SIEMENS

Data sheet

3RV2021-4BA10



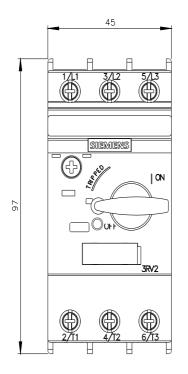
Circuit breaker size S0 for motor protection, CLASS 10 A-release 13...20 A N-release 260 A screw terminal Standard switching capacity

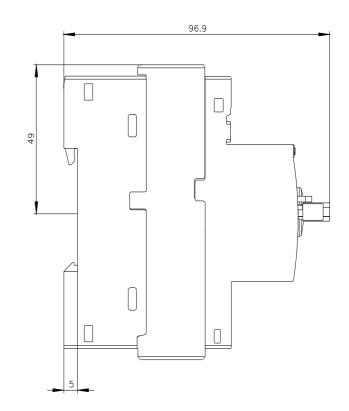
4/11 4/12 6/13	
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S0
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	10.5 W
 at AC in hot operating state per pole 	3.5 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	13 20 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	20 A
operational current	

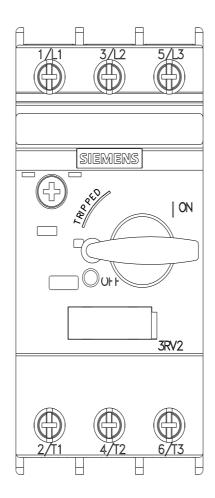
• at AC3 at 400 vtade valueS0 Aoperating pover-• at AC3 at 230 vtated value5.5 kW- at 300 vtated value7.5 kW- at 300 vtated value15 kW- at 300 vtated value5.5 kW- at 300 vtated value11 kW- at 300 vtated value15 kW- at 300 vtated value15 kW- at 300 vtated value15 kW- at 300 vtated value5 5 th- at 300 vtated value0- at 400 vtated valu		00.4
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- af 230 V ratio value55 WV- af 260 V ratio value75 KW- af 260 V ratio value11 KW- af 250 V ratio value15 KW- af 250 V ratio value55 KW- af 250 V ratio value55 KW- af 250 V ratio value75 KW- af 250 V ratio value75 KW- af 250 V ratio value75 KW- af 250 V ratio value15 KW- af 250 V ratio value0- af 250 V ratio value15 Fu- af 250 V ratio		
- af 400 V raded value7.5 kW- af 500 V raded value16 kW- af 500 V raded value16 kW- af 400 V raded value7.5 kW- af 400 V raded value7.5 kW- af 500 V raded value15 kM- af 500 V raded value0- prase falle detectionY eds- prase falle detectionY eds- af 500 V raded value55 kA- af 500 V raded value56 kA- af 500 V raded value26 kA- af 500 V raded value1.5 hp af 2		
	— at 400 V rated value	7.5 kW
• all AC-3e>- all 230 V rade value5. KW- all 500 V rade value11. KW- all 500 V rade value15. KWOperating frequency11. KW- all C-3e maximum15. 15. 15. 15. 16 all C-3e maximum15. 15. 16.Auxiliary circuit0number of NC contacts for auxiliary contacts0number of NC contacts for auxiliary contacts0Protection0- product functions0- product functions0- product functions0- product functions0- finale failur detectionYes- finale failur detectionYes- finale failur detectionYes- finale failur detectionYes- finale failur detection100 KA- finale failur detection100 KA- finale failur detection25 KA- finale failur detection25 KA- finale failur detection26 KA- finale failur detection26 KA- finale failur detection20 A- finale failur detection20 A- finale failur detection20 A- finale failur detection20 A- finale failur detection1.5 fbp- all 200 V rated value20 A- finale failur detection20 A- finale failur deta value20 A- finale failur deta value20 A- finale failur deta value3 fbp- finale failur deta value3 fbp- finale failur deta value3 fbp <tr< td=""><td>— at 500 V rated value</td><td>11 kW</td></tr<>	— at 500 V rated value	11 kW
	— at 690 V rated value	15 kW
	● at AC-3e	
	— at 230 V rated value	5.5 kW
− at 890 V rated value 15 kW operating frequency 15 1 h • at AC-3 maximum 15 1 h • at AC-3 maximum 15 1 h • att AC-3 maximum 0 number of NC contacts for auxillary contacts 0 number of NC contacts for auxillary contacts 0 number of NC contacts for auxillary contacts 0 • ground fault detection Ves • ground fault detection Yes • ground fault detection Ves • at AC at 240 V rated value 100 kA • at AC at 240 V rated value 100 kA • at AC at 240 V rated value 100 kA • at AC at 240 V rated value 100 kA • at AC at 240 V rated value 100 kA • at AC at 240 V rated value 100 kA • at AC at 240 V rated value 100 kA • at AC at 240 V rated value 100 kA • at AC at 240 V rated value 20 kA • at 240 V rated value 20 A • at 240 V rated value 20 A • at 240 V rated value 20 A • at 240 V rated value 30 A • at 240 V rated value 30 A • at 240 V rated value 20 A • at 240 V rated value 100 kA • at 240 V rated value 30 A	— at 400 V rated value	7.5 kW
