

LOAD FEEDER FUSELESS REVERSING DUTY, AC 400V, SZ S00, 2.2. . .3.2A, DC 24V SPRING-LOADED CONNECTION FOR BUSBAR SYSTEMS 60MM TYPE OF COORDINATION 2, IQ = 150KA (ALSO FULFILLS TYPE OF COORDINATION 1) 1NC (CONTACTOR)

General technical data:		
Product brand name		SIRIUS
product designation		non-fused load feeders 3RA2
Design of the product		reversing starter
Size of the load feeder		S00
Protection class IP / on the front		IP20
Degree of pollution		3
Insulation voltage / rated value	V	690
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
during transport	°C	-55 80
during storage	°C	-55 80
during operating	°C	-20 60
Impulse voltage resistance / rated value	kV	6
Active power loss / per conductor / typical	W	2.3
Item designation		
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		Q
according to DIN EN 61346-2		Q
Type of assignement		2

of the circuit-breakers included in the scope of supply of the contactor included in the scope of supply of the RS applied assembly kit of the RS applied assembly kit of the link module included in the scope of supply of the busbar adapter included in the scope of supply of the busbar adapter included in the scope of supply of the switching contact Type of the motor protection Adjustable response current of the current-dependent overload release A 2.2 3.2 Communication: Product function / bus-communication Protocol / will be supported - AS interface protocol - PROFIBUS DP protocol - PROFIBUS DP protocol - PROFINET protocol PROFINET protocol No Main circuit: Number of NC contacts / for main current circuit 3 Number of NC contacts / for main contacts 0 Number of NO contacts / for main contacts 0 Operating voltage / at AC-3 / rated value / maximum v 690 Operating current - at AC-1 / at 400 V / rated value - at AC-2 / at 400 V / rated value - at AC-4 / at 400 V / rated value	Mechanical operating cycles as operating time / of the contactor		
of the circuit-breakers included in the scope of supply of the contactor included in the scope of supply of the RS applied assembly kit of the Ink module included in the scope of supply of the NS applied assembly kit of the busbar adapter included in the scope of supply of the busbar adapter included in the scope of supply of the busbar adapter included in the scope of supply of the busbar adapter included in the scope of supply of the motor protection dijustable response current of the current-dependent overload release A 2.2 3.2 Communication: Product function / bus-communication Protocol / will be supported - AS interface protocol - PROFIBUS DP protocol - PROFIBUS DP protocol - PROFIBUS DP protocol - PROFINET protocol No Main circuit: Number of NC contacts / for main current circuit Number of NC contacts / for main contacts Operating outlage / at AC-3 / rated value / maximum v 690 Operating current - at AC-1 / at 400 V / rated value - at AC-2 / at 400 V / rated value - at AC-2 / at 400 V / rated value - at AC-2 / at 400 V / rated value - at AC-2 / at 400 V / rated value - at AC-2 / at 400 V / rated value - at AC-2 / at 400 V / rated value - at AC-2 / at 400 V / rated value - at AC-3 / at 400 V / rated value - at AC-3 / at 400 V / rated value - at AC-3 / at 400 V / rated value - at AC-3 / at 400 V / rated value - at AC-3 / at 400 V / rated value - at AC-3 / at 400 V / rated value - at AC-3 / at 400 V / rated value - at AC-3 / at 400 V / rated value - at AC-3 / at 400 V / rated value - at AC-3 / at 400 V / rated value - at AC-3 / at 400 V / rated value - at AC-3 / at 400 V / rated value - at AC-3 / at 400 V / rated value - at AC-3 / at 400 V / rated value - at AC-3 / at 400 V / rated value - at AC-3 / at 400 V / rated value - at AC-3 / at 400 V / rated value - at AC-3 / at 400 V / rated value - at AC-3 / at 400 V	• typical		10,000,000
of the contactor included in the scope of supply of the RS applied assembly kit of the Ink module included in the scope of supply of the busbar adapter included in the scope of supply of the busbar adapter included in the scope of supply of the busbar adapter included in the scope of supply BuS1251-SDT11 Design of the switching contact Type of the motor protection Adjustable response current of the current-dependent overload release A 2.2 3.2 Communication: Product function / bus-communication Protocol / will be supported - AS interface protocol - PROFINET protocol No Product extension / function module for communication No Main circuit: Number of poles / for main current circuit Number of NC contacts / for main contacts Unumber of NC contacts / for main contacts Operating voltage / at AC-3 / rated value / maximum v 690 Operating current - at AC-1 / at 400 V / rated value - at AC-2 / at 400 V / rated value - at AC-3 / at 400 V / rated value - at AC-2 / at 400 V / rated value - at AC-2 / at 400 V / rated value - at AC-2 / at 400 V / rated value - at AC-2 / at 400 V / rated value - at AC-3 / at 400 V / rated value - a	Manufacturer article number		
