiring Yes product direction control circuit interface to parallel wiring Yes power loss [W] for rated value of the current 4.4 C in hot operating state per pole 1.8 W • at AC in hot operating state per pole 1.8 W 4.8 W • without load current share typical 3.5 W 1.8 W insultation voltage reted value 680 V 4.00 V degree of pollution 3 3 3 surge voltage resistance rated value 600 V 400 V 400 V between main and auxiliary circuit 250 V 400 V 400 V degree of protection NEMA rating other aseon msize (g) with 10 ms per 3 shocks in all axes 10 000 000 V degree of protection NEMA rating 00 V 400 V </th <th>product brand name</th> <th>SIRIUS</th>	product brand name	SIRIUS
product type designation 3RA62 anaral acchinical data ************************************	product designation	compact starter
aneral tachnical data Yes product function control circuit interface to parallel wiring Yes product extension auxiliary switch Yes e at AC in hot operating state 5.4 W e at AC in hot operating state per pole 1.8 W e at AC in hot operating state per pole 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 400 V • between main and auxiliary circuit 400 V • between ontrol 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 in 0 mo 000 • of the main contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 200 000 • at DC-15 at 6 A at 230 V lycial 200 000 • at DC-15 at 6 A at 24 V lypical 200 000 • at DC-15 at 6 A at 230 V lycial 200 000	design of the product	reversing starter
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product extension auxiliary switch Yes power loss (W) for rated value of the current 5.4 W • 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 400 V • between auxiliary dircuit 250 V • between control and auxiliary circuit 300 V degree of protection REMA rating other shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance fe 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s ² ; 10 cycles mechanical service life (operating cycles) 10 000 000 • of the main contacts typical 10 000 000 • of the signaling contacts typical 30 000 • at AC-15 at 6 A at 230 V typical 30 000 • at AC-15 at 6 A at 24 V typical 30 000 • at AC-15 at 6 A at 24 V typical 200 000 * of the signaling contacts typical 00 000 • at AC-15 at 6 A at 230 V typical 200 000 * at AC-15 at 6 A at 230 V typical 200 000 Substance Prohibitance (Date)	Seneral technical data	
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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) in 0 000 000 • of the main contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • 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 SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2.2,*6,*C-Tetrabrom-4,4'-isopropylidendi - 79-94-7	 between auxiliary and auxiliary circuit 	250 V
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) 0 000 000 • of the main contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • 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 continuous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012 SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirknoxid - 12626-81-2 2.2,*6,*6-Tetrabrom-4,4'-isopropylidendi - 79-94-7 mblent conditions installation altitude at height above sea level maximum 2 000 m amblent temperature - during operation -20 +60 °C - during storage -55 +80 °C	 between control and auxiliary circuit 	300 V
vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s ² ; 10 cycles mechanical service life (operating cycles) 0 000 000 of the main contacts typical 10 000 000 of the signaling contacts typical 10 000 000 electrical endurance (operating cycles) of auxiliary contacts 30 000 e at DC-13 at 6 A at 24 V typical 30 000 e 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 SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleifitanzirkonoxid - 12626-81-2 z,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 2000 m ambient conditions 2 000 m ambient temperature -20 +60 °C of during operation -20 +60 °C of during storage -55 +80 °C	degree of protection NEMA rating	other
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of the main contacts typical of auxiliary contacts typical of auxiliary contacts typical 10 000 000 of the signaling 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 • ot the signalment continous operation according to IEC 60947-6-2 Q Substance Prohibitance (Date) O5/01/2012 SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleimonoxid (Bleioxid) - 1317-36-8 Bleimtanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 mbient conditions 2 000 m ambient temperature • during operation -20 +60 °C -40 °C -40 °C	vibration resistance	f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles
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electrical endurance (operating cycles) of auxiliary contacts 30 000 • 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 SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2's,6's-Tetrabrom-4,4'-isopropylidendi - 79-94-7 mbient conditions ambient temperature • during operation -20 +60 °C • during storage -55 +80 °C	 of auxiliary contacts typical 	10 000 000
• at DC-13 at 6 A at 24 V typical30 000• at AC-15 at 6 A at 230 V typical200 000type of assignmentcontinous operation according to IEC 60947-6-2reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012SVHC substance nameBlei - 7439-92-1 Bleit 7439-92-1 Bleit monoxid (Bleioxid) - 1317-36-8 Bleit fazirknoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7mbient conditions2 000 mambient temperature • during operation2 000 m• during operation • during storage-20 +60 °C - 55 +80 °C	 of the signaling contacts typical 	10 000 000
• at AC-15 at 6 A at 230 V typical200 000type of assignmentcontinous operation according to IEC 60947-6-2reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012SVHC substance nameBlei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7mbient conditions2 000 mambient temperature • during operation • during storage2 000 m	electrical endurance (operating cycles) of auxiliary contacts	
type of assignmentcontinous operation according to IEC 60947-6-2reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012SVHC substance nameBlei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7mbient conditions2 000 mambient temperature • during operation • during storage-20 +60 °C -55 +80 °C	 at DC-13 at 6 A at 24 V typical 	30 000
reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012 SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 mblent conditions 2 000 m ambient temperature -20 +60 °C • during operation -55 +80 °C	 at AC-15 at 6 A at 230 V typical 	200 000
Substance Prohibitance (Date) 05/01/2012 SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 mbient conditions 2 000 m ambient temperature 0 00 m • during operation -20 +60 °C • during storage -55 +80 °C	type of assignment	continous operation according to IEC 60947-6-2
SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 mbient conditions 2 000 m ambient temperature -20 +60 °C • during storage -55 +80 °C	reference code according to IEC 81346-2	Q
Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 mbient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation -20 +60 °C • during storage -55 +80 °C	Substance Prohibitance (Date)	05/01/2012
installation altitude at height above sea level maximum 2 000 m ambient temperature during operation 	SVHC substance name	Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2
ambient temperature -20 +60 °C • during storage -55 +80 °C	Ambient conditions	
• during operation-20 +60 °C• during storage-55 +80 °C	installation altitude at height above sea level maximum	2 000 m
• during storage -55 +80 °C	ambient temperature	
	during operation	-20 +60 °C
• during transport -55 +80 °C	during storage	-55 +80 °C
	during transport	-55 +80 °C

