SIEMENS

Data sheet

3RA6500-2EB43

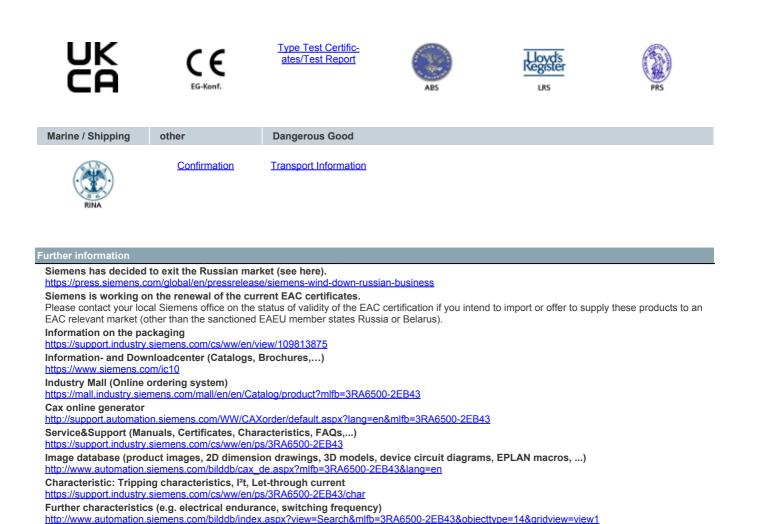


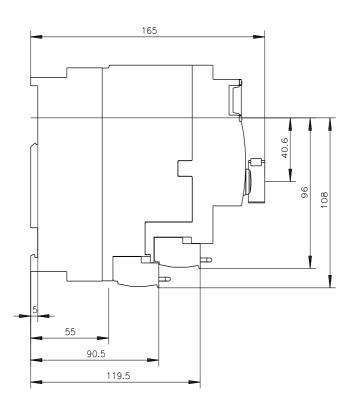
SIRIUS Compact load feeder Reversing starter for IO-Link 400 V 24 V DC 8...32 A IP20 Connection main circuit: plug-in, without terminals Connection control circuit: Spring-type terminal

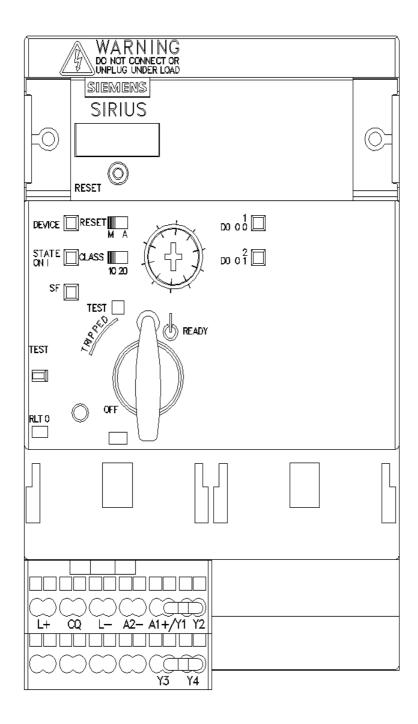
product brand name	SIRIUS
product designation	Compact starter for IO-Link
design of the product	reversing starter
product type designation	3RA65
General technical data	
product function control circuit interface to parallel wiring	No
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 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 	3.4 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)	
 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
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

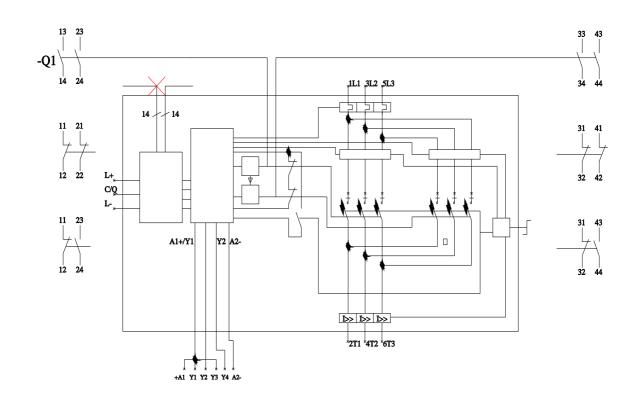
utalidad waa kanisal waafa waaa fan 4 wala 40 waatan	
yielded mechanical performance for 4-pole AC motor	45 144
at 400 V rated value	15 kW
operating voltage at AC-3 rated value maximum	400 V
operational current	20. A
at AC at 400 V rated value	32 A
• at AC-3 at 400 V rated value	32 A
• at AC-43	
at 400 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
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	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 • 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
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	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
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 • at 460/480 V rated value 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	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
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 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	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
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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 • 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 product component removable terminal for auxiliary and control 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
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 ²), 1x 10 mm ²
finely stranded with core end processing	2x (2.5 6 mm ²)
finely stranded without core end processing	2x (2.5 6 mm²)
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 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	1 500 000
proportion of dangerous failures	
 with high demand rate according to SN 31920 	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	
 of the address range of the inputs with cyclical transfer 	2 byte
total	
 of the address range of the outputs with cyclical transfer total 	2 byte
Electromagnetic compatibility	
conducted interference	
 due to burst according to IEC 61000-4-4 	
	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
 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 	 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
 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- 	 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
 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 	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
 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 	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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