SIEMENS

Data sheet

3RA6500-2BB43



SIRIUS Compact load feeder Reversing 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: Spring-type terminal

product brand name	SIRIUS			
product designation	Compact starter for IO-Link			
design of the product	reversing starter			
product type designation	3RA65			
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	0.1 W			
per pole	0.03 W			
power loss [W] for rated value of the current 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 (switching 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 (switching 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 acc. to IEC 81346-2	Q			
Substance Prohibitance (Date)	01.05.2012			
Ambient conditions				
installation altitude at height above sea level maximum	2 000 m			
ambient temperature				
 during operation 	-20 +60 °C			
during storage	-55 +80 °C			
during transport	-55 +80 °C			
relative humidity during operation	10 90 %			
Main circuit				
number of poles for main current circuit	3			
adjustable current response value current of the current-dependent overload release	0.32 1.25 A			

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-3 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	0.37 kW
• 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	
	DC
type of voltage	
 control supply voltage 1 at DC rated value 	24 V
• at DC	24 V 24 24 V
holding power	24 24 V
	2.0.W
• at DC maximum	2.9 W
at DC maximum Auxiliary circuit	
at DC maximum Auxiliary circuit number of NC contacts for auxiliary contacts	0
• at DC maximum Auxiliary circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	0 0
at DC maximum 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	0 0 0
at DC maximum 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 0
at DC maximum 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
at DC maximum 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 0
at DC maximum 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
at DC maximum 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 0 10 A
at DC maximum 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	0 0 0 0 10 A 0.27 A
at DC maximum 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 10 A 0.27 A
at DC maximum 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 breaking capacity operating short-circuit current (lcs)	0 0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable
at DC maximum 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 breaking capacity operating short-circuit current (lcs) e at 400 V	0 0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA
at DC maximum 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 breaking capacity operating short-circuit current (lcs) e at 400 V e at 500 V rated value	0 0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA
at DC maximum 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 breaking capacity operating short-circuit current (lcs) e at 400 V e at 500 V rated value e at 690 V rated value	0 0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA
at DC maximum 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 breaking capacity operating short-circuit current (lcs) at 400 V at 500 V rated value at 690 V rated value	0 0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA
at DC maximum 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 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 0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA
at DC maximum 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 breaking capacity operating short-circuit current (Ics)	0 0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 3 kA
 at DC maximum 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 breaking capacity operating short-circuit current (Ics)	0 0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 3 kA
 at DC maximum 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 breaking capacity operating short-circuit current (Ics)	0 0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 1.25 A 1.25 A
 at DC maximum 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 breaking capacity operating short-circuit current (Ics)	0 0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 1.25 A 1.25 A 1.25 A
 at DC maximum 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 breaking capacity operating short-circuit current (Ics) at 400 V at 500 V rated value at 690 V rated value at 690 V rated value at 600 V rated value at 480 V rated value at 600 V rated value at 480 V rated value at 460 V rated value at 600 V rated value at 460 V rated value at 600 V rated value at 460 V rated value at 600 V rated value at 460 V rated value at 460 V rated value at 460 V rated value at 460/480 V rated value at 575/600 V rated value at 575/600 V rated value at 575/600 V rated value Short-circuit protection 	0 0 0 0 10 A 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
 at DC maximum 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 breaking capacity operating short-circuit current (Ics) at 400 V at 500 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 4600 V rated value at 4600 V rated value at 4600 V rated value 	0 0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 1.25 A 1.25 A 1.25 A 1.25 A 1.25 A 1.25 A 1.25 A
at DC maximum 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 breaking capacity operating short-circuit current (Ics) e at 400 V e at 500 V rated value e at 690 V rated value tull-load current (FLA) for 3-phase AC motor e at 480 V rated value e at 600 V rated value signalical performance [hp] for 3-phase AC motor e at 460/480 V rated value sat 575/600 V rated value bact at 575/600 V rated value bact at 575/600 V rated value at 690 V rated value at 690 V rated value bact at 690 V rated value bact at 600 V rated value bact 600 V rated value	0 0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 1.25 A 1.25 A 1.25 A 0.5 hp 0.5 hp
 at DC maximum 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 breaking capacity operating short-circuit current (Ics) at 400 V at 500 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 4600 V rated value at 4600 V rated value at 4600 V rated value 	0 0 0 0 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA 1.25 A 1.25 A 1.25 A 1.25 A 1.25 A 1.25 A 1.25 A

