## SIEMENS

## **Product data sheet**

## 3RV1042-4JA10



CIRCUIT-BREAKER SIZE S3 A-RELEASE 45...63 A, N-RELEASE 819A MOTOR PROTECTION UP TO 100 KA, CLASS 10, SCREW CONNECTION INCREASED BREAKING CAPACITY

General technical data:		
product brand name		SIRIUS
product designation		circuit breaker
Size of the circuit-breaker		S3
Trip class		CLASS 10
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Protection class IP / on the front		IP20
Ambient temperature		
during storage	°C	-50 +80
during operating	°C	-20 +70
during transport	°C	8050
Resistance against shock		25g / 11 ms
Insulation voltage / rated value	V	690
Impulse voltage resistance / rated value	V	6,000
Active power loss / total / typical	W	20
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

Mechanical operating cycles as operating time / of the main contacts / typical	50,000
Type of the driving mechanism / motor drive	No
Design of the operating mechanism	selector switch
Product function	
overload protection	Yes
phase disturbance recognition	Yes
Product component	
auxiliary switch	No
undervoltage release mechanism	No
trip indicator	No
Product extension / optional / motor drive	Yes

Main circuit:		
Number of poles / for main current circuit		3
type of voltage		AC/DC
Operating voltage / at AC-3 / rated value / maximum	V	690
Operating current / at AC-3 / at 400 V / rated value	А	63
Service power / at AC-3		
• at 400 V / rated value	kW	30
Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum	1/h	15
Arrangement of electrical connectors / for main current circuit		front side
Adjustable response current		
<ul> <li>of the non-delayed short-circuit release</li> </ul>	А	819 819
Adjustable response current	-	
<ul> <li>of the current-dependent overload release</li> </ul>	А	45 63
Continuous current / rated value	A	63
Product extension / auxiliary switch		Yes
Auxiliary circuit:		

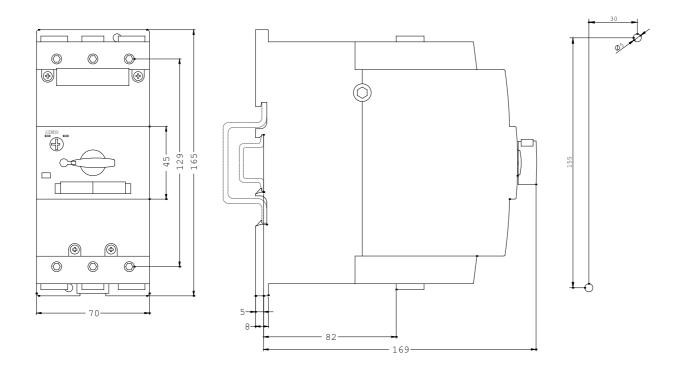
Number of NC contacts / for auxiliary contacts / instantaneous switching	0
Number of NO contacts / for auxiliary contacts / instantaneous switching	0
Number of change-over switches / for auxiliary contacts	0

Inputs/ Outputs:			
Number of digital inputs		0	
Short-circuit:			
Breaking capacity limit short-circuit current (Icu)			
• at 400 V / rated value	kA	100	

• at 500 V / rated value	kA	15
• at 690 V / rated value	kA	7.5
Design of the electrical connection / for auxiliary and control current circuit		screw-type terminals
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 50022
Width	mm	70
Height	mm	165
Depth	mm	174
Distance, to be maintained, to the ranks assembly		
backwards	mm	0
• sidewards	mm	0
Product function / removable terminal for auxiliary and control circuit		No
		No
circuit	-	No
circuit Connections:	-	No screw-type terminals with box terminals
circuit Connections: Design of the electrical connection		
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circuit Connections: Design of the electrical connection • for main current circuit Type of the connectable conductor cross-section • for main contacts • solid • stranded		screw-type terminals with box terminals 2x (2.5 16 mm <sup>2</sup> )
circuit Connections: Design of the electrical connection • for main current circuit Type of the connectable conductor cross-section • for main contacts • solid • stranded • finely stranded		screw-type terminals with box terminals 2x (2.5 16 mm <sup>2</sup> ) 2x (10 50 mm <sup>2</sup> ), 10 70 mm <sup>2</sup>
circuit Connections: Design of the electrical connection • for main current circuit Type of the connectable conductor cross-section • for main contacts • solid • stranded • finely stranded • with conductor end processing		screw-type terminals with box terminals 2x (2.5 16 mm <sup>2</sup> ) 2x (10 50 mm <sup>2</sup> ), 10 70 mm <sup>2</sup> 2x (2.5 35 mm <sup>2</sup> ), 2.5 50 mm <sup>2</sup>
circuit Connections: Design of the electrical connection • for main current circuit Type of the connectable conductor cross-section • for main contacts • solid • stranded • finely stranded • with conductor end processing • for AWG conductors / for main contacts Conductor cross section that can be connected / for main	mm²	screw-type terminals with box terminals 2x (2.5 16 mm <sup>2</sup> ) 2x (10 50 mm <sup>2</sup> ), 10 70 mm <sup>2</sup> 2x (2.5 35 mm <sup>2</sup> ), 2.5 50 mm <sup>2</sup>
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Certificates/approvals:

General Product	t Approval				For use in hazardous locations
COC	(SA)	<u>KETI</u>	ROSTEST		DEKRA EXAM, DMT
Test Certificates	5				
Manufacturer					
Shipping Appro	val				
ABS	BUREAU VERITAS	ĴÅ DNV DNV	G L C	Lloyd's Kegister LRS	RMRS
other					
Manufacturer	other				
Safety:					
Protection agains	st electrical shock		fing	er-safe	
Further informa	ation:				
	Downloadcenter (Cata s.com/industrial-contro				
	line ordering system) s.com/industrial-contro				
CAx-Online-Gene					
	(Manuals, Certificate mation.siemens.com/W				
	product images, 2D d tion.siemens.com/bildc	_	D models, device circuit RV1042-4JA10	t diagrams,)	



last change:

Feb 6, 2012