SIEMENS

Data sheet 3RA6400-1BB43



SIRIUS Compact load feeder DOL starter for IO-Link 690 V 24 V DC 0.32...1.25 A IP20 Connection main circuit: plug-in, without terminals Connection control circuit: screw terminal

Compact starter for IO-Link	product brand name	SIRIUS
Seneral technical data Product function control circuit interface to parallel wiring product exension auxiliary switch Yes	product designation	Compact starter for IO-Link
product function control circuit interface to parallel wiring product extension auxiliary switch power loss [W] for rated value of the current at AC in hot operating state • per pole power loss [W] for rated value of the current without load current share typical insulation voltage rated value degree of pollution surge voltage resistance rated value degree of protection NEMA rating shock resistance vibration resistance in the main contacts typical of auxiliary contacts typical at AC-15 at 6 A at 24 V typical at AC-15 at 6 A at 230 V typical type of assignment reference code acc. to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation ambient temperature during operation elactive in the first in	design of the product	direct starter
product function control circuit interface to parallel wiring product extension auxiliary switch power loss [W] for rated value of the current at AC in hot operating state • per pole power loss [W] for rated value of the current without load current share typical insulation voltage rated value degree of pollution 3 surge voltage resistance rated value degree of protection NEMA rating shock resistance vibration resistance • of the main contacts typical of duxiliary contacts typical of the signaling contacts typ	product type designation	3RA64
product extension auxiliary switch power loss [W] for rated value of the current at AC in hot operating state • per pole • per pole • per pole • power loss [W] for rated value of the current without load current share typical insulation voltage rated value • degree of pollution surge voltage resistance rated value • degree of protection NEMA rating shock resistance shock resistance • of the main contacts typical • of the main contacts typical • of the signaling contacts typical • of the signaling contacts typical • of auxiliary contacts typical • of the signaling contacts typical • of at NC-13 at 6 A at 24 V typical • at DC-13 at 6 A at 24 V typical • at DC-13 at 6 A at 230 V typical • at DC-13 at 6 A at 230 V typical • at DC-15 at 6 A at 230 V typical • at DC-15 at 6 A at 230 V typical • at DC-15 at 6 A at 24 V typical • at DC-15 at 6 A at 24 V typical • at DC-15 at 6 A at 250 V typical • at	General technical data	
power loss [W] for rated value of the current at AC in hot operating state • per pole power loss [W] for rated value of the current without load current share typical insulation voltage rated value degree of pollution surge voltage resistance rated value degree of protection NEMA rating shock resistance vibration resistance fe 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (switching cycles) • of the main contacts typical • of the signaling contacts typical • of the provided the provid	product function control circuit interface to parallel wiring	No
operating state oper pole power loss IWI for rated value of the current without load current share typical insulation voltage rated value degree of pollution surge voltage resistance rated value degree of protection NEMA rating shock resistance shock resistance vibration resistance mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical of the signaling contacts typical of the main contacts typica	product extension auxiliary switch	Yes
power loss [W] for rated value of the current without load current share typical insulation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 6000 V other spring voltage resistance rated value 6000 V other resistance rated value 6000 V other spring voltage resistance resista		0.1 W
insulation voltage rated value degree of pollution surge voltage resistance rated value degree of protection NEMA rating shock resistance vibration resistance vibration resistance fe 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (switching cycles) of the main contacts typical of the signaling contacts typical of the signaling contacts typical electrical endurance (switching cycles) of auxiliary contacts at DC-13 at 6 A at 24 V typical at AC-15 at 6 A at 230 V typical type of assignment reference code acc. to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature during storage ambient temperature during storage ambient temperature during transport relative humidity during operation Main circuit number of poles for main current circuit 3 other above contacts 10 000 000 1	• per pole	0.03 W
degree of pollution surge voltage resistance rated value degree of protection NEMA rating 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 (switching cycles) of the main contacts typical of the signaling contacts typical of the main contacts typical of the signaling contacts typica		2.9 W
surge voltage resistance rated value degree of protection NEMA rating shock resistance vibration resistance vibration resistance of the main contacts typical of the signaling contacts typical of the signaling contacts typical of the signaling contacts typical of at DC-13 at 6 A at 24 V typical at AC-15 at 6 A at 230 V typical vibration esistance of the signaling contacts typical of the main contacts typical of the min contitions of the signaling contacts typical of the min contition of the signaling contacts typical of the min contition of the signaling contacts typical of the min contact typical of the signaling contacts typical of the min contact typical of the min contact typical of the min contact typical of the min contacts typical of the min contact typical of the min (a 10 000 000 of the signaling contacts typical of the min contact typical of t	insulation voltage rated value	690 V
degree of protection NEMA rating shock resistance vibration resistance of the main contacts typical of the signaling contacts typical electrical endurance (switching cycles) of auxiliary contacts • at DC-13 at 6 A at 24 V typical • at AC-15 at 6 A at 230 V typical type of assignment reference code acc. to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum • ambient temperature during poeration Main circuit number of poles for main current circuit a 10 000 000 10 000 000 10 000 000 10 000 00	degree of pollution	3
shock resistance vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical lectrical endurance (switching cycles) of auxiliary contacts at DC-13 at 6 A at 24 V typical at AC-15 at 6 A at 230 V typical continues operation according to IEC 60947-6-2 reference code acc. to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation ambient temperature during storage ambient temperature during storage ambient temperature during transport relative humidity during operation mumber of poles for main current circuit 3 a 600 000 10 000 000 10 000 000 10 000 000 10 000 00	surge voltage resistance rated value	6 000 V
wibration resistance mechanical service life (switching cycles) of the main contacts typical of the signaling contacts typical lelectrical endurance (switching cycles) at DC-13 at 6 A at 24 V typical at AC-15 at 6 A at 230 V typical of assignment continous operation according to IEC 60947-6-2 gubstance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation ambient temperature during storage ambient temperature during operation ambient condition during operation ambient temperature during storage ambient temperature during operation ambient during operation ambient temperature during operation ambient temperature during transport ambient temperature during operation ambient temperature during transport ambient temperature during transport ambient temperature during transport ambient temperature during operation ambient temperature during transport ambient conditions ambient temperature during transport ambient temperature during transport ambient temperature during transport ambient conditions a	degree of protection NEMA rating	other
mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical of the signaling contacts typical ontacts electrical endurance (switching cycles) of auxiliary contacts ontacts ontacts at DC-13 at 6 A at 24 V typical at AC-15 at 6 A at 230 V typical ontacts type of assignment continous operation according to IEC 60947-6-2 reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation ambient temperature during storage ambient temperature during storage ambient temperature during transport relative humidity during operation Main circuit number of poles for main current circuit 10 000 000 10 000 000 000 000 000 00	shock resistance	a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes
of the main contacts typical of auxiliary contacts typical of the signaling contacts of the sig	vibration resistance	f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s ² ; 10 cycles
of auxiliary contacts typical of the signaling contacts typical electrical endurance (switching cycles) of auxiliary contacts o at DC-13 at 6 A at 24 V typical o at AC-15 at 6 A at 230 V typical other of assignment continous operation according to IEC 60947-6-2 reference code acc. to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum o ambient temperature during operation o ambient temperature during storage o ambient temperature during transport relative humidity during operation Main circuit number of poles for main current circuit 10 000 000 10 000 000 10 000 000 10 000 00	mechanical service life (switching cycles)	
of the signaling contacts typical electrical endurance (switching cycles) of auxiliary contacts at DC-13 at 6 A at 24 V typical at AC-15 at 6 A at 230 V typical type of assignment continous operation according to IEC 60947-6-2 reference code acc. to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation ambient temperature during storage ambient temperature during transport relative humidity during operation Main circuit number of poles for main current circuit 3 0 000 30 000 200 0	 of the main contacts typical 	10 000 000
electrical endurance (switching cycles) of auxiliary contacts • at DC-13 at 6 A at 24 V typical • at AC-15 at 6 A at 230 V typical type of assignment continous operation according to IEC 60947-6-2 Reference code acc. to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum • ambient temperature during operation • ambient temperature during storage • ambient temperature during transport relative humidity during operation Main circuit number of poles for main current circuit 3 30 000 30 000 200 000 200 000 Continous operation according to IEC 60947-6-2 Q Q Substance Prohibitance (Date) 01.05.2012 00:00:00 A continous operation according to IEC 60947-6-2 Q Substance Prohibitance (Date) 01.05.2012 00:00:00 Continous operation according to IEC 60947-6-2 Q Substance Prohibitance (Date) 01.05.2012 00:00:00 The continous operation according to IEC 60947-6-2 Q Substance Prohibitance (Date) 01.05.2012 00:00:00 The continous operation according to IEC 60947-6-2 Q Substance Prohibitance (Date) 01.05.2012 00:00:00 The continous operation according to IEC 60947-6-2 Q Substance Prohibitance (Date) 01.05.2012 00:00:00 The continous operation according to IEC 60947-6-2 Q Substance Prohibitance (Date) 01.05.2012 00:00:00 The continous operation according to IEC 60947-6-2 Q Substance Prohibitance (Date) 01.05.2012 00:00:00 The continous operation according to IEC 60947-6-2 Q Substance Prohibitance (Date) 10.05.2012 00:00:00 The continous operation according to IEC 60947-6-2 Q Substance Prohibitance (Date) 10.05.2012 00:00:00 The continous operation according to IEC 60947-6-2 Q Substance Prohibitance (Date) 10.05.2012 00:00:00 The continous operation according to IEC 60947-6-2 Q Substance Prohibitance (Date) 10.05.2012 00:00:00 The continous operation according to IEC 60947-6-2 Reference Code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 10.05.2012 00:00:00 The continous operation according to IEC 60947-6-2 T	 of auxiliary contacts typical 	10 000 000
ontacts output at DC-13 at 6 A at 24 V typical output at AC-15 at 6 A at 230 V typical type of assignment reference code acc. to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum output output ambient temperature during operation output ambient temperature during storage output ambient temperature during transport relative humidity during operation Main circuit number of poles for main current circuit 30 000 200 000 continous operation according to IEC 60947-6-2 Q 01.05.2012 00:00:00 01.05.2012 00:00:00 02 +60 °C -55 +80 °C	of the signaling contacts typical	10 000 000
 at AC-15 at 6 A at 230 V typical type of assignment continous operation according to IEC 60947-6-2 reference code acc. to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation ambient temperature during storage ambient temperature during transport sambient temperature during transport 55 +80 °C relative humidity during operation 90 % Main circuit number of poles for main current circuit 	` ,	
type of assignment continous operation according to IEC 60947-6-2 reference code acc. to IEC 81346-2 Substance Prohibitance (Date) 01.05.2012 00:00:00 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature during operation -20 +60 °C ambient temperature during storage -55 +80 °C ambient temperature during transport -55 +80 °C relative humidity during operation 10 90 % Main circuit number of poles for main current circuit 3	 at DC-13 at 6 A at 24 V typical 	30 000
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum • ambient temperature during operation • ambient temperature during storage • ambient temperature during transport -55 +80 °C relative humidity during operation 10 90 % Main circuit number of poles for main current circuit 3	at AC-15 at 6 A at 230 V typical	200 000
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum • ambient temperature during operation • ambient temperature during storage • ambient temperature during transport • ambient temperature during transport -55 +80 °C relative humidity during operation 10 90 % Main circuit number of poles for main current circuit 3		continous operation according to IEC 60947-6-2
installation altitude at height above sea level maximum • ambient temperature during operation • ambient temperature during storage • ambient temperature during transport • ambient temperature during transport -55 +80 °C relative humidity during operation Main circuit number of poles for main current circuit 3	reference code acc. to IEC 81346-2	Q
installation altitude at height above sea level maximum • ambient temperature during operation • ambient temperature during storage • ambient temperature during transport • ambient temperature during transport -55 +80 °C relative humidity during operation 10 90 % Main circuit number of poles for main current circuit 3	Substance Prohibitance (Date)	01.05.2012 00:00:00
 ambient temperature during operation ambient temperature during storage ambient temperature during transport ambient temperature during transport 55 +80 °C relative humidity during operation 3 	Ambient conditions	
 ambient temperature during storage ambient temperature during transport -55 +80 °C relative humidity during operation Main circuit number of poles for main current circuit 3 	installation altitude at height above sea level maximum	2 000 m
● ambient temperature during transport -55 +80 °C relative humidity during operation 10 90 % Main circuit number of poles for main current circuit 3	 ambient temperature during operation 	-20 +60 °C
relative humidity during operation 10 90 % Main circuit number of poles for main current circuit 3	 ambient temperature during storage 	-55 +80 °C
Main circuit number of poles for main current circuit 3	 ambient temperature during transport 	-55 +80 °C
number of poles for main current circuit 3	relative humidity during operation	10 90 %
	Main circuit	
adjustable current response value current of the 0.32 1.25 A	number of poles for main current circuit	3
	adjustable current response value current of the	0.32 1.25 A