Installation/ mounting/ dimensions			
mounting position	any		
recommended	vertical, on horizontal standard mounting rail		
fastening method	screw and snap-on mounting		
height	191 mm		
width	90 mm		
depth	165 mm		
Connections/ Terminals			
product component removable terminal for main	Yes		
circuit			
product component removable terminal for auxiliary	Yes		
and control circuit			
type of electrical connection			
for main current circuit	plug-in without terminals		
for auxiliary and control circuit	spring-loaded terminals		
type of connectable conductor cross-sections			
• for main contacts			
— solid	2x (1.5 6 mm ²), 1x 10 mm ²		
 finely stranded with core end processing 	2x (1.5 6 mm ²)		
— finely stranded without core end processing	2x (1.5 6 mm ²)		
at AWG cables for main contacts	2x (16 10), 1x 8		
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)		
 at AWG cables for auxiliary contacts 	2x (24 16)		
Safety related data			
B10 value with high demand rate acc. to SN 31920	1 500 000		
proportion of dangerous failures			
with high demand rate and to CN 21020	50 %		
 with high demand rate acc. to SN 31920 	50 %		
protection class IP on the front acc. to IEC 60529	IP20		
protection class IP on the front acc. to IEC 60529	IP20		
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529	IP20		
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Communication/ Protocol	IP20 finger-safe		
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Communication/ Protocol product function bus communication	IP20 finger-safe		
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Communication/ Protocol product function bus communication protocol is supported	IP20 finger-safe Yes		
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Communication/ Protocol product function bus communication protocol is supported • AS-Interface protocol	IP20 finger-safe Yes No		
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Communication/ Protocol product function bus communication protocol is supported • AS-Interface protocol • IO-Link protocol	IP20 finger-safe Yes No Yes		
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Communication/ Protocol product function bus communication 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	IP20 finger-safe Yes No Yes Yes		
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Communication/ Protocol product function bus communication 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	IP20 finger-safe Yes No Yes Yes COM2 (38,4 kBaud) 2.5 ms		
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Communication/ Protocol product function bus communication 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	IP20 finger-safe Yes No Yes Yes COM2 (38,4 kBaud)		
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Communication/ Protocol product function bus communication 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	IP20 finger-safe Yes No Yes Yes COM2 (38,4 kBaud) 2.5 ms		
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Communication/ Protocol product function bus communication 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 • of the address range of the outputs with cyclical	IP20 finger-safe Yes No Yes Yes COM2 (38,4 kBaud) 2.5 ms No		
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Communication/ Protocol product function bus communication 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	IP20 finger-safe Yes No Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte		
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Communication/ Protocol product function bus communication 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	IP20 finger-safe Yes No Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte		
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Communication/ Protocol product function bus communication 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	IP20 finger-safe Yes No Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte 2 byte		
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Communication/ Protocol product function bus communication 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	IP20 finger-safe Yes No Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte		
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Communication/ Protocol product function bus communication 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	IP20 finger-safe Yes No Yes Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte 2 byte 4 kV main circuits, 2 kV auxiliary circuits, 2 kV IO-Link, 2 kV limit		
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Communication/ Protocol product function bus communication 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	IP20 finger-safe Yes No Yes Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte 2 byte 4 kV main circuits, 2 kV auxiliary circuits, 2 kV IO-Link, 2 kV limit switches, 2 kV line hand-held device 4 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage		
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Communication/ Protocol product function bus communication protocol is supported • AS-Interface protocol • IO-Link protocol product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link device minimum type of voltage supply via input/output link master data volume • of the address range of the inputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total • due to burst 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	IP20 finger-safe Yes 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 class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Communication/ Protocol product function bus communication protocol is supported • AS-Interface protocol • IO-Link protocol product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link device minimum type of voltage supply via input/output link master data volume • of the address range of the inputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total Electromagnetic compatibility conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-conductor 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-	IP20 finger-safe Yes No Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte 2 byte		
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Communication/ Protocol product function bus communication protocol is supported • AS-Interface protocol • IO-Link protocol product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link device minimum type of voltage supply via input/output link master data volume • of the address range of the inputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total Electromagnetic compatibility 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	IP20 finger-safe Yes No Yes Yes COM2 (38,4 kBaud) 2.5 ms No 2 byte 2 byte 4 kV main circuits, 2 kV auxiliary circuits, 2 kV IO-Link, 2 kV limit switches, 2 kV line hand-held device 4 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection 2 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection 2 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection 0.15-80Mhz at 10V		
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Communication/ Protocol product function bus communication protocol is supported • AS-Interface protocol • IO-Link protocol product function control circuit interface with IO link IO-Link transfer rate point-to-point cycle time between master and IO-Link device minimum type of voltage supply via input/output link master data volume • of the address range of the inputs with cyclical transfer total • of the address range of the outputs with cyclical transfer total Electromagnetic compatibility 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 field-based interference acc. to IEC 61000-4-3	IP20 finger-safe Yes 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 2 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection 0.15-80Mhz at 10V 80 3000 MHz at 10V/m		

