## SIEMENS

## Data sheet

## 3RV1042-4HB10



Circuit breaker size S3 A-release 36...50 A Short-circuit release 650 A Motor protection up to 100 kA,Class 20 Screw terminal Increased switching capacity !!! Phased-out product !!! Successor is SIRIUS 3RV2 Preferred successor type is >>3RV2042-4HB10<<

product brand name	SIRIUS
product designation	circuit breaker
design of the product	for motor protection
General technical data	
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	27 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	9 W
surge voltage resistance rated value	6 000 V
protection class IP on the front	IP20
shock resistance	25g / 11 ms
mechanical service life (switching cycles) of the main contacts typical	50 000
continuous current rated value	50 A
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
<ul> <li>ambient temperature during operation</li> </ul>	-20 +60 °C
<ul> <li>ambient temperature during storage</li> </ul>	-50 +80 °C
<ul> <li>ambient temperature during transport</li> </ul>	-50 +80 °C
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	36 50 A
<ul> <li>operating voltage rated value</li> </ul>	690 V
<ul> <li>operating voltage at AC-3 rated value maximum</li> </ul>	690 V
operational current at AC-3 at 400 V rated value	50 A
operating power at AC-3	
at 400 V rated value	22 kW
operating frequency at AC-3 maximum	15 1/h
Auxiliary circuit	
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
<ul> <li>ground fault detection</li> </ul>	No
<ul> <li>phase failure detection</li> </ul>	Yes
trip class	Class 20
breaking capacity maximum short-circuit current (lcu)	



• at AC at 240 V			100 kA			
<ul> <li>at AC at 400 V rated value</li> <li>at AC at 500 V rated value</li> </ul>		100 kA				
			15 kA			
• at AC at 690 V			10 kA			
Short-circuit protection						
design of the overcurrent release and short-circuit release			thermomagnetic			
Installation/ mounting	g/ dimensions					
mounting position			any			
fastening method			screw and snap-on mounti according to DIN EN 5002		d mounting rail	
height			165 mm			
width			70 mm			
depth			174 mm			
required spacing with	side-by-side mounting					
• backwards			0 mm			
<ul> <li>at the side</li> </ul>						
Connections/ Termina	als					
product function remo	ovable terminal for auxili	ary and	No			
type of electrical co	nnection					
<ul> <li>for main curren</li> </ul>			screw-type terminals with I	pox terminals		
<ul> <li>for auxiliary and</li> </ul>	d control circuit		screw-type terminals			
	trical connectors for n	nain current	front side			
circuit						
type of connectable	conductor cross-sect	ions				
<ul> <li>for main contact</li> </ul>	ets					
— solid			2x (2.5 16 mm²)			
— stranded			2x (10 50 mm²), 1x (10 .	70 mm²)		
— finely strar	nded with core end proc	essing	2x (2.5 35 mm²), 2.5 \$	50 mm²		
<ul> <li>at AWG cables</li> </ul>	for main contacts		2x (10 1), 1x (10 2)			
Certificates/ approval						
approval	5					
	5			For use in	Declaration of	
General Product Ap				For use in hazardous locations	Declaration of Conformity	
		0		hazardous		
		(4)	EUL	hazardous		
		<b>U</b>	EAC	hazardous		
		(U) u	ERC	hazardous	Conformity	
		U	<b>ERE</b> Marine / Shipping	hazardous	Conformity	
General Product Ap	oproval CCC Test Certificates Type Test	Special Ter	st	hazardous	Conformity	
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General Product Ap	oproval CCC Test Certificates Type Test		st	hazardous	Conformity	
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Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1042-4HB10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1042-4HB10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV1042-4HB10

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

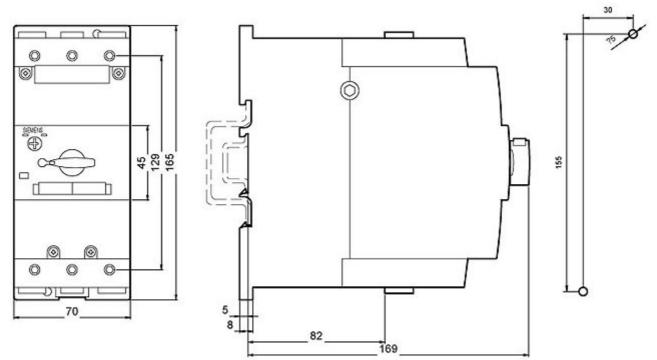
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV1042-4HB10&lang=en

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV1042-4HB10/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1042-4HB10&objecttype=14&gridview=view1



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