SIEMENS

Data sheet

3RA6500-1CB43



SIRIUS Compact load feeder Reversing starter for IO-Link 690 V 24 V DC 1...4 A IP20 Connection main circuit: plug-in, without terminals 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 	1 W
 at AC in hot operating state per pole 	0.33 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
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	1 4 A
formula for making capacity limit current	12 x le
formula for limit current breaking capacity	10 x le

yielded mechanical performance for 4-pole AC motor	
 at 400 V rated value 	1.5 kW
 at 500 V rated value 	2.2 kW
at 690 V rated value	3 kW
operating voltage at AC-3 rated value maximum	690 V
operational current	
• at AC at 400 V rated value	4 A
 at AC-3 at 400 V rated value 	4 A
• at AC-43	
— at 400 V rated value	3.6 A
— at 500 V rated value	3.9 A
— at 690 V rated value	3.8 A
operating power	
 at AC-3 at 400 V rated value 	1.5 kW
• at AC-43	
— at 400 V rated value	1 500 W
— at 500 V rated value	2 200 W
— at 690 V rated value	3 000 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	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 (lcs)	
• 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	4 A
• at 600 V rated value	4 A
yielded mechanical performance [hp] for 3-phase AC motor	
• at 200/208 V rated value	0.75 hp
• at 220/230 V rated value	0.75 hp
• at 460/480 V rated value	2 hp
• at 575/600 V rated value	3 hp
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

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	• due to burst according to IEC 61000-4-4				
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4-6 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 150 kHz 30 MHz Class A CISPR11 30 1000 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 Functional		2 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage			
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Supply voltage required Auxiliary voltage Yes Display	field-bound HF interference emission according to CISPR11	30 1000 MHz Class A			
Display 5 number of LEDs 5 display version as status display of the input/output link device green/red dual LED Certificates/ approvals Functional	Supply voltage				
number of LEDs 5 display version as status display of the input/output link device green/red dual LED Certificates/ approvals Functional	Supply voltage required Auxiliary voltage	Yes			
display version as status display of the input/output link device green/red dual LED Certificates/ approvals EMC Functional	Display				
Certificates/ approvals Conserval Product Approval Functional	number of LEDs	5			
Constal Product Approval	display version as status display of the input/output link device	green/red dual LED			
Conoral Product Approval	Certificates/ approvals				
	General Product Approval		EMC	Functional Safety/Safety of Ma-	

					chinery		
<u>Confirmation</u>			EHC	RCM			
Declaration of Confo	rmity	Test Certificates	Marine / Shipping				
UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	ABS	Lloyd's Register us	PRS		
Marine / Shipping	other	Dangerous Good					
	<u>Confirmation</u>	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=3RA6500-1CB43 Cax online generator							

Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6500-1CB43

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA6500-1CB43

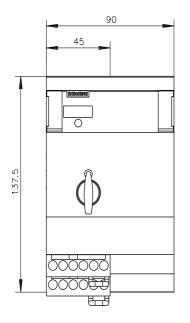
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

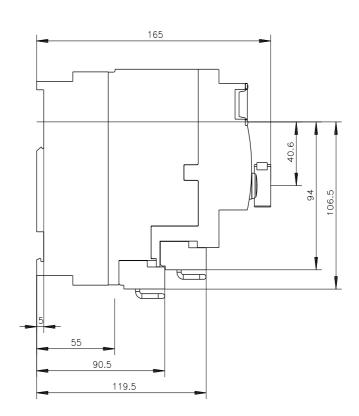
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6500-1CB43&lang=en

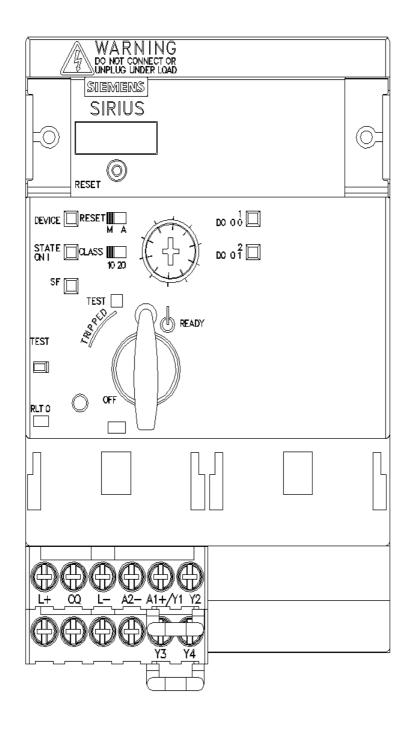
Characteristic: Tripping characteristics, I²t, Let-through current

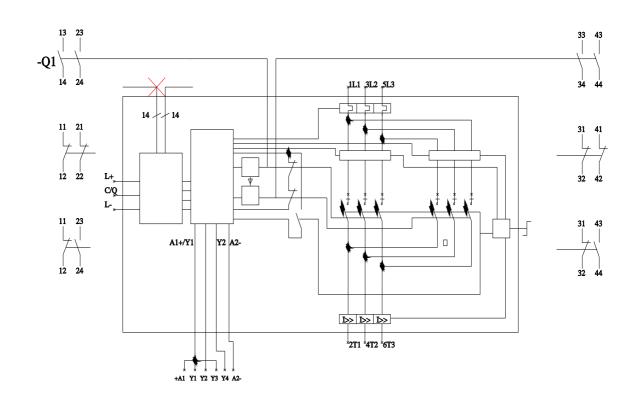
https://support.industry.siemens.com/cs/ww/en/ps/3RA6500-1CB43/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6500-1CB43&objecttype=14&gridview=view1









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