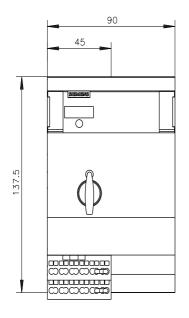
field-bound HF interference emission acc. to CISPR11		30 1000 MHz Class A				
Supply voltage						
Supply voltage requ	ired Auxiliary voltage		Yes			
Display						
number of LEDs			5			
display version as status display of the input/output link device			green/red dual LED			
Certificates/ approval	ls					
General Product Ap	oproval			EMC	Functional Safety/Safety of Machinery	
SP CEM	CCC		EHC	RCM	UDE VDE	
Declaration of Cont	formity	Test Certificat	es Marine / Shipping			
CE EG-Konf.	<u>UK Declaration of</u> <u>Conformity</u>	<u>Type Test Cert</u> ates/Test Rep		BUREAU VERITAS	Lloyd's Kegister uis	
Marine / Shipping			other			
PRS	RINA		<u>Confirmation</u>			
Further information	numberdeenter (Catalo	no. Brookuroo				
https://www.siemens. Industry Mall (Onlin https://mall.industry.s Cax online generato	e ordering system) siemens.com/mall/en/en or	/Catalog/product?	mlfb=3RA6500-2BB43			
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6500-2BB43 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RA6500-2BB43 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)						

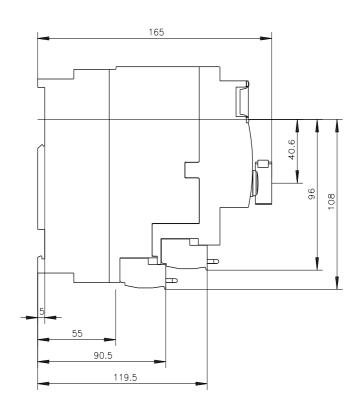
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6500-2BB43&lang=en

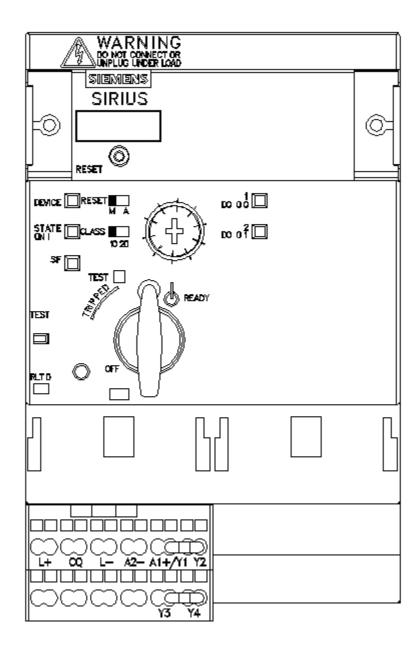
Characteristic: Tripping characteristics, I²t, Let-through current

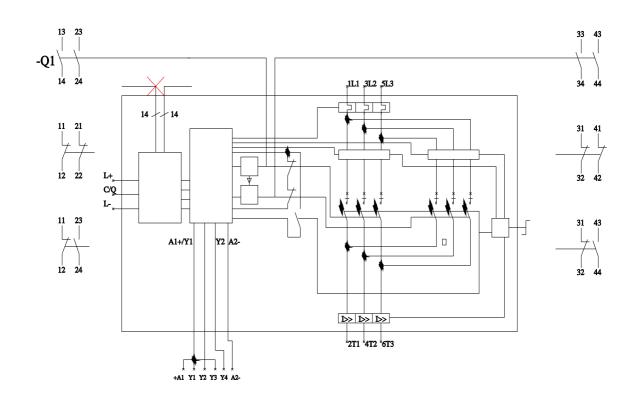
https://support.industry.siemens.com/cs/ww/en/ps/3RA6500-2BB43/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6500-2BB43&objecttype=14&gridview=view1









last modified:

10/12/2021 🖸