## SIEMENS

## Data sheet

## 3RA6500-2EB43



SIRIUS Compact load feeder Reversing starter for IO-Link 400 V 24 V DC 8...32 A IP20 Connection main circuit: plug-in, without terminals Connection control circuit: Spring-type terminal

and the second sec				
product brand name	SIRIUS			
product designation	Compact starter for IO-Link			
design of the product	reversing starter			
product type designation	3RA65			
General technical data				
product function control circuit interface to parallel wiring	No			
product extension auxiliary switch	Yes			
power loss [W] for rated value of the current				
<ul> <li>at AC in hot operating state</li> </ul>	5.4 W			
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.8 W			
<ul> <li>without load current share typical</li> </ul>	3.4 W			
insulation voltage rated value	690 V			
degree of pollution	3			
surge voltage resistance rated value	6 000 V			
degree of protection NEMA rating	other			
shock resistance	a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes			
mechanical service life (operating cycles)				
<ul> <li>of the main contacts typical</li> </ul>	10 000 000			
<ul> <li>of auxiliary contacts typical</li> </ul>	10 000 000			
<ul> <li>of the signaling contacts typical</li> </ul>	10 000 000			
electrical endurance (operating cycles) of auxiliary contacts				
<ul> <li>at DC-13 at 6 A at 24 V typical</li> </ul>	30 000			
<ul> <li>at AC-15 at 6 A at 230 V typical</li> </ul>	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',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7			
Ambient conditions				
installation altitude at height above sea level maximum	2 000 m			
ambient temperature				
<ul> <li>during operation</li> </ul>	-20 +60 °C			
<ul> <li>during storage</li> </ul>	-55 +80 °C			
during transport	-55 +80 °C			
relative humidity during operation	10 90 %			
Main circuit				
number of poles for main current circuit	3			
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	12 x le 10 x le			
yielded mechanical performance for 4-pole AC motor	IU X Ie			
at 400 V rated value	15 kW			
	15 kW			
operating voltage at AC-3 rated value maximum	400 V			
operational current	20.4			
• at AC at 400 V rated value	32 A			
• at AC-3 at 400 V rated value	32 A			
• at AC-43	20.4			
at 400 V rated value	29 A			
operating power				
• at AC-3 at 400 V rated value	15 kW			
• at AC-43	45 000 14			
— 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	DC			
control supply voltage 1				
• at DC rated value	24 V			
• at DC	24 24 V			
holding power				
at DC maximum	3.4 W			
Auxiliary circuit				
number of NC contacts for auxiliary contacts	0			
number of NO contacts for auxiliary contacts	0			
number of NO contacts of instantaneous short-circuit trip unit for signaling contact	0			
number of CO contacts of the current-dependent overload release for signaling contact	0			
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			
Short-circuit protection				
product function short circuit protection	Yes			
design of short-circuit protection	electromagnetic			
design of the fuse link				
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 10 A			
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			

General Product Approval	EMC Functional EMC Safety/Safety of N chinery			
Approvals Certificates				
display version as status display of the input/output link device	green/red dual LED			
number of LEDs	5			
Display				
Supply voltage required Auxiliary voltage	Yes			
Supply voltage				
field-bound HF interference emission according to CISPR11	30 1000 MHz Class A			
conducted HF interference emissions according to CISPR11	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	80 3000 MHz at 10V/m			
4-6				
61000-4-5 • due to high-frequency radiation according to IEC 61000-	protection 0.15-80Mhz at 10V			
due to conductor-conductor surge according to IEC	2 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage			
<ul> <li>due to burst according to IEC 61000-4-4</li> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	<ul> <li>4 kV main circuits, 2 kV auxiliary circuits, 2 kV IO-Link, 2 kV limit switches, 2 k</li> <li>line hand-held device</li> <li>4 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage</li> </ul>			
e due to burst according to IEC 61000-4-4	4 kV main circuite 2 kV auviliary circuite 2 kV IO Link 2 kV limit ewitches 2 k			
Electromagnetic compatibility				
total				
<ul><li>of the address range of the outputs with cyclical transfer</li></ul>	2 byte			
<ul> <li>of the address range of the inputs with cyclical transfer</li> </ul>	2 byte			
type of voltage supply via input/output link master	No			
device minimum				
point-to-point cycle time between master and IO-Link	2.5 ms			
IO-Link transfer rate	COM2 (38,4 kBaud)			
product function control circuit interface with IO link	Yes			
AS-Interface protocol     IO-Link protocol	No Yes			
protocol is supported	No			
product function bus communication	Yes			
communication/ Protocol				
touch protection on the front according to IEC 60529	finger-safe			
protection class IP on the front according to IEC 60529	IP20			
B10 value with high demand rate according to SN 31920	1 500 000			
<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %			
proportion of dangerous failures				
afety related data				
for AWG cables for auxiliary contacts	2x (24 16)			
<ul> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> </ul>	2x (0.25 1.5 mm <sup>2</sup> )			
<ul> <li>— solid</li> <li>— finely stranded with core end processing</li> </ul>	2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²)			
for auxiliary contacts	0v (0.05 _ 1.5 mm²)			
type of connectable conductor cross-sections				
finely stranded without core end processing	2x (2.5 6 mm²)			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (2.5 6 mm²)			
• solid	2x (2.5 6 mm²), 1x 10 mm²			
type of connectable conductor cross-sections for main contacts				
<ul> <li>for auxiliary and control circuit</li> </ul>	plug-in without terminals spring-loaded terminals			
<ul> <li>for main current circuit</li> </ul>				

