## SIEMENS

## Data sheet

## 3RV1011-0BA10



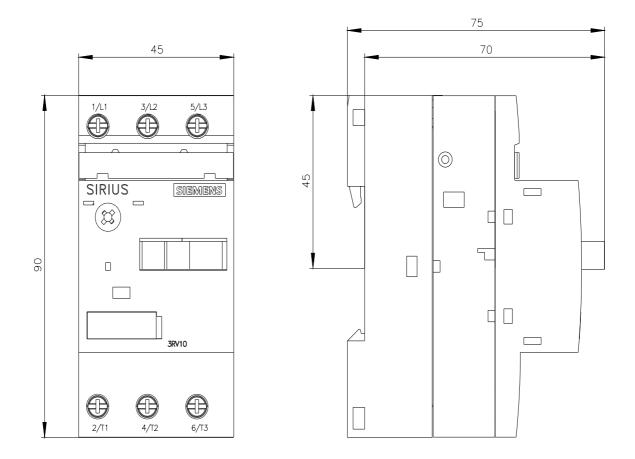
Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.14...0.2 A N-release 2.6 A Screw terminal Standard switching capacity

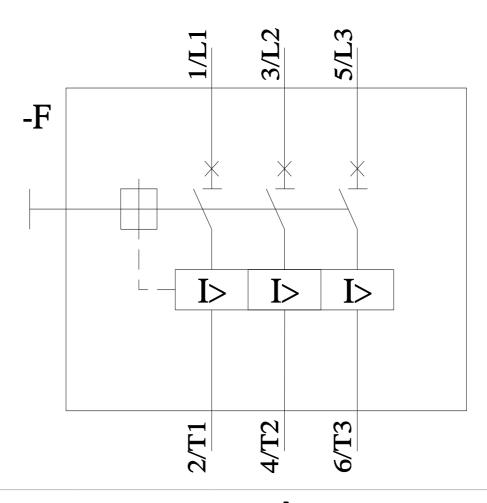
473 473	
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV1
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	5.5 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.8 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
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
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	0.14 0.2 A
operating voltage	
rated value	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	0.2 A
operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	0.2 A

a at AC 2a at 400 V rated value	0.2.4		
at AC-3e at 400 V rated value	0.2 A		
operating power			
• at AC-3			
— at 230 V rated value	0 kW		
— at 400 V rated value	0.06 kW		
— at 500 V rated value	0.1 kW		
— at 690 V rated value	0.1 kW		
• at AC-3e			
— at 230 V rated value	0 kW		
— at 400 V rated value	0.06 kW		
— at 500 V rated value	0.1 kW		
— at 690 V rated value	0.1 kW		
operating frequency			
<ul> <li>at AC-3 maximum</li> </ul>	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			
<ul> <li>ground fault detection</li> </ul>	No		
phase failure detection	Yes		
trip class	CLASS 10		
design of the overload release	thermal		
maximum short-circuit current breaking capacity (Icu)			
at AC at 240 V rated value	100 kA		
<ul> <li>at AC at 400 V rated value</li> </ul>	100 kA		
<ul> <li>at AC at 500 V rated value</li> </ul>	100 kA		
at AC at 690 V rated value	100 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	100 kA		
response value current of instantaneous short-circuit trip unit	2.6 A		
UL/CSA ratings	2.07		
full-load current (FLA) for 3-phase AC motor			
at 480 V rated value	0.2 A		
at 600 V rated value	0.2 A		
	0.2 A		
Short-circuit protection	Y.		
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	none required		
● at 400 V	None required		
● at 500 V	None required		
• at 690 V	None required		
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	screw and snap-on mounting onto 35 mm DIN 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		
<ul> <li>for live parts at 400 V</li> </ul>			
— downwards	20 mm		
— upwards	20 mm		
er e e			

