SIEMENS

Data sheet

3RA6500-1AB42



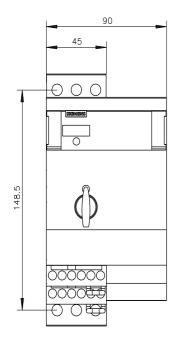
SIRIUS Compact load feeder Reversing starter for IO-Link 690 V 24 V DC 0.1...0.4 A IP20 Connection main circuit: Screw terminal Connection control circuit: screw terminal

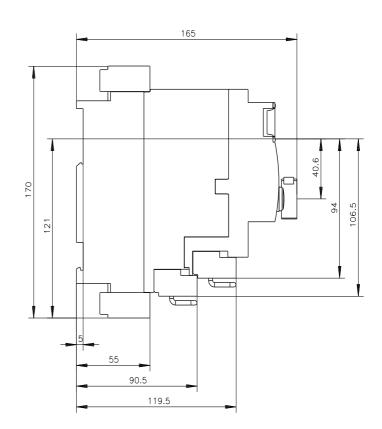
product brand name	SIRIUS
product designation	Compact starter for IO-Link
design of the product	reversing starter
product type designation	3RA65
General technical data	
product function control circuit interface to parallel wiring	No
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	0.01 W
 at AC in hot operating state per pole 	0.01 W
 without load current share typical 	2.9 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
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	
 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-	

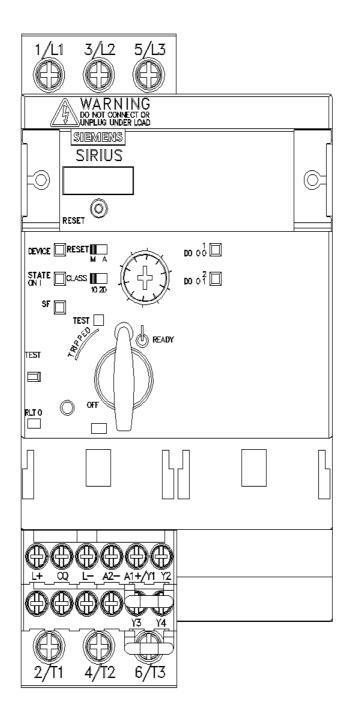
dependent overland related	
dependent overload release	120 x lo
formula for making capacity limit current	120 x le
formula for limit current breaking capacity	100 x le
yielded mechanical performance for 4-pole AC motor	
 at 400 V rated value 	0.09 kW
 at 500 V rated value 	0.12 kW
• at 690 V rated value	0.18 kW
operating voltage at AC-3 rated value maximum	690 V
operational current	
 at AC at 400 V rated value 	0.4 A
 at AC-3 at 400 V rated value 	0.4 A
• at AC-43	
— at 400 V rated value	0.3 A
— at 500 V rated value	0.32 A
— at 690 V rated value	0.35 A
operating power	
 at AC-3 at 400 V rated value 	0.09 kW
• at AC-43	
— at 400 V rated value	90 W
— at 500 V rated value	120 W
— at 690 V rated value	180 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 at AC-43 according to IEC 60947-6-2 maximum 	250 1/h
Control circuit/ Control	230 1/11
type of voltage	DC
control supply voltage 1	
• at DC rated value	24 V
• at DC	24 24 V
holding power	
at DC maximum	2.9 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 (Ics)	
• at 400 V	53 kA
• at 500 V rated value	3 kA
• at 690 V rated value	3 kA
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	0.4 A
at 600 V rated value	0.4 A
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
Installation/ mounting/ dimensions	
mounting position	any
recommended	vertical, on horizontal standard DIN rail
fastening method	screw and snap-on mounting
height	170 mm

