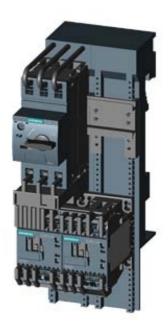
# **SIEMENS**

## Product data sheet 3RA2210-0DH15-2BB4



LOAD FEEDER FUSELESS REVERSING DUTY, AC 400V, SZ S00, 0.22...0.32A, 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
Item designation		
<ul> <li>according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		Q
• according to DIN EN 61346-2		Q
Type of assignement		2

Mechanical operating cycles as operating time / of the contactor		
• typical		10,000,000
Manufacturer article number		
• of the circuit-breakers included in the scope of supply		3RV2011-0DA20
• of the contactor included in the scope of supply		3RT2015-2BB42
<ul> <li>of the RS applied assembly kit</li> </ul>		8US1250-5AT10
• of the link module included in the scope of supply		3RA2911-2AA00
• of the busbar adapter included in the scope of supply		8US1251-5DT11
Design of the switching contact		mechanical
Type of the motor protection		bimetal
Adjustable response current		
of the current-dependent overload release	Α	0.22 0.32
Communication:		
Product function / bus-communication		No
Protocol / will be supported		
AS interface protocol		No
PROFIBUS DP protocol		No
PROFINET protocol		No
		Na
Product extension / function module for communication		No
Product extension / function module for communication  Main circuit:		NO
		3
Main circuit:		
Main circuit:  Number of poles / for main current circuit		3
Main circuit:  Number of poles / for main current circuit  Number of NC contacts / for main contacts	V	3
Main circuit:  Number of poles / for main current circuit  Number of NC contacts / for main contacts  Number of NO contacts / for main contacts	V	3 0 3
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	3 0 3
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  Operating current		3 0 3 690
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  Operating current  • at AC-1 / at 400 V / rated value	А	3 0 3 690
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  Operating current  • at AC-1 / at 400 V / rated value  • at AC-2 / at 400 V / rated value	A A	3 0 3 690 0.32 0.3
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  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	A A A	3 0 3 690 0.32 0.3
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  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	A A A	3 0 3 690 0.32 0.3
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  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  Service power	A A A	3 0 3 690 0.32 0.3 0.3
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  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  • at AC-4 / at 400 V / rated value  Service power  • at AC-2 / at 400 V / rated value	A A A	3 0 3 690 0.32 0.3 0.3
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  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  • at AC-4 / 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	A A A W	3 0 3 690 0.32 0.3 0.3 0.3
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  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  Service power  • at AC-2 / at 400 V / rated value  • at AC-3  • at 400 V / rated value	A A A W	3 0 3 690 0.32 0.3 0.3 0.3
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  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  Service power  • at AC-2 / at 400 V / rated value  • at AC-3  • at 400 V / rated value  • at 500 V / rated value	A A A W	3 0 3 690 0.32 0.3 0.3 0.3 90
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  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  Service power  • at AC-2 / at 400 V / rated value  • at AC-3  • at 400 V / rated value  • at 500 V / rated value  • at 690 V / rated value	A A A W W	3 0 3 690 0.32 0.3 0.3 0.3 90 90 120

<ul> <li>at AC-1 / according to IEC 60947-6-2 / maximum</li> <li>at AC-2 / according to IEC 60947-6-2 / maximum</li> </ul>	1/h 1/h	1,000 750
• at AC-3 / according to IEC 60947-6-2 / maximum	1/h	750
• at AC-4 / according to IEC 60947-6-2 / maximum	1/h	250
arrio 17 according to 120 ccc 17 o 27 mainmain	.,,,	
Control circuit:		

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

Short-circuit:		
Product function / short circuit protection		Yes
Design of the short-circuit protection		circuit-breakers
Breaking capacity limit short-circuit current (Icu)		
• at 400 V / rated value	Α	100,000
• at 500 V / rated value	Α	100,000
• at 690 V / rated value	Α	100,000

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
<ul> <li>for auxiliary and control current circuit</li> </ul>	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	
<ul> <li>with conductor end processing</li> </ul>	2x (0.5 2.5 mm²)
<ul> <li>without conductor final cutting</li> </ul>	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	
<ul> <li>with conductor end processing</li> </ul>	2x (0.5 2.5 mm²)
<ul> <li>without conductor final cutting</li> </ul>	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		
Operating current (FLA) / for three-phase squirrel cage motors		
• at 480 V / rated value	Α	0.32
• at 600 V / rated value	Α	0.32
Contact rating designation / for auxiliary contacts / according to		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		
<ul> <li>with low demand rate / according to SN 31920</li> </ul>	%	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** 

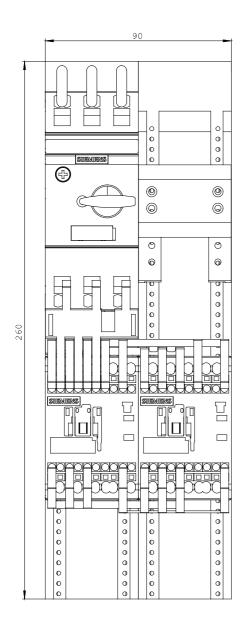
http://www.siemens.com/cax

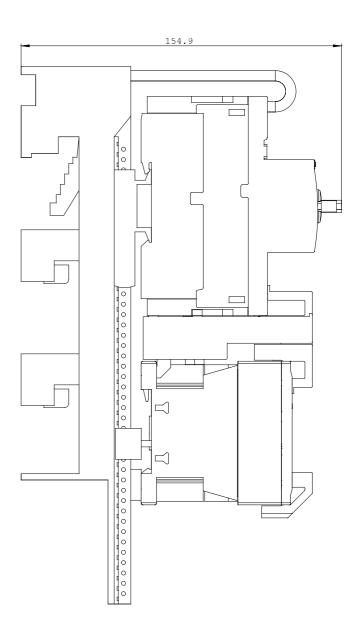
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

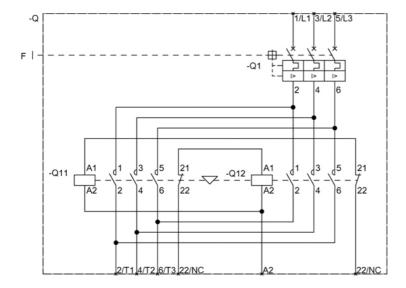
http://support.automation.siemens.com/WW/view/en/3RA2210-0DH15-2BB4/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RA2210-0DH15-2BB4}}$ 







last change: Oct 24, 2011