SIEMENS

Data sheet

3RV1011-1HA10



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

4/12 6/13	
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
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)	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 %
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 200 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 CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	No
ground fault detection	No
 phase failure detection 	Yes
trip class	CLASS 10
design of the overload release	thermal
breaking capacity maximum short-circuit current (Icu)	
 at AC at 240 V rated value 	100 kA
 at AC at 400 V rated value 	50 kA
 at AC at 500 V rated value 	3 kA
at AC at 690 V rated value	2 kA
breaking capacity operating short-circuit current (Ics) at AC	
	100 kA
at 240 V rated value	
 at 400 V rated value 	13 kA
 at 500 V rated value 	3 kA
 at 690 V rated value 	2 kA
response value current of instantaneous short-circuit trip unit	104 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
	0.4
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
 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 240 V	gL/gG 80 A
• at 400 V	gL/gG 63 A
• at 500 V	gL/gG 40 A
• at 690 V	gL/gG 40 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			
— at the side	9 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			
— forwards	0 mm			
— forwards Connections/ Terminals	0 mm			
— forwards Connections/ Terminals type of electrical connection				
— forwards Connections/ Terminals type of electrical connection • for main current circuit	screw-type terminals			
— forwards Connections/ Terminals type of electrical connection • for main current circuit arrangement of electrical connectors for main current				
— forwards Connections/ Terminals type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit	screw-type terminals			
— forwards Connections/ Terminals type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	screw-type terminals			
— forwards Connections/ Terminals type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts	screw-type terminals Top and bottom			
forwards Connections/ Terminals type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts solid or stranded	screw-type terminals Top and bottom 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)			
 forwards Connections/ Terminals type of electrical connection for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing 	screw-type terminals Top and bottom			
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General Product A	pproval				For use in hazard- ous locations		
SA CEA		<u>Confirmation</u>		EHC	IECEx		
For use in hazard- ous locations	Declaration of Confe	ormity	Test Certificates		Marine / Shipping		
ATEX	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS		
Marine / Shipping							
BUREAU VERITAS	Lloyd's Register uis	PRS	RINA	RMRS	DNV-GL		
other			Railway				
<u>Confirmation</u>	<u>Miscellaneous</u>	UDE VDE	Special Test Certific- ate				
Further information							
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10							

https://www.siemens.com/ic10

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1011-1HA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-1HA10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1HA10

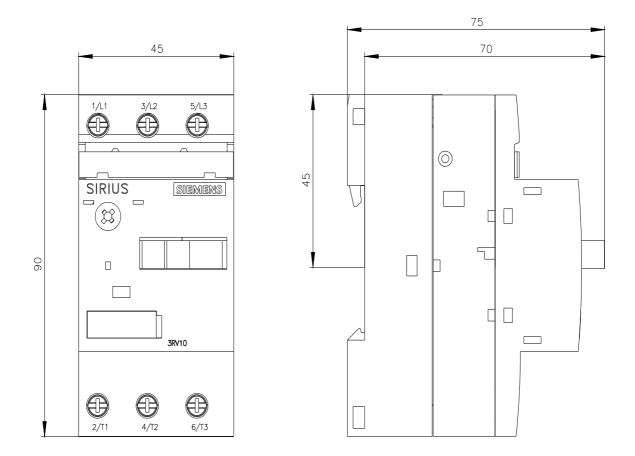
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

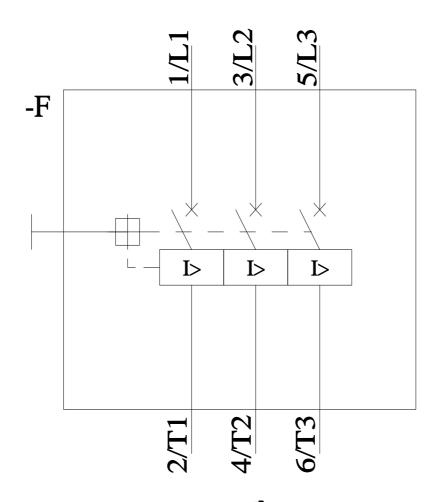
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-1HA10&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1HA10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-1HA10&objecttype=14&gridview=view1





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