relative humidity during operation	10 90 %
Main circuit	10 90 %
number of poles for main current circuit	3
adjustable current response value current of the current-	8 32 A
dependent overload release	0027
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	
• 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	700 4/4
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	10/20
type of voltage	AC/DC
control supply voltage 1 at AC	2017
• 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 	50.11-
	50 Hz 60 Hz
• 2 rated value control supply voltage 1	60 HZ
at DC rated value	24 V
• at DC	24 v 24 24 V
holding power	24 24 V
at AC maximum	3.5 W
• at DC maximum	3.1 W
Auxiliary circuit	0.1 W
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	1
signaling contacts of the current-dependent overload	1
release for signaling contact	
operational current of auxiliary contacts at AC-12 maximum	10 A
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	
at 480 V rated value	32 A
yielded mechanical performance [hp] for 3-phase AC motor	
• 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, contacts 95-96-98 R300 / D300

Short-circuit protection	
product function short circuit protection	Yes
design of short-circuit protection	electromagnetic
design of the fuse link	
 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 10 A
 for short-circuit protection of the signaling switch of the short-circuit release required 	6A gL/gG/400V
 for short-circuit protection of the signaling switch of the overload release required 	4A gL/gG/400V
Installation/ mounting/ dimensions	
mounting position	any
recommended	vertical, on horizontal standard DIN rail
fastening method	screw and snap-on mounting
height	191 mm
width	90 mm
depth	165 mm
Connections/ Terminals	
product component removable terminal for main circuit	Yes
product component removable terminal for auxiliary and	Yes
control circuit	
type of electrical connection for main current circuit 	spring-loaded terminals
for auxiliary and control circuit	plug-in without terminals
type of connectable conductor cross-sections for main contacts	plog in without terminale
solid	2x (2.5 6 mm²), 1x 10 mm²
 finely stranded with core end processing 	2x (2.5 6 mm ²)
 finely stranded without core end processing 	2x (2.5 6 mm ²)
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.25 1.5 mm²)
 finely stranded with core end processing 	2x (0.25 1.5 mm ²)
 finely stranded without core end processing 	2x (0.25 1.5 mm ²)
 for AWG cables for auxiliary contacts 	2x (24 16)
Safety related data	
B10 value with high demand rate according to SN 31920	2 000 000
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	50 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe
Communication/ Protocol	
product function bus communication	No
protocol is supported	
AS-Interface protocol	No
IO-Link protocol	No
product function control circuit interface with IO link	No
Electromagnetic compatibility	
conducted interference	
 due to burst according to IEC 61000-4-4 	4 kV main contacts, 2 kV auxiliary contacts
• due to conductor-earth surge according to IEC 61000-4-5	4 kV main contacts, 2 kV auxiliary contacts
• due to conductor-conductor surge according to IEC 61000-4-5	2 kV main contacts, 1 kV auxiliary contacts
 due to high-frequency radiation according to IEC 61000- 4-6 	0.15-80Mhz at 10V
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	8 kV
conducted HF interference emissions according to CISPR11	150 kHz 30 MHz Class A
field-bound HF interference emission according to CISPR11	30 1000 MHz Class A

