SIEMENS

Product data sheet

3RV2011-0HA15



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.55...0.8A, N-RELEASE10A, SCREW CONNECTION, STANDARD SW. CAPACITY, W. TRANSVERSE AUX. SWITCH 1NO+1NC

General technical data:		
Product brand name		SIRIUS
product designation	-	3RV2 circuit breaker
Size of the circuit-breaker		S00
Trip class		CLASS 10
Protection class IP / on the front		IP20
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
during storage	°C	-50 80
during operating	°C	-20 60
during transport	°C	-50 80
Resistance against shock		25g / 11 ms
Impulse voltage resistance / rated value	kV	6
Insulation voltage / rated value	V	690
Active power loss / total / typical	W	5.4
Item designation		
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		F
according to DIN EN 61346-2		F

• of the main contacts / typical100,000Design of the auxiliary workthImage: Contact / Contact	Mechanical operating cycles as operating time		
Design of the auxiliary switchIType of the driving mechanism / motor driveNoDesign of the operating mechanismIProduct functionYes• overload protectionYes• overload protectionYes• nucliary switchYes• undervoltage release mechanismNo• indervoltage release mechanismNo• order statssion / optional / motor driveNoProduct statssion / optional / motor driveNo• Order statssion / optional / motor driveNo• Order statssion / auxiliary solutage / at AC-3 / at 400 V / rated valueA• of the non-delayed short-circuit releaseA• at 600 V / rated valueW• at 600 V / rated valueNo• at fact V rated valueNo• at fact A 1 at 200 V / rated valueI• at fact A 1 at 200 V rated valueI• at fact A 1 at 200 V rated valueI• at fact A 1 at 200 V rated valueI• at fact A 1 at 200 V rated valueI <t< td=""><td>of the main contacts / typical</td><td></td><td>100,000</td></t<>	of the main contacts / typical		100,000
Type of the driving mechanism / motor driveNoDesign of the operating mechanismselector switchProduct functionYes• overload protectionYes• phase disturbance recognitionYesProduct componentYes• studingr switchYes• undervoltage release mechanismNo• trip indicatorNoProduct extension / optional / motor driveNoMumber of poles / for main current circuit3Operating outrage / at AC-3 / rated valueAservice power / at AC-3W• at 600 V/ rated valueW• at 600 V/ rated valueW• at 600 V/ rated valueW• of the one-delayed short-circuit releaseA• of the current-dependent overload releaseA<	 of the auxiliary contacts / typical 		100,000
Design of the operating mechanism Selector switch Product function Yes • overload protection Yes • phase distribution erecognition Yes • auxiliary switch Yes • undervoltage release mechanism No • tip indicator No Product extension / optional / motor drive No Maln circuit: No Number of poles / for main current circuit 3 Operating voltage / at AC-3 / rated value / maximum V Value / rated value A • at 400 V / rated value W • of the non-delayed shor-dric	Design of the auxiliary switch		transverse
Product function Yes • overload protection Yes • phase disturbance recognition Yes Product component Yes • undervoltage release mechanism No • trip indicator No Product stension / optional / motor drive No Main circuit: No Number of poles / for main current circuit 3 Operating voltage / at AC-3 / rated value / maximum V 690 Operating voltage / at AC-3 / at 400 V / rated value A 0.6 Service power / at AC-3 W 180 • at 400 V / rated value W 180 • at 400 V / rated value W 3700 Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Top and bottom • at 400 V / rated value W 300 • at 500 V / rated value W 10 • at 500 V / rated value W 300 • at 600 V / rated value W 300 • at 600 V / rated value W 30 • of the non-delayed short-circuit release A	Type of the driving mechanism / motor drive		No
• overlad protectionYes• phase disturbance recognitionYesProduct componentYes• audilary switchNo• underroltage release mechanismNo• trip indicatorNoProduct extension / optional / motor driveNoProduct extension / optional / motor driveNoOperating outlage / at AC-3 / rated value / maximumV00parating outlage / at AC-3 / rated value / maximumV00parating outlage / at AC-3 / rated value / maximumV00parating outlage / at AC-3 / rated valueA00parating outlage / at AC-3 / rated valueW01 optication / at AC-3 / rated valueW02 optication / at AC-3 / rated valueW03 optication / at AC-3 / rated valueW04 dob V / rated valueW05 optication / at AC-3 / according to IEC 60047-6-2 / maximumTop and bottom17 requency of operation / at AC-3 / according to IEC 60047-6-2 / maximumTop and bottom18 dob V / rated valueA101019 distable response currentA101010 distable response currentA0.810 distable response current / rated valueA0.810 distable response current / rated valueA0.810 distable response curren	Design of the operating mechanism	-	selector switch
• phase distribute recognitionImage: Second Sec	Product function	-	
