SIEMENS

Data sheet

3RA6400-2CB42



SIRIUS compact starter direct-on-line starter for IO-Link 690 V 24 V DC 1...4 A IP20 connection main circuit: spring-loaded terminal connection control circuit: spring-loaded terminal "phase-out type" alternative 3RK1308 or 3RA8

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 	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				
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2				
Weight	1.473 kg				
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-	1 4 A				

dependent overload release			
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		
control supply voltage 1 at DC	24 24 V		
holding power			
at DC maximum	2.9 W		
Auxiliary circuit			
Auxiliary circuit number of NC contacts for auxiliary contacts	0		
	0 0		
number of NC contacts for auxiliary contacts			
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for	0		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload	0 0		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact	0 0 0		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum	0 0 0 10 A		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V	0 0 0 10 A		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions	0 0 0 10 A 0.27 A		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class	0 0 0 10 A 0.27 A		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class operating short-circuit current breaking capacity (Ics)	0 0 10 A 0.27 A CLASS 10 and 20 adjustable		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class operating short-circuit current breaking capacity (Ics) • at 400 V rated value	0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class operating short-circuit current breaking capacity (Ics) • at 400 V rated value • at 500 V rated value	0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class operating short-circuit current breaking capacity (lcs) • at 400 V rated value • at 500 V rated value • at 690 V rated value	0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class operating short-circuit current breaking capacity (Ics) • at 400 V rated value • at 690 V rated value • at 690 V rated value	0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class operating short-circuit current breaking capacity (lcs) • at 400 V rated value • at 690 V rated value	0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class operating short-circuit current breaking capacity (lcs) • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 480 V rated value	0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class operating short-circuit current breaking capacity (Ics) • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 480 V rated value	0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class operating short-circuit current breaking capacity (Ics) • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 600 V rated value	0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 4 A 4 A		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class operating short-circuit current breaking capacity (Ics) • at 400 V rated value • at 690 V rated value • at 600 V rated value	0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 4 A 4 A 4 A		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class operating short-circuit current breaking capacity (Ics) • at 400 V rated value • at 690 V rated value • at 680 V rated value • at 600 V rated value • at 480 V rated value • at 200 V rated value • at 200 V rated value • at 200 V rated value • at 200/208 V rated value • at 220/230 V rated value	0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 4 A 4 A 4 A 0.75 hp 0.75 hp		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class operating short-circuit current breaking capacity (Ics) • at 400 V rated value • at 690 V rated value • at 680 V rated value • at 680 V rated value • at 480 V rated value • at 600 V rated value • at 200/208 V rated value • at 460/480 V rated value	0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 3 kA 2 hp		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class operating short-circuit current breaking capacity (Ics) • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 600 V rated value • at 6	0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 3 kA 2 hp		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class operating short-circuit current breaking capacity (Ics) • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 200/208 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 575/600 V rated value	0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 4 A 4 A 4 A 4 A 9.75 hp 0.75 hp 0.75 hp 0.75 hp 1.75 hp 1.75 hp		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class operating short-circuit current breaking capacity (Ics) • at 400 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 480 V rated value • at 200/208 V rated value • at 460/480 V rated value • at 575/600 V rated value	0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 4 A 4 A 4 A 0.75 hp 0.75 hp 2 hp 3 hp		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class operating short-circuit current breaking capacity (Ics) • at 400 V rated value • at 690 V rated value • at 600 V rated value • at 600 V rated value • at 480 V rated value • at 200/208 V rated value • at 460/480 V rated value • at 575/600 V rated value	0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 4 A 4 A 4 A 4 A 9 0.75 hp 0.75 hp 0.75 hp 2 hp 3 hp Yes electromagnetic		
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class operating short-circuit current breaking capacity (Ics) • at 400 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 480 V rated value • at 200/208 V rated value • at 460/480 V rated value • at 575/600 V rated value	0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 4 A 4 A 4 A 0.75 hp 0.75 hp 0.75 hp 2 hp 3 hp		

