SIEMENS

Data sheet

3RV2032-4JA15



Circuit breaker size S2 for motor protection, CLASS 10 A-release 54...65 A N-release 845 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	
 at AC in hot operating state 	26 W
 at AC in hot operating state per pole 	8.7 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)	
 of the main contacts typical 	20 000
 of auxiliary contacts typical 	20 000
electrical endurance (switching cycles) typical	20 000
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)	03/01/2017
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-20 +60 °C
 during storage 	-50 +80 °C
during transport	-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	54 65 A
operating voltage	
 rated value 	20 690 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	65 A
operational current	05 A
at AC-3 at 400 V rated value	65 A
• at AC-3e at 400 V rated value	65 A
operating power	
• at AC-3	
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	45 kW
— at 690 V rated value	55 kW
• at AC-3e	
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	45 kW
— at 690 V rated value	55 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	1A
• at 60 V	0.15 A
• at 110 V	0 A
• at 125 V	0 A
• at 220 V	0 A 0 A
at 220 V Protective and monitoring functions	
at 220 V Protective and monitoring functions product function	
at 220 V Protective and monitoring functions product function ground fault detection	0 A
at 220 V Protective and monitoring functions product function ground fault detection phase failure detection	0 A No Yes
at 220 V Protective and monitoring functions product function ground fault detection phase failure detection trip class	0 A No
at 220 V Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release	0 A No Yes CLASS 10
at 220 V Protective and monitoring functions product function ground fault detection phase failure detection trip class	0 A No Yes CLASS 10
at 220 V Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu)	0 A No Yes CLASS 10 thermal
at 220 V Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (lcu) at AC at 240 V rated value	0 A No Yes CLASS 10 thermal 100 kA
 at 220 V Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value 	0 A No Yes CLASS 10 thermal 100 kA 100 kA
 at 220 V Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value 	0 A No Yes CLASS 10 thermal 100 kA 100 kA 10 kA
 at 220 V Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) 	0 A No Yes CLASS 10 thermal 100 kA 100 kA 10 kA
 at 220 V Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 500 V rated value at AC at 690 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC 	0 A No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 6 kA
 at 220 V Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 500 V rated value at AC at 690 V rated value at AC at 240 V rated value 	0 A No Yes CLASS 10 thermal 100 kA 100 kA 10 kA 6 kA
 at 220 V Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 500 V rated value at AC at 690 V rated value at AC at 240 V rated value at AC at 400 V rated value 	0 A No Yes CLASS 10 thermal 100 kA 100 kA 10 kA 6 kA 100 kA 50 kA
 at 220 V Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 400 V rated value at 400 V rated value at 400 V rated value at 690 V rated value at 690 V rated value 	0 A No Yes CLASS 10 thermal 100 kA 100 kA 10 kA 6 kA 100 kA 8 kA
 at 220 V Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 400 V rated value at 400 V rated value at AC at 500 V rated value at AC at 500 V rated value 	0 A No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 50 kA 8 kA 4 kA
 at 220 V Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 240 V rated value at 400 V rated value at 690 V rated value at 690 V rated value at 690 V rated value UL/CSA ratings	0 A No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 50 kA 8 kA 4 kA
 at 220 V Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 500 V rated value at AC at 690 V rated value at AC at 690 V rated value at 400 V rated value at 690 V rated value breaking capacity operating short-circuit current (Ics) 	0 A No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 6 kA 100 kA 8 kA 4 kA 845 A
 at 220 V Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 500 V rated value at AC at 690 V rated value at AC at 690 V rated value at AC at 690 V rated value at 400 V rated value at 400 V rated value at 400 V rated value at 690 V rated value at 400 V rated value 	0 A No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 6 kA 100 kA 50 kA 8 kA 4 kA 845 A
 at 220 V Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value at AC at 690 V rated value at AC at 690 V rated value at AC at 500 V rated value at AC at 690 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 690 V rated value 	0 A No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 6 kA 100 kA 8 kA 4 kA 845 A
 at 220 V Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 500 V rated value at AC at 690 V rated value at AC at 690 V rated value at AC at 500 V rated value at AC at 690 V rated value at AC at 690 V rated value at AC at 690 V rated value at 400 V rated value at 690 V rated value at 600 V rated value 	0 A No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 6 kA 100 kA 50 kA 8 kA 4 kA 845 A
 at 220 V Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 500 V rated value at AC at 690 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 400 V rated value at 400 V rated value at 690 V rated value at 600 V rated value	0 A No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 6 kA 100 kA 50 kA 8 kA 4 kA 845 A 65 A 62 A
 at 220 V Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 400 V rated value at 690 V rated value 	0 A No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 6 kA 100 kA 50 kA 8 kA 4 kA 845 A 20 hp
 at 220 V Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 500 V rated value at AC at 690 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 400 V rated value at 400 V rated value at 690 V rated value at 600 V rated value	0 A No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 6 kA 100 kA 50 kA 8 kA 4 kA 845 A 65 A 62 A

