## SIEMENS

## Data sheet

## 3RV1011-0BA10



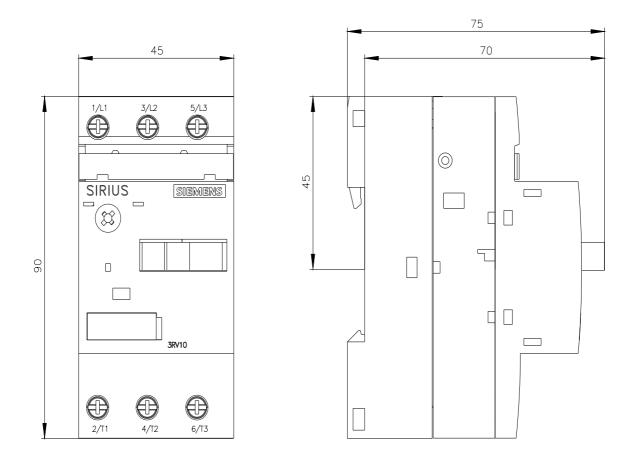
Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.14...0.2 A N-release 2.6 A Screw terminal Standard switching capacity

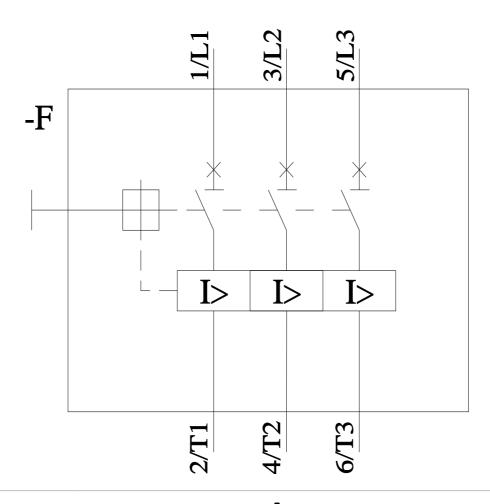
413 413	
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV1
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00
product extension auxiliary switch	Yes
power loss [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
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	01/01/2013
SVHC substance name	Lead - 7439-92-1
Weight	0.23 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-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
type of voltage for main current circuit	AC
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	

• at AC-3 at 400 V rated value	0.2 A
• 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	0.06 kW
— at 690 V rated value	0.09 kW
• at AC-3e	
— at 230 V rated value	0 kW
— at 400 V rated value	0.06 kW
— at 500 V rated value	0.06 kW
— at 690 V rated value	0.09 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
type of voltage for auxiliary and control circuit	AC/DC
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	
<ul> <li>ground fault detection</li> </ul>	No
<ul> <li>phase failure detection</li> </ul>	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (lcu)	
<ul> <li>at AC at 240 V rated value</li> </ul>	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
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	
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
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 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
— at the side	9 mm
<ul> <li>for grounded parts at 500 V</li> </ul>	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
<ul> <li>for live parts at 500 V</li> </ul>	
— 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
• for live parts at 690 V	
— 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 current	Top and bottom
circuit	
type of connectable conductor cross-sections • for main contacts	
• for main contacts	
colid or other dod	$\Omega_{11} = (0.5 \pm 1.5 \text{ mamo}^2) \Omega_{11} = (0.75 \pm 0.5 \text{ mamo}^2) \Omega_{11} = (1.5 \text{ mamo}^2)$
— solid or stranded	2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> ), 2x (1 4 mm <sup>2</sup> )
- finely stranded with core end processing	2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> ), 2x (1 4 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
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<ul> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections         <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> </ul> </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>design of screwdriver shaft</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> </ul> </li> <li>Safety related data         <ul> <li>product function suitable for safety function</li> <li>suitability for use</li> <li>safety-related switching on</li> <li>safety-related switching OFF</li> <li>service life maximum</li> <li>test wear-related service life necessary</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul> </li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3 Yes No Yes 10 a Yes 40 % 50 %
<ul> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections         <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> </ul> </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>design of screwdriver shaft</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> </ul> </li> <li>Safety related data         <ul> <li>product function suitable for safety function</li> <li>suitability for use</li> <li>safety-related switching on</li> <li>safety-related switching OFF</li> <li>service life maximum</li> <li>test wear-related service life necessary</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>B10 value with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN</li> </ul> </li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3 Yes No Yes 10 a Yes 40 % 50 % 5 000
<ul> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections         <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> </ul> </li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> <li>design of screwdriver shaft</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> </ul> </li> <li>Safety related data         <ul> <li>product function suitable for safety function</li> <li>suitability for use</li> <ul> <li>safety-related switching on</li> <li>safety-related switching OFF</li> <li>service life maximum</li> <li>test wear-related service life necessary</li> <li>proportion of dangerous failures</li> <li>with high demand rate according to SN 31920</li> <li>B10 value with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>failure rate according to SN 31920</li> <li>failure rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>failure rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>failure rate according to SN 31920</li> <li>failure rate according to SN 31920</li></ul></ul></li></ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3 Yes No Yes 10 a Yes 40 % 50 % 5 000
<ul> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections         <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> </ul> </li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> <li>design of screwdriver shaft</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> </ul> </li> <li>Safety related data         <ul> <li>product function suitable for safety function</li> <li>suitability for use</li> <ul> <li>safety-related switching on</li> <li>safety-related switching OFF</li> <li>service life maximum</li> <li>test wear-related service life necessary</li> <li>proportion of dangerous failures</li> <li>with how demand rate according to SN 31920</li> <li>B10 value with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>ISO 13849</li> <li>ISO 13849</li></ul></ul></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)         0.8 1.2 N·m         0.8 1.2 N·m         Diameter 5 to 6 mm         Pozidriv size 2         M3         Yes         10 a         Yes         40 %         50 %         5 000         50 FIT
<ul> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections         <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> </ul> </li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> <li>design of screwdriver shaft</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> </ul> </li> <li>Safety related data         <ul> <li>product function suitable for safety function</li> <li>suitability for use</li> <ul> <li>safety-related switching on</li> <li>safety-related switching OFF</li> <li>service life maximum</li> <li>test wear-related service life necessary</li> <li>proportion of dangerous failures</li> <li>with high demand rate according to SN 31920</li> <li>B10 value with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>ISO 13849</li> <li>device type according to ISO 13849-1</li> </ul> </ul></li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3 Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT

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	6 (e.g. electrical enduran	ce, switching freque	ncy)			





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