Supply voltage					
Supply voltage require	d Auxiliary voltage	No			
Display					
number of LEDs		3			
Certificates/ approvals					
General Product Appro	oval			EMC	Functional Safety/Safety of Ma- chinery
	<u>Confirmation</u>	UL UL	EHC	RCM	
Declaration of Conform	nity	Test Certificates	Marine / Shipping		
UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	ABS		Lloyd's Register urs
Marine / Shipping		other	Dangerous Good		
PRS	RINA	<u>Confirmation</u>	Transport Information		
Further information Siemens has decided t	o ovit the Pupping may	that (can have)			
https://press.siemens.co	m/global/en/pressreleas	e/siemens-wind-down-rus	sian-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=3RA6250-2EB34

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6250-2EB34

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-2EB34

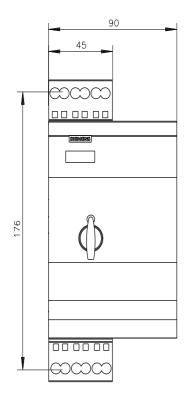
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

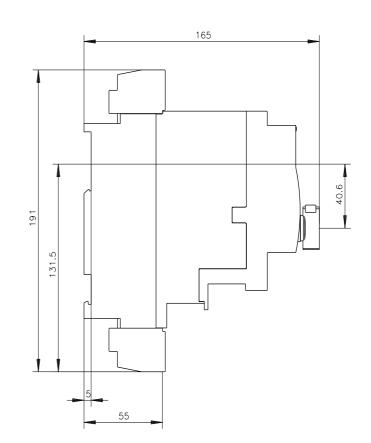
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6250-2EB34&lang=en

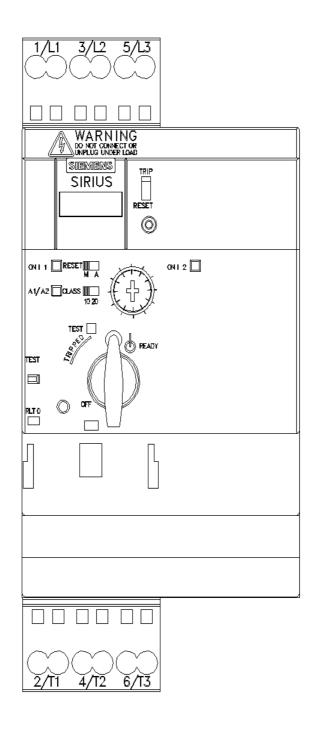
Characteristic: Tripping characteristics, I2t, Let-through current

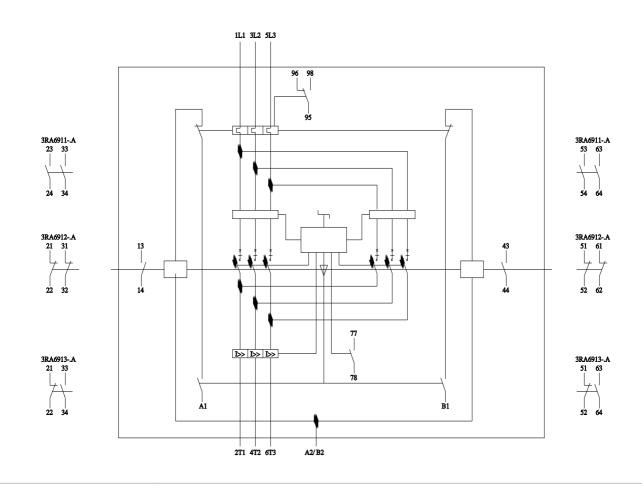
https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-2EB34/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6250-2EB34&objecttype=14&gridview=view1









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