## SIEMENS

## Data sheet

## 3RA6500-2EB43

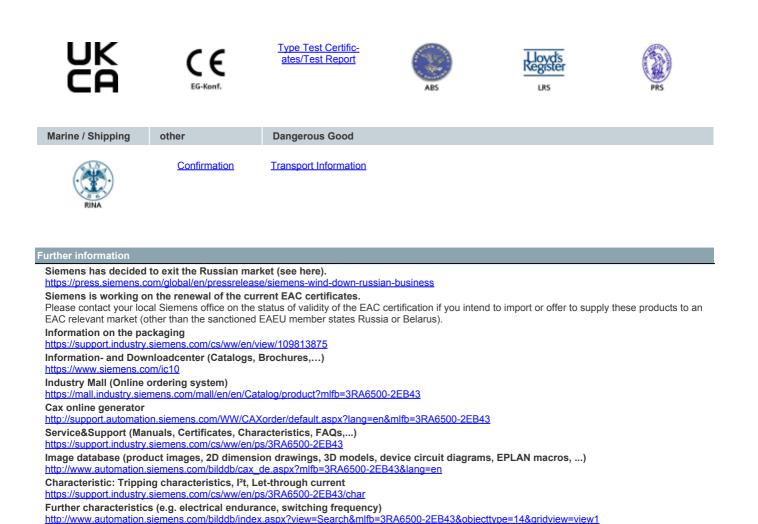


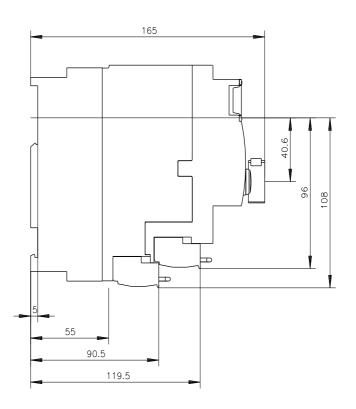
SIRIUS Compact load feeder Reversing starter for IO-Link 400 V 24 V DC 8...32 A IP20 Connection main circuit: plug-in, without terminals Connection control circuit: Spring-type terminal

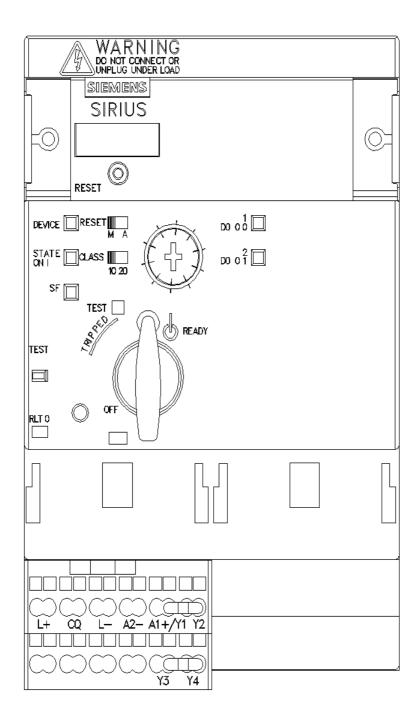
product brand name	SIRIUS
product designation	Compact starter for IO-Link
design of the product	reversing starter
product type designation	3RA65
General technical data	
product function control circuit interface to parallel wiring	No
product extension auxiliary switch	Yes
power loss [W] for rated value 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
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)	
<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
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-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
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

