## **SIEMENS**

Data sheet 3RV2011-1BA40



Circuit breaker size S00 for motor protection, CLASS 10 A-release 1.4...2 A N-release 26 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	
<ul> <li>at AC in hot operating state</li> </ul>	7.25 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.4 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	25g / 11 ms
mechanical service life (operating cycles)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
<ul> <li>of auxiliary contacts typical</li> </ul>	100 000
electrical endurance (operating 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
reference code according to IEC 81346-2 Substance Prohibitance (Date)	Q 10/01/2009
Substance Prohibitance (Date)	
Substance Prohibitance (Date) Ambient conditions	10/01/2009
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum	10/01/2009
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature	10/01/2009 2 000 m
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation	10/01/2009 2 000 m -20 +60 °C
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage	10/01/2009 2 000 m -20 +60 °C -50 +80 °C
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during transport	10/01/2009  2 000 m  -20 +60 °C -50 +80 °C -50 +80 °C
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  relative humidity during operation	10/01/2009  2 000 m  -20 +60 °C -50 +80 °C -50 +80 °C
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  relative humidity during operation  Main circuit	10/01/2009  2 000 m  -20 +60 °C  -50 +80 °C  -50 +80 °C  10 95 %
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-	10/01/2009  2 000 m  -20 +60 °C  -50 +80 °C  -50 +80 °C  10 95 %
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release	10/01/2009  2 000 m  -20 +60 °C  -50 +80 °C  -50 +80 °C  10 95 %
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage	10/01/2009  2 000 m  -20 +60 °C  -50 +80 °C  -50 +80 °C  10 95 %
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during transport  relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage  • rated value	10/01/2009  2 000 m  -20 +60 °C  -50 +80 °C  -50 +80 °C  10 95 %  3  1.4 2 A
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage • rated value • at AC-3 rated value maximum	10/01/2009  2 000 m  -20 +60 °C  -50 +80 °C  -50 +80 °C  10 95 %  3  1.4 2 A
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage  • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum	10/01/2009  2 000 m  -20 +60 °C -50 +80 °C -50 +80 °C 10 95 %  3 1.4 2 A  20 690 V 690 V

• at AC-3 at 400 V rated value	2 A
• at AC-3e at 400 V rated value	2 A
operating power	
• at AC-3	
— at 230 V rated value	0.4 kW
— at 400 V rated value	0.75 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 kW
• at AC-3e	
— at 230 V rated value	0.4 kW
— at 400 V rated value	0.75 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 kW
operating frequency	
• at AC-3 maximum	15 1/h
at AC-3e 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	
•	No
ground fault detection     phase failure detection	
phase failure detection  trip class	Yes CLASS 10
trip class	
design of the overload release	thermal
maximum short-circuit current breaking capacity (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	10 kA
operating short-circuit current breaking capacity (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	10 kA
response value current of instantaneous short-circuit trip unit	26 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul> <li>at 480 V rated value</li> </ul>	2 A
at 600 V rated value	2 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 230 V rated value	0.13 hp
• for 3-phase AC motor	
— at 460/480 V rated value	1 hp
— at 575/600 V rated value	1 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 25 A
• at 500 V	gL/gG 25 A
• at 690 V	gL/gG 20 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	97 mm
width	45 mm
depth	97 mm
p	