current-dependent overload release	
formula for making capacity limit current	38.4 x le
formula for breaking capacity limit current	32 x le
yielded mechanical performance for 4-pole AC motor	
at 400 V rated value	0.37 kW
at 500 V rated value	0.55 kW
at 690 V rated value	0.75 kW
operating voltage at AC-3 rated value maximum	690 V
operational current	
at AC at 400 V rated value	1.25 A
• at AC-43	
— at 400 V rated value	1.1 A
— at 500 V rated value	1.2 A
— at 690 V rated value	1.1 A
operating power	
at AC-3 at 400 V rated value	370 W
• at AC-43	
— at 400 V rated value	370 W
— at 500 V rated value	550 W
— at 690 V rated value	750 W
no-load switching frequency	3 600 1/h
operating frequency	
• at AC-41 acc. to IEC 60947-6-2 maximum	750 1/h
• at AC-43 acc. to IEC 60947-6-2 maximum	250 1/h
Control circuit/ Control	20
type of voltage	DC
holding power ● at DC maximum	2.9 W
	2.9 W
Auxiliary circuit	0
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	0
number of NO contacts of instantaneous short-circuit trip	0
unit for signaling contact	
number of CO contacts of the current-dependent overload release for signaling contact	0
and the second second	10 A
operational current of auxiliary contacts at AC-12 maximum	
	0.27 A
maximum	
maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class	
maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class breaking capacity operating short-circuit current (Ics)	0.27 A CLASS 10 and 20 adjustable
maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class breaking capacity operating short-circuit current (Ics) • at 400 V	0.27 A CLASS 10 and 20 adjustable 53 kA
maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class breaking capacity operating short-circuit current (Ics) • at 400 V • at 500 V rated value	0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA
maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class breaking capacity operating short-circuit current (Ics) • at 400 V • at 500 V rated value • at 690 V rated value	0.27 A CLASS 10 and 20 adjustable 53 kA
maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class breaking capacity operating short-circuit current (Ics) • at 400 V • at 500 V rated value • at 690 V rated value UL/CSA ratings	0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA
maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class breaking capacity operating short-circuit current (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	0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA
maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class breaking capacity operating short-circuit current (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	0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA
maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class breaking capacity operating short-circuit current (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	0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA
maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class breaking capacity operating short-circuit current (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 yielded mechanical performance [hp] for 3-phase AC motor	0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 1.25 A 1.25 A
maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class breaking capacity operating short-circuit current (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 yielded mechanical performance [hp] for 3-phase AC motor • at 460/480 V rated value	0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 1.25 A 1.25 A
maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class breaking capacity operating short-circuit current (Ics)	0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 1.25 A 1.25 A
maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class breaking capacity operating short-circuit current (Ics)	0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 1.25 A 1.25 A 0.5 hp 0.5 hp
maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class breaking capacity operating short-circuit current (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 yielded mechanical performance [hp] for 3-phase AC motor • at 460/480 V rated value • at 575/600 V rated value Short-circuit protection product function short circuit protection	0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 1.25 A 1.25 A 0.5 hp 0.5 hp
maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class breaking capacity operating short-circuit current (Ics)	0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 1.25 A 1.25 A 0.5 hp 0.5 hp
maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class breaking capacity operating short-circuit current (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 yielded mechanical performance [hp] for 3-phase AC motor • at 460/480 V rated value • at 575/600 V rated value Short-circuit protection product function short circuit protection	0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 1.25 A 1.25 A 0.5 hp 0.5 hp

