SIEMENS

Data sheet

3RV2031-4WA15



Circuit breaker size S2 for motor protection, CLASS 10 A-release 42...52 A N-release 741 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

product designation Circuit breaker design of the product For motor protection product designation Gravit breaker size of the circuit-breaker S2 size of the circuit-breaker S2 product designation auxiliary switch Yes power loss [W] for rated value of the current 8.2 W e at AC in hot operating state per pole 8.2 W insulation voltage with degree of pollution 3 at AC rated value 6 kV surge voltage resistance rated value 6 kV surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 25g / 11 ms Sinus mechanical service life (switching cycles) 60 00 of the main contacts typical 50 000 of auxiliary contacts typical 50 000 electrical endurance (switching cycles) typical 50 000 of auxiliary contacts typical 50 000 ethic on according to ATEX directive 2014/34/EU 2014/34/EU DMT 02 ATEX F 001 2014/34/EU DMT 02 ATEX F 001 ambient temperature 4 uring sporation - during transport <th>product brand name</th> <th>SIRIUS</th>	product brand name	SIRIUS
design of the product For motor protection growtext type designation 3RV2 General technical data size of the circuit-breaker size of the circuit-breaker S2 size of the circuit-breaker S2 product extension auxiliary switch Yes prower loss (Wf for rated value of the current 4.5 W • at AC in hot operating state per pole 8.2 W insulation voltage with degree of pollution 3 at AC rated 680 V surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 25g / 11 ms Sinus mechanical service life (switching cycles) 50 000 • of the main contacts typical 50 000 electrical endurance (switching cycles) typical 50 000 electrical endurance (switching cycles) typical 50 000 type of protection according to ATEX directive 2014/34/EU Certificate of suitability according to ATEX directive 2014/34/EU contrast stypical 50 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during storage -50 +80 °C • during st	•	
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mechanical service life (switching cycles) 0 • of the main contacts typical 50 000 • of auxiliary contacts typical 50 000 electrical endurance (switching cycles) typical 50 000 type of protection according to ATEX directive Ex II (2) GD 2014/34/EU DMT 02 ATEX F 001 certificate of suitability according to ATEX directive DMT 02 ATEX F 001 2014/34/EU Q Substance Prohibitance (Date) 10/15/2014 Ambient conditions 2000 m installation altitude at height above sea level maximum 2 000 m adbient temperature -20 +60 °C • during operation -20 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 20 690 V operating voltage -0 690 V • at AC-3 rated value maximum 690 V	surge voltage resistance rated value	6 kV
• of the main contacts typical50 000• of auxiliary contacts typical50 000electrical endurance (switching cycles) typical50 000type of protection according to ATEX directive 2014/34/EUEx II (2) GDcertificate of suitability according to ATEX directive 2014/34/EUDMT 02 ATEX F 001certificate of suitability according to IEC 81346-2QSubstance Prohibitance (Date)10/15/2014Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation-20 +60 °C• during storage • during transport-50 +80 °Crelative humidity during operation10 95 %Main circuit3number of poles for main current circuit • at AC-3 rated value • at AC-3 rated value maximum20 690 Ve ta AC-3 rated value maximum20 690 V	shock resistance according to IEC 60068-2-27	25g / 11 ms Sinus
• of auxiliary contacts typical 50 000 electrical endurance (switching cycles) typical 50 000 type of protection according to ATEX directive Ex II (2) GD 2014/34/EU DMT 02 ATEX F 001 certificate of suitability according to ATEX directive DMT 02 ATEX F 001 2014/34/EU DMT 02 ATEX F 001 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/15/2014 Ambient conditions 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release -52 A operating voltage - rated value 20 690 V • at AC-3 rated value maximum 690 V	mechanical service life (switching cycles)	
electrical endurance (switching cycles) typical 50 000 type of protection according to ATEX directive 2014/34/EU Ex II (2) GD certificate of suitability according to ATEX directive 2014/34/EU DMT 02 ATEX F 001 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/15/2014 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m adbient temperature -20 +60 °C • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 20 690 V operating voltage - ated value 20 690 V • at AC-3 rated value maximum 690 V	 of the main contacts typical 	50 000
type of protection according to ATEX directive 2014/34/EU Ex II (2) GD certificate of suitability according to ATEX directive 2014/34/EU DMT 02 ATEX F 001 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/15/2014 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 20 690 V operating voltage 20 690 V • at AC-3 rated value maximum 690 V	 of auxiliary contacts typical 	50 000
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2014/34/EU Q reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/15/2014 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 42 52 A operating voltage - • rated value 20 690 V • at AC-3 rated value maximum 690 V		Ex II (2) GD
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Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 42 52 A operating voltage - • rated value 20 690 V • at AC-3 rated value maximum 690 V	reference code according to IEC 81346-2	Q
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• during operation-20 +60 °C• during storage-50 +80 °C• during transport-50 +80 °Crelative humidity during operation10 95 %Main circuit3adjustable current response value current of the current-dependent overload release42 52 Aoperating voltage20 690 V• rated value20 690 V• at AC-3 rated value maximum690 V	installation altitude at height above sea level maximum	2 000 m
 during storage during transport during transport 50 +80 °C centrative humidity during operation 10 95 % 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 So +80 °C -50 +8	ambient temperature	
• during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 42 52 A operating voltage -600 V • rated value 20 690 V • at AC-3 rated value maximum 690 V	 during operation 	-20 +60 °C
relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 42 52 A operating voltage	 during storage 	-50 +80 °C
Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 42 52 A operating voltage - • rated value 20 690 V • at AC-3 rated value maximum 690 V	during transport	-50 +80 °C
number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 42 52 A operating voltage 20 690 V • rated value 20 690 V • at AC-3 rated value maximum 690 V	relative humidity during operation	10 95 %
adjustable current response value current of the current-dependent overload release 42 52 A operating voltage 20 690 V • rated value 690 V	Main circuit	
current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V	number of poles for main current circuit	3
rated value at AC-3 rated value maximum 20 690 V		42 52 A
• at AC-3 rated value maximum 690 V	operating voltage	
	rated value	20 690 V
• at AC-3e rated value maximum 690 V	 at AC-3 rated value maximum 	690 V
	 at AC-3e rated value maximum 	690 V

