SIEMENS

Data sheet 3RA6400-2EB43



SIRIUS Compact load feeder DOL starter for IO-Link 690 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	direct starter		
product type designation	3RA64		
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		

yielded mechanical performance for 4-pole AC motor	
 at 400 V rated value 	15 kW
at 500 V rated value	11 kW
at 690 V rated value	11 kW
operating voltage at AC-3 rated value maximum	400 V
operational current	
 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
— at 500 V rated value	17.6 A
— at 690 V rated value	12.8 A
operating power	
at AC-3 at 400 V rated value	15 kW
• at AC-43	
— at 400 V rated value	15 000 W
— at 500 V rated value	11 000 W
— at 690 V rated value	11 000 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	250 1/11
	DC
type of voltage	DC
control supply voltage 1	041/
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
 at 500 V rated value 	1 kA
 at 690 V rated value 	1 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
	Cicculottiagricus
design of the fuse link	fund at /aC: 10 A
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	191 mm

width	45 mm				
depth	165 mm				
Connections/ Terminals					
product component removable terminal for main circuit	Yes				
product component removable terminal for auxiliary and control circuit	Yes				
type of electrical connection					
for main current circuit	plug-in without terminals				
for auxiliary and control circuit	spring-loaded terminals				
type of connectable conductor cross-sections for main contacts					
• solid	2x (2.5 6 mm²), 1x 10 mm²				
 finely stranded with core end processing 	2x (2.5 6 mm²)				
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	2 000 000				
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 device minimum	2.5 ms				
type of voltage supply via input/output link master	No				
data volume					
 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				
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 due to conductor conductor surge according to IEC.	4 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection				
 due to conductor-conductor surge according to IEC 61000-4-5 	2 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage 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					
Supply voltage required Auxiliary voltage	Yes				
Display					
number of LEDs	3				
display version as status display of the input/output link device Certificates/ approvals	green/red dual LED				
Gertificates/ approvais			Functional		
General Product Approval		EMC	Safety/Safety of Ma-		

Confirmation











Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

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=3RA6400-2EB43

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6400-2EB43

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA6400-2EB43

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

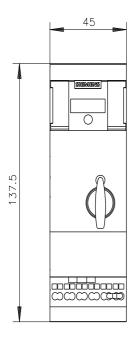
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6400-2EB43&lang=en

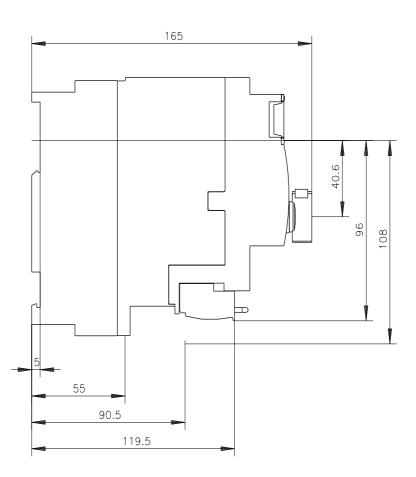
Characteristic: Tripping characteristics, I²t, Let-through current

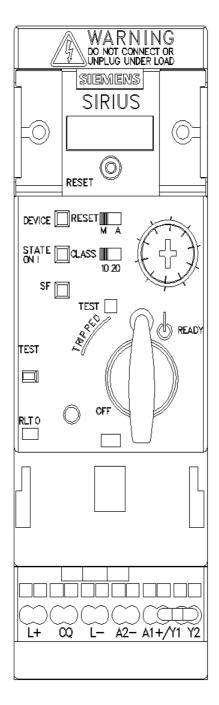
 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RA6400-2EB43/char}$

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6400-2EB43&objecttype=14&gridview=view1







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