SIEMENS

Data sheet 3RV2011-0CA40



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.18...0.25 A N-release 3.3 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 	5.5 W
at AC in hot operating state per pole	1.8 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	0.18 0.25 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	0.25 A		
operational current at AC-3 at 400 V rated value	0.25 A		
operating power at AC-3			
 at 230 V rated value 	40 W		
at 400 V rated value	60 W		
at 500 V rated value	90 W		
• at 690 V rated value	120 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	400 4		
• 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)	400.1.4		
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	3.3 A		
UL/CSA ratings			
full-load current (FLA) for 3-phase AC motor			
 at 480 V rated value 	0.25 A		
at 600 V rated value	0.25 A		
Short-circuit protection			
product function short circuit protection	Yes		
design of the short-circuit trip	magnetic		
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			
— downwards	30 mm		
— upwards	30 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	No		
control circuit	INO		
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 low definant rate acc. to SN 31920 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	10 y		
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 hazardo	ous locations
	FOF		ICCC
(SB) (CCC) (UL)) LHI	(£x)	IECEX

















Miscellaneous

Type Test Certificates/Test Report Special Test Certificate





Marine / Shipping

other











Confirmation

other

Railway



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=3RV2011-0CA40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0CA40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0CA40

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0CA40&lang=en

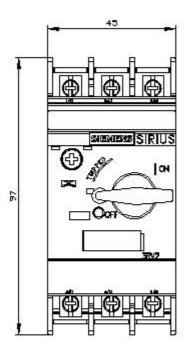
Characteristic: Tripping characteristics, I2t, Let-through current

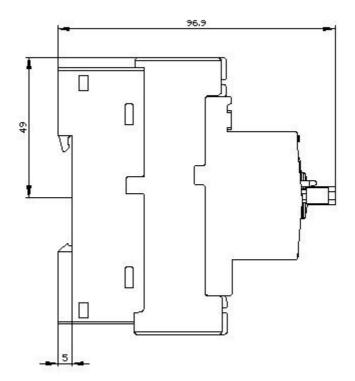
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0CA40/char

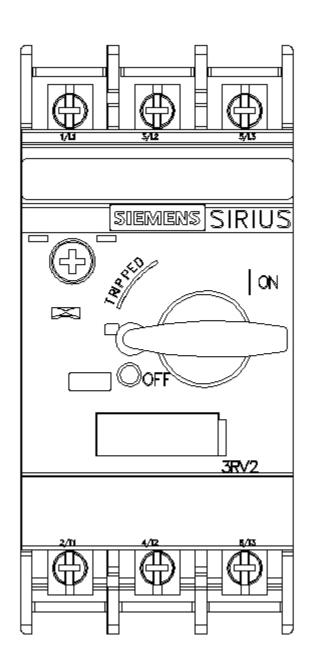
Further characteristics (e.g. electrical endurance, switching frequency)

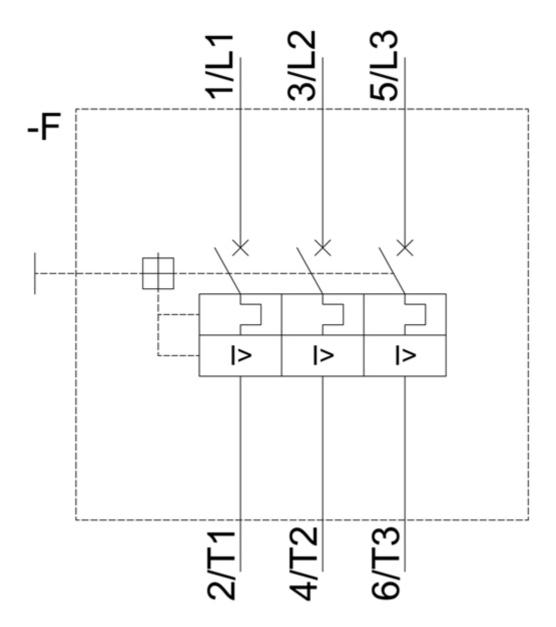
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0CA40&objecttype=14&gridview=view1











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