## **SIEMENS**

Data sheet 3RA6250-2BP32



SIRIUS Compact load feeder Reversing starter 690 V 110...240 V AC/DC 50...60 Hz 0.32...1.25 A IP20 Connection main circuit: Spring-type terminal Connection control circuit: Spring-type terminal

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	0.1 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.03 W
without load current share typical	6 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	
<ul> <li>between main and auxiliary circuit</li> </ul>	400 V
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	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/s <sup>2</sup> ; 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	

adjustable current response value current of the current- dependent overload release	0.32 1.25 A
formula for making capacity limit current	38.4 x le
formula for limit current breaking capacity	32 x le
yielded mechanical performance for 4-pole AC motor	
at 400 V rated value	0.37 kW
at 500 V rated value	0.55 kW
at 690 V rated value	0.75 kW
operating voltage at AC-3 rated value maximum	690 V
operational current	
at AC at 400 V rated value	1.25 A
at AC-3 at 400 V rated value	1.25 A
• at AC-43	1.25 / \
— at 400 V rated value	1.1 A
— at 500 V rated value	1.2 A
— at 690 V rated value	1.1 A
operating power	
	0.27 kW
at AC-3 at 400 V rated value     at AC-43	0.37 kW
• at AC-43	270 W
— at 400 V rated value	370 W
— at 500 V rated value	550 W
— at 690 V rated value	750 W
no-load switching frequency	3 600 1/h
operating frequency	
<ul> <li>at AC-41 according to IEC 60947-6-2 maximum</li> </ul>	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	240 V
● at 50 Hz	110 240 V
● at 60 Hz	110 240 V
control supply voltage frequency	
1 rated value	50 Hz
• 2 rated value	60 Hz
control supply voltage 1	
at DC rated value	240 V
• at DC	110 240 V
holding power	
at AC maximum	6 W
at DC maximum	5.1 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	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
<del>.</del>	CLASS 10 and 20 adjustable
operating short-circuit current breaking capacity (lcs)	CLASS 10 and 20 adjustable
•	53 kA
operating short-circuit current breaking capacity (lcs)	,
operating short-circuit current breaking capacity (Ics)  • at 400 V	53 kA
operating short-circuit current breaking capacity (lcs)  • at 400 V  • at 500 V rated value  • at 690 V rated value	53 kA 3 kA
operating short-circuit current breaking capacity (Ics)  • at 400 V  • at 500 V rated value  • at 690 V rated value  UL/CSA ratings	53 kA 3 kA
operating short-circuit current breaking capacity (Ics)  • at 400 V  • at 500 V rated value  • at 690 V rated value  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor	53 kA 3 kA 3 kA
operating short-circuit current breaking capacity (Ics)  • at 400 V  • at 500 V rated value  • at 690 V rated value  UL/CSA ratings	53 kA 3 kA

	2.51
• at 460/480 V rated value	0.5 hp
at 575/600 V rated value	0.5 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
<ul> <li>for short-circuit protection of the signaling switch of the</li> </ul>	6A gL/gG/400V
<ul> <li>short-circuit release required</li> <li>for short-circuit protection of the signaling switch of the</li> </ul>	4A gL/gG/400V
overload release required	
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 control circuit	Yes
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	spring-loaded terminals
for auxiliary and control circuit	spring-loaded terminals
type of connectable conductor cross-sections for main contacts  • solid	2x (1.5 6 mm²), 1x 10 mm²
finely stranded with core end processing	2x (1.5 6 mm²)
finely stranded with core end processing	2x (1.5 6 mm²)
type of connectable conductor cross-sections	27 (1.5 6 11111 )
for auxiliary contacts	
— solid	2x (0.25 1.5 mm²)
— finely stranded with core end processing	2x (0.25 1.5 mm²)
— finely stranded without core end processing	2x (0.25 1.5 mm²)
for AWG cables for auxiliary contacts	2x (24 16)
Safety related data	(= · · · )
B10 value with high demand rate according to SN 31920	3 000 000
proportion of dangerous failures	0 000 000
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	20 a
61508	IP20
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	IP20
Communication/ Protocol	finger-safe
	No
product function bus communication	No
protocol is supported  • AS-Interface protocol	No
	No No
IO-Link protocol  product function control circuit interface with IO link	No
Electromagnetic compatibility	NO .
conducted interference	
	4 kV main contacts 2 kV auvilians contacts
due to burst according to IEC 61000-4-4      due to conductor couth surger according to IEC 61000.4.5.	4 kV main contacts, 2 kV auxiliary contacts
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> <li>due to conductor-conductor surge according to IEC</li> </ul>	4 kV main contacts, 2 kV auxiliary contacts 2 kV main contacts, 1 kV auxiliary contacts
61000-4-5  • due to high-frequency radiation according to IEC 61000-	0.15-80Mhz at 10V
4-6	
field-based interference according to IEC 61000-4-3	10 V/m

