SIEMENS

Data sheet 3RV2011-1KA40



Circuit breaker size S00 for motor protection, CLASS 10 A-release 9...12 A N-release 163 A ring cable lug connection 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	9 12.5 A

• operating voltage at AC-3 rated value • operating voltage at AC-3 rated value • operating frequency rated value operating frequency rated value operating frequency rated value operating frequency rated value operating power at AC-3 • at 230 V rated value • at 430 V rated value • at 430 V rated value • at 4500 V rated value • at 690 V rated value operating frequency at AC-3 maximum for 15 1/h Auxiliary circuit rumber of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts oproduct function • ground fault detection • ground fault detection • phase failure detection • phase failure detection • phase failure detection ves at 240 V rated value • at 240 V rated value • at 400 V rated value • at 690 V rated value • at AC at 400 V rated value • at 600 V rated value • at 400 V rated value • at 400 V rated value • at 600 V rated value • at 6	
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yielded mechanical performance [hp] ● for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 2 hp	
 for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 2 hp 	
— at 110/120 V rated value 0.5 hp — at 230 V rated value 2 hp	
— at 230 V rated value 2 hp	
· ·	
• for 3-phase AC motor	
— at 200/208 V rated value 3 hp	
— at 220/230 V rated value 3 hp	
— at 460/480 V rated value 7.5 hp	
— at 575/600 V rated value 10 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 63 A	
● at 500 V gL/gG 50 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			
luctorining metriod	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 				
— 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				
product function removable terminal for auxiliary and control circuit	No			
type of electrical connection				
for main current circuit	Ring cable lug connection			
for auxiliary and control circuit	ring cable connection			
arrangement of electrical connectors for main current circuit	Top and bottom			
• tightening torque				
 for main contacts for ring cable lug 	0.8 1.2 N·m			
 for auxiliary contacts for ring cable lug 	1.2 0.8 N·m			
outer diameter of the usable ring cable lug maximum	7.5 mm			
design of screwdriver shaft	Diameter 5 to 6 mm			
size of the screwdriver tip	Size 2 and Pozidriv 2			
design of the thread of the connection screw				
for main contacts	M3			
of the auxiliary and control contacts	M3			
Safety 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			



10 y T1 value for proof test interval or service life acc. to **IEC 61508** protection class IP on the front acc. to IEC 60529 IP00 display version for switching status Handle

Certificates/ approvals

General Product Approval

For use in hazardous locations









<u>KC</u>





For use in hazardous locations	Declaration of Conformity		Test Certificates		Marine / Shipping
(Ex)	Miscellaneous	CE EG-Konf.	Type Test Certificates/Test Report	Special Test Certificate	ABS

Marine / Shipping













other Railway

Confirmation



Vibration and Shock

Confirmation

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=3RV2011-1KA40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1KA40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1KA40

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1KA40\&lang=en}}$

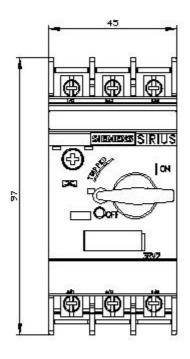
Characteristic: Tripping characteristics, I2t, Let-through current

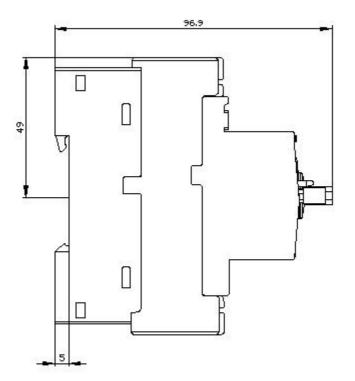
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1KA40/char

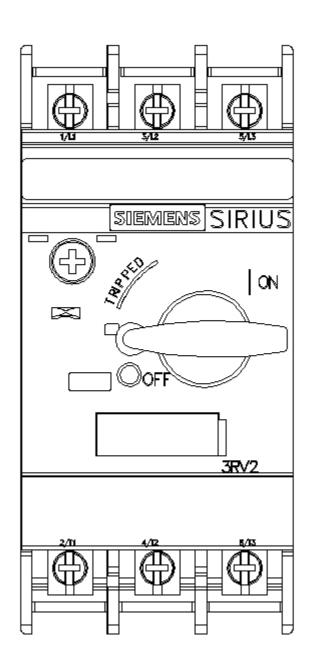
Further characteristics (e.g. electrical endurance, switching frequency)

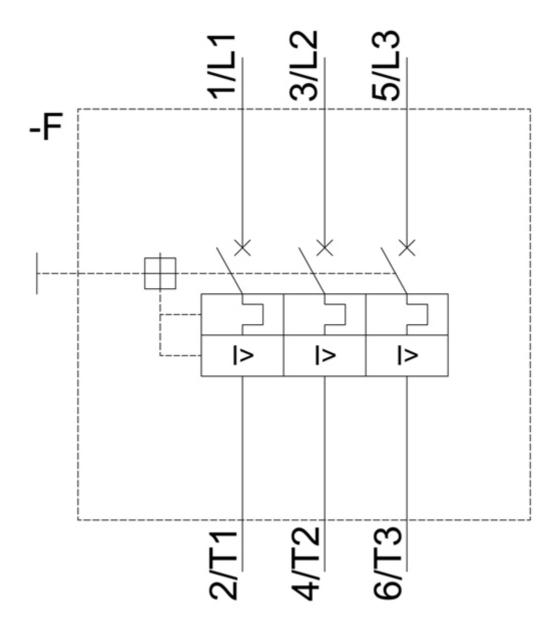
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1KA40&objecttype=14&gridview=view1











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