Installation/ mounting/ dimensions	
mounting position	any
• recommended	vertical, on horizontal standard mounting rail
fastening method	screw and snap-on mounting
height	170 mm
width	45 mm
depth	165 mm
Connections/ Terminals	
product function	
 removable terminal for main circuit 	Yes
 removable terminal for auxiliary and control circuit 	Yes
type of electrical connection	
 for main current circuit 	plug-in without terminals
 for auxiliary and control circuit 	screw-type 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)
at AWG cables for main contacts	2x (16 10), 1x 8
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid	0.5 4 mm², 2x (0.5 2.5 mm²)
 finely stranded with core end processing 	0.5 2.5 mm², 2x (0.5 1.5 mm²)
at AWG cables for auxiliary contacts	2x (20 14)
Safety related data	
B10 value with high demand rate acc. to SN 31920	3 000 000
proportion of dangerous failures	
 with high demand rate acc. to SN 31920 	50 %
Communication/ Protocol	
Communication/ Protocol	
product function bus communication	Yes
	Yes
product function bus communication protocol is supported • IO-Link protocol	Yes Yes
product function bus communication protocol is supported	
product function bus communication protocol is supported • IO-Link protocol product function control circuit interface with IO link IO-Link transfer rate	Yes
product function bus communication protocol is supported • IO-Link protocol product function control circuit interface with IO link	Yes Yes
product function bus communication protocol is supported • 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	Yes Yes COM2 (38,4 kBaud)
product function bus communication protocol is supported • 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	Yes Yes COM2 (38,4 kBaud) 2.5 ms
product function bus communication protocol is supported • 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	Yes Yes COM2 (38,4 kBaud) 2.5 ms
product function bus communication protocol is supported • 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	Yes Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte
product function bus communication protocol is supported • 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	Yes Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte
product function bus communication protocol is supported • 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	Yes Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte
product function bus communication protocol is supported	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
product function bus communication protocol is supported	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
product function bus communication protocol is supported • 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 conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 • due to high-frequency radiation acc. to IEC 61000- 4-6	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 0.15-80Mhz at 10V
product function bus communication protocol is supported	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
product function bus communication protocol is supported	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 0.15-80Mhz at 10V 80 3000 MHz at 10V/m 8 kV
product function bus communication protocol is supported	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 150 kHz 30 MHz Class A
product function bus communication protocol is supported	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 0.15-80Mhz at 10V 80 3000 MHz at 10V/m 8 kV
product function bus communication protocol is supported	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 150 kHz 30 MHz Class A
product function bus communication protocol is supported	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 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

