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

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		
maximum permissible voltage for safe isolation in networks with grounded star point			
 between main and auxiliary circuit 	400 V		
 between main and auxiliary circuit 	400 V		
shock resistance acc. to IEC 60068-2-27	25g / 11 ms		
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		
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 acc. to IEC 81346-2	Q		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
 ambient temperature during operation 	-20 +60 °C		
 ambient temperature during storage 	-50 +80 °C		
 ambient temperature during transport 	-50 +80 °C		
temperature compensation	-20 +60 °C		
relative humidity during operation	10 95 %		
Main circuit			
number of poles for main current circuit	3		
adjustable current response value current of the	5.5 8 A		



current-dependent overload release	
 operating voltage rated value 	690 V
 operating voltage at AC-3 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
operating power at AC-3	
• at 230 V rated value	1 500 W
• at 400 V rated value	3 000 W
• at 500 V rated value	4 000 W
• at 690 V rated value	5 500 W
operating frequency at AC-3 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
breaking capacity operating short-circuit current (lcs)	
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
breaking capacity maximum short-circuit current (lcu)	
• 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
response value current of instantaneous short-circuit trip	104 A
unit	
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	0.333 hp
— at 230 V rated value	1 hp
 for 3-phase AC motor 	
— 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	magnetic
design of the fuse link for IT network for short-circuit protection of the main circuit	
• at 400 V	gL/gG 50 A
• at 500 V	gL/gG 40 A
• at 690 V	gL/gG 35 A
Installation/ mounting/ dimensions	
mounting position	any
•.	

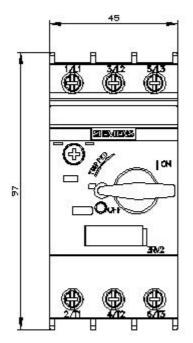
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715			
height	97 mm			
width	45 mm			
depth	97 mm			
required spacing				
• for grounded parts at 400 V				
— downwards	30 mm			
— upwards	30 mm			
— at the side	9 mm			
• for live parts at 400 V	3 1111			
- downwards	30 mm			
	30 mm			
— upwards				
— 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			
	0 mm			
Connections/ Terminals	AL			
product function removable terminal for auxiliary and control circuit	No			
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 mm²), 2x (0.75 2.5 mm²)			
 at 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 2			
design of the thread of the connection screw				
for main contacts	M3			
Safety related data				
B10 value	5 000			
with high demand rate acc. to SN 31920	5 000			
proportion of dangerous failures				
 with low demand rate acc. to SN 31920 	50 %			
 with high demand rate acc. to SN 31920 	50 %			

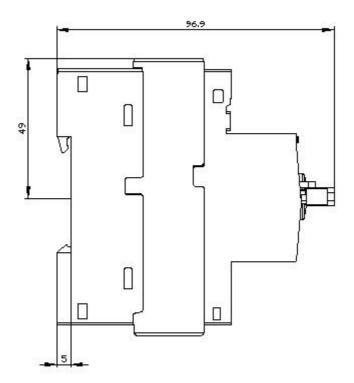
with low demai	nd rate acc. to SN 319	20 50 F	IT				
with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508			10 y				
protection class IP on the front acc. to IEC 60529		EC 60529	1020				
	touch protection on the front acc. to IEC 60529		, er-safe, for vertical conta	act from the front			
display version for switching status			Handle				
Certificates/ approva	-	- Toth					
Contineates, approva	10				For use in		
General Product A	pproval				hazardous locations		
S.			<u>KC</u>	EHC	K ATEX		
For use in hazardous locations	Declaration of Co	nformity	Test Certificates		Marine / Shipping		
IECE×	CE EG-Konf.	<u>Miscellaneous</u>	<u>Special Test</u> <u>Certificate</u>	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	ABS		
Marine / Shipping							
BUREAU VERITAS	Lloyd's Kegister uts	PRS	RINA	RMRS	ONV-GL		
other		Railway					
Confirmation	VDE	Vibration and Shock	<u>Confirmation</u>				
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=3RV2011-1HA10							
	Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1HA10						
Service&Support (M https://support.indust	Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1HA10						
		nension drawings, 3D r //cax_de.aspx?mlfb=3RV		diagrams, EPLAN ma	cros,)		
Characteristic: Tripping characteristics, I ² t, Let-through current							

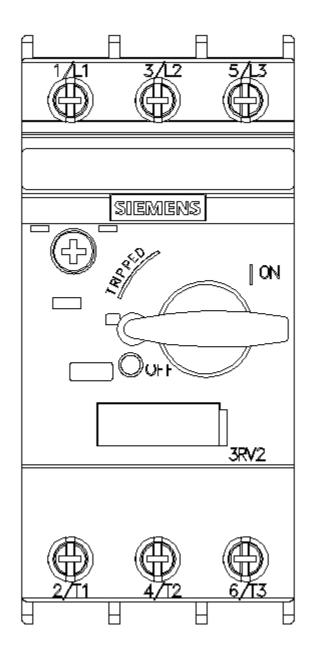
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1HA10/char

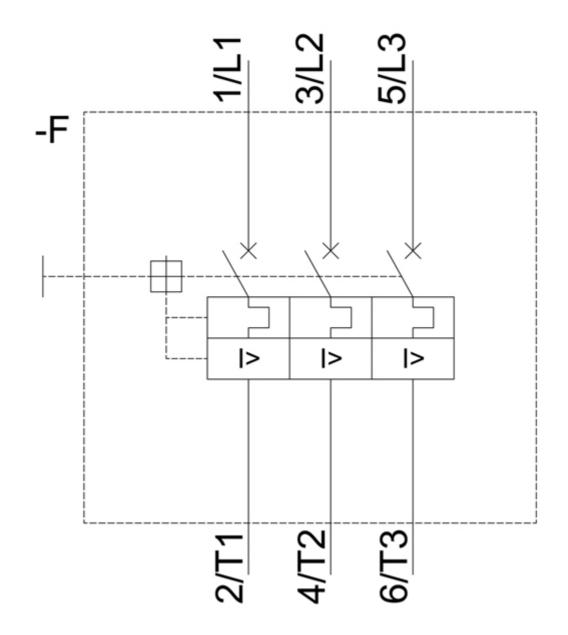
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1HA10&objecttype=14&gridview=view1











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