SIEMENS

Data sheet

3RV2011-0BA10



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

4/17 6/15	
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
shock resistance according to IEC 60068-2-27	25g / 11 ms
mechanical service life (operating cycles)	
 of the main contacts typical 	100 000
 of auxiliary contacts typical 	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)	10/01/2009
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
 at AC-3 rated value maximum 	690 V
 at AC-3e rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	0.2 A

operating power 0.2 A • # AC-3# it 400 V rated value 0.2 A • # AC-3# it 400 V rated value 0.2 A • # AC-3# it 400 V rated value 0.0 KW • # AC-3# 0 KW • # AC-3# and main 0 KW • # AC-3# and main 15 1h • # AC-3# and main 10 1h • # AC-3# and main 10 1h • # AC-3# and Main detection No • and AC in 240 V rated value <t< th=""><th>energianal autrent</th><th></th></t<>	energianal autrent	
• e1.4.2-3e at 400 Yinde value0.2.A• at 4230 Yinde Value0.66 WV- at 420 Yinde Value0.66 WV- at 420 Yinde Value0.1 WV- at 630 Yinde Value0.1 WV- at 630 Yinde Value0.66 WV- at 640 Yinde Value100 VA- at 640 Vinde Value100 VA <td>operational current</td> <td>0.2 A</td>	operational current	0.2 A
operating power• af 230 V relativative0.6W V- af 230 V relativative0.1 kW- af 230 V relativative100 kA- af 230 V relativative100 kA- af 240 V relativative100 kA- af 250 V relativative		
• ai AC3 • W - ai 400 Vrated value 0.06 kW - ai 400 Vrated value 0.11 kW - ait 500 Vrated value 0.11 kW - at 520 Vrated value 0.06 kW - ait 500 Vrated value 0.06 kW - ait 520 Vrated value 0.06 kW - ait 520 Vrated value 0.06 kW - ait 500 Vrated value 0.06 kW - ait 500 Vrated value 0.11 kW - ait 500 Vrated value 0.11 kW - ait 600 Vrated value 0.12 kA - ait 600 Vrated value 100 kA - ait 600 Vrated value 100 kA - ait 600 Vrated value		0.2 A
 al 230 V rigit value OKW al 500 V rigit value OKW al 500 V rigit value OKW al 400 V rigit value OKW al 400 V rigit value OKW al 400 V rigit value OKW al 500 V rigit value OKW al 500 V rigit value I kW al 600 V rigit value I kW al 620 v rigit value I kW <lii kw<="" li=""> <lii kw<="" li=""></lii></lii>		
- al 400 V rated value 0.06 kW - al 400 V rated value 0.1 kW - al 400 V rated value 0.1 kW - al 400 V rated value 0.6 kW - al 400 V rated value 0.6 kW - al 400 V rated value 0.6 kW - al 400 V rated value 0.1 kW - al 400 V rated value 100 kA - al 400 V rated value 100		0 kW
- at 500 V rates value 0.1 kW - at 230 V rates value 0.1 kW - at 230 V rates value 0.6 kW - at 200 V rates value 0.6 kW - at 500 V rates value 0.1 kW - at 600 V rates value 0.1 kW - at 610 V rates value 100 kA - at 614 value value 100 kA - at 610 V rates value 100 kA - at 620 V rates value 100 kA		
• at AC:3° • • at AC:3° 0.WW • at 400 V rated value 0.6K W • at 600 V rated value 0.1 KW • at 600 V rated value 0.1 KW • at AC:3 maximum 15 1/h • at AC:3 maximum 0 • at AC:3 to Contacts for auxiliary contacts 0 • at AC at AC at AD 0 • private fille detection Yes • private fille detection Yes • at AC at 400 V rated value 100 VA • at AC at 500 V rated value 100 VA • at AC at 500 V rated value 100 VA • at AC at 500 V rated value 100 VA • at AC at 500 V rated value 100 VA • at AC at 500 V rated value 100 VA • at AC at 500 V rated value 0.2 A • at AC at 7 rated value 0.2 A <td></td> <td></td>		
	• at AC-3e	
- at 800 V rated value 0.1 kW operating frequency 15 1/h • at AC-3 maximum 0 • at AC-3 maximum shouldary contacts 0 • at AC-3 maximum shouldary contacts 0 • at AC-3 at AC-3 for auxillary contacts 0 • at AC-3 for Auxillary contacts No • at AC-3 for Auxillary contacts 100 kA • at AC-3 for Auxillary contacts 100 kA • at AC-3 for OV rated value 100 kA • at AC-3 for OV rated value 100 kA <t< td=""><td>— at 230 V rated value</td><td>0 kW</td></t<>	— at 230 V rated value	0 kW
	— at 400 V rated value	0.06 kW
operating frequency • at AC-3 maximum15 1/h• at AC-3 maximum15 1/h• at AC-3 maximum15 1/h• at AC-3 maximum15 1/hAuximary circuit0number of NC contacts for auxiliary contacts0number of NC contacts for auxiliary contacts0Protective and monitoring functions0• ground fault detectionYes• product functionYes• product functionYes• at AC at 240 V rated value100 kA• at AC at 240 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 600 V rated value100 kA• at 600 V rated value100 kA• at 600 V rated value0.2 A• at 600 V rated value	— at 500 V rated value	0.1 kW
• at AC-3 maximum 15 hh Auxiliary circuit 15 hh Auxiliary circuit 0 number of NC contacts for auxiliary contacts 0 number of CC contacts for auxiliary contacts 0 Protective and monitoring functions 0 product function No • product function Ves • phase failure detection Ves trip class CLASS 10 thermal 100 kA • at AC at 240 V rated value 100 kA • at AC at 400 V rated value 100 kA • at AC at 900 V rated value 100 kA • at AC at 900 V rated value 100 kA • at AC at 900 V rated value 100 kA • at AC at 900 V rated value 100 kA • at AC at 900 V rated value 100 kA • at AC at 900 V rated value 100 kA • at 400 V rated value 100 kA • at 400 V rated value 100 kA • at 400 V rated value 100 kA • at 600 V rated value 02 A • at 600 V rated value 02 A • at 900 V rated value 02 A • at 900 V rated val	— at 690 V rated value	0.1 kW
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Protective and monitoring functions product function • ground fault detection • phase failure detection • phase failure detection • phase failure detection • at Act at 200 V rated value • at Act at 500 V rated value • at Act at 400 V rated value • at 420 V rated value • at 430 V rated value • at 630 V rated value • a	-	0
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response value current of instantaneous short-circuit trip unit 2.6 A UL/CSA ratings Image: Constraint of the short of		
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	- · ·	30 mm
for live parts at 400 V downwards 30 mm		30 mm
- downwards 30 mm	— at the side	9 mm
	 for live parts at 400 V 	
— upwards 30 mm	— downwards	30 mm
	— upwards	30 mm

