SIEMENS

Data sheet 3RA6400-2DB42



SIRIUS compact starter direct-on-line starter for IO-Link 690 V 24 V DC 3...12 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 	1.8 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/s ² ; 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	1.474 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-	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	C.C IVI
— 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	250 1/11
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	27 27 V
	0.011
at DC maximum	2 9 W
at DC maximum Auxiliary circuit	2.9 W
Auxiliary circuit	
Auxiliary circuit number of NC contacts for auxiliary contacts	0
Auxiliary circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	0
Auxiliary circuit number of NC contacts for auxiliary contacts	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
Auxiliary circuit 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
Auxiliary circuit 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 0 0
Auxiliary circuit 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
Auxiliary circuit 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 0 10 A 0.27 A
Auxiliary circuit 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 0 0
Auxiliary circuit 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 0 0 10 A 0.27 A
Auxiliary circuit 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 0 0 10 A 0.27 A CLASS 10 and 20 adjustable
Auxiliary circuit 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 0 10 A 0.27 A CLASS 10 and 20 adjustable
Auxiliary circuit 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 • at 690 V rated value	0 0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable
Auxiliary circuit 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 ULL/CSA ratings	0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable
Auxiliary circuit 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 • at 690 V rated value UL/CSA ratings full-load current (FLA) for 3-phase AC motor	0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable
Auxiliary circuit 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 • at 690 V rated value UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA
Auxiliary circuit 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 UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value	0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable
Auxiliary circuit 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 • 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 vielded mechanical performance [hp] for 3-phase AC motor	0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA
Auxiliary circuit 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 • 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 vielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value	0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 12 A 12 A
Auxiliary circuit 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 • 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 yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value	0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 12 A 12 A 12 A
Auxiliary circuit 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 • at 690 V rated value UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 460/480 V rated value • at 460/480 V rated value	0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 12 A 12 A 12 A
Auxiliary circuit 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 • at 690 V rated value UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value vielded mechanical performance [hp] for 3-phase AC motor • 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 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 12 A 12 A 12 A
Auxiliary circuit 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 • 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 vielded mechanical performance [hp] for 3-phase AC motor • 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 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 10 hp
Auxiliary circuit 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 • 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 yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 200/208 V rated value • at 460/480 V rated value • at 575/600 V rated value Short-circuit protection product function short circuit protection	0 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 17.5 hp 10 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 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 vielded mechanical performance [hp] for 3-phase AC motor • 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 Short-circuit protection product function short circuit protection design of short-circuit protection	0 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 10 hp
Auxiliary circuit 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 at 690 V rated value IUL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor at 200/208 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 for the fuse link	0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 3 kA 12 A 12 A 12 A 19 A 10 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 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 vielded mechanical performance [hp] for 3-phase AC motor • 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 Short-circuit protection product function short circuit protection design of short-circuit protection	0 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 17.5 hp 10 hp

mounting position	any
mounting position 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	
proportion of dangerous failures	
with high demand rate according to SN 31920	50 %
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	
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
product function control circuit interface with IO link IO-Link transfer rate	Yes COM2 (38,4 kBaud)
product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link	Yes
product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link device minimum	Yes COM2 (38,4 kBaud) 2.5 ms
product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link	Yes COM2 (38,4 kBaud)
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	Yes COM2 (38,4 kBaud) 2.5 ms
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	Yes COM2 (38,4 kBaud) 2.5 ms No
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	Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte
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	Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte
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 conducted interference	Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte 2 byte
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	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
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 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5	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
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 conducted interference • 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	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
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 conducted interference • 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	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 0.15-80Mhz at 10V
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 conducted interference • 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	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 0.15-80Mhz at 10V 80 3000 MHz at 10V/m
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 conducted interference • 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 61000-4-2 electrostatic discharge according to IEC 61000-4-2	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 0.15-80Mhz at 10V 80 3000 MHz at 10V/m 8 kV
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 conducted interference • 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	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 0.15-80Mhz at 10V 80 3000 MHz at 10V/m
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 conducted interference • 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 61000-4-6 field-based interference according to IEC 61000-4-2 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to	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 0.15-80Mhz at 10V 80 3000 MHz at 10V/m 8 kV
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 conducted interference • 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 61000-4-6 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11	Yes COM2 (38,4 kBaud) 2.5 ms No 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
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 conducted interference • 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 61000-4-6 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11	Yes COM2 (38,4 kBaud) 2.5 ms No 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
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 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth 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 field-bound HF interference emission according to CISPR11 Supply voltage	Yes COM2 (38,4 kBaud) 2.5 ms No 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

number of LEDs

3

display version as status display of the input/output link device

green/red dual LED

Approvals Certificates

General Product Approval



Confirmation









EMV

Functional Saftey

Test Certificates

other

Dangerous goods

Environment





Type Test Certificates/Test Report

Confirmation

Transport Information

Environmental Confirmations

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=3RA6400-2DB42

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, ...)

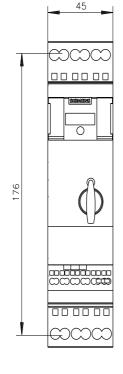
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6400-2DB42&lang=en

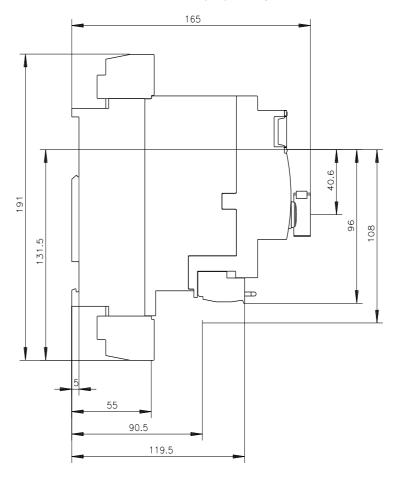
Characteristic: Tripping characteristics, I²t, Let-through current

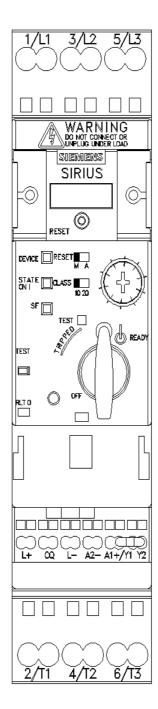
https://support.industry.siemens.com/cs/ww/en/ps/3RA6400-2DB42/char

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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