SIEMENS

Product data sheet 3RV2711-1JD10



CIRCUIT-BREAKER SZ S00, FOR PLANT PROTECTION, WITH APPROBATION CIRCUIT-BREAKER UL 489. CSA C22.2 NO.5-02. A-RELEASE 10 A, N-RELEASE 130 A, SCREW CONNECTION, STANDARD SW. CAPACITY

General technical data:		
Product brand name		SIRIUS
product designation		3RV2 circuit breaker
Size of the circuit-breaker		S00
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	8.7
Item designation		
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		F
according to DIN EN 61346-2		F
Mechanical operating cycles as operating time		

- of the auxiliary contacts / typical Type of the driving mechanism / motor drive Design of the operating mechanism Product function - overload protection - phase disturbance recognition Product component - auxiliary switch - undervoltage release mechanism - trip indicator Product extension / optional / motor drive Main circuit: Number of poles / for main current circuit - at 400 V / rated value - at 500 V / rated value - at 630 V / rated	of the main contacts / typical		100,000
Design of the operating mechanism Product function • overload protection • phase disturbance recognition Product component • auxiliary switch • undervoltage release mechanism • irip indicator Product extension / optional / motor drive No Main circuit: Number of poles / for main current circuit Service power / at AC-3 / at 400 V / rated value • at 690 V / rated value • by 5,500 • continuous current / rated value • by 2,200 • continuous current / rated value • by 2,200 • continuous current / rated value • by 2,200 • continuous current / rated value • by 690 • continuous current / rated value • by 690 • continuous current / rated value •	of the auxiliary contacts / typical		100,000
Product function • overload protection • phase disturbance recognition Product component • auxiliary switch • undervoltage release mechanism • trip indicator Product extension / optional / motor drive No Main circuit: Number of poles / for main current circuit Operating voltage / at AC-3 / rated value / maximum Operating current / at AC-3 / at 400 V / rated value • at 400 V / rated value • at 500 V / rated value • at 690 V / rated value • by 7,500 Prequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Service power / at AC-3 / at 230 V / rated value W 2,200 Continuous current / rated value A 10 Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts / instantaneous switching Number of digital inputs 0 Short-circuit: Breaking capacity limit short-circuit current (Icu) • at 400 V / rated value A 100,000	Type of the driving mechanism / motor drive		No
voverload protection phase disturbance recognition Product component undervoltage release mechanism vip indicator Product extension / optional / motor drive No Product extension / optional / motor drive No Main circuit: Number of poles / for main current circuit Operating voltage / at AC-3 / rated value / maximum Operating current / at AC-3 / at 400 V / rated value at 800 V / rated value at 800 V / rated value at 600 V / rated value because of electrical connectors / for main current circuit Service power / at AC-3 / at 230 V / rated value Continuous current / rated value Operating voltage / at AC-3 / at 230 V / rated value Operating voltage / at AC-3 / at 230 V / rated value Operating voltage / at AC-3 / at 230 V / rated value Operating voltage / at AC-3 / at 230 V / rated value Operating voltage / at AC-3 / at 230 V / rated value Operating voltage / at AC-3 / at 230 V / rated value Operating voltage / at AC-3 / at 230 V / rated value Operating voltage / at AC-3 / at 230 V / rated value Operating voltage / at AC-3 / at 230 V / rated value Operating voltage / at AC-3 / at 230 V / rated value Operating voltage / at AC-3 / at 230 V / rated value Operating voltage / at AC-3 / at 230 V / rated value Operating voltage / at AC-3 / at 230 V / r	Design of the operating mechanism		selector switch
Product component - auxiliary switch - undervoltage release mechanism - trip indicator Product extension / optional / motor drive No Main circuit: Number of poles / for main current circuit Operating vortage / at AC-3 / rated value / maximum Operating current / at AC-3 / at 400 V / rated value - at 600 V / rated value Arrangement of electrical connectors / for main current circuit Service power / at AC-3 / at 230 V / rated value Arrangement of electrical connectors / for main current circuit Service power / at AC-3 / at 230 V / rated value A 10 Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts / instantaneous switching Number of ND contacts / for auxiliary contacts / instantaneous switching Number of digital inputs O Short-circuit: Breaking capacity limit short-circuit current (icu) - at 400 V / rated value A 100,000	Product function	_	
Product component - auxiliary switch - undervoltage release mechanism - trip indicator Product extension / optional / motor drive Main circuit: Number of poles / for main current circuit Operating voltage / at AC-3 / rated value / maximum Operating current / at AC-3 / at 400 V / rated value - at 400 V / rated value Prequency of operation / at AC-3 / according to IEC 60947-8-2 / life Arrangement of electrical connectors / for main current circuit Service power / at AC-3 / at 230 V / rated value W	overload protection		Yes