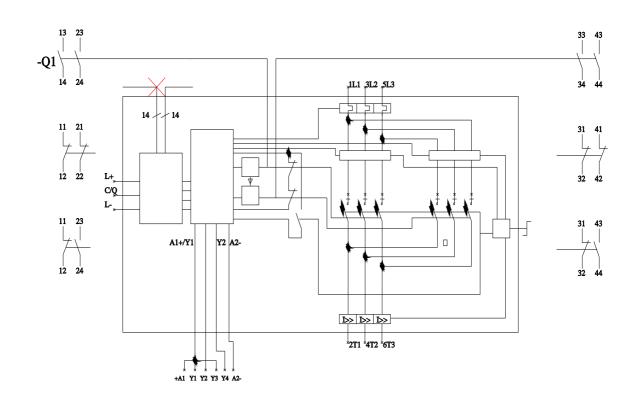
depth 165 mm Consistions?/remails product component removable terminal for main circuit Yes product component removable terminal for main circuit Yes of or main circuit connection screw-type terminals • for main circuit consections screw-type terminals • for main circuit consections screw-type terminals • for auxiliary contexts 2x (1 5 6 mm?) 1x 10 mm² • for auxiliary contexts 0.5 4 mm², 2x (0 5 1.5 mm²) • for auxiliary contexts 0.5 4 mm², 2x (0 5 1.5 mm²) • for AVIG cables for auxiliary contexts 2x (2 14) Safey related data 1500 000 product function his containing to SN 31920 1500 000 product function on the front according to SN 31920 1500 000 product function his containing to SN 31920 1500 000 product function on the front according to IEC 60529 Illipse rafe Communication Yes product function his containing to IEC 60529 Illipse rafe Communication Yes product function his containing to IEC 60529 Illipse rafe Contain traffic ex with IO Inix Ves product function cortid relates with IO Inix Yes product function cortid relates with IO Inix Yes product functiferere <	width	90 mm		
product component removable terminal for main circuit Yes product component removable terminal for auxiliary and control circuit Yes type of detectical connection screw-type terminals • tor main correct circuit screw-type terminals • for all correct circuit screw-type terminals • for all correct corrects screw-type terminals • for all corrects screw-type terminals • for all context or coss-sections for main contacts screw-type terminals - solid 0.5 4 mm², 2x (0.5 25 mm²) - solid 0.5 25 mm², Xi (0.5 15 mm²) - introl bits contacts screw-type terminals - solid 0.5 25 mm², Xi (0.5 15 mm²) - for All cables for axuliary contacts screw-type terminals - solid 1500 000 proportion of dangerous failures sol 300 • for All cables for axuliary contacts screw-type terminals - solid 1500 000 proportion of dangerous failures sol 300 • for Ho forta cocording to IEC 60629 finge-safe formanicaticad Protocol Yes protocol fauge supply via input/bu	depth	165 mm		
product component envolvable terminal for auxiliary and control circuit Yes type of electrical connection screw-type terminals i for naming and control circuit screw-type terminals i for auxiliary and control circuit screw-type terminals i for auxiliary and control circuit screw-type terminals i for auxiliary contactor cross-sections i for auxiliary contactor cross-sections i for auxiliary contactor cross-sections 0.5 4 mm ² , 2x (0.5 2.5 mm ²) i for auxiliary contactor 0.5 4 mm ² , 2x (0.5 1.5 mm ²) i for auxiliary contactor 0.5 2.5 mm ² , 2x (0.5 1.5 mm ²) i for auxiliary contactor 0.5 4 mm ² , 2x (0.5 1.5 mm ²) i for auxiliary contactor 0.5 2.5 mm ² , 2x (0.5 1.5 mm ²) i for auxiliary contactor 0.5 2.5 mm ² , 2x (0.5 1.5 mm ²) i for AWG cables for auxiliary contactor 0.5 2.5 mm ² , 2x (0.5 1.5 mm ²) i for auxiliary contactor of the fort according to IEC 60529 1500 000 product function but fort according to IEC 60529 1500 000 product function control circuit interface with 0 link. Yes ordinal for advector Yes product function control circuit interface with 0 link. Yes optical function backs communication Yes product functin control circuit interface with 0 link. Yes </td <td>Connections/ Terminals</td> <td></td> <td></td> <td></td>	Connections/ Terminals			
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• for max current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • solid 2x (1.5 6 mm ²), 1x 10 mm ² • finely stranded with core end processing 2x (1.5 6 mm ²), 1x 10 mm ² • finely stranded with core end processing 2x (1.5 6 mm ²) • or auxiliary contacts 0.5 4 mm ² , 2x (0.5 2.5 mm ²) • or auxiliary contacts 0.5 4 mm ² , 2x (0.5 1.5 mm ²) • or auxiliary contacts 0.5 4 mm ² , 2x (0.5 1.5 mm ²) • or auxiliary contacts 0.5 4 mm ² , 2x (0.5 1.5 mm ²) • or auxiliary contacts 50 % • or auxiliary conta		Yes		
for auxiliary and control circuit type of connectable conductor ross-sections for main contacts	type of electrical connection			
type of connectable conductor cross-sections for main contacts • solid	• for main current circuit	screw-type terminals		
 solid 2x (1 5 6 mm³), 1x 10 mm³ 2x (1 5 6 mm³), 1x 10 mm³ 2x (1 5 6 mm³) 2x (2 14) 2x (2 14)<	 for auxiliary and control circuit 	screw-type terminals		
• finely stranded with core end processing 2x (1.5 6 mm ²) • for availary contacts - solid • - solid 0.5 4 mm ² , 2x (0.5 2.5 mm ²) • for availary contacts 2x (2.0 14) Safety related data - solid B10 value with high demand rate according to SN 31920 1 500 000 propertion of dangerous failures - solid • with high demand rate according to IEC 60529 1920 forduet Water and Conductor Yes product function bus communication Yes product function bus communication Yes • orbit me address range of the inputs with cyclical transfer total 2 byte total - Solid Vice Water and UO-Link 2.5 ms total - of the address range of the outputs with cyclical transfer total 2 byte ordue to burst according to IEC 61000-4-4 4 kV main circuits, 2 kV louling vicitage with upstream overvoltage protection • due to conductor-earth surge according to IEC 61000-4-5 4 kV main circuits, 0.5 kV auxiliary circuits, 2 kV loulink, 2 kV limit switches, ine hand-bleid device • due to burst according to IEC 61000-4-3 8 0	type of connectable conductor cross-sections for main contacts			