mounting position	2014
mounting position mounting position recommended	any 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 	spring-loaded terminals
 for auxiliary and control circuit 	spring-loaded terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (1.5 6 mm²), 1x 10 mm²
 finely stranded with core end processing 	2x (1.5 6 mm²)
finely stranded without core end processing	2x (1.5 6 mm²)
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.25 1.5 mm ²)
 finely stranded with core end processing 	2x (0.25 1.5 mm ²)
 finely stranded without core end processing for AWC cobles for auxiliany contacts 	2x (0.25 1.5 mm²)
for AWG cables for auxiliary contacts Safety related data	2x (24 16)
proportion of dangerous failures	50 %
with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920	3 000 000
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe
Communication/ Protocol	3
product function bus communication	Yes
product function bus communication protocol is supported	Yes
•	Yes
protocol is supported	
Protocol is supported AS-Interface protocol	No
 protocol is supported AS-Interface protocol IO-Link protocol 	No Yes
protocol is supported AS-Interface protocol IO-Link protocol product function control circuit interface with IO link	No Yes Yes COM2 (38,4 kBaud) 2.5 ms
protocol is supported • AS-Interface protocol • IO-Link protocol product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link device minimum type of voltage supply via input/output link master	No Yes Yes COM2 (38,4 kBaud)
protocol is supported • AS-Interface protocol • IO-Link protocol product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link device minimum type of voltage supply via input/output link master data volume	No Yes Yes COM2 (38,4 kBaud) 2.5 ms No
protocol is supported • AS-Interface protocol • IO-Link protocol product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link device minimum type of voltage supply via input/output link master data volume • of the address range of the inputs with cyclical transfer total	No Yes Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte
protocol is supported • AS-Interface protocol • IO-Link protocol product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link device minimum type of voltage supply via input/output link master data volume • of the address range of the inputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total	No Yes Yes COM2 (38,4 kBaud) 2.5 ms No
protocol is supported • AS-Interface protocol • IO-Link protocol product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link device minimum type of voltage supply via input/output link master data volume • of the address range of the inputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total Electromagnetic compatibility	No Yes Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte
protocol is supported • AS-Interface protocol • IO-Link protocol product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link device minimum type of voltage supply via input/output link master data volume • of the address range of the inputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total	No Yes Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte 2 byte
protocol is supported • AS-Interface protocol • IO-Link protocol product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link device minimum type of voltage supply via input/output link master data volume • of the address range of the inputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total Electromagnetic compatibility	No Yes Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte
protocol is supported • AS-Interface protocol • IO-Link protocol product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link device minimum type of voltage supply via input/output link master data volume • of the address range of the inputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • due to burst according to IEC 61000-4-4 • due to burst according to IEC 61000-4-5 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC	No Yes Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte 2 byte 4 kV main circuits, 2 kV auxiliary circuits, 2 kV IO-Link, 2 kV limit switches, 2 kV 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
protocol is supported • AS-Interface protocol • IO-Link protocol product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link device minimum type of voltage supply via input/output link master data volume • of the address range of the inputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • due to burst according to IEC 61000-4-4 • due to burst according to IEC 61000-4-5	No Yes Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte 2 byte 4 kV main circuits, 2 kV auxiliary circuits, 2 kV IO-Link, 2 kV limit switches, 2 kV 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
protocol is supported • AS-Interface protocol • IO-Link protocol product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link device minimum type of voltage supply via input/output link master data volume • of the address range of the inputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • due to compatibility conducted interference • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor 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	No Yes Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte 2 byte 2 byte 4 kV main circuits, 2 kV auxiliary circuits, 2 kV IO-Link, 2 kV limit switches, 2 kV 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
protocol is supported • AS-Interface protocol • IO-Link protocol product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link device minimum type of voltage supply via input/output link master data volume • of the address range of the inputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • due to compatibility conducted interference • 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	No Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte 2 byte 2 byte 4 kV main circuits, 2 kV auxiliary circuits, 2 kV IO-Link, 2 kV limit switches, 2 kV 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 2 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection 0.15-80Mhz at 10V 80 3000 MHz at 10V/m
protocol is supported • AS-Interface protocol • IO-Link protocol product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link device minimum type of voltage supply via input/output link master data volume • of the address range of the inputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • due to compatibility conducted interference • 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	No Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte 2 byte 2 byte 4 kV main circuits, 2 kV auxiliary circuits, 2 kV IO-Link, 2 kV limit switches, 2 kV 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
protocol is supported • AS-Interface protocol • IO-Link protocol product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link device minimum type of voltage supply via input/output link master data volume • of the address range of the inputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • due to burst according to IEC 61000-4-4 • 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	No Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte 2 byte 2 byte 4 kV main circuits, 2 kV auxiliary circuits, 2 kV IO-Link, 2 kV limit switches, 2 kV 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/m 8 kV 150 kHz 30 MHz Class A
protocol is supported • AS-Interface protocol • IO-Link protocol product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link device minimum type of voltage supply via input/output link master data volume • of the address range of the inputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • due to burst according to IEC 61000-4-4 • 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 61000-4-3 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11	No Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte 2 byte 2 byte 4 kV main circuits, 2 kV auxiliary circuits, 2 kV IO-Link, 2 kV limit switches, 2 kV 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
protocol is supported • AS-Interface protocol • IO-Link protocol product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link device minimum type of voltage supply via input/output link master data volume • of the address range of the inputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • due to compatibility conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-conductor 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 61000-4-3 electrostatic discharge according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11 Supply voltage	No Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte 2 byte 2 byte 4 kV main circuits, 2 kV auxiliary circuits, 2 kV IO-Link, 2 kV limit switches, 2 kV 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 30 1000 MHz Class A
protocol is supported • AS-Interface protocol • IO-Link protocol product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link device minimum type of voltage supply via input/output link master data volume • of the address range of the inputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • due to burst according to IEC 61000-4-4 • 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 61000-4-3 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11	No Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte 2 byte 2 byte 4 kV main circuits, 2 kV auxiliary circuits, 2 kV IO-Link, 2 kV limit switches, 2 kV 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/m 8 kV 150 kHz 30 MHz Class A