- auxiliary switch - undervoltage release mechanism - trip indicator Product extension / optional / motor drive No Main circuit: Number of poles / for main current circuit Operating voltage / at AC-3 / rated value / maximum Operating current / at AC-3 / rated value / maximum Operating current / at AC-3 / at 400 V / rated value - at 400 V / rated value - at 400 V / rated value - at 500 V / rated value - at 600 V	phase disturbance recognition		No
• undervoltage release mechanism • trip indicator Product extension / optional / motor drive Main circuit: Number of poles / for main current circuit Operating voltage / at AC-3 / rated value / maximum Operating current / at AC-3 / at 400 V / rated value A 8.5 Service power / at AC-3 • at 400 V / rated value • at 500 V / rated value • at 500 V / rated value • at 500 V / rated value Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Arrangement of electrical connectors / for main current circuit Service power / at AC-3 / at 230 V / rated value W 2,200 Continuous current / rated value A 10 Auxillary circuit: Product extension / auxillary switch Number of NC contacts / for auxillary contacts / instantaneous switching Number of NC contacts / for auxillary contacts / instantaneous switching Number of Ange-over switches / for auxillary contacts / instantaneous switching Number of digital inputs O Short-circuit: Breaking capacity limit short-circuit current (icu) • at 400 V / rated value A 100,000	Product component		
+ trip indicator Product extension / optional / motor drive Main circuit: Number of poles / for main current circuit Operating voltage / at AC-3 / rated value / maximum Operating current / at AC-3 / at 400 V / rated value A 8.5 Service power / at AC-3 - at 400 V / rated value - at 500 V / rated value - at 690 V / rated value - A 7,500 Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Arrangement of electrical connectors / for main current circuit Service power / at AC-3 / at 230 V / rated value W 2,200 Continuous current / rated value W 2,200 A 10 Auxillary circuit: Product extension / auxillary switch Number of NC contacts / for auxillary contacts / instantaneous switching Number of NO contacts / for auxillary contacts / instantaneous switching Number of digital inputs 0 Short-circuit: Breaking capacity limit short-circuit current (Icu) - at 400 V / rated value A 10,000	auxiliary switch		No
Product extension / optional / motor drive Main circuit: Number of poles / for main current circuit Operating voltage / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / at 400 V / rated value A 8.5 Service power / at AC-3 - at 400 V / rated value - at 500 V / rated value - at 690 V / rated value -	undervoltage release mechanism		No
Number of poles / for main current circuit Operating voltage / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / at 400 V / rated value A 8.5 Service power / at AC-3 - at 400 V / rated value - at 500 V / rated value - at 690 V	trip indicator		No
Number of poles / for main current circuit Operating voltage / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / at 400 V / rated value Service power / at AC-3 • at 400 V / rated value • at 500 V / rated value • at 500 V / rated value • at 690 V 4,000 A 8.5 Service power / at AC-3 • at 400 V / rated value • at 690 V / rated value • at 500 V / rated value • at 690 V / rated value Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Arrangement of electrical connectors / for main current circuit Service power / at AC-3 / at 230 V / rated value Continuous current / rated value Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts Inputs/ Outputs: Number of digital inputs O Short-circuit: Breaking capacity limit short-circuit current (Icu) • at 400 V / rated value A 85 85 85 85 85 85 85 85 85 85	Product extension / optional / motor drive		No
Operating voltage / at AC-3 / rated value / maximum Operating current / at AC-3 / at 400 V / rated value Service power / at AC-3 • at 400 V / rated value • at 500 V / rated value • at 690 V / rated value W	Main circuit:		
Operating current / at AC-3 / at 400 V / rated value Service power / at AC-3 • at 400 V / rated value • at 500 V / rated value • at 690 V / rated value • at 690 V / rated value Trequency of operation / at AC-3 / according to IEC 60947-6-2 / www. 7,500 Frequency of operation / at AC-3 / according to IEC 60947-6-2 / www. 7,500 Frequency of operation / at AC-3 / according to IEC 60947-6-2 / www. 7,500 Arrangement of electrical connectors / for main current circuit Service power / at AC-3 / at 230 V / rated value Continuous current / rated value Www. 2,200 Auxilliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts Inputs/ Outputs: Number of digital inputs 0 Short-circuit: Breaking capacity limit short-circuit current (Icu) • at 400 V / rated value A 100,000	Number of poles / for main current circuit		3
Service power / at AC-3 • at 400 V / rated value • at 500 V / rated value • at 690 V / rated value • at 690 V / rated value Prequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Arrangement of electrical connectors / for main current circuit Service power / at AC-3 / at 230 V / rated value W 2,200 Continuous current / rated value W 2,200 Continuous current / rated value Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of dange-over switches / for auxiliary contacts Inputs/ Outputs: Number of digital inputs O Short-circuit: Breaking capacity limit short-circuit current (Icu) • at 400 V / rated value A 100,000	Operating voltage / at AC-3 / rated value / maximum	V	690