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i at AC3 maximum 15 1m at AC36 maximum 15 1m Auxiliary circuits 0 number of NC contacts for auxiliary contacts 0 number of AC3 contacts for auxiliary contacts 0 number of AC3 contacts for auxiliary contacts 0 product function 0 • ground fault detection No • private fully detection Vesis trip class CLASS 10 design of the overload release thermail maximum short-circuit current breaking capacity (lecu) it AC at 240 V rated value • at AC at 500 V rated value 100 kA • at AC at 500 V rated value 100 kA • at AC at 500 V rated value 25 kA • at AC at 500 V rated value 260 A • at AC at 500 V rated value 260 A • at 600 V rated value 20 A • at 600 V rated value 1.5 hp • at 600 V rated value 3 hp • for 3 phase AC motor <	— at 690 V rated value	15 kW
• at AC3e maximum15 1/hAuxiliary cortacts for auxiliary contacts0number of NC contacts for auxiliary contacts0number of NC contacts for auxiliary contacts0Product functionNo• groun failut detectionNo• groun failut detectionNo• groun failut detectionSo• product functionNo• and CA 21 240 Vrated valueCLASS 10design of the overload releaseHermailmaximum short-circuit current breaking capacity (Icu)•• at AC at 400 Vrated value25 KA• at AC at 400 Vrated value10 KA• at AC at 400 Vrated value25 KA• at AC at 600 Vrated value26 KA• at AC at 600 Vrated value20 A• at AC at 600 Vrated value20 A• at 400 Vrated value1.5 Pp• at 400 Vrated value3 hp• for single-phase AC motor1.6 Gri single-phase AC motor• at 400 Vrated value5 hp• at 400 Vrated value5 hp• at 400 Vr	operating frequency	
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full-load current (FLA) for 3-phase AC motor 20 A • at 480 V rated value 20 A • at 600 V rated value 20 A yielded mechanical performance [hp] • • for single-phase AC motor - - at 110/120 V rated value 1.5 hp - at 230 V rated value 3 hp • for 3-phase AC motor - - at 200/208 V rated value 7.5 hp - at 200/208 V rated value 5 hp - at 200/208 V rated value 5 hp - at 460/480 V rated value 10 hp Short-circuit protection Yes gesign of the short-circuit trip magnetic design of the fuse link for IT network for short-circuit protection of the main circuit gL/gG 63 A • at 400 V gL/gG 60 A • at 500 V gL/gG 50 A • at 609 V gL/gG 50 A • at 600 V gL/gG 50 A Installation/ mounting/ dimensions any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		2007
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yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value hp at 230 V rated value hp - at 230 V rated value 3 hp • for 3-phase AC motor - at 200/208 V rated value 7.5 hp - at 220/230 V rated value 5 hp - at 220/230 V rated value 10 hp Short-circuit protection Yes design of the short-circuit protection Yes design of the fuse link for IT network for short-circuit protection of the main circuit gL/gG 63 A • at 400 V gL/gG 50 A • at 500 V gL/gG 50 A • at 690 V gL/gG 50 A Installation/ mounting/ dimensions any mounting position any		
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• for 3-phase AC motor·- at 200/208 V rated value7.5 hp- at 220/230 V rated value5 hp- at 460/480 V rated value10 hpShort-circuit protectionProduct function short circuit protectionYesdesign of the short-circuit tripmagneticdesign of the fuse link for IT network for short-circuit protection of the main circuitgL/gG 63 A• at 400 VgL/gG 50 A• at 690 VgL/gG 50 AInstallation/ mounting/ dimensionsanymounting positionanyfastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
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— at 460/480 V rated value10 hpShort-circuit protectionYesproduct function short circuit protectionYesdesign of the short-circuit tripmagneticdesign of the fuse link for IT network for short-circuit protection of the main circuitgL/gG 63 A• at 400 VgL/gG 50 A• at 500 VgL/gG 50 A• at 690 VgL/gG 50 AInstallation/ mounting/ dimensionsmounting positionanyfastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
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• at 500 V gL/gG 50 A • at 690 V gL/gG 50 A Installation/ mounting/ dimensions gL/gG 50 A mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	protection of the main circuit	
• at 690 V gL/gG 50 A Installation/ mounting/ dimensions any fastening method acrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
Installation/ mounting/ dimensions any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	• at 690 V	gL/gG 50 A
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	Installation/ mounting/ dimensions	
	mounting position	any
height 97 mm	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
	height	97 mm

