SIEMENS

Data sheet

3RV2011-1HA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 5.5...8 A N-release 104 A screw terminal Standard switching capacity

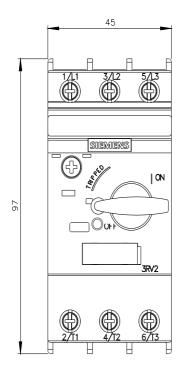
4/17 6/13			
product brand name	SIRIUS		
product designation	Circuit breaker		
design of the product	For motor protection		
product type designation	3RV2		
General technical data			
size of the circuit-breaker	S00		
size of contactor can be combined company-specific	S00, S0		
product extension auxiliary 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		
shock resistance according to IEC 60068-2-27	25g / 11 ms		
mechanical service life (operating cycles)			
 of the main contacts typical 	100 000		
 of auxiliary contacts typical 	100 000		
electrical endurance (operating cycles) typical	100 000		
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)	10/01/2009		
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	5.5 8 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	8 A		
operational current			

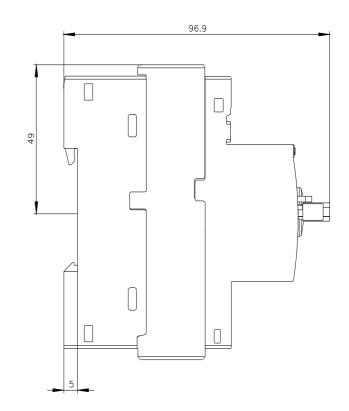
 at AC-3 at 400 V rated value 	8 A
• at AC-3e at 400 V rated value	8 A
operating power	
● at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	4 kW
— at 690 V rated value	5.5 kW
• at AC-3e	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	4 kW
— at 690 V rated value	5.5 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	
at AC at 240 V rated value	100 kA
 at AC at 400 V rated value 	100 kA
at AC at 500 V rated value	42 kA
at AC at 690 V rated value	6 kA
operating short-circuit current breaking capacity (Ics) at AC	
• at 240 V rated value	100 kA
at 400 V rated value	100 kA
at 500 V rated value	42 kA
• at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip unit	104 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	8 A
at 600 V rated value	8 A
yielded mechanical performance [hp]	
for single-phase AC motor	
- at 110/120 V rated value	0.33 hp
— at 230 V rated value	1 hp
	- qi i
for 3-phase AC motor at 200/208 V rated value	2 hn
- at 200/208 V rated value	2 hp
— at 220/230 V rated value	2 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	5 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip design of the fuse link for IT network for short-circuit	magnetic
protection of the main circuit	gL/gG 50 A
• at 400 \/	
• at 400 V	
• at 500 V	gL/gG 40 A
• at 500 V • at 690 V	
at 500 V at 690 V Installation/ mounting/ dimensions	gL/gG 40 A gL/gG 35 A
• at 500 V • at 690 V	gL/gG 40 A

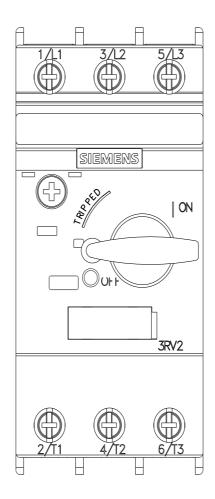
height	97 mm
width	45 mm
depth	97 mm
required spacing	
with side-by-side mounting at the side	0 mm
 for grounded parts at 400 V 	0 mm
— downwards	30 mm
	30 mm
— upwards	9 mm
— at the side	9 mm
• for live parts at 400 V	20 mm
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for grounded parts at 500 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 500 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for grounded parts at 690 V 	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
• for live parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	
type of electrical connection	
for main current 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 (0,75 2,5 mm²), 2x 4 mm²
 finely stranded with core end processing 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
• for AWG cables for main contacts	2x (18 14), 2x 12
tightening torque	
 for main contacts with screw-type terminals 	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	M3
Safety related data	
B10 value	
with high demand rate according to SN 31920	5 000
proportion of dangerous failures	
with low demand rate according to SN 31920	50 %
-	50 % 50 %
with high demand rate according to SN 31920	50 /0
failure rate [FIT]	
with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508	50 FIT 10 a
61508	1020
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	IP20 finger-safe, for vertical contact from the front
touch protection on the none according to IEC 00328	

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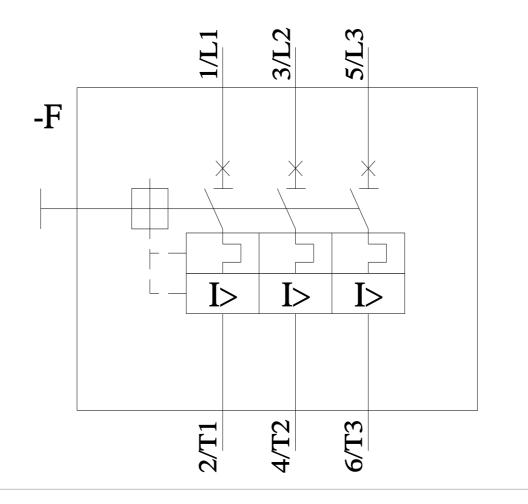
ertificates/ approvals General Product Approv <u>Confirmation</u>	val				
<u>Confirmation</u>					For use in hazard- ous locations
			KC	EAC	K ATEX
For use in hazard- ous locations	Declaration of Conform	ity	Test Certificates		Marine / Shipping
IECEx	CE EG-Konf.	UK CA	Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS
Marine / Shipping					other
BUREAU VERITAS		Lloyds Register us	PRS	RINA	Confirmation
other	Railway				
	<u>Vibration and Shock</u>	<u>Confirmation</u>			
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Characteristic: Tripping https://support.industry.sie	characteristics, I ² t, Let-	through current			
Further characteristics (e.g. electrical enduranc	e, switching frequen		type=14&gridview=view	1







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