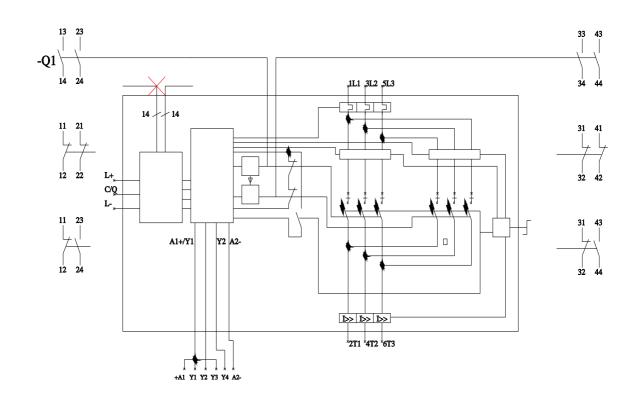
utalidad waa kanisal waafa waaa fan 4 wala 40 waatan	
yielded mechanical performance for 4-pole AC motor	45 144
at 400 V rated value	15 kW
operating voltage at AC-3 rated value maximum	400 V
operational current	20. A
at AC at 400 V rated value	32 A
• at AC-3 at 400 V rated value	32 A
• at AC-43	
at 400 V rated value	29 A
operating power	45 144
• at AC-3 at 400 V rated value	15 kW
• at AC-43	45.000 M
— 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	2414
• 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	
UL/CSA ratings	32 A
UL/CSA ratings full-load current (FLA) for 3-phase AC motor	32 A
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	32 A 7.5 hp
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor	
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value	7.5 hp
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value	7.5 hp 10 hp
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value	7.5 hp 10 hp
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value Short-circuit protection	7.5 hp 10 hp 20 hp
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UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value Short-circuit protection product function short circuit protection design of short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required	7.5 hp 10 hp 20 hp Yes
UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         yielded mechanical performance [hp] for 3-phase AC motor         • at 200/208 V rated value         • at 220/230 V rated value         • at 460/480 V rated value         Short-circuit protection         product function short circuit protection         design of short-circuit protection         design of the fuse link	7.5 hp 10 hp 20 hp Yes electromagnetic
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UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         yielded mechanical performance [hp] for 3-phase AC motor         • at 200/208 V rated value         • at 220/230 V rated value         • at 460/480 V rated value         Short-circuit protection         product function short circuit protection         design of short-circuit protection         design of the fuse link         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         • recommended	7.5 hp 10 hp 20 hp Yes electromagnetic fuse gL/gG: 10 A any vertical, on horizontal standard DIN rail
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UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         yielded mechanical performance [hp] for 3-phase AC motor         • at 200/208 V rated value         • at 220/230 V rated value         • at 460/480 V rated value         Short-circuit protection         product function short circuit protection         design of short-circuit protection         design of the fuse link         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         • recommended         fastening method         height         width         depth         Connections/ Terminals         product component removable terminal for main circuit	7.5 hp 10 hp 20 hp Yes electromagnetic fuse gL/gG: 10 A any vertical, on horizontal standard DIN rail screw and snap-on mounting 191 mm 90 mm 165 mm

for a will an oral constant size of	
for auxiliary and control circuit	spring-loaded terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>
finely stranded with core end processing	2x (2.5 6 mm <sup>2</sup> )
finely stranded without core end processing	2x (2.5 6 mm²)
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid	2x (0.25 1.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.25 1.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.25 1.5 mm²)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (24 16)
Safety related data	
B10 value with high demand rate according to SN 31920	1 500 000
proportion of dangerous failures	
<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %
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	Yes
protocol is supported	
AS-Interface protocol	No
IO-Link protocol	Yes
product function control circuit interface with IO link	Yes
IO-Link transfer rate	COM2 (38,4 kBaud)
point-to-point cycle time between master and IO-Link	2.5 ms
device minimum	2.0 m3
type of voltage supply via input/output link master	No
data volume	
<ul> <li>of the address range of the inputs with cyclical transfer</li> </ul>	2 byte
total	
<ul> <li>of the address range of the outputs with cyclical transfer total</li> </ul>	2 byte
Electromagnetic compatibility	
conducted interference	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	
	4 kV main circuits, 2 kV auxiliary circuits, 2 kV IO-Link, 2 kV limit switches, 2 kV line hand-held device
due to conductor-earth surge according to IEC 61000-4-5	
, and the second s	line hand-held device 4 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage
<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>	<ul> <li>line hand-held device</li> <li>4 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection</li> <li>2 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage</li> </ul>
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> <li>due to high-frequency radiation according to IEC 61000-</li> </ul>	<ul> <li>line hand-held device</li> <li>4 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection</li> <li>2 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection</li> </ul>
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<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> <li>due to high-frequency radiation according to IEC 61000-4-6</li> <li>field-based interference according to IEC 61000-4-3</li> </ul>	line hand-held device 4 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection 2 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection 0.15-80Mhz at 10V 80 3000 MHz at 10V/m
due to conductor-earth surge according to IEC 61000-4-5     due to conductor-conductor surge according to IEC     61000-4-5     due to high-frequency radiation according to IEC 61000-     4-6     field-based interference according to IEC 61000-4-3     electrostatic discharge according to IEC 61000-4-2     conducted HF interference emissions according to	line hand-held device 4 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection 2 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection 0.15-80Mhz at 10V 80 3000 MHz at 10V/m 8 kV
due to conductor-earth surge according to IEC 61000-4-5     due to conductor-conductor surge according to IEC 61000-4-5     due to high-frequency radiation according to IEC 61000-4-6 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11	line hand-held device 4 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection 2 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection 0.15-80Mhz at 10V 80 3000 MHz at 10V/m 8 kV 150 kHz 30 MHz Class A
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11/21/2022 🖸