of the RS applied assembly kit of the link module included in the scope of supply of the busbar adapter included in the scope of supply of the busbar adapter included in the scope of supply BUS1251-SDT11 Design of the switching contact Type of the motor protection Adjustable response current of the current-dependent overload release A 2.2 3.2 Communication: Product function / bus-communication Protocol / will be supported - AS interface protocol - PROFIBUS DP protocol - PROFIBUS DP protocol - PROFIBUS TP protocol No Product extension / function module for communication No Main circuit: Number of poles / for main current circuit 3 Number of NO contacts / for main contacts 0 Number of NO contacts / for main contacts 3 Operating voltage / at AC-3 / rated value / maximum v 690 Operating current - at AC-2 / at 400 V / rated value - at AC-2 / at 400 V / rated value - at AC-3 / at 400 V / rated value - at AC-3 / at 400 V / rated value - at AC-4 / at 400 V / rated value - at AC-3	• of the circuit-breakers included in the scope of supply		3RV2011-1DA20
of the link module included in the scope of supply of the busbar adapter included in the scope of supply of the busbar adapter included in the scope of supply BuS1251-SDT11 Design of the switching contact Type of the motor protection Adjustable response current of the current-dependent overload release A 2.2 3.2 Communication: Product function / bus-communication Protocol / will be supported - AS interface protocol - PROFIBUS DP protocol - PROFIBUS DP protocol - PROFINET protocol Product extension / function module for communication No Main circuit: Number of poles / for main current circuit 3 Number of NC contacts / for main contacts 0 Number of NC contacts / for main contacts 3 Operating outrent - at AC-1 / at 400 V / rated value / maximum Operating current - at AC-2 / at 400 V / rated value - at AC-2 / at 400 V / rated value - at AC-3 / a	 of the contactor included in the scope of supply 		3RT2015-2BB42
of the busbar adapter included in the scope of supply Design of the switching contact Type of the motor protection Adjustable response current • of the current-dependent overload release A 2.2 3.2 Communication: Product function / bus-communication Protocol / will be supported • AS interface protocol • PROFIBUS DP protocol • PROFIBUS DP protocol • PROFINET protocol • PROFINET protocol • Product extension / function module for communication No Main circuit: Number of poles / for main current circuit Number of NC contacts / for main contacts 0 Number of NO contacts / for main contacts 3 Operating voltage / at AC-3 / rated value / maximum • at AC-1 / at 400 V / rated value • at AC-2 / at 400 V / rated value • at AC-2 / at 400 V / rated value • at AC-2 / at 400 V / rated value • at AC-3 / at 400 V / rated value	of the RS applied assembly kit		8US1250-5AT10
Design of the switching contact mechanical Type of the motor protection bimetal Adjustable response current - of the current-dependent overload release A 2.2 3.2 Communication: Product function / bus-communication No Product function / bus-communication No Protocol No - PROFIBUS DP protocol No	of the link module included in the scope of supply		3RA2911-2AA00
Type of the motor protection Adjustable response current • of the current-dependent overload release A 2.2 3.2 Communication: Product function / bus-communication Protocol / will be supported • AS interface protocol • PROFIBUS DP protocol • PROFIBUS DP protocol • PROFINET protocol Product extension / function module for communication No Main circuit: Number of poles / for main current circuit Number of NC contacts / for main contacts 0 Number of NC contacts / for main contacts 0 Operating voltage / at AC-3 / rated value / maximum Operating current • at AC-1 / at 400 V / rated value • at AC-2 / at 400 V / rated value • at AC-2 / at 400 V / rated value • at AC-2 / at 400 V / rated value • at AC-3 • at 400 V / rated value • at AC-3 • at 400 V / rated value • at AC-3 • at 400 V / rated value • at AC-3 • at 400 V / rated value • at AC-3 • at 400 V / rated value • at AC-3 • at 400 V / rated value • at AC-3 • at 400 V / rated value • at AC-3 • at 400 V / rated value • at 500 V / rated value	of the busbar adapter included in the scope of supply		8US1251-5DT11