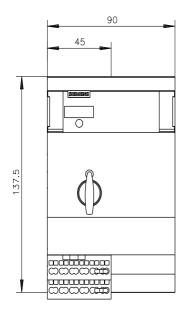
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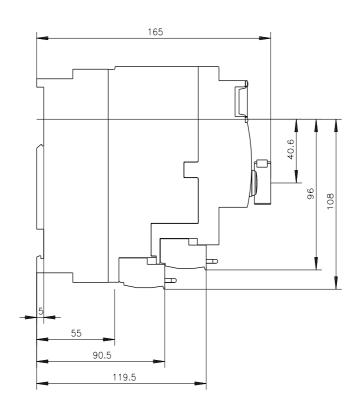
Declaration of Conformity		Test Certificates	Marine / Shipping		
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other	Dangerous Good				
Confirmation	Transport Information				

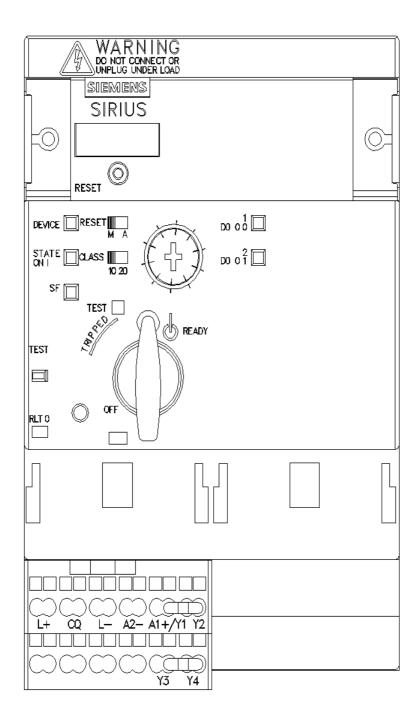
Further information
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the 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=3RA6500-2EB43
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6500-2EB43
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RA6500-2EB43
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)

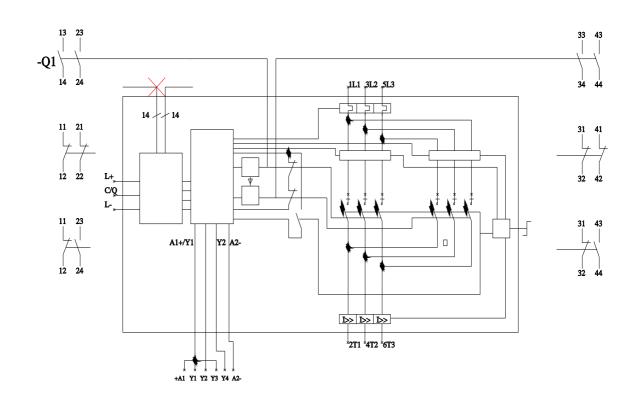
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA6500-2EB43&lang=en

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RA6500-2EB43/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6500-2EB43&objecttype=14&gridview=view1









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