SIEMENS

Data sheet

3RV2411-1HA20

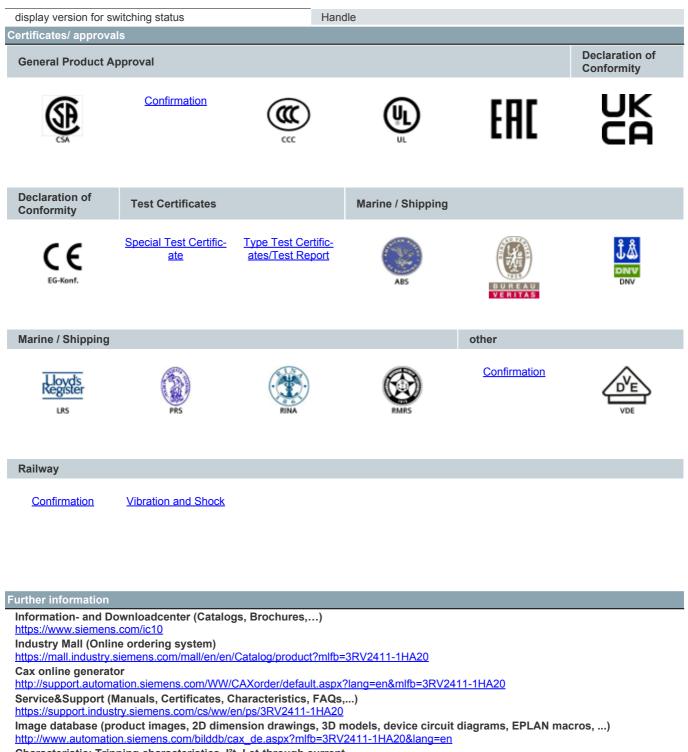


Circuit breaker size S00 for transformer protection A-release 5.5...8 A N-release 163 A Spring-type terminal Standard switching capacity

product brand name	SIRIUS	
product designation	Circuit breaker	
design of the product	For transformer 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 	9.25 W	
 at AC in hot operating state per pole 	3.1 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 (switching cycles)		
 of the main contacts typical 	100 000	
 of auxiliary contacts typical 	100 000	
electrical endurance (switching cycles) typical	100 000	
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	5.5 8 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	8 A	
operational current		
• at AC-3 at 400 V rated value	8 A	

a at AC 2a at 400 V rated value	0.4
at AC-3e at 400 V rated value operating power	8 A
• at AC-3	
at AC-3 at 230 V rated value	1.5 kW
— at 200 V rated value	3 kW
— at 500 V rated value	3 KW 4 KW
— at 500 V rated value	4 KVV 5.5 KW
• at AC-3e	0.0 KVV
— at 230 V rated value — at 400 V rated value	1.5 kW 3 kW
— at 500 V rated value	3 KW 4 KW
— at 690 V rated value	5.5 kW
operating frequency	5.5 KW
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	15 1/11
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	
ground fault detection	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
breaking capacity maximum short-circuit current (Icu)	
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 	42 kA
 at AC at 690 V rated value 	6 kA
breaking capacity operating short-circuit current (lcs)	
at AC	
 at 240 V rated value 	100 kA
 at 400 V rated value 	100 kA
 at 500 V rated value 	42 kA
• at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip unit	163 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	8 A
• at 600 V rated value	8 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.33 hp
— at 230 V rated value	1 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	2 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	5 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 50 A
• at 500 V	gL/gG 40 A
• at 690 V	gL/gG 35 A

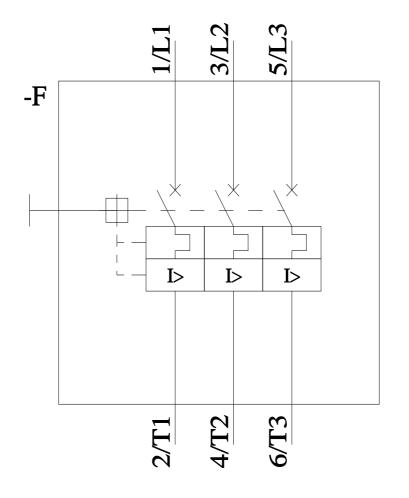
mounting positionanyfastening methodscrew and snap-on mounting onto according to DIN EN 60715height106 mmwidth45 mmdepth97 mmrequired spacing • for grounded parts at 400 V — downwards30 mm- upwards - at the side90 mm• for live parts at 400 V — downwards30 mm- at the side9 mm• for live parts at 400 V — downwards30 mm	35 mm standard mounting rail
height 106 mm width 45 mm depth 97 mm required spacing 97 mm o for grounded parts at 400 V 30 mm — downwards 30 mm — at the side 9 mm o for live parts at 400 V 30 mm — downwards 30 mm — at the side 9 mm • for live parts at 400 V 30 mm	
height106 mmwidth45 mmdepth97 mmrequired spacing97 mm• for grounded parts at 400 V30 mm— downwards30 mm— upwards30 mm— at the side9 mm• for live parts at 400 V30 mm	
depth97 mmrequired spacing97 mm• for grounded parts at 400 V30 mm— downwards30 mm— upwards30 mm— at the side9 mm• for live parts at 400 V30 mm— downwards30 mm	
required spacing • for grounded parts at 400 V - downwards 30 mm - upwards 30 mm - at the side 9 mm • for live parts at 400 V 30 mm	
required spacing • for grounded parts at 400 V — downwards 30 mm — upwards 30 mm — at the side 9 mm • for live parts at 400 V 30 mm	
for grounded parts at 400 V downwards upwards at the side for live parts at 400 V downwards 30 mm 30 mm 30 mm 30 mm	
- downwards 30 mm - upwards 30 mm - at the side 9 mm • for live parts at 400 V 30 mm - downwards 30 mm	
 at the side for live parts at 400 V downwards 30 mm 	
for live parts at 400 V — downwards 30 mm	
- downwards 30 mm	
— upwards 30 mm	
· F · · · ·	
- 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 spring-loaded terminals	
arrangement of electrical connectors for main current Top and bottom	
type of connectable conductor cross-sections	
for main contacts	
- finely stranded with core end processing $2x (0.5 \dots 2.5 \text{ mm}^2)$	
 finely stranded without core end processing 2x (0.5 2.5 mm²) 	
at AWG cables for main contacts 2x (20 12)	
design of screwdriver shaft Diameter 3 mm	
size of the screwdriver tip 3,0 x 0,5 mm	
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 10 y IEC 61508	
protection class IP on the front according to IEC IP20 60529	
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from	n the front



Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1HA20/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-1HA20&objecttype=14&gridview=view1



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