Product component Image: Component • auxiliary switch Yes • undervoltage release mechanism No • trip indicator No Product extension / optional / motor drive No Main circuit: 3 Operating voltage / at AC-3 / rated value / maximum V Operating current / at AC-3 / rated value / maximum V Operating current / at AC-3 / rated value / maximum V Operating current / at AC-3 / rated value A • at 400 V / rated value A • at 400 V / rated value W • at 600 V / rated value W • of the non-delayed short-circuit release A • of the non-delayed short-circuit release A • of the current-dependent overload release A • Oftic cortracts / for auxiliary con	overload protection		Yes
• auxiliary switchYes• undervaltage release mechanismNo• trip indicatorNoProduct extension / optional / motor driveNoProduct extension / optional / motor driveNoProduct extension / optional / motor driveNoMumber of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumV990Operating current / at AC-3 / at 400 V / rated valueA0.6Service power / at AC-3W180• at 400 V / rated valueW250• at 400 V / rated valueW370• at 600 V / rated valueW370• at 600 V / rated valueW370• at 600 V / rated valueW300• at 600 V / rated valueW370• at 600 V / rated valueW300• at 600 V / rated valueW370• at 600 V / rated valueW300• frequency of operatin / at AC-3 / according to EC 60047-621 axiet1/h• frequency of operatin / at AC-3 / according to EC 60047-621 axiet1/h• frequency of operatin / at AC-3 / according to EC 60047-621 axiet1/h• frequency of operatin / at AC-3 / according to EC 60047-621 axiet1/h• of the non-deleyed short-circuit releaseA0.55 0.8• of the current / d	phase disturbance recognition		Yes
• undervoltage release mechanismNo• trip indicatorNoProduct extension / optional / motor driveNoMain circuit:3Number of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumV600600Operating current / at AC-3 / rated value / maximumVservice power / at AC-3 / at 400 V / rated valueA00.6Service power / at AC-3 / at 400 V / rated valueW180009001180115115115110 101	Product component		
• trip indicatorNoProduct extension / optional / motor driveNoMain circuit:NoNumber of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumV690Operating current / at AC-3 / rated value / maximumV690Operating current / at AC-3 / rated value / maximumV690Operating current / at AC-3 / rated valueM0Service power / at AC-3W180Service power / at AC-3W250• at 400 V / rated valueW370Frequency of operation / at AC-3 / according to IEC 60947-6-271/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentA0.55 0.8Service power / at AC-3 / at 230 V / rated valueW120Continuous current / rated valueM120Ottinuous current / rated valueM120Continuous current / rated valueM120Continuous current / rated valueM120Continuous current / rated valueM120Continuous current / rated valueM120Druduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching1Number of NC contacts / for auxiliary contacts / instantaneous switching0Operating current / of the auxiliary contacts0Operating current / of the auxiliary contacts0	auxiliary switch		Yes
Product extension / optional / motor drive No Main circuit: 3 Number of poles / for main current circuit 3 Operating voltage / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / at 400 V / rated value A 0.6 Service power / at AC-3 W 180 • at 400 V / rated value W 180 • at 400 V / rated value W 250 • at 400 V / rated value W 370 Frequency of operation / at AC-3 / according to IEC 60947-6-2 / at 690 V / rated value Top and bottom Arrangement of electrical connectors / for main current circuit Top and bottom Adjustable response current 0.55 0.8 10 • of the non-delayed short-circuit release A 10 10 • of the current-dependent overload release A 0.8 Service power / at AC-3 / at 230 V / rated value Yes Number of NC contacts / for auxiliary contacts / instantaneous switching 1 Number of NC contacts / for auxiliary contacts / instantaneous switching 1 Number of NC contacts / for auxiliary contacts / instantaneous switching 1 Service of NO contacts / for auxiliary cont	undervoltage release mechanism		No
Main circuit: 3 Operating voltage / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / at 400 V / rated value A 0.6 Service power / at AC-3 - - • at 400 V / rated value W 180 • at 400 V / rated value W 250 • at 690 V / rated value W 370 Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Top and bottom Arrangement of electrical connectors / for main current circuit Top and bottom Adjustable response current - - • of the non-delayed short-circuit release A 10 10 • of the current-dependent overload release A 0.55 0.8 Service power / at AC-3 / at 230 V / rated value W 120 Continuous current / rated value Yes 1 Number of NC contacts / for auxiliary contacts / instantaneous switching 1 1 Number of NC contacts / for auxiliary contacts / instantaneous switching 0 0 0 Number of NO contacts / for auxiliary contacts / instantaneous switching <	• trip indicator		No