— at 575/600 V rated value	60 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	in agriculture in a second s
 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 240 V	none required
• at 400 V	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
width	55 mm
depth	149 mm
required spacing	
 for grounded parts at 400 V 	
— 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	50 mm
— downwards	50 mm
— upwards — at the side	50 mm
	10 mm
 for grounded parts at 690 V 	50 mm
— downwards	50 mm
— upwards — at the side	50 mm
	10 mm
 for live parts at 690 V downwards 	50 mm
— upwards	50 mm
— upwards — at the side	10 mm
Connections/ Terminals	
type of electrical connection for main current circuit 	screw-type terminals
	screw-type terminals screw-type terminals
for auxiliary and control circuit arrangement of electrical connectors for main current	Top and bottom
circuit	
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 contacts	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)

	f		0 (00 40) 0 (40 44	4.	
	for auxiliary contacts		2x (20 16), 2x (18 14	+)	
tightening torque			0.451		
	s with screw-type term		3 4.5 N·m		
	tacts with screw-type to	erminais	0.8 1.2 N·m		
design of screwdriver shaft		Diameter 5 to 6 mm			
size of the screwdriv	•		Pozidriv size 2		
-	of the connection sc	rew			
• for main contacts		M6			
	 of the auxiliary and control contacts 		M3		
afety related data					
B10 value					
 with high demar 	nd rate according to SN	N 31920	5 000		
proportion of danger	ous failures				
with low demand rate according to SN 31920		50 %			
with high demand rate according to SN 31920		50 %			
failure rate [FIT]					
 with low demand 	d rate according to SN	31920	50 FIT		
	interval or service life		10 y		
	n the front according	to IEC	IP20		
	the front according to	DIFC 60529	finger-safe for vertical co	intact from the front	
display version for swi	the front according to	00323	finger-safe, for vertical co Handle		
	-				
ertificates/ approvals					
				<u>KC</u>	
(S) M		<u>Confirmatio</u>			FHT
For use in hazardou	ccc s locations		of Conformity	Test Certificates	LHL
For use in hazardou	s locations	Declaration o			Special Test Certific- ate
1505	s locations			Test Certificates	Special Test Certific-
IECE×	s locations k_{TEX}	Declaration of		Test Certificates	Special Test Certific-
IECEx	s locations \overline{ccc}	Declaration of		Test Certificates	Special Test Certific-
IECEx	S locations EXAMPLE A EXAMPLE A	Declaration of		Test Certificates	Special Test Certific-
IECEx	S locations E LOC	Declaration of EG-Konf.	of Conformity	Test Certificates	Special Test Certific-
IECEX	ATEX ATEX	Declaration of EG-Konf.	of Conformity	Test Certificates	Special Test Certific-
IECEX Harine / Shipping	ATEX ATEX	Declaration of EG-Konf.	of Conformity	Test Certificates	Special Test Certific-

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