— at the side	9 mm	
 for grounded parts at 500 V 	9 11111	
- 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		
type of electrical connection		
 for main current circuit 	screw-type terminals	
arrangement of electrical connectors for main current	Top and bottom	
type of connectable conductor cross-sections		
for main contacts	$2 \times (0.75 - 2.5 - 2.5 - 2.5 - 2.5)$	
— solid or stranded	$2x (0.75 \dots 2.5 \text{ mm}^2), 2x 4 \text{ mm}^2$	
 finely stranded with core end processing at AWG cables for main contacts 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)	
	2x (18 14), 2x 12	
 tightening torque for main contacts with screw-type terminals 	0.8 1.2 N·m	
design of screwdriver shaft	Diameter 5 to 6 mm	
design of screwdriver shaft size of the screwdriver tip		
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw	Diameter 5 to 6 mm Pozidriv size 2	
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts	Diameter 5 to 6 mm	
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data	Diameter 5 to 6 mm Pozidriv size 2	
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value	Diameter 5 to 6 mm Pozidriv size 2 M3	
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920	Diameter 5 to 6 mm Pozidriv size 2	
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures	Diameter 5 to 6 mm Pozidriv size 2 M3 5 000	
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920	Diameter 5 to 6 mm Pozidriv size 2 M3 5 000 50 %	
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920	Diameter 5 to 6 mm Pozidriv size 2 M3 5 000	
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT]	Diameter 5 to 6 mm Pozidriv size 2 M3 5 000 50 %	
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920	Diameter 5 to 6 mm Pozidriv size 2 M3 5 000 50 % 50 %	
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT]	Diameter 5 to 6 mm Pozidriv size 2 M3 5 000 50 % 50 % 50 FIT	
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 T1 value for proof test interval or service life according to	Diameter 5 to 6 mm Pozidriv size 2 M3 5 000 50 % 50 % 50 FIT	
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529	Diameter 5 to 6 mm Pozidriv size 2 M3 5 000 50 % 50 % 50 FIT 10 a IP20	
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	Diameter 5 to 6 mm Pozidriv size 2 M3 5 000 50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact from the front	
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status	Diameter 5 to 6 mm Pozidriv size 2 M3 5 000 50 % 50 % 50 FIT 10 a IP20	
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design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status Certificates/ approvals General Product Approval	Diameter 5 to 6 mm Pozidriv size 2 M3 5 000 50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact from the front Handle	ous locations
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw . for main contacts Safety related data B10 value . with high demand rate according to SN 31920 proportion of dangerous failures . with low demand rate according to SN 31920 failure rate [FIT] . with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 display version for switching status Certificates/ approvals General Product Approval	Diameter 5 to 6 mm Pozidriv size 2 M3 5 000 50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact from the front Handle	ous locations
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design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw . for main contacts Safety related data E10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status Certificates/ approvals Confirmation	Diameter 5 to 6 mm Pozidriv size 2 M3 5 000 50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact from the front Handle	ous locations