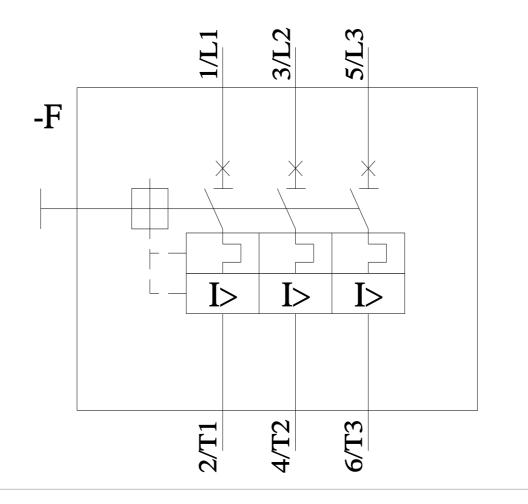
width	45 mm
depth	97 mm
required spacing	97 mm
with side-by-side mounting at the side	0 mm
	0 mm
 for grounded parts at 400 V — downwards 	30 mm
	30 mm
— upwards	9 mm
— at the side	9 mm
• for live parts at 400 V	20
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for grounded parts at 500 V	
— 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	
type of electrical connection	
 for main current circuit 	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
 for main contacts 	
— solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
 finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
 for AWG cables for main contacts 	2x (16 12), 2x (14 8)
tightening torque	
 for main contacts with screw-type terminals 	2 2.5 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	
for main contacts	M4
Safety related data	
B10 value	
 with high demand rate according to SN 31920 	5 000
proportion of dangerous failures	
 with low demand rate according to SN 31920 	50 %
 with high demand rate according to SN 31920 	50 %
failure rate [FIT]	
 with low demand rate according to SN 31920 	50 FIT
T1 value for proof test interval or service life according to IEC 61508	10 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
display version for switching status	Handle

ertificates/ approva	als				
General Product A	pproval				For use in hazard- ous locations
	<u>Confirmation</u>		KC	EHC	K ATEX
For use in hazard- ous locations	Declaration of Conf	ormity	Test Certificates		Marine / Shipping
IECEX	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS
Marine / Shipping					other
B UREAU VERITAS		Lloyd's Register urs	PRS	RINA	<u>Confirmation</u>
other	Railway				
	<u>Confirmation</u>	<u>Vibration and Shock</u>			
urther information					
Siemens has decid	led to exit the Russian ma	arket (see here). ase/siemens-wind-down-rus	sian husiness		
Siemens is working Please contact your EAC relevant market nformation on the https://support.indus nformation- and D https://www.siemens ndustry Mall (Onlini ttps://mall.industry. Cax online generat http://support.autom Service&Support (indus mage database (po	g on the renewal of the cu local Siemens office on the tot (other than the sanctioned packaging stry.siemens.com/cs/ww/en. ownloadcenter (Catalogs s.com/ic10 ne ordering system) siemens.com/mall/en/en/Ci tor ation.siemens.com/WW/C/ Manuals, Certificates, Ch stry.siemens.com/cs/ww/en. roduct images, 2D dimension	Irrent EAC certificates. e status of validity of the EA d EAEU member states Rus /view/109813875 , Brochures,) atalog/product?mlfb=3RV20 AXorder/default.aspx?lang= aracteristics, FAQs,)	C certification if you inten ssia or Belarus). 021-4BA10 en&mlfb=3RV2021-4BA1 s, device circuit diagram	<u>0</u>	ply these products to ar
Characteristic: Trip	oping characteristics, I ² t, stry.siemens.com/cs/ww/en	Let-through current /ps/3RV2021-4BA10/char			
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