SIEMENS

Data sheet 3RV2011-0HA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.55...0.8 A N-release 10 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 	7.25 W
at AC in hot operating state per pole	2.4 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
Substance Prohibitance (Date)	01.10.2009
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
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	0.55 0.8 A

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current-dependent overload release		
operating voltage	600 V	
• rated value	690 V	
rated value at AC 2 rated value maximum	20 690 V	
at AC-3 rated value maximum operating frequency rated value	690 V 50 60 Hz	
operating frequency rated value	0.8 A	
operational current at AC-3 at 400 V rated value	0.8 A	
operating power at AC-3	0.0 A	
• at 230 V rated value	0.1 kW	
at 400 V rated value	0.2 kW	
at 500 V rated value	0.3 kW	
at 690 V rated value	0.4 kW	
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 (Ics) at AC		
at 240 V rated value	100 kA	
 at 400 V rated value 	100 kA	
● at 500 V rated value	100 kA	
● at 690 V rated value	100 kA	
breaking capacity maximum short-circuit current (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 	100 kA	
at AC at 690 V rated value	100 kA	
response value current of instantaneous short-circuit trip unit	10 A	
UL/CSA ratings		
full-load current (FLA) for 3-phase AC motor		
• at 480 V rated value	0.8 A	
at 600 V rated value	0.8 A	
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	al /aC C A	
• at 690 V	gL/gG 6 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	
— downwards — upwards	30 mm	
— upwards — at the side	9 mm	
• for live parts at 400 V	V IIIII	
♥ 101 11VG parts at 400 V		

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— downwards — upwards	30 mm 30 mm	
— upwards — at the side	9 mm	
for grounded parts at 500 V	9 111111	
downwards	20 mm	
	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	
onnections/ Terminals		
product component 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	2v (0.75 2.5 mm²) 2v 4 mm²	
	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	
afety related data		
B10 value		
 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 %	
failure rate [FIT]		
with low demand rate acc. to SN 31920	50 FIT	
T1 value for proof test interval or service life acc. to		
IT value for proof test interval or service life acc. to	10 y	
protection class IP on the front acc. to IEC 60529	IP20	
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front	
display version for switching status	Handle	
arepray reference entreming elatine		
ertificates/ approvals		



Confirmation









For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping





UK Declaration of Conformity Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping













other

Railway

Confirmation



Confirmation

Vibration and Shock

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=3RV2011-0HA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0HA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0HA10

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

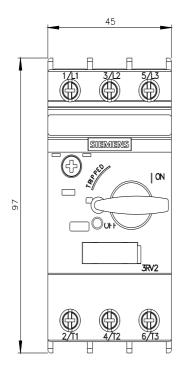
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0HA10&lang=en

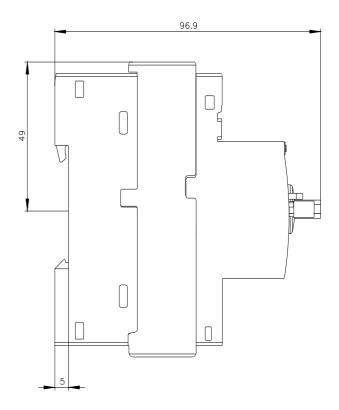
Characteristic: Tripping characteristics, I2t, Let-through current

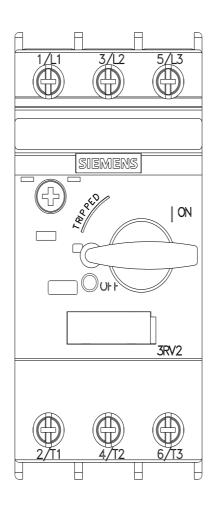
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0HA10/char

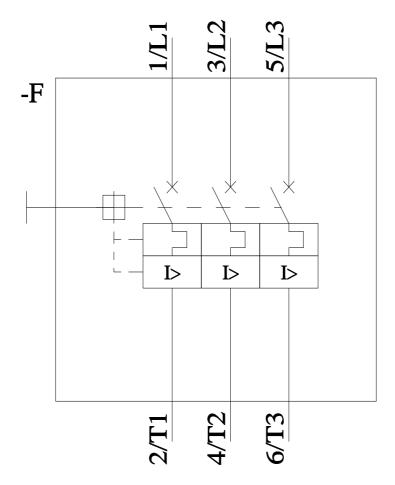
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0HA10&objecttype=14&gridview=view1









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