number of LEDs		3				
display version as status display of the input/output link device		put link device gre	green/red dual LED			
Approvals Certificates						
General Product App	proval					
	CE EG-Konf.	UK CA	<u>Confirmation</u>	U	EHC	
EMV	Functional Saftey	Test Certificates	other	Dangerous goods	Environment	
RCM		<u>Type Test Certific-</u> ates/Test Report	<u>Confirmation</u>	Transport Information	Environmental Con- firmations	

Further information

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=3RA6400-2CB42

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6400-2CB42

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA6400-2CB4

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

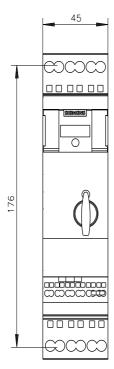
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6400-2CB42&lang=en

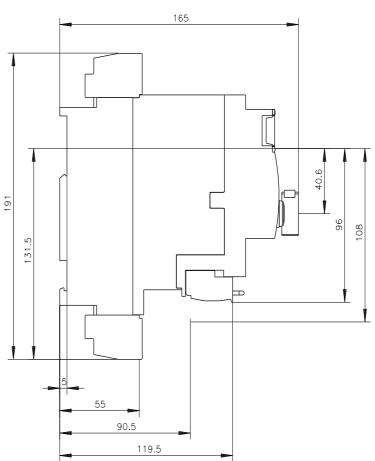
Characteristic: Tripping characteristics, I2t, Let-through current

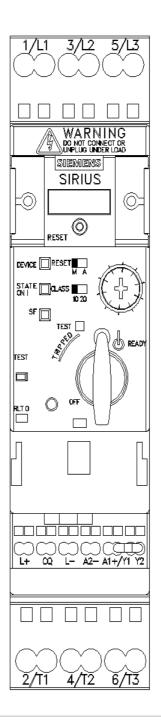
https://support.industry.siemens.com/cs/ww/en/ps/3RA6400-2CB42/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6400-2CB42&objecttype=14&gridview=view1







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