		For use in hazard-	
Certificates/ approvals			
display version for switching status	Handle		
protection class IP on the front according to IEC 60529	IP00		
T1 value for proof test interval or service life according to IEC 61508	10 a		
with low demand rate according to SN 31920	50 FIT		
failure rate [FIT]			
<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %		
<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 %		
proportion of dangerous failures			
with high demand rate according to SN 31920	5 000		
B10 value			
Safety related data			
of the auxiliary and control contacts	M3		
for main contacts	M3		
design of the thread of the connection screw			
size of the screwdriver tip	size 2 and Pozidriv 2		
design of screwdriver shaft	Diameter 5 to 6 mm		
outer diameter of the usable ring cable lug maximum	7.5 mm		
for auxiliary contacts for ring cable lug	1.2 0.8 N·m		
for main contacts for ring cable lug	0.8 1.2 N·m		
tightening torque			
arrangement of electrical connectors for main current circuit	Top and bottom		
for auxiliary and control circuit	ring terminal lug connection		
• for main current circuit	Ring cable lug connection		
type of electrical connection			
Connections/ Terminals			
— forwards	0 mm		
— at the side	30 mm		
— backwards	0 mm		
— upwards	50 mm		
— downwards	50 mm		
• for live parts at 690 V			
— forwards	0 mm		
— at the side	30 mm		
— backwards	0 mm		
— upwards	50 mm		
for grounded parts at 690 V      downwards	50 mm		
at the side      for grounded parts at 690 V	V IIIII		
— upwards — at the side	9 mm		
— downwards — upwards	30 mm		
• for live parts at 500 V	30 mm		
— at the side	9 mm		
— upwards	30 mm		
— downwards	30 mm		
for grounded parts at 500 V	20 mm		
— at the side	9 mm		
— upwards	30 mm		
— downwards	30 mm		
• for live parts at 400 V	20 mm		
— at the side	9 mm		
— upwards	30 mm		
— downwards	30 mm		
for grounded parts at 400 V	00		
with side-by-side mounting at the side	0 mm		



Confirmation



FA



For use in hazardous locations

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping







Type Test Certificates/Test Report

<u>KC</u>

Special Test Certificate



Marine / Shipping











Confirmation

other

other

Railway



Vibration and Shock

Confirmation

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RV2011-1BA40

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2011-1BA40}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1BA40

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

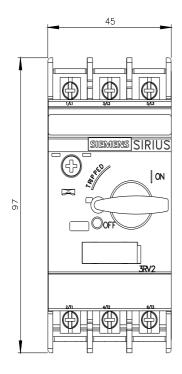
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2011-1BA40&lang=en

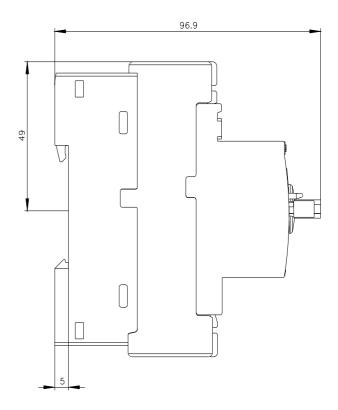
Characteristic: Tripping characteristics, I2t, Let-through current

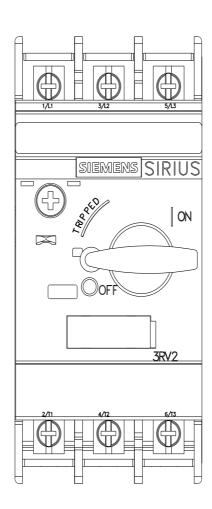
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1BA40/char

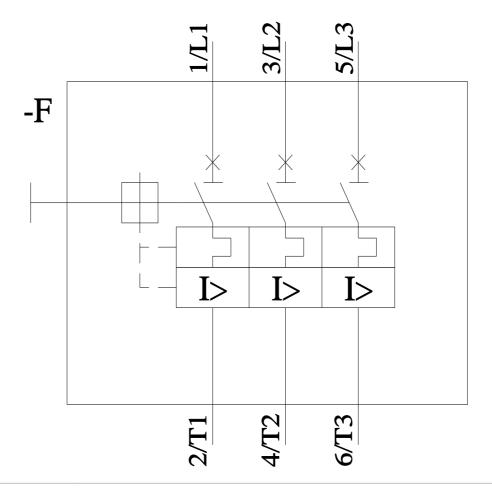
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1BA40&objecttype=14&gridview=view1









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