Adjustable response current of the current-dependent overload release A 2.2 3.2 Communication: Product function / bus-communication Protocol / will be supported - AS interface protocol PROFIBUS DP protocol PROFIBUS DP protocol PROFINET protocol PROFINET protocol No Main circuit: Number of poles / for main current circuit Number of NC contacts / for main contacts Operating voltage / at AC-3 / rated value / maximum Operating current - at AC-1 / at 400 V / rated value - at AC-2 / at 400 V / rated value - at AC-2 / at 400 V / rated value - at AC-3 - at 400 V / rated value - at A	Design of the switching contact		mechanical
of the current-dependent overload release A 2.2 3.2 Communication: Protocol / will be supported	Type of the motor protection		bimetal
Product function / bus-communication No	Adjustable response current		
Protocol / will be supported No Protocol / will be supported No • AS interface protocol No • PROFIBUS DP protocol No • PROFINET protocol No Product extension / function module for communication Main circuit: Number of poles / for main current circuit 3 Number of NC contacts / for main contacts 0 Number of NO contacts / for main contacts 3 Operating voltage / at AC-3 / rated value / maximum V 690 Operating current at AC-1 / at 400 V / rated value A 3.2 • at AC-2 / at 400 V / rated value A 2.7 • at AC-3 / at 400 V / rated value A 2.7 Service power • at AC-2 / at 400 V / rated value W 1,100 • at AC-3 • at 400 V / rated value W 1,100 • at AC-3 • at 400 V / rated value W 1,500	of the current-dependent overload release	А	2.2 3.2
Protocol / will be supported	Communication:		
• AS interface protocol • PROFIBUS DP protocol • PROFINET protocol No Product extension / function module for communication Main circuit: Number of poles / for main current circuit Number of NC contacts / for main contacts Number of NO contacts / for main contacts Operating voltage / at AC-3 / rated value / maximum V 690 Operating current • at AC-1 / at 400 V / rated value • at AC-2 / at 400 V / rated value • at AC-2 / at 400 V / rated value • at AC-2 / at 400 V / rated value • at AC-2 / at 400 V / rated value • at AC-2 / at 400 V / rated value • at AC-3 / at 400 V / rated value • at AC-3 / at 400 V / rated value • at AC-3 / at 400 V / rated value • at AC-4 / at 400 V / rated value • at AC-3 / at 400 V / rated value • at AC-3 / at 400 V / rated value • at AC-4 / at 400 V / rated value • at AC-3 / at 400 V / rated value • at AC-3 / at 400 V / rated value • at AC-3 / at 400 V / rated value • at AC-3 / at 400 V / rated value • at AC-3 / at 400 V / rated value • at AC-3 / at 400 V / rated value • at AC-4 / at 400 V / rated value • at AC-3 / at 400 V / rated value • at AC-4 / at 400 V / rated value • at AC-3 / at 400 V / rated value • at AC-4 / at 400 V / rated value • at AC-3 / at 400 V / rated value • at AC-4 / at 400 V / rated value • at AC-3 / at 400 V / rated value • at AC-4 / at 400 V / rated value • at AC-5 / at 400 V / rated value • at AC-6 / at 400 V / rated value • at AC-7 / at 400 V / rated value • at AC-8 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at A	Product function / bus-communication		No
PROFIBUS DP protocol PROFINET protocol No Product extension / function module for communication Main circuit: Number of poles / for main current circuit Number of NC contacts / for main contacts Number of NO contacts / for main contacts Operating voltage / at AC-3 / rated value / maximum V 690 Operating current at AC-1 / at 400 V / rated value at AC-2 / at 400 V / rated value at AC-3 / at 400 V / rated value at AC-4 / at 400 V / rated value at AC-2 / at 400 V / rated value with AC-3 / at 400 V / rated value at AC-2 / at 400 V / rated value value V 1,100 at AC-3 at 400 V / rated value value V 1,100 1,100 1,500	Protocol / will be supported		
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Product extension / function module for communication Main circuit: Number of poles / for main current circuit Number of NC contacts / for main contacts Operating voltage / at AC-3 / rated value / maximum Verificial formation of NC contacts / for main contacts Operating voltage / at AC-3 / rated value / maximum Verificial formation of NC contacts / for main contacts Operating voltage / at AC-3 / rated value / maximum Verificial formation of NC contacts / for main contacts 3 Operating voltage / at AC-3 / rated value / maximum Verificial formation of NC contacts / for main contacts 3 Operating voltage / at AC-3 / rated value / formation of NC contacts / for main contacts 4 3 Operating voltage / at AC-3 / rated value / formation of NC contacts / for main contacts 3 Operating voltage / at AC-3 / rated value / formation of NC contacts / for main contacts 4 3 Operating voltage / at AC-3 / rated value / formation of NC contacts / for main contacts 4 3 2.7 