— 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			
<ul> <li>for grounded parts at 690 V</li> </ul>				
— downwards	20 mm			
— upwards	20 mm			
— backwards	0 mm			
— at the side	9 mm			
— forwards	0 mm			
<ul> <li>for live parts at 690 V</li> </ul>				
— downwards	20 mm			
— upwards	20 mm			
— backwards	0 mm			
— at the side	9 mm			
— forwards	0 mm			
Connections/ Terminals				
type of electrical connection				
<ul> <li>for main current circuit</li> </ul>	screw-type terminals			
arrangement of electrical connectors for main o	current Top and bottom			
circuit				
type of connectable conductor cross-sections				
<ul> <li>for main contacts</li> </ul>				
— solid or stranded		2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)		
<ul> <li>finely stranded with core end processir</li> </ul>	1g 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
type of connectable conductor cross-sections				
<ul> <li>for auxiliary contacts</li> </ul>				
<ul> <li>for auxiliary contacts</li> <li>— solid or stranded</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m			
solid or stranded tightening torque	0.8 1.2 N·m			
<ul> <li>— solid or stranded</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m			
<ul> <li>— solid or stranded</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m als 0.8 1.2 N·m			
<ul> <li>— solid or stranded</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminal</li> <li>size of the screwdriver tip</li> </ul>	0.8 1.2 N·m als 0.8 1.2 N·m			
	0.8 1.2 N·m als 0.8 1.2 N·m Pozidriv size 2			
<ul> <li>— solid or stranded</li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> </ul> </li> <li>size of the screwdriver tip         <ul> <li>design of the thread of the connection screw</li> <li>for main contacts</li> </ul> </li> </ul>	0.8 1.2 N·m als 0.8 1.2 N·m Pozidriv size 2			
	0.8 1.2 N·m als 0.8 1.2 N·m Pozidriv size 2 M3			
<ul> <li>solid or stranded</li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminal</li> </ul> </li> <li>size of the screwdriver tip         <ul> <li>design of the thread of the connection screw</li> <li>for main contacts</li> </ul> </li> <li>Safety related data         <ul> <li>B10 value</li> </ul> </li> </ul>	0.8 1.2 N·m als 0.8 1.2 N·m Pozidriv size 2 M3			
<ul> <li>— solid or stranded</li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminal</li> </ul> </li> <li>size of the screwdriver tip         <ul> <li>design of the thread of the connection screw</li> <li>for main contacts</li> </ul> </li> <li>Safety related data         <ul> <li>B10 value</li> <li>with high demand rate according to SN 3192</li> </ul> </li> </ul>	0.8 1.2 N·m       als       0.8 1.2 N·m       Pozidriv size 2       M3       20       5 000			
<ul> <li>— solid or stranded</li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> <li>size of the screwdriver tip</li> <li>design of the thread of the connection screw                 <ul> <li>for main contacts</li> </ul> </li> <li>Safety related data</li> </ul> </li> <ul> <li>with high demand rate according to SN 3192</li> <li>proportion of dangerous failures</li> </ul> </ul>	0.8 1.2 N·m         als         0.8 1.2 N·m         Pozidriv size 2         M3         20         5 000         50 %			
<ul> <li>— solid or stranded</li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> <li>size of the screwdriver tip</li> <li>design of the thread of the connection screw                 <ul> <li>for main contacts</li> </ul> </li> <li>for main contacts</li> </ul> </li> <li>Safety related data         <ul> <li>B10 value</li> <li>with high demand rate according to SN 3192</li> <li>proportion of dangerous failures</li> <ul> <li>with low demand rate according to SN 3192</li> </ul> </ul></li> </ul>	0.8 1.2 N·m         als         0.8 1.2 N·m         Pozidriv size 2         M3         20         5 000         50 %			
<ul> <li>— solid or stranded</li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> </ul> </li> <li>size of the screwdriver tip         <ul> <li>design of the thread of the connection screw</li> <li>for main contacts</li> </ul> </li> <li>Safety related data         <ul> <li>B10 value</li> <li>with high demand rate according to SN 31920</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul> </li> </ul>	0.8 1.2 N·m         als       0.8 1.2 N·m         Pozidriv size 2         M3         20       5 000         50 %         20       50 %			
<ul> <li>— solid or stranded</li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminal</li> </ul> </li> <li>size of the screwdriver tip         <ul> <li>design of the thread of the connection screw</li> <li>for main contacts</li> </ul> </li> <li>Safety related data         <ul> <li>B10 value</li> <li>with high demand rate according to SN 3192</li> <li>proportion of dangerous failures</li> <li>with high demand rate according to SN 3192</li> <li>with high demand rate according to SN 3192</li> <li>thigh demand rate according to SN 3192</li> </ul> </li> </ul>	0.8 1.2 N·m         0.8 1.2 N·m         Pozidriv size 2         M3         20       5 000         50 %         20       50 %         50 %         50 %         50 FIT			
<ul> <li>— solid or stranded</li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> <li>size of the screwdriver tip</li> <li>design of the thread of the connection screw                 <ul> <li>for main contacts</li> </ul> </li> <li>Safety related data</li> </ul> </li> <li>B10 value                 <ul> <li>with high demand rate according to SN 3192</li> <li>with low demand rate according to SN 3192</li> <li>with high demand rate according to SN 3192</li> </ul> </li> <li>with high demand rate according to SN 3192</li> </ul>	0.8 1.2 N·m         0.8 1.2 N·m         Pozidriv size 2         M3         20         5 000         50 %         20         50 %         50 %         50 %         50 %         50 FIT         C 60529			