• at 400 V / rated value • at 500 V / rated value • at 690 V / rated value Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Arrangement of electrical connectors / for main current circuit Service power / at AC-3 / at 230 V / rated value Continuous current / rated value W 2,200 Continuous current / rated value W 2,200 A 10 Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of dange-over switches / for auxiliary contacts Inputs/ Outputs: Number of digital inputs O Short-circuit: Breaking capacity limit short-circuit current (lcu) • at 400 V / rated value A 4,000 W 7,500 Top and bottom Top and bottom Yes O O O O O A 10 O O Inputs/ Outputs: Number of digital inputs O A 100,000	Operating current / at AC-3 / at 400 V / rated value	Α	8.5
• at 500 V / rated value • at 690 V / rated value Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Arrangement of electrical connectors / for main current circuit Service power / at AC-3 / at 230 V / rated value Continuous current / rated value Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts Inputs/ Outputs: Number of digital inputs O Short-circuit: Breaking capacity limit short-circuit current (lcu) • at 400 V / rated value A 10, A 100,000	Service power / at AC-3		
+ at 690 V / rated value Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Arrangement of electrical connectors / for main current circuit Service power / at AC-3 / at 230 V / rated value Continuous current / rated value Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts Inputs/ Outputs: Number of digital inputs O Short-circuit: Breaking capacity limit short-circuit current (lcu) • at 400 V / rated value W 7,500 1/h 15 Top and bottom Yes 0 0 0 2,200 A 10 O O O A 10 O O O O O O O O O O O O O	at 400 V / rated value	W	4,000
Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Arrangement of electrical connectors / for main current circuit Service power / at AC-3 / at 230 V / rated value Continuous current / rated value Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts Inputs/ Outputs: Number of digital inputs Short-circuit: Breaking capacity limit short-circuit current (Icu) • at 400 V / rated value 15 Top and bottom Top and bottom 7	at 500 V / rated value	W	5,500
maximum Arrangement of electrical connectors / for main current circuit Service power / at AC-3 / at 230 V / rated value Continuous current / rated value Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts Inputs/ Outputs: Number of digital inputs Short-circuit: Breaking capacity limit short-circuit current (Icu) • at 400 V / rated value A 10 Top and bottom Top and	at 690 V / rated value	W	7,500
Service power / at AC-3 / at 230 V / rated value Continuous current / rated value A 10 Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts Inputs/ Outputs: Number of digital inputs O Short-circuit: Breaking capacity limit short-circuit current (Icu) • at 400 V / rated value A 10		1/h	15
Continuous current / rated value A 10 Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts Inputs/ Outputs: Number of digital inputs O Short-circuit: Breaking capacity limit short-circuit current (Icu) • at 400 V / rated value A 100	Arrangement of electrical connectors / for main current circuit		Top and bottom
Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts Inputs/ Outputs: Number of digital inputs O Short-circuit: Breaking capacity limit short-circuit current (Icu) • at 400 V / rated value A 100,000	Service power / at AC-3 / at 230 V / rated value	W	2,200
Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts Inputs/ Outputs: Number of digital inputs O Short-circuit: Breaking capacity limit short-circuit current (Icu) • at 400 V / rated value A 100,000	Continuous current / rated value	Α	10
Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts O Inputs/ Outputs: Number of digital inputs O Short-circuit: Breaking capacity limit short-circuit current (Icu) • at 400 V / rated value A 100,000	Auxiliary circuit:		
Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts Inputs/ Outputs: Number of digital inputs O Short-circuit: Breaking capacity limit short-circuit current (Icu) • at 400 V / rated value A 100,000	Product extension / auxiliary switch		Yes
Number of change-over switches / for auxiliary contacts Inputs/ Outputs: Number of digital inputs O Short-circuit: Breaking capacity limit short-circuit current (Icu) • at 400 V / rated value A 100,000	•		0
Inputs/ Outputs: Number of digital inputs 0 Short-circuit: Breaking capacity limit short-circuit current (Icu) • at 400 V / rated value A 100,000			0
Number of digital inputs Short-circuit: Breaking capacity limit short-circuit current (Icu) • at 400 V / rated value A 100,000	Number of change-over switches / for auxiliary contacts		0
Short-circuit: Breaking capacity limit short-circuit current (Icu) • at 400 V / rated value A 100,000	Inputs/ Outputs:		
Breaking capacity limit short-circuit current (Icu) • at 400 V / rated value A 100,000	Number of digital inputs		0
• at 400 V / rated value A 100,000	Short-circuit:		
	Breaking capacity limit short-circuit current (Icu)		
• at 500 V / rated value A 42,000	• at 400 V / rated value	Α	100,000
	at 500 V / rated value	Α	42,000