Service power • at AC-3 / at 400 V / rated value / formation of NC contacts / for main contacts Well formation of NC contacts / for main contacts Number of NC contacts / for main contacts 3 Operating voltage / formation of NC contacts / for main contacts 3 Operating voltage / formation of NC contacts / for main contacts 4 2.7 Service power • at AC-2 / at 400 V / rated value Well formation of NC contacts / for main contacts Number of NC contacts / for main contacts 3 Operating voltage / formation of NC contacts / for main contacts 4 2.7 Service power • at AC-2 / at 400 V / rated value Well formation of NC contacts / for main contacts Number of NC contacts / for main contacts 3 Operating voltage / formation of NC contacts / for main contacts 4 2.7 Service power • at AC-2 / at 400 V / rated value • at AC-2 / at 400 V / rated value • at AC-3 / at 400 V / rated value • at AC-4 / at 400 V / rated value • at AC-4 / at 400 V / rated value • at AC-4 / at 400 V / rated value • at AC-5 / at 400 V / rated value • at AC-	PROFIBUS DP protocol		No
Main circuit: Number of poles / for main current circuit 3 Number of NC contacts / for main contacts 0 Number of NO contacts / for main contacts 3 Operating voltage / at AC-3 / rated value / maximum V 690 Operating current A 3.2 • at AC-1 / at 400 V / rated value A 2.7 • at AC-3 / at 400 V / rated value A 2.7 • at AC-4 / at 400 V / rated value A 2.7 Service power W 1,100 • at AC-3 W 1,100 • at 400 V / rated value W 1,500	PROFINET protocol		No
Number of poles / for main current circuit 3 Number of NC contacts / for main contacts 0 Number of NO contacts / for main contacts 3 Operating voltage / at AC-3 / rated value / maximum V 690 Operating current A 3.2 • at AC-1 / at 400 V / rated value A 2.7 • at AC-2 / at 400 V / rated value A 2.7 • at AC-4 / at 400 V / rated value A 2.7 Service power W 1,100 • at AC-3 W 1,100 • at 400 V / rated value W 1,100 • at 500 V / rated value W 1,500	Product extension / function module for communication		No
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Operating voltage / at AC-3 / rated value / maximum V 690 Operating current A 3.2 • at AC-1 / at 400 V / rated value A 2.7 • at AC-3 / at 400 V / rated value A 2.7 • at AC-4 / at 400 V / rated value A 2.7 Service power W 1,100 • at AC-3 W 1,100 • at 400 V / rated value W 1,500	Number of NC contacts / for main contacts		0
Operating current • at AC-1 / at 400 V / rated value A 3.2 • at AC-2 / at 400 V / rated value A 2.7 • at AC-3 / at 400 V / rated value A 2.7 • at AC-4 / at 400 V / rated value A 2.7 Service power W 1,100 • at AC-2 / at 400 V / rated value W 1,100 • at 4C-3 W 1,100 • at 500 V / rated value W 1,500	Number of NO contacts / for main contacts		3
Operating current • at AC-1 / at 400 V / rated value A 3.2 • at AC-2 / at 400 V / rated value A 2.7 • at AC-3 / at 400 V / rated value A 2.7 • at AC-4 / at 400 V / rated value A 2.7 Service power W 1,100 • at AC-2 / at 400 V / rated value W 1,100 • at 4C-3 W 1,100 • at 500 V / rated value W 1,500	Operating voltage / at AC-3 / rated value / maximum	V	690
• at AC-2 / at 400 V / rated value • at AC-3 / at 400 V / rated value • at AC-4 / at 400 V / rated value A 2.7 Service power • at AC-2 / at 400 V / rated value W 1,100 • at AC-3 • at 400 V / rated value W 1,100 • at 500 V / rated value W 1,500	Operating current		
 at AC-3 / at 400 V / rated value at AC-4 / at 400 V / rated value A 2.7 Service power at AC-2 / at 400 V / rated value at AC-3 at 400 V / rated value at 500 V / rated value W 1,100 M 1,100 M 1,100 M 1,500 	• at AC-1 / at 400 V / rated value	Α	3.2
• at AC-4 / at 400 V / rated value Service power • at AC-2 / at 400 V / rated value • at AC-3 • at 400 V / rated value • at 500 V / rated value W 1,100 W 1,500	• at AC-2 / at 400 V / rated value	Α	2.7
Service power • at AC-2 / at 400 V / rated value W 1,100 • at AC-3 W 1,100 • at 400 V / rated value W 1,100 • at 500 V / rated value W 1,500	• at AC-3 / at 400 V / rated value	Α	2.7
• at AC-2 / at 400 V / rated value W 1,100 • at AC-3 • at 400 V / rated value W 1,100 • at 500 V / rated value W 1,500	• at AC-4 / at 400 V / rated value	Α	2.7
• at AC-3 • at 400 V / rated value W 1,100 • at 500 V / rated value W 1,500	Service power		
• at 400 V / rated value W 1,100 • at 500 V / rated value W 1,500	• at AC-2 / at 400 V / rated value	W	1,100
• at 500 V / rated value W 1,500	• at AC-3		
	• at 400 V / rated value	W	1,100
• at 690 V / rated value W 2,200	• at 500 V / rated value	W	1,500
	• at 690 V / rated value	W	2,200
• at AC-4 / at 400 V / rated value W 1,100	• at AC-4 / at 400 V / rated value	W	1,100
Off-load operating frequency 1/h 10,000	Off-load operating frequency	1/h	10,000

