SIEMENS

Data sheet

3RA6400-2DB42



SIRIUS Compact load feeder DOL starter for IO-Link 690 V 24 V DC 3...12 A IP20 Connection main circuit: Spring-type terminal 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 	1.8 W			
 at AC in hot operating state per pole 	0.6 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-	3 12 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	5.5 kW
• at 500 V rated value	5.5 kW
at 690 V rated value	7.5 kW
operating voltage at AC-3 rated value maximum	690 V
operational current	
 at AC at 400 V rated value 	12 A
 at AC-3 at 400 V rated value 	12 A
• at AC-43	
— at 400 V rated value	11.5 A
— at 500 V rated value	12.4 A
— at 690 V rated value	8.9 A
operating power	
 at AC-3 at 400 V rated value 	5.5 kW
• at AC-43	
— at 400 V rated value	5 500 W
— at 500 V rated value	5 500 W
— at 690 V rated value	7 500 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
	0
number of NO contacts for auxiliary contacts	
number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact	0
number of NO contacts of instantaneous short-circuit trip unit for	
number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload	0
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
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 10 A
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 10 A
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 10 A 0.27 A
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 10 A 0.27 A
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 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 • at 500 V rated value	0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA
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 • at 500 V rated value • at 690 V rated value	0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA
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 • at 500 V rated value • at 690 V rated value UL/CSA ratings	0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA
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 • at 500 V rated value • at 690 V rated value • at 690 V rated value UL/CSA ratings full-load current (FLA) for 3-phase AC motor	0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA
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 • at 500 V rated value • at 690 V rated value UL/CSA ratings full-load current (FLA) for 3-phase AC motor • 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 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 • at 500 V rated value • at 690 V rated value UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 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
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 • at 500 V rated value • at 690 V rated value • at 690 V rated value UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 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 12 A 12 A
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 • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 480 V rated value • at 480 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 12 A 12 A 12 A 12 A 13 hp
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 • at 500 V rated value • at 690 V rated value UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 200/208 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 12 A 12 A 12 A 12 A 13 hp 3 hp
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 • at 500 V rated value • at 690 V rated value • at 690 V rated value UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 220/208 V rated value • at 220/230 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 3 hA 12 A 12 A 12 A 12 A 12 A 12 A 12 A
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 • at 500 V rated value • at 690 V rated value UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 220/230 V rated value • at 220/230 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 12 A 12 A 12 A 12 A 13 hp 3 hp
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 • at 500 V rated value • at 690 V rated value UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 220/230 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value Short-circuit protection	0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 12 A 12 A 12 A 13 hp 3 hp 7.5 hp 10 hp
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 • at 500 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 480 V rated value • at 600 V rated value • at 600 V rated value • at 200/208 V rated value • at 220/230 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 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 3 kA 3 hA 12 A 12 A 12 A 12 A 12 A 12 A 12 A
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 • at 500 V rated value • at 690 V rated value • at 690 V rated value UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 220/230 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 575/600 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 12 A 12 A 12 A 13 hp 3 hp 7.5 hp 10 hp
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 • at 500 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 480 V rated value • at 600 V rated value • at 600 V rated value • at 200/208 V rated value • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 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 12 A 12 A 12 A 12 A 12 A 12 A 12 A 12 A 14 A 15 hp 3 hp 7.5 hp 10 hp

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 	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 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	3 000 000			
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	Yes			
•	No			
 protocol is supported AS-Interface protocol IO-Link protocol 				
protocol is supported AS-Interface protocol IO-Link protocol product function control circuit interface with IO link	No Yes Yes			
protocol is supported AS-Interface protocol IO-Link protocol product function control circuit interface with IO link IO-Link transfer rate 	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	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	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	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 • 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 Electromagnetic compatibility conducted interference • due to burst according to IEC 61000-4-4	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			
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 conductor-earth surge according to IEC 61000-4-5	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			
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 61000-4-4 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5	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			
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 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	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 • 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 61000-4-6 field-based interference according to IEC 61000-4-3	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			
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 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	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 • 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 61000-4-6 field-based interference according to IEC 61000-4-3	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/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 • 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 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to	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 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 e 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 80 3000 MHz 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/m 80 3000 MHz at 10V/m 8 kV 150 kHz 30 MHz Class A			

number of LEDs		3	3			
display version as status display of the input/output link device		tput link device gree	green/red dual LED			
Certificates/ approvals						
General Product App	proval			EMC	Functional Safety/Safety of Ma- chinery	
<u>Confirmation</u>		(UL)	EHC	RCM		
Declaration of Confo	ormity	Test Certificates	Marine / Shipping			
C E EG-Konf.	UK CA	Type Test Certific- ates/Test Report	ABS	Llovd's Register uis	PRS	
Marine / Shipping	other	Dangerous Good				
RINA	<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=3RA6400-2DB42

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6400-2DB42

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA6400-2DB42

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

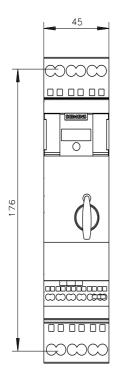
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6400-2DB42&lang=en

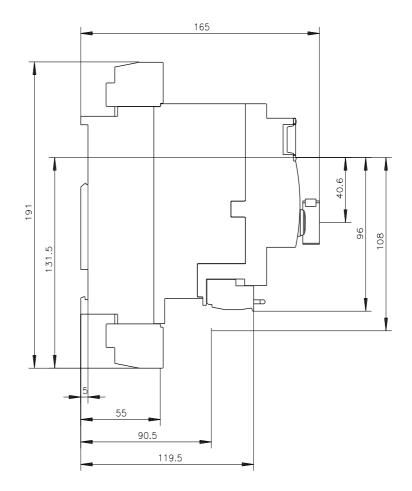
Characteristic: Tripping characteristics, I²t, Let-through current

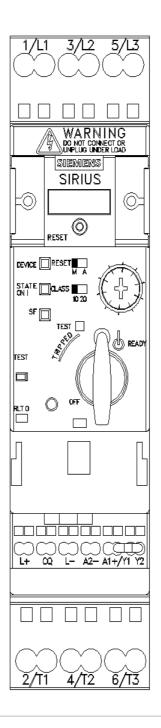
https://support.industry.siemens.com/cs/ww/en/ps/3RA6400-2DB42/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6400-2DB42&objecttype=14&gridview=view1







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