8 kV electrostatic discharge according to IEC 61000-4-2 150 kHz ... 30 MHz Class A conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 30 ... 1000 MHz Class A Supply voltage Supply voltage required Auxiliary voltage No Displa number of LEDs 3 Certificates/ approvals

**General Product Approval** 

**EMC** 

Functional Safety/Safety of Machinery



Confirmation









**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other

**Dangerous Good** 





Confirmation

**Transport 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=3RA6250-2BP32

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6250-2BP32

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-2BP32

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

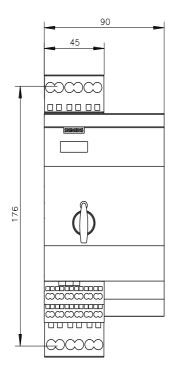
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA62

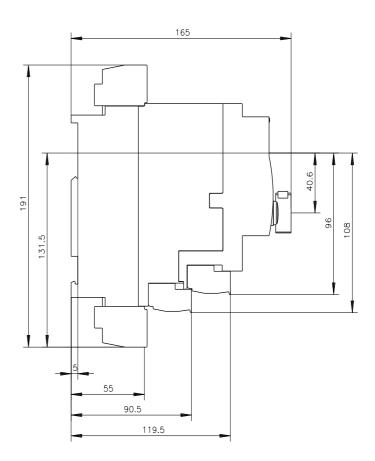
Characteristic: Tripping characteristics, I2t, Let-through current

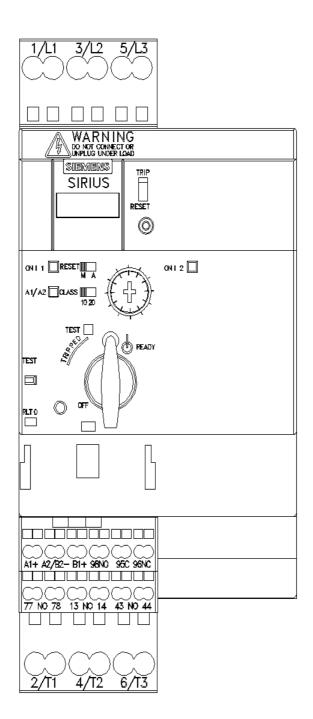
https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-2BP32/char

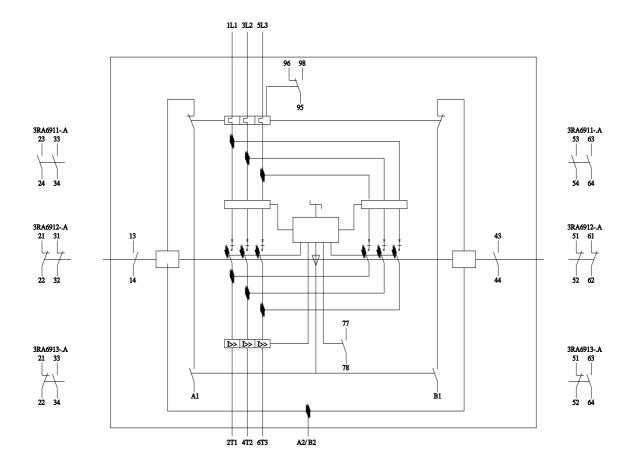
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6250-2BP32&objecttype=14&gridview=view1









last modified: 11/21/2022 🖸