## SIEMENS

## Data sheet

## 3RV2032-4PA15



Circuit breaker size S2 for motor protection, CLASS 10 A-release 28...36 A N-release 520 A screw terminal increased switching capacity with transverse auxiliary switches 1 NO+1 NC

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	S2			
size of contactor can be combined company-specific	S2			
product extension auxiliary switch	Yes			
power loss [W] for rated value of the current				
<ul> <li>at AC in hot operating state</li> </ul>	20 W			
<ul> <li>at AC in hot operating state per pole</li> </ul>	6.7 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 Sinus			
mechanical service life (switching cycles)				
<ul> <li>of the main contacts typical</li> </ul>	50 000			
<ul> <li>of auxiliary contacts typical</li> </ul>	50 000			
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				
installation altitude at height above sea level maximum	2 000 m			
ambient temperature				
<ul> <li>during operation</li> </ul>	-20 +60 °C			
<ul> <li>during storage</li> </ul>	-50 +80 °C			
<ul> <li>during transport</li> </ul>	-50 +80 °C			
relative humidity during operation	10 95 %			
Main circuit				
number of poles for main current circuit	3			
adjustable current response value current of the _current-dependent overload release	28 36 A			
operating voltage				
<ul> <li>rated value</li> </ul>	20 690 V			
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V			
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V			

operating frequency rated value	50 60 Hz
operational current rated value	36 A
operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	36 A
<ul> <li>at AC-3e at 400 V rated value</li> </ul>	36 A
operating power	
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	30 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	30 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	
<ul> <li>ground fault detection</li> </ul>	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
breaking capacity maximum short-circuit current (Icu)	
<ul> <li>at AC at 240 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 400 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 500 V rated value</li> </ul>	15 kA
• at AC at 690 V rated value	6 kA
breaking capacity operating short-circuit current (Ics)	
at AC	100 1/4
• at 240 V rated value	100 kA
• at 400 V rated value	50 kA
at 500 V rated value	8 kA
at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip unit	520 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	36 A
at 600 V rated value	36 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
<ul> <li>for 3-phase AC motor</li> </ul>	

at 200/208 V/ rated value	15 hz				
— 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				
design of the fuse link					
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	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	popo required				
• at 240 V	none required 125				
• at 500 V	100				
• at 690 V	80				
Installation/ mounting/ dimensions					
mounting position	any				
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715				
hoight	140 mm				
height					
width	55 mm				
depth	149 mm				
required spacing					
<ul> <li>for grounded parts at 400 V</li> </ul>					
— downwards	50 mm				
— upwards	50 mm				
— at the side	10 mm				
<ul> <li>for live parts at 400 V</li> </ul>					
— downwards	50 mm				
— upwards	50 mm				
— at the side	10 mm				
<ul> <li>for grounded parts at 500 V</li> </ul>					
— downwards	50 mm				
— upwards	50 mm				
— at the side	10 mm				
<ul> <li>for live parts at 500 V</li> </ul>					
— downwards	50 mm				
— upwards	50 mm				
— at the side	10 mm				
<ul> <li>for grounded parts at 690 V</li> </ul>					
— 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	$2x(1 - 35 \text{ mm}^2) 1x(1 - 50 \text{ mm}^2)$				
	$2x (1 35 mm^2), 1x (1 50 mm^2)$ $2x (1 25 mm^2) 1x (1 35 mm^2)$				
<ul> <li>finely stranded with core end processing</li> <li>at AWC cohice for main contracts</li> </ul>	2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )				
at AWG cables for main contacts	2x (18 2), 1x (18 1)				
type of connectable conductor cross-sections					

<ul> <li>for auxiliary cor</li> </ul>	ntacts								
— solid or str	— solid or stranded			2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)					
<ul> <li>finely stranded with core end processing</li> </ul>			2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )						
at AWG cables for auxiliary contacts			2x (20 16), 2x (18 14)						
tightening torque									
<ul> <li>for main contacts with screw-type terminals</li> </ul>			3 4.5	5 N·m					
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>		0.8 1.2 N·m							
design of screwdriver shaft			-	Diameter 5 to 6 mm					
size of the screwdriver tip		Pozidriv size 2							
design of the thread of the connection screw									
•	for main contacts			M6					
<ul> <li>of the auxiliary and control contacts</li> </ul>			M3						
Safety related data									
B10 value			_						
	nd rate according to SN	1 31020	5 000						
proportion of dange	-	1 3 1 3 2 0	5 000						
		21020	50 %						
	id rate according to SN								
	nd rate according to SN	131920	50 %						
failure rate [FIT]	d ante e condica te ON	24000							
	d rate according to SN		50 FIT						
I 1 value for proof tes	t interval or service life	according to	10 y						
	protection class IP on the front according to IEC		IP20	- IP20					
touch protection on	the front according to	o IEC 60529	finaer-s	safe, for vertical con	tact from the front				
display version for sw			Handle						
Certificates/ approval	-								
SP.		<u>Confirmati</u>	<u>ion</u>	UL UL	<u>KC</u>	EHC			
For use in hazardou	us locations	Declaration	of Confor	mity	Test Certificates				
K X	IECEx	EG-Konf.			<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report			
Marine / Shipping									
ABS	BUREAU VERITAS			Lloyds Register urs	PRS	RINA			
Marine / Shipping	other			Railway					
RMRS	<u>Confirmation</u>	UDE VDE	}	<u>Confirmation</u>	Vibration and Shock				
Further information Information- and Do	Further information Information- and Downloadcenter (Catalogs, Brochures,)								

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2032-4PA15&lang=en

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4PA15/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2032-4PA15&objecttype=14&gridview=view1

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