SIEMENS

Product data sheet

3RV1042-4JB10



CIRCUIT-BREAKER SIZE S3 A-RELEASE 45...63 A, N-RELEASE 819A, MOTOR PROTECTION UP TO 100 KA, CLASS 20, SCREW CONNECTION, INCREASED BREAKING CAPACITY

General technical data:						
product brand name		SIRIUS				
product designation	-	circuit breaker				
Size of the circuit-breaker		S3				
Number of poles / for main current circuit		3				
Product function						
 removable terminal for auxiliary and control circuit 		No				
overload protection		Yes				
phase disturbance recognition		Yes				
short-circuit to earth recognition		No				
Product component						
auxiliary switch		No				
undervoltage release mechanism		No				
• trip indicator	_	No				
Product extension						
auxiliary switch		Yes				
optional / motor drive		Yes				
Impulse voltage resistance / rated value	V	6,000				
Protection class IP / on the front		IP20				
Protection against electrical shock		finger-safe				

Installation altitude / at a height over sea level / maximum	m	2,000
Resistance against shock		25g / 11 ms
Ambient temperature		
during transport	°C	-50 +80
during storage	°C	-50 +80
during operating	°C	-20 +70
Active power loss / total / typical	W	20
Main circuit:		
Operating voltage / rated value	V	690
type of voltage		AC/DC
Service power / at AC-3 / at 400 V / rated value	kW	30
Operating current / at AC-3 / at 400 V / rated value	А	63
Mechanical operating cycles as operating time / of the main contacts / typical		50,000
Frequency of operation / at AC-3 / according to IEC 60947-6-2	1/h	15
Auxiliary circuit:		
Number of changeover contacts / for auxiliary contacts		0
Protection function:		
Trip class		CLASS 20
Adjustable response current / of the current-dependent overload release	А	45 63
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
Installation/mounting/dimensions:		
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
mounting position		any
Depth	mm	174
Height	mm	165
Width	mm	70
Connections:		
Arrangement of electrical connectors / for main current circuit		front side
Design of the electrical connection		
• for main current circuit		screw-type terminals with box terminals

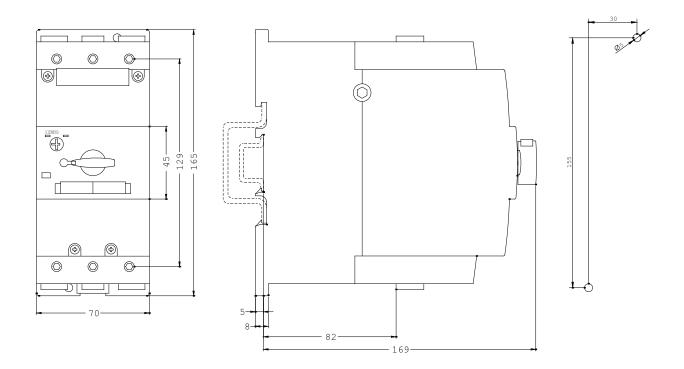
- for main contacts
 - solid
 - finely stranded
 - with conductor end processing
 - stranded

• for AWG conductors / for main contacts

2x (2.5 35 mm²), 2.5 50 mm²
2x (10 50 mm²), 10 70 mm²
2x (10 1), 1x (10 2)

2x (2.5 ... 16 mm²)

Certificates/app	rovals:				
General Product	Approval			Test Certificates	
(SA)	EHC	GOST		Special Test Certificate	
Shipping Approv	val				
ABS	B U R E A U V E R I TAS	ĴÅ DNV DNV	GL	RMRS	
other					
Confirmation	Declaration of Conformity	other	Environmental Confirmations		
Further informat	tion:				
	Downloadcenter (Catalo .com/industrial-controls/				
	ine ordering system) s.com/industrial-controls/	mall			
Cax online genera					
Service&Support (Manuals, Certificates, Characteristics, FAQs,) http://support.automation.siemens.com/WW/view/en/3RV1042-4JB10/all					
	product images, 2D dim ion.siemens.com/bilddb/		D models, device circuit d RV1042-4JB10	liagrams,)	



last change:

Oct 28, 2013