Frequency of operation

• at AC-4 / according to IEC 60947-6-2 / maximum	1/h	250
• at AC-3 / according to IEC 60947-6-2 / maximum	1/h	750
• at AC-2 / according to IEC 60947-6-2 / maximum	1/h	750
• at AC-1 / according to IEC 60947-6-2 / maximum	1/h	1,000

Control circuit:		
Type of voltage / of the controlled supply voltage		DC
Control supply voltage frequency		
• 1 / rated value	Hz	0
Control supply voltage / 1		
• for DC / rated value	V	24
Holding power / of the solenoid / for DC	W	4

Auxiliary circuit:		
Product extension / auxiliary switch	Yes	
Number of NC contacts / for auxiliary contacts	1	
Number of NO contacts / for auxiliary contacts	0	
Number of change-over switches / for auxiliary contacts	0	

Inputs/ Outputs:	
Number of digital inputs	0

	Yes
	circuit-breakers
Α	100,000
Α	100,000
Α	10,000
	А

Installation/mounting/dimensions:		
Built in orientation		vertical
Type of mounting		for snapping onto 60 mm busbar systems
Width	mm	90
Height	mm	260
Depth	mm	154.9
Center line spacing	mm	60
Distance, to be maintained, to the ranks assembly		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	20
• downwards	mm	30

• sidewards	mm	0
Distance, to be maintained, to earthed part		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	20
• downwards	mm	10
• sidewards	mm	9
Distance, to be maintained, conductive elements		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	20
• downwards	mm	10
• sidewards	mm	9