operating frequency rated value	50 60 Hz
operational current rated value	52 A
operational current	
 at AC-3 at 400 V rated value 	52 A
 at AC-3e at 400 V rated value 	52 A
operating power	
• at AC-3	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	45 kW
• at AC-3e	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	45 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e 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
operational current of auxiliary contacts at AC-15	
• at 24 V	2 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
● at 110 V	0 A
• at 125 V	0 A
• at 220 V	0 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
breaking capacity maximum short-circuit current (lcu)	
 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	8 kA
• at AC at 690 V rated value	4 kA
breaking capacity operating short-circuit current (lcs)	
at AC	100 kA
at 240 V rated value at 400 V rated value	100 kA 30 kA
 at 400 V rated value at 500 V rated value 	30 KA 4 kA
at 500 V rated value at 690 V rated value	4 KA 2 kA
	2 KA 741 A
response value current of instantaneous short-circuit trip unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value	52 A
full-load current (FLA) for 3-phase AC motor	52 A 52 A
 full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp]	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor	52 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp]	52 A 5 hp
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value	52 A

at 200/200 V/ sated value	45 hz		
- at 200/208 V rated value	15 hp		
— at 220/230 V rated value	20 hp		
— at 460/480 V rated value	40 hp		
— at 575/600 V rated value	50 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		
design of the fuse link			
 for short-circuit protection of the auxiliary switch 	fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk <		
required	400 A)		
design of the fuse link for IT network for short-circuit protection of the main circuit			
• at 240 V	none required		
• at 240 V	none required 160		
• at 500 V	125		
• at 690 V	100		
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715		
height	140 mm		
height	55 mm		
depth	149 mm		
required spacing			
for grounded parts at 400 V	50		
— downwards	50 mm		
— upwards	50 mm		
— at the side	10 mm		
• for live parts at 400 V			
— downwards	50 mm		
— upwards	50 mm		
— at the side	10 mm		
 for grounded parts at 500 V 			
— downwards	50 mm		
— upwards	50 mm		
— at the side	10 mm		
 for live parts at 500 V 			
— downwards	50 mm		
— upwards	50 mm		
— at the side	10 mm		
 for grounded parts at 690 V 			
— downwards	50 mm		
— upwards	50 mm		
— at the side	10 mm		
 for live parts at 690 V 			
— downwards	50 mm		
— upwards	50 mm		
— at the side	10 mm		
Connections/ Terminals			
type of electrical connection			
for main current circuit	screw-type terminals		
 for auxiliary and control circuit 	screw-type terminals		
arrangement of electrical connectors for main current circuit	Top and bottom		
type of connectable conductor cross-sections			
for main contacts			
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)		
 finely stranded with core end processing 	2x (1 25 mm ²), 1x (1 35 mm ²)		
at AWG cables for main contacts	2x (18 2), 1x (18 1)		
type of connectable conductor cross-sections			