type of connectable conductor cross-sections for auxiliary contacts - sold - for auxiliary contacts 0.5 2.5 mm², 2x (0.5 2.5 mm²) 5 2.5 m², 2x (0.5 2.5 m²) 5 2.5 m², 2x (0.5 2.5 m²)<!--</td--><td>• solid</td><td>2x (1.5 6 mm²), 1x 10 mm²</td><td></td><td></td>	• solid	2x (1.5 6 mm²), 1x 10 mm²		
• for auxiliary contacts	 finely stranded with core end processing 	2x (1.5 6 mm²)		
	type of connectable conductor cross-sections			
	 for auxiliary contacts 			
• for AWG cables for auxiliary contacts Safety related data Safety related Safety relat	— solid	0.5 4 mm², 2x (0.5 2.5 mm	n²)	
Safety related data B10 value with high demand rate according to SN 31920 1 500 000 proportion of dangerous failures 60 % • with high demand rate according to EC 60529 IP20 touch protection on the front according to IEC 60529 IP20 communication/ Protocol Yes protect function bus communication Yes protect function outrol circuit interface with IO link Yes of 0.1.ht protocol No • AS-Interface protocol No • IO-Link protocol Yes product function control circuit interface with IO link Yes Dol-Link transfer rate COM2 (38,4 kBaud) OL-Link transfer rate COM2 (38,4 kBaud) OL-Link device minimum 2.5 ms total of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total 2 byte • due to burst according to IEC 61000-4-4 4 kV main circuits, 2 kV auxiliary voltage with upstream overvoltage protection • due to burst according to IEC 61000-4-3 60300 MHz at 10V/m • due to burst according to IEC 61000-4-3 8kV • due to burst according to IEC 61000-4-3 8kV	 finely stranded with core end processing 	0.5 2.5 mm², 2x (0.5 1.5 n	nm²)	
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device minimum No type of voltage supply via input/output link master No data volume 2 byte • of the address range of the inputs with cyclical transfer total 2 byte • of the address range of the outputs with cyclical transfer total 2 byte • of the address range of the outputs with cyclical transfer total 2 byte Electromagnetic compatibility 2 byte conducted interference 4 kV main circuits, 2 kV auxiliary circuits, 2 kV IO-Link, 2 kV limit switches, line hand-held device • due to conductor-earth surge according to IEC 61000-4-5 4 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection • due to conductor-conductor surge according to IEC 61000-4-5 4 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection • due to high-frequency radiation according to IEC 61000-4-3 80 3000 MHz at 10V • due to high-frequency radiation according to IEC 61000-4-2 8 kV conducted HF interference emissions according to CISPR11 150 kHz 30 MHz Class A Supply voltage Yes Display Yes Display 5 display version as status display of the input/output link device green/red dual LED	IO-Link transfer rate	COM2 (38,4 kBaud)		
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61000-4-5 protection • 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 80 3000 MHz at 10V/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 Yes Display 7 number of LEDs 5 display version as status display of the input/output link device green/red dual LED Certificates/ approvals 5	• due to conductor-earth surge according to IEC 61000-4-5			
4-6 ielectrostatic discharge according to IEC 61000-4-3 80 3000 MHz at 10V/m electrostatic discharge according to IEC 61000-4-2 8 kV conducted HF interference emissions according to 150 kHz 30 MHz Class A field-bound HF interference emission according to CISPR11 30 1000 MHz Class A Supply voltage Yes Display Yes number of LEDs 5 display version as status display of the input/output link device green/red dual LED Certificates/ approvals Version as display of the input/output link device				
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CISPR11 ifield-bound HF interference emission according to CISPR11 30 1000 MHz Class A Supply voltage 30 1000 MHz Class A Supply voltage required Auxiliary voltage Yes Display Yes number of LEDs 5 display version as status display of the input/output link device green/red dual LED Certificates/ approvals Version according to Class A				
Supply voltage Yes Display The second se	CISPR11			
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Certificates/ approvals				
			EMC	Functional Safety/Safety of Ma- chinery

<u>Confirmation</u>			EAC	RCM		
Declaration of Confo	rmity	Test Certificates	Marine / Shipping			
CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	ABS	Lloyd's Register urs	PRS	
Marine / Shipping	other	Dangerous Good				
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