Connections:	
Design of the electrical connection	
for main current circuit	spring-loaded terminals
 for auxiliary and control current circuit 	spring-loaded terminals
Type of the connectable conductor cross-section	
• for main contacts	
• solid	2x (0.5 4 mm²)
• stranded	2x (0.5 4 mm2)
• finely stranded	
 with conductor end processing 	2x (0.5 2.5 mm²)
 without conductor final cutting 	2x (0.5 2.5 mm²)
• for AWG conductors / for main contacts	2x (20 12)
for auxiliary contacts	
• solid	2x (0.5 4 mm²)
• finely stranded	
 with conductor end processing 	2x (0.5 2.5 mm²)
 without conductor final cutting 	2x (0.5 2.5 mm²)
 for AWG conductors / for auxiliary contacts 	2x (20 12)

Certificates/approvals:	
Verification of suitability	CE / UL / CSA / CCC
Varification of suitability / ATEX	No

General Product Approval

For use in hazardous locations

Test Certificates

ROSTEST



 $\frac{\mathsf{DEKRA}\;\mathsf{EXAM,}}{\mathsf{DMT}}$

Manufacturer

Shipping Approval









Manufacturer

other

UL/CSA ratings		
yielded mechanical performance (hp)		
for single-phase squirrel cage motors		
• at 110/120 V / rated value	hp	0.1
• at 230 V / rated value	hp	0.25
• for three-phase squirrel cage motors		
• at 200/208 V / rated value	hp	0.5
• at 220/230 V / rated value	hp	0.75
• at 460/480 V / rated value	hp	1.5
• at 575/600 V / rated value	hp	2
Operating current (FLA) / for three-phase squirrel cage motors		
• at 480 V / rated value	Α	3.2
• at 600 V / rated value	Α	3.2
Contact rating designation / for auxiliary contacts / according to UL		A600 / Q600

Safety:		
B10 value / with high demand rate		
according to SN 31920		1,000,000
Failure rate (FIT value) / with low demand rate		
according to SN 31920	FIT	250
Proportion of dangerous failures		
 with low demand rate / according to SN 31920 	%	40
 with high demand rate / according to SN 31920 	%	75
T1 value / for proof test interval or service life		
according to IEC 61508	а	10
Protection against electrical shock		finger-safe

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrial-controls/mall

CAx-Online-Generator

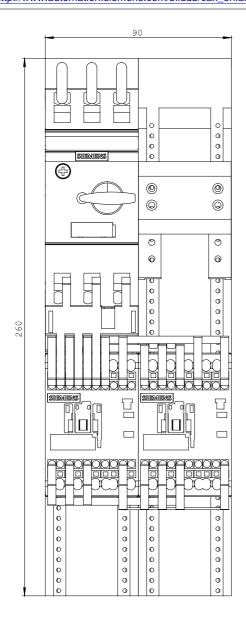
http://www.siemens.com/cax

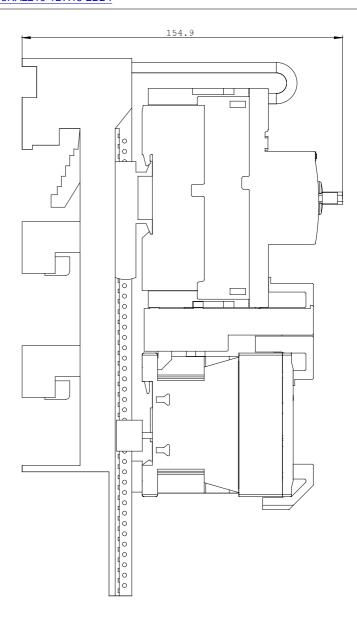
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

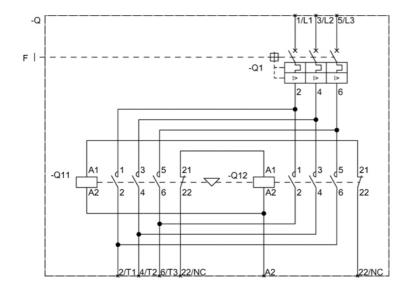
http://support.automation.siemens.com/WW/view/en/3RA2210-1DH15-2BB4/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2210-1DH15-2BB4







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