Certificates/ approvals

General Product Approval

EMC

Functional Safety/Safety of Machinery













Declaration of Conformity

Test Certificates

Marine / Shipping

Miscellaneous



Type Test Certificates/Test Report







Marine / Shipping

other







Confirmation

Further information

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=3RA6400-1BB43

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6400-1BB43

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA6400-1BB43

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

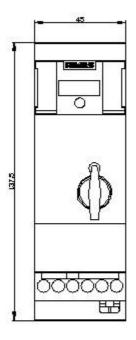
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6400-1BB43&lang=en

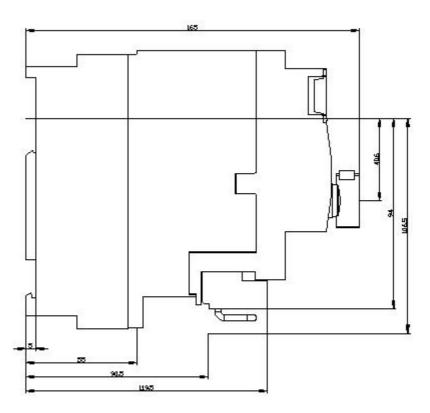
Characteristic: Tripping characteristics, I2t, Let-through current

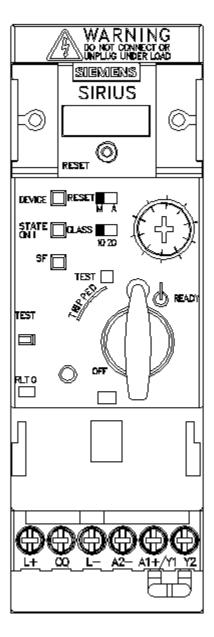
https://support.industry.siemens.com/cs/ww/en/ps/3RA6400-1BB43/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6400-1BB43&objecttype=14&gridview=view1







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