Data sheet

3RV2021-4EA15-0BA0



Special type Circuit breaker size S0 for motor protection, CLASS 10 A-release 27...32 A N-release 400 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC Ambient temperature -50 °C 500 switching cycles

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S0
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	13.25 W
 at AC in hot operating state per pole 	4.4 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	25g / 11 ms
mechanical service life (operating cycles)	
 of the main contacts typical 	500
 of auxiliary contacts typical 	500
electrical endurance (operating cycles) typical	500
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
Ambient conditions installation altitude at height above sea level maximum	2 000 m
	2 000 m
installation altitude at height above sea level maximum	2 000 m -50 +60 °C
installation altitude at height above sea level maximum ambient temperature	
installation altitude at height above sea level maximum ambient temperature • during operation	-50 +60 °C
installation altitude at height above sea level maximum ambient temperature • during operation • during storage	-50 +60 °C -50 +80 °C
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport	-50 +60 °C -50 +80 °C -50 +80 °C
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation	-50 +60 °C -50 +80 °C -50 +80 °C
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit	-50 +60 °C -50 +80 °C -50 +80 °C 10 95 %
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-	-50 +60 °C -50 +80 °C -50 +80 °C 10 95 %
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release	-50 +60 °C -50 +80 °C -50 +80 °C 10 95 %
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage	-50 +60 °C -50 +80 °C -50 +80 °C 10 95 %
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value	-50 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 27 32 A
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum	-50 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 27 32 A
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value	-50 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 27 32 A 20 690 V 690 V 50 60 Hz
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operational current rated value	-50 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 27 32 A 20 690 V 690 V 50 60 Hz
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operational current rated value operational current	-50 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 27 32 A 20 690 V 690 V 50 60 Hz 32 A

1000 //	751W		
— at 230 V rated value	7.5 kW		
— at 400 V rated value	15 kW		
— at 500 V rated value	18.5 kW		
— at 690 V rated value	30 kW		
operating frequency			
at AC-3 maximum	15 1/h		
Auxiliary circuit			
design of the auxiliary switch	transverse		
number of NC contacts for auxiliary contacts	1		
number of NO contacts for auxiliary contacts	1		
number of CO contacts for auxiliary contacts	0		
operational current of auxiliary contacts at AC-15			
• at 24 V	2 A		
• at 120 V	0.5 A		
● at 125 V	0.5 A		
• at 230 V	0.5 A		
operational current of auxiliary contacts at DC-13			
• at 24 V	1 A		
● at 60 V	0.15 A		
Protective and monitoring functions			
product function			
ground fault detection	No		
phase failure detection	Yes		
trip class	CLASS 10		
design of the overload release	thermal		
maximum short-circuit current breaking capacity (Icu)			
 at AC at 240 V rated value 	25 kA		
 at AC at 400 V rated value 	25 kA		
 at AC at 500 V rated value 	10 kA		
at AC at 690 V rated value	4 kA		
operating short-circuit current breaking capacity (Ics) at AC			
• at 240 V rated value	10 kA		
 at 400 V rated value 	10 kA		
 at 500 V rated value 	5 kA		
at 690 V rated value	2 kA		
response value current of instantaneous short-circuit trip unit	400 A		
Short-circuit protection			
product function short circuit protection	Yes		
design of the short-circuit trip	magnetic		
design of the fuse link			
for short-circuit protection of the auxiliary switch required	fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)		
design of the fuse link for IT network for short-circuit protection of the main circuit			
• at 400 V	gG 63 A		
• at 500 V	gG 63 A		
• at 690 V	gG 63 A		
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
height	97 mm		
width	45 mm		
depth	97 mm		
required spacing			
 with side-by-side mounting at the side 	0 mm		
 for grounded parts at 400 V 			
— downwards	30 mm		
— upwards	30 mm		
— at the side	9 mm		
 for live parts at 400 V 			
— downwards	30 mm		
— upwards	30 mm		

2)	
), 1x 10 mm²	
mm²)	
mm²)	
the front	
,	Test Certificates
CE EG-Konf.	Special Test Certificate
	EG-Konf.

Test Certificates

Marine / Shipping











Marine / Shipping

other

Railway



Confirmation



Vibration and Shock

Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RV2021-4EA15-0BA0

Cax online generator

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4EA15-0BA0

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

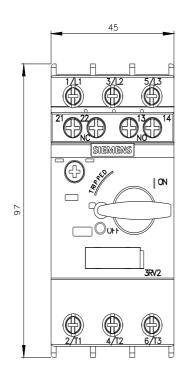
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-4EA15-0BA0&lang=en

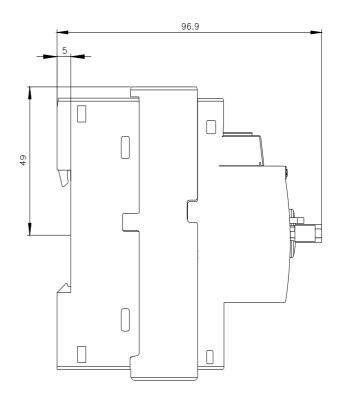
Characteristic: Tripping characteristics, I2t, Let-through current

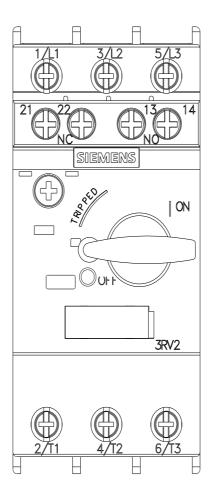
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4EA15-0BA0/char

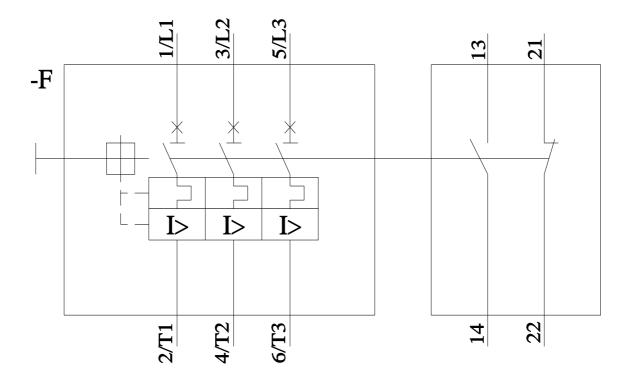
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-4EA15-0BA0&objecttype=14&gridview=view1









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