<ul> <li>— solid or stranded</li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> <li>for main contacts</li> </ul> </li> <li>Safety related data         <ul> <li>B10 value</li> <li>with high demand rate according to SN 3192</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 3192</li> <li>with high demand rate according to SN 3192</li> <li>with high demand rate according to SN 3192</li> <li>with low demand rate according to SN 3192</li> </ul> </li> </ul>	0.8 1.2 N·m         0.8 1.2 N·m         Pozidriv size 2         M3         20         5 000         50 %         20         50 %         50 %         50 %         50 %         50 FIT         C 60529			
<ul> <li>— solid or stranded</li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> <li>for main contacts</li> </ul> </li> <li>Safety related data         <ul> <li>B10 value</li> <li>with high demand rate according to SN 31920</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with low demand rate according to SN 31920</li> <li>protection class IP on the front according to IEC 0</li> <li>display version for switching status</li> </ul> </li> </ul>	0.8 1.2 N·m         Pozidriv size 2         M3         20       5 000         50 %         20       50 %         20       50 %         20       50 %         20       50 %         20       50 %         20       50 FIT         1       FI20         G0529       IP20         finger-safe, for vertical contact from the front			
<ul> <li>— solid or stranded</li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> <li>for main contacts</li> </ul> </li> <li>Safety related data         <ul> <li>B10 value</li> <li>with high demand rate according to SN 3192</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 3192</li> <li>with high demand rate according to SN 3192</li> <li>with high demand rate according to SN 3192</li> <li>protection class IP on the front according to IEC of display version for switching status</li> </ul> </li> <li>Certificates/ approvals</li> </ul>	0.8 1.2 N·m         Pozidriv size 2         M3         20       5 000         50 %         20       50 %         20       50 %         20       50 %         20       50 FIT         C 60529       IP20         IP20       Finger-safe, for vertical contact from the front         Rocker switch       Rocker switch			
<ul> <li>— solid or stranded</li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> <li>for main contacts</li> </ul> </li> <li>Safety related data         <ul> <li>B10 value</li> <li>with high demand rate according to SN 31920</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with low demand rate according to SN 31920</li> <li>protection class IP on the front according to IEC 0</li> <li>display version for switching status</li> </ul> </li> </ul>	0.8 1.2 N·m         Pozidriv size 2         M3         20       5 000         50 %         20       50 %         20       50 %         20       50 %         20       50 %         20       50 %         20       50 FIT         1       FI20         G0529       IP20         finger-safe, for vertical contact from the front			
<ul> <li>— solid or stranded</li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> <li>for main contacts</li> </ul> </li> <li>Safety related data         <ul> <li>B10 value</li> <li>with high demand rate according to SN 3192</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 3192</li> <li>with high demand rate according to SN 3192</li> <li>with high demand rate according to SN 3192</li> <li>protection class IP on the front according to IEC of display version for switching status</li> </ul> </li> <li>Certificates/ approvals</li> </ul>	0.8 1.2 N·m         Pozidriv size 2         M3         20       5 000         50 %         20       50 %         20       50 %         20       50 %         20       50 FIT         C 60529       IP20         IP20       Finger-safe, for vertical contact from the front         Rocker switch       Rocker switch			
<ul> <li>— solid or stranded</li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> <li>for main contacts</li> </ul> </li> <li>Safety related data         <ul> <li>B10 value</li> <li>with high demand rate according to SN 3192</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 3192</li> <li>with high demand rate according to SN 3192</li> <li>with low demand rate according to SN 3192</li> <li>protection class IP on the front according to IEC 0</li> <li>display version for switching status</li> </ul> </li> <li>Certificates/ approvals</li> <li>General Product Approval</li> </ul>	0.8 1.2 N·m         Pozidriv size 2         M3         20       5 000         0       50 %         20       50 %         0       50 %         0       50 FIT         C 60529       IP20         finger-safe, for vertical contact from the front         Rocker switch    For use in hazardous locations	>		

UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS	BUREAU VERITAS		
Marine / Shipping					other		
Lloyd's Register urs	PRS	RINA	RMRS		Confirmation		
other		Railway					
<u>Miscellaneous</u>	UDE VDE	Special Test Certific- ate					
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=3RV1011-0BA10							
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-0BA10							
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0BA10 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-0BA10⟨=en Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0BA10/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-0BA10&objecttype=14&gridview=view1							





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