Number of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumV690Operating current / at AC-3 / at 400 V / rated valueA0.6Service power / at AC-3W180• at 400 V / rated valueW250• at 600 V / rated valueW370• at 600 V / rated valueW370Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response current • of the non-delayed short-circuit releaseA10 10• of the current-dependent overload releaseA0.8Service power / at AC-3 / at 230 V / rated valueW120Continuous current / rated valueW120Mumber of NC contacts / for auxiliary contacts / instantaneous switchingYesNumber of NC contacts / for auxiliary contacts / instantaneous switching1Number of NC contacts / for auxiliary contacts / instantaneous switching0Operating current / of the auxiliary contacts0	Product extension / optional / motor drive		No
Operating voltage / at AC-3 / rated value / maximumV690Operating current / at AC-3 / at 400 V / rated valueA0.6Service power / at AC-3W180• at 400 V / rated valueW250• at 600 V / rated valueW370Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximumTop and bottomArrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentV100• of the non-delayed short-circuit releaseA0.55 0.8Service power / at AC-3 / at 230 V / rated valueW120Continuous current / rated valueW120Auxillary circuit:YesProduct extension / auxillary switchYesNumber of NC contacts / for auxillary contacts / instantaneous switching1Number of NO contacts / for auxillary contacts0Operating current / of the auxillary contacts6	Main circuit:		
Operating current / at AC-3 / at 400 V / rated valueA0.6Service power / at AC-3W180• at 400 V / rated valueW250• at 500 V / rated valueW250• at 690 V / rated valueW370Frequency of operation / at AC-3 / according to IEC 60947-62 / maximumTop and bottomAdjustable response currentTop and bottom• of the non-delayed short-circuit releaseA10 10Service power / at AC-3 / at 230 V / rated valueW120Continuous current / rated valueW120Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching1Number of change-over switches / for auxiliary contacts / instantaneous switching1Number of change-over switches / for auxiliary contacts0Operating current / of the auxiliary contacts0	Number of poles / for main current circuit		3
Service power / at AC-3W• at 400 V / rated valueW• at 500 V / rated valueW• at 690 V / rated valueW• at 690 V / rated valueW70Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentI• of the non-delayed short-circuit releaseA• of the non-delayed short-circuit releaseA• of the current-dependent overload releaseAService power / at AC-3 / at 230 V / rated valueW200120Continuous current / rated valueWAuxiliary circuit:Product extension / auxiliary contacts / instantaneous switchingYesNumber of NC contacts / for auxiliary contacts / instantaneous switching1Number of NO contacts / for auxiliary contacts0Operating current / of the auxiliary contacts6	Operating voltage / at AC-3 / rated value / maximum	V	690
• at 40 V / rated valueW180• at 500 V / rated valueW250• at 690 V / rated valueW370Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentITop and bottom• of the non-delayed short-circuit releaseA10 10• of the current-dependent overload releaseA0.55 0.8Service power / at AC-3 / at 230 V / rated valueW120Continuous current / rated valueW120Auxiliary circuit:YesProduct extension / auxiliary contacts / instantaneous switchingYesNumber of NC contacts / for auxiliary contacts / instantaneous switching1Number of NO contacts / for auxiliary contacts0Number of ND contacts / for auxiliary contacts0Number of ND contacts / for auxiliary contacts0Number of ND contacts / for auxiliary contacts0	Operating current / at AC-3 / at 400 V / rated value	A	0.6
• at 500 V / rated valueW250• at 690 V / rated valueW370Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentTop and bottom• of the non-delayed short-circuit releaseA10 10• of the current-dependent overload releaseA0.55 0.8Service power / at AC-3 / at 230 V / rated valueW120Continuous current / rated valueW120Auxiliary circuit:VesProduct extension / auxiliary switchSesNumber of NC contacts / for auxiliary contacts / instantaneous switching1Number of change-over switches / for auxiliary contacts0Number of change-over switches / for auxiliary contacts0Operating current / of the auxiliary contacts0	Service power / at AC-3	-	
• at 690 V / rated valueW370Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentITop and bottom• of the non-delayed short-circuit releaseA10 10• of the current-dependent overload releaseA0.55 0.8Service power / at AC-3 / at 230 V / rated valueW120Continuous current / rated valueW120Auxiliary circuit:IYesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching1Number of change-over switches / for auxiliary contacts0Number of change-over switches / for auxiliary contactsIOperating current / of the auxiliary contactsI	• at 400 V / rated value	W	180
Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentImage: Contract of the non-delayed short-circuit releaseA10 10• of the non-delayed short-circuit releaseA0.55 0.8• of the current-dependent overload releaseA0.55 0.8Service power / at AC-3 / at 230 V / rated valueW120Continuous current / rated valueA0.8VurticitierProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching1Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts0	• at 500 V / rated value	W	250
maximumImage: maximumArrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentTop and bottom• of the non-delayed short-circuit releaseA10 10• of the current-dependent overload releaseA0.55 0.8Service power / at AC-3 / at 230 V / rated valueW120Continuous current / rated valueA0.8Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching1Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contactsGot0	• at 690 V / rated value	W	370
Adjustable response currentA• of the non-delayed short-circuit releaseA10 10• of the current-dependent overload releaseA0.55 0.8Service power / at AC-3 / at 230 V / rated valueW120Continuous current / rated valueA0.8Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching1Number of NO contacts / for auxiliary contacts / instantaneous switching1Number of change-over switches / for auxiliary contacts0Operating current / of the auxiliary contacts0		1/h	15
• of the non-delayed short-circuit releaseA10 10• of the current-dependent overload releaseA0.55 0.8Service power / at AC-3 / at 230 V / rated valueW120Continuous current / rated valueA0.8VProduct extension / auxiliary switchNumber of NC contacts / for auxiliary contacts / instantaneous switchingYesNumber of NO contacts / for auxiliary contacts / instantaneous switching1Number of change-over switches / for auxiliary contacts0Operating current / of the auxiliary contactsI	Arrangement of electrical connectors / for main current circuit		Top and bottom
• of the current-dependent overload releaseA0.55 0.8Service power / at AC-3 / at 230 V / rated valueW120Continuous current / rated valueA0.8Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching1Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts0Operating current / of the auxiliary contactsI	Adjustable response current	-	
Service power / at AC-3 / at 230 V / rated valueW120Continuous current / rated valueA0.8Auxiliary circuit:Product extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching1Number of NO contacts / for auxiliary contacts / instantaneous switching1Number of change-over switches / for auxiliary contacts0Operating current / of the auxiliary contactsI	 of the non-delayed short-circuit release 	А	10 10
Continuous current / rated valueA0.8Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching1Number of NO contacts / for auxiliary contacts / instantaneous switching1Number of NO contacts / for auxiliary contacts / instantaneous switching0Operating current / of the auxiliary contactsI	 of the current-dependent overload release 	А	0.55 0.8
Auxiliary circuit: Yes Product extension / auxiliary switch Yes Number of NC contacts / for auxiliary contacts / instantaneous switching 1 Number of NO contacts / for auxiliary contacts / instantaneous switching 1 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Operating current / of the auxiliary contacts 0	Service power / at AC-3 / at 230 V / rated value	W	120
Product extension / auxiliary switch Yes Number of NC contacts / for auxiliary contacts / instantaneous switching 1 Number of NO contacts / for auxiliary contacts / instantaneous switching 1 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of change-over switches / for auxiliary contacts 0 Operating current / of the auxiliary contacts 1	Continuous current / rated value	А	0.8
Number of NC contacts / for auxiliary contacts / instantaneous switching 1 Number of NO contacts / for auxiliary contacts / instantaneous switching 1 Number of change-over switches / for auxiliary contacts 0 Operating current / of the auxiliary contacts 0	Auxiliary circuit:		
switching 1 Number of NO contacts / for auxiliary contacts / instantaneous switching 1 Number of change-over switches / for auxiliary contacts 0 Operating current / of the auxiliary contacts 0	Product extension / auxiliary switch		Yes
switching 0 Number of change-over switches / for auxiliary contacts 0 Operating current / of the auxiliary contacts 0	-		1
Operating current / of the auxiliary contacts			1
	Number of change-over switches / for auxiliary contacts		0
• at AC-12 / maximum A 2.5	Operating current / of the auxiliary contacts		
	• at AC-12 / maximum	А	2.5