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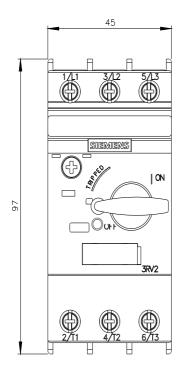


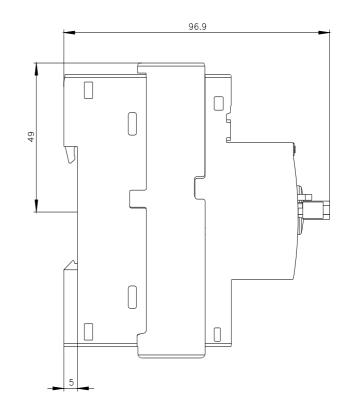
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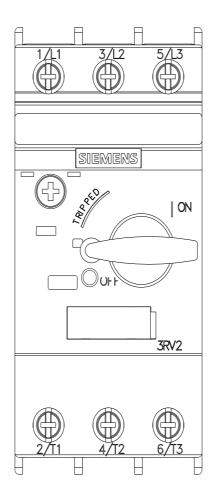


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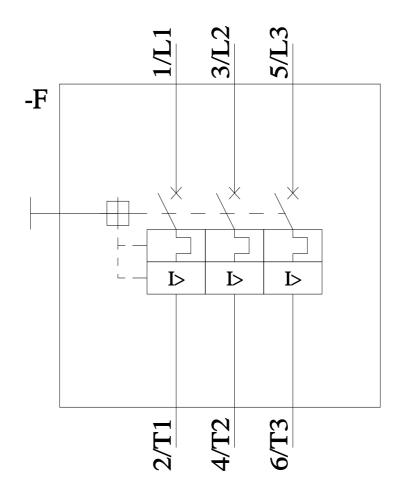
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