 for auxiliary con 	itacts							
— solid or str			2x (0.5 1.5 mm²), 2x (0.7	5 2.5 mm²)				
— finely strar	 — solid of stranded — finely stranded with core end processing 2x (0.5 1.5 mm²), 2x ('				
	for auxiliary contacts	g	2x (20 16), 2x (18 14)	,				
tightening torque	,							
	ts with screw-type term	inals	3 4.5 N·m					
 for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals 		5 4.5 №m 0.8 1.2 N·m						
		errindia						
design of screwdriver shaft		Diameter 5 to 6 mm Pozidriv size 2						
	of the connection sci		POZIUTIV SIZE Z					
• for main contac		ew	MG					
			M6					
-	and control contacts		M3					
Safety related data								
B10 value								
	nd rate according to SN	31920	5 000					
proportion of dange	rous failures							
 with low deman 	d rate according to SN	31920	50 %					
 with high demand 	nd rate according to SN	31920	50 %					
failure rate [FIT]								
 with low deman 	d rate according to SN	31920	50 FIT					
T1 value for proof test IEC 61508	t interval or service life	according to	10 y					
	on the front according	to IEC	IP20					
touch protection on	the front according to	IEC 60529	finger-safe, for vertical conta	act from the front				
display version for sw			Handle					
Certificates/ approval	S							
		<u>Confirmation</u>		<u>KC</u>	EHC			
For use in hazardou	is locations	Declaration of	of Conformity	Test Certificates				
ATEX ATEX	IECEx	CE EG-Konf.		Special Test Certific- ate	Type Test Certific- ates/Test Report			
Marine / Shipping								
ABS	BUREAU VERITAS		Lloyds Register urs	PRS	RINA			
Marine / Shipping	other		Railway					
RMRS R	<u>Confirmation</u>	DE	Vibration and Shock	<u>Confirmation</u>				
Further information Information- and Do	Further information 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=3RV2031-4WA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2031-4WA15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4WA15

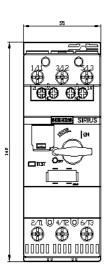
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

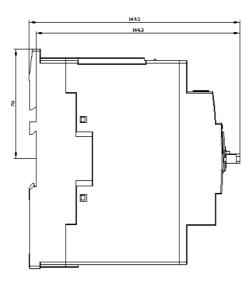
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2031-4WA15&lang=en

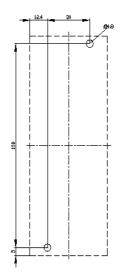
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4WA15/char

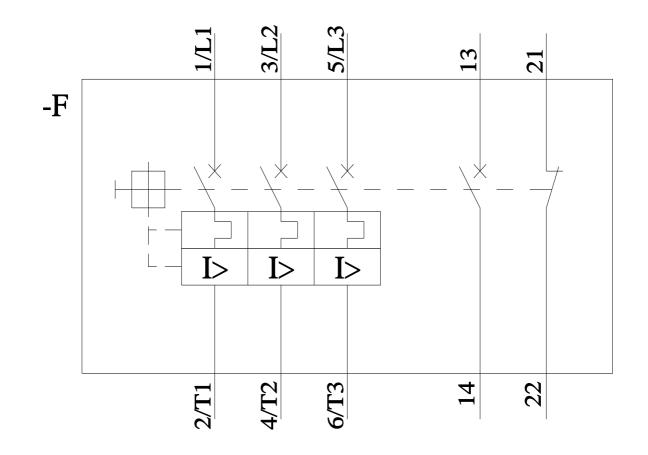
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4WA15&objecttype=14&gridview=view1









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