• at AC-15		
• at 24 V	А	2
• at 230 V	А	0.5
• at DC-13		
• maximum	А	1
• at 24 V	А	1
• at 60 V	А	0.15

0

Inputs/ Outputs:

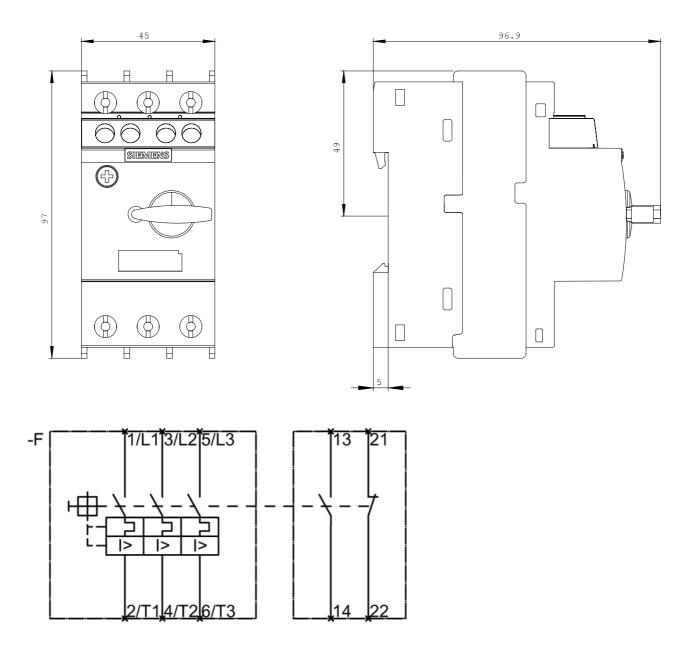
Number of digital inputs

Short-circuit:		
Breaking capacity limit short-circuit current (lcu)		
• at 400 V / rated value	А	100,000
• at 500 V / rated value	А	100,000
• at 690 V / rated value	А	100,000
Design of the fuse link / for short-circuit protection of the auxiliary switch / required		Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current Ik < 400 A)
Design of the overcurrent release and short-circuit release		thermomagnetic

Installation/mounting/dimensions:			
Built in orientation		any	
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715	
Width	mm	45	
Height	mm	97	
Depth	mm	91	
Distance, to be maintained, to the ranks assembly			
• forwards	mm	0	
backwards	mm	0	
• upwards	mm	50	
downwards	mm	50	
• sidewards	mm	0	
Distance, to be maintained, to earthed part			
forwards	mm	0	
backwards	mm	0	
• upwards	mm	50	
• sidewards	mm	30	
downwards	mm	50	
Distance, to be maintained, conductive elements			
• forwards	mm	0	
backwards	mm	0	

• upwards	mm	50
• downwards	mm	50
• sidewards	mm	30
Commostioner		
Connections:		
Product function		
removable terminal for main circuit		No
removable terminal for auxiliary and control circuit		No
Design of the electrical connection		
for main current circuit		screw-type terminals
 for auxiliary and control current circuit 		screw-type terminals
Type of the connectable conductor cross-section		
for main contacts		
• solid		2x (0.75 2.5 mm²), 2x (1 4 mm²)
• stranded		2x (0.75 2.5 mm²), 2x 4 mm²
finely stranded		
 with conductor end processing 		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors / for main contacts 		2x (18 14), 2x 12
for auxiliary contacts		
• solid		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
finely stranded		
with conductor end processing		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors / for auxiliary contacts 		2x (20 16), 2x (18 14)
Certificates/approvals:		
Verification of suitability		CE / UL / CSA
für Staubexplosionsschutz für Zone 21/22		no
 for gas explosion protection for zone 1/2 		no

General Product	Approval			For use in hazardo	us locations
coc	(SA)	ROSTEST		DEKRA EXAM, DMT	
Test Certificates					
Manufacturer	other				
Shipping Approv	val				
ABS	GL	Lloyd's Kegister	PRS	RINA	RMRS
other					
Manufacturer	<u>other</u>	DE VDE			
UL/CSA ratings					
Contact rating des UL	signation / for auxilia	ry contacts / according to		C300 / R300	
Safety:					
B10 value / with hi	igh demand rate				
according to SN 31920			50,000		
-	f test interval or serv	ice life			
 according to IE 			а	10	
	alue) / with low dema	nd rate			
 according to SN 			FIT	50	
Proportion of dang					
	nd rate / according to S		%	40	
	nd rate / according to s	SN 31920	%	40	
Protection against electrical shock			finger-safe		
Further informat	tion:				
	Downloadcenter (Cata com/industrial-control				
	ine ordering system) .com/industrial-control	s/mall			
CAx-Online-Gener					
Service&Support (s, Characteristics, FAQs,)			
	nation.siemens.com/W	W/view/en/3RV2011-0HA15/	all		



last change:

Oct 24, 2011