SIEMENS

Data sheet 3RV2041-4FA15

Circuit breaker size S3 for motor protection, CLASS 10 A-release 28...40 A N-release 520 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC



Figure similar

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	S3
Size of contactor can be combined company-specific	S3
Product extension	
Auxiliary switch	Yes
Power loss [W] total typical	19 W
Insulation voltage with degree of pollution 3 rated	1 000 V
value	
Surge voltage resistance rated value	8 kV
maximum permissible voltage for safe isolation	
• in networks with grounded star point between	400 V
main and auxiliary circuit	
• in networks with grounded star point between	400 V
main and auxiliary circuit	

• on the front • of the terminal Shock resistance • acc. to IEC 60068-2-27 25g / 11 ms Sinus Mechanical service life (ewitching cycles) • of the main contacts typical • of auxiliary contacts of auxiliary contacts of auxiliary from front acc. to IEC 60529 2 000 m Ambient temperature • during operation 2 000 m Ambient conditions 1 000 m Ambient	Protection class IP				
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— at 500 V rated value 22 000 W — at 690 V rated value 37 000 W Operating frequency	— at 230 V rated value				
— at 690 V rated value 37 000 W Operating frequency	— at 400 V rated value	18 500 W			
Operating frequency	— at 500 V rated value	22 000 W			
	— at 690 V rated value	37 000 W			
• at AC-3 maximum 15 1/h	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
— Note	1
Number of NO contacts	
for auxiliary contacts	1
— Note	1
Operating current of auxiliary contacts at AC-15	
● at 24 V	2 A
● at 230 V	0.5 A
Operating 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
Operational short-circuit current breaking capacity	
(Ics) at AC	
• at 240 V rated value	100 000 A
• at 400 V rated value	30 000 A
• at 500 V rated value	6 000 A
• at 690 V rated value	3 000 A
Maximum short-circuit current breaking capacity (Icu)	
• at AC at 240 V rated value	100 kA
• at AC at 400 V rated value	65 kA
• at AC at 500 V rated value	12 kA
• at AC at 690 V rated value	5 kA
Response value current	
• of instantaneous short-circuit trip unit	520 A
UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	40 A
• at 600 V rated value	40 A
Yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp

 for three-phase AC motor 	
— at 200/208 V rated value	15 hp
— at 220/230 V rated value	15 hp
— at 460/480 V rated value	30 hp
— at 575/600 V rated value	40 hp
Contact rating of auxiliary contacts according to UL	C300 / R300

Short-circuit protection		
Product function Short circuit protection	Yes	
Design of the short-circuit trip	magnetic	

stallation/ mounting/ dimensions	
Mounting position	any
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail
	according to DIN EN 60715
Height	165 mm
Width	70 mm
Depth	176 mm
Required spacing	
with side-by-side mounting	
— forwards	0 mm
— Backwards	0 mm
— upwards	150 mm
— downwards	150 mm
— at the side	0 mm
• for grounded parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	150 mm
— at the side	30 mm
— downwards	150 mm
• for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	150 mm
— downwards	150 mm
— at the side	30 mm

Connections/Terminals			
Product function			
 removable terminal for auxiliary and control circuit 	No		
Type of electrical connection			
• for main current circuit	screw-type terminals		

Top and bottom 2x (2.5 16 mm²) 2x (2,5 50 mm²), 1x (10 70 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14)		
2x (2,5 50 mm²), 1x (10 70 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
2x (2,5 50 mm²), 1x (10 70 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
2x (2,5 50 mm²), 1x (10 70 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
2x (20 16), 2x (18 14)		
4.5 6 N·m		
19 mm		
4.5 6 N·m		
0.8 1.2 N·m		
M3		
50 %		
50 %		
10 y		
Handle		

General Product Approval

For use in hazardous locations













IECEx

Declaration of Conformity	Test Certificate	s	other		
	Special Test	Declaration of the	Confirmation	^	Miscellaneo



Certificate

Compliance with the order



ous

Railway

Vibration and Shock

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2041-4FA15

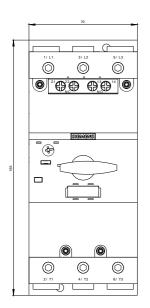
Cax online generator

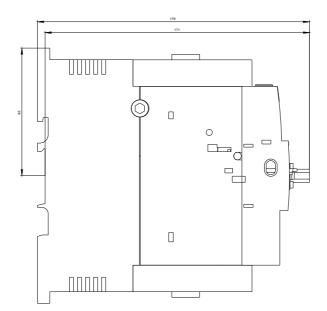
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2041-4FA15

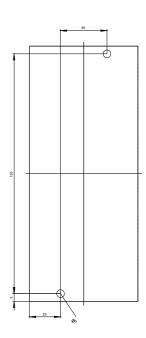
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

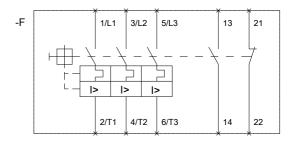
https://support.industry.siemens.com/cs/ww/en/ps/3RV2041-4FA15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2041-4FA15&lang=en











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