SIEMENS

Data sheet

3RV1011-1JA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 7...10 A N release 130 A Screw terminal Standard switching capacity with transverse auxiliary switch 1 NO+1 NC $\,$

product brand name	SIRIUS		
product designation	Circuit breaker		
design of the product	For motor protection		
product type designation	3RV1		
General technical data			
size of the circuit-breaker	S00		
size of contactor can be combined company-specific	S00		
product extension auxiliary switch	Yes		
power loss [W] for rated value of the current			
 at AC in hot operating state 	9.25 W		
 at AC in hot operating state per pole 	3.1 W		
insulation voltage with degree of pollution 3 at AC rated value	690 V		
surge voltage resistance rated value	6 kV		
mechanical service life (switching cycles)			
 of the main contacts typical 	100 000		
 of auxiliary contacts typical 	100 000		
electrical endurance (switching cycles) typical	100 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	01/01/2013		
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 %		
BR-to-stored			
Main circuit			
number of poles for main current circuit	3		
	3 7 10 A		
number of poles for main current circuit adjustable current response value current of the			
number of poles for main current circuit adjustable current response value current of the current-dependent overload release			
number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage	7 10 A		
number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value	7 10 A 20 690 V		
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	7 10 A 20 690 V 690 V		
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 • at AC-3e rated value maximum	7 10 A 20 690 V 690 V 690 V		
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 • at AC-3e rated value maximum operating frequency rated value	7 10 A 20 690 V 690 V 690 V 50 60 Hz		
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 • at AC-3e rated value maximum operating frequency rated value operational current rated value	7 10 A 20 690 V 690 V 690 V 50 60 Hz		

operating power	
• at AC-3	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 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
note	1
number of NO contacts for auxiliary contacts	1
• note	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
● at 110 V	2 A
• at 120 V	2 A
• at 125 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
Protective and monitoring functions	
Protective and monitoring functions	
product function	No
<pre>product function • ground fault detection</pre>	No Yes
product functionground fault detectionphase failure detection	Yes
product function ground fault detection phase failure detection trip class	Yes CLASS 10
product function • ground fault detection • phase failure detection trip class design of the overload release	Yes
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (lcu)	Yes CLASS 10 thermal
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	Yes CLASS 10 thermal 100 kA
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	Yes CLASS 10 thermal 100 kA 50 kA
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 • at AC at 400 V rated value • at AC at 500 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA
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 • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value	Yes CLASS 10 thermal 100 kA 50 kA
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 • at AC at 400 V rated value • at AC at 500 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA
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 • 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	Yes CLASS 10 thermal 100 kA 50 kA 3 kA
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	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA
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 breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA
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 breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 240 V rated value • at 400 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA
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 240 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 400 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA
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 500 V rated value • at 400 V rated value • at 500 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 kA
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 breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 690 V rated value • at 400 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 kA
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 240 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 240 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 kA
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 breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 kA
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 240 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 kA 130 A
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 240 V rated value • at 690 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 2 kA 130 A
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 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 2 kA 130 A
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 240 V rated value • at 690 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 kA 130 A
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 240 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 kA 130 A 10 A 10 A
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 • 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 240 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated valu	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 kA 130 A
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 • 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 240 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated valu	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 2 kA 130 A 10 A 10 A 10 A 10 A
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 • 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 240 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated valu	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 kA 130 A 10 A 10 A

— at 460/480 V rated value	5 hp			
— at 575/600 V rated value	5 np 7.5 hp			
contact rating of auxiliary contacts according to UL	7.5 hp 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 Å)			
design of the fuse link for IT network for short-circuit protection of the main circuit				
• at 240 V	gL/gG 80 A			
• at 400 V	gL/gG 63 A			
• at 500 V	gL/gG 50 A			
• at 690 V	gL/gG 50 A			
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	90 mm			
width	45 mm			
depth	75 mm			
required spacing				
 for grounded parts at 400 V — downwards 	20 mm			
— upwards	20 mm			
— upwards — at the side	20 mm			
 for live parts at 400 V 				
- downwards	20 mm			
— upwards	20 mm			
— at the side	9 mm			
 for grounded parts at 500 V 				
— downwards	20 mm			
— upwards	20 mm			
— at the side	9 mm			
 for live parts at 500 V 				
— downwards	20 mm			
— upwards	20 mm			
— at the side	9 mm			
 for grounded parts at 690 V 				
— downwards	20 mm			
— upwards	20 mm			
— backwards	0 mm			
— at the side	9 mm			
— forwards	0 mm			
• for live parts at 690 V				
— downwards	20 mm			
— upwards	20 mm			
— backwards	0 mm			
— at the side	9 mm			
- forwards	0 mm			
Connections/ Terminals				
type of electrical connection	corou turo terminale			
for main current circuit for auxilian, and control 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 (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)			
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			

	conductor cross-section	ons				
 for auxiliary contacts 						
— solid or stranded		2>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
tightening torque						
 for main contacts with screw-type terminals 			0.8 1.2 N·m 0.8 1.2 N·m			
	 for auxiliary contacts with screw-type terminals 					
	size of the screwdriver tip					
-	of the connection scre					
 for main contact 		M				
-	and control contacts	M	3			
Safety related data						
B10 value						
	nd rate according to SN	31920 5	5 000			
proportion of dange						
	id rate according to SN 3		50 %			
	nd rate according to SN	31920 50	50 %			
failure rate [FIT]						
	id rate according to SN 3) FIT			
protection class IP c 60529	on the front according t	to IEC IP	IP20			
	the front according to	IEC 60529 fir	iger-safe, for vertical conta	act from the front		
display version for sw			ocker switch			
Certificates/ approval	-					
					For use in hazard-	
General Product Ap	proval				ous locations	
(SP)	<u>Confirmation</u>			EHC	K ATEX	
For use in hazard- ous locations	Declaration of Confo	rmity	Test Certificates		Marine / Shipping	
IECEx		CE EG-Konf.	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	ABS	
Marine / Shipping						
BUREAU VERITAS	Lloyds Register us	PRS	RINA	RMRS RMRS	DNV-GL	
other			Railway			
<u>Confirmation</u>	<u>Miscellaneous</u>		Special Test Certific- ate			
Further information						
	wnloadcenter (Catalog	s. Brochures				
https://www.siemens.	wnloadcenter (Catalog com/ic10	s, Brochures,)				
Industry Mall (Online	com/ic10					

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