• at 690 V / rated value	Α	6,000
Breaking capacity limit short-circuit current (lcu) / at 480 AC Y/277 V / according to UL 489 / rated value	А	65,000
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	144
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

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
Type of the connectable conductor cross-section	
• for main contacts	
• solid	2x (1 10 mm2)
• stranded	1.5 25 mm²

• finely stranded

· with conductor end processing

• for AWG conductors / for main contacts

2x (1 ... 16 mm2) 2x (14 ... 10)

Certificates/approvals:

Verification of suitability

• für Staubexplosionsschutz für Zone 21/22

• for gas explosion protection for zone 1/2

CE/UL/CSA

no

no

General Product Approval



ROSTEST



Test Certificates

Manufacturer

Shipping Approval













other

Manufacturer

other



Safety:		
B10 value / with high demand rate		
according to SN 31920		50,000
T1 value / for proof test interval or service life		
according to IEC 61508	а	10
Failure rate (FIT value) / with low demand rate		
• according to SN 31920	FIT	50
Proportion of dangerous failures		
 with low demand rate / according to SN 31920 	%	40
with high demand rate / according to SN 31920	%	40
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)

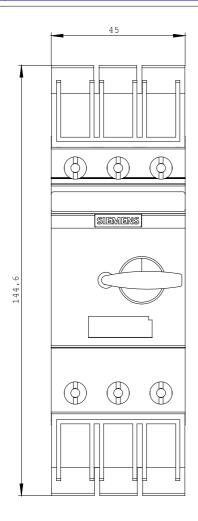
http://www.siemens.com/industrial-controls/mall

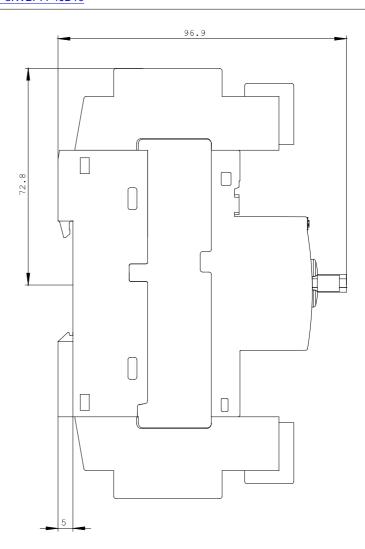
CAx-Online-Generator

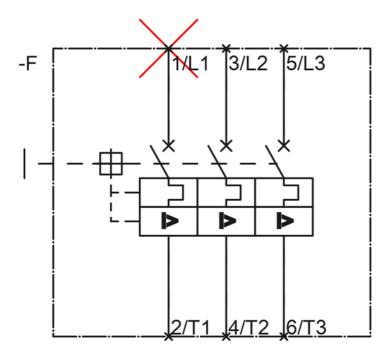
http://www.siemens.com/cax

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

 $\underline{\text{http://support.automation.siemens.com/WW/view/en/3RV2711-1JD10/all}}$







last change: Oct 17, 2011