# SIEMENS

#### Data sheet

### 3RV2011-1FA20



Circuit breaker size S00 for motor protection, CLASS 10 A-release 3.5...5 A N release 65 A Spring-type terminal Standard switching capacity

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	
<ul> <li>at AC in hot operating state</li> </ul>	7.25 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.4 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)	
<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)	10/01/2009
SVHC substance name	Lead - 7439-92-1
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
<ul> <li>during transport</li> </ul>	-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	3.5 5 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

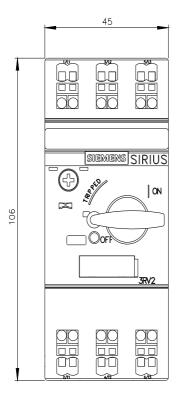
operational current         set AC-38 at 400 V rates value         5 A           operating prover         set AC-38 at 400 V rates value         5 A           - at 230 V rates value         1.1 kW         -           - at 300 V rates value         1.5 kW         -           - at 300 V rates value         2.2 kW         -           - at 830 V rates value         1.1 kW         -           - at 830 V rates value         2.2 kW         -           - at 830 V rates value         2.2 kW         -           - at 830 V rates value         2.2 kW         -           - at 830 V rates value         2.2 kW         -           - at 830 V rates value         2.2 kW         -           - at 830 V rates value         2.2 kW         -           - at 830 V rates value         2.2 kW         -           - at 830 V rates value         2.2 kW         -           - at 830 V rates value         2.2 kW         -           - at 830 V rates value         3.1 h         -           Avaitary accruit         3.1 h         -           - at 830 V rates value         0.0         -           Provide functions         -         -           - at 840 V rates value         6.KA         -		
• A A C-3 at 400 Vinited value5 A• at A C-3 at 400 Vinited value5 A• at A C-3 at 400 Vinited value5 A• at AC-31 N NA- at 320 Vinited value1 N NA- at 320 Vinited value2 X NA- at 320 Vinited value1 N NA- at 320 Vinited value2 X NA- at 320 Vinited value2 X NA- at 320 Vinited value2 X NA- at 320 Vinited value1 N NA- at 320 Vinited value2 X NA- at 320 Vinited value1 S I/N- at 320 Vinited value1 S I/N- at 320 Vinited value0- at 320 Vinited value0 N- at 320 Vinited value0 N<	operational current rated value	5 A
• at AC3 at 400 Y rated value6 Aoperating power-• at AC3 at 200 V rated value1.5 kW- at 600 V rated value2.2 kW- at 600 V rated value4 kW• at AC30 at 200 V rated value4 kW• at AC30 V rated value2.2 kW- at 800 V rated value0- at AC3 at 800 V rated value0- at AC3 at 800 V rated value0- at AC3 at 800 V rated value0- at AC4 at 800 V rated value00 kA- at 800 V rated value00 kA <td>-</td> <td></td>	-	
operating power• at AGO311 kW- at GO3 V rated value1.5 kW- at GO3 V rated value2.2 kW- at GO3 V rated value2.2 kW- at GO3 V rated value2.2 kW- at GO3 V rated value4 kW- at GO3 V rated value1.5 kW- at GO3 V rated value2.2 kW- at GO3 V rated value2.5 kW- at GO3 V rated value2.5 kW- at GO3 V rated value1.5 hH• at AC-3 maximum1.5 hH- at GO3 V rated value0- at GO3 V rated value1.0 kA- at GO3 V rated value1.00 kA- at GO3 V rated value1.00 kA- at AC at GO4 V rated value1.00 kA- at AC at GO4 V rated value0.0 kA- at GO3 V rated valu	• at AC-3 at 400 V rated value	5 A
• al X0:3• with X0:3- al X0:0 Yrabd value1.5 kW- al X0:0 Yrabd value2.2 kW- al X0:0 Yrabd value1.1 kW- al X0:0 Yrabd value1.5 kW- al X0:0 Yrabd value2.2 kW- al X0:0 Yrabd value2.5 kW- al X0:0 Yrabd value0operating frequency15 1/h- al X0:0 Yrabd value0- al X0:0 Yrabd value0number of NC contacts for auxiliary contacts0number of NC contacts for auxiliary contacts0Product functionYes- ergound fluit celectionYes- ergound fluit celectionYes- ergound fluit celectionYes- ergound value celection100 kA- ergound value celection6 kAContract of restard septomence [bp]100 kA- ergound value celection5 A- ergound value celect	• at AC-3e at 400 V rated value	5 A
	operating power	
	• at AC-3	
- at 500 V rated value2.2 kW- at 600 V rated value4 kW- at 230 V rated value1.1 kW- at 230 V rated value1.1 kW- at 500 V rated value2.2 kW- at 500 V rated value2.2 kW- at 500 V rated value2.4 kWoperating frequency4 kW- at 600 V rated value0- at 600 V rated value100 kA- at 600 V rated	— at 230 V rated value	1.1 kW
	— at 400 V rated value	1.5 kW
• alt AC-3e alt 230 V rated value1.1 kW- alt 600 V rated value1.5 kW- alt 600 V rated value2.2 kW- alt 600 V rated value2.2 kW- alt 600 V rated value2.2 kW- alt 600 V rated value15 1/h- alt 600 V rated value15 1/h- alt 600 V rated value0Protect for auxillary contacts0number of No contacts for auxillary contacts0Protect functionVes- eriod fault dielectionNo- eriod fault dielectionVes- eriod fault dielectionNo- eriod fault dielectionNo- eriod fault dielectionNo- eriod fault dielectionVes- eriod fault dielectionNo- eriod Cov rated value100 kA- eriod V rated value100 kA- eriod No rated value100 kA- eriod V rated value100 kA- eriod V rated value100 kA- eriod V rated value5 A- eriod V rated value5 A <td>— at 500 V rated value</td> <td>2.2 kW</td>	— at 500 V rated value	2.2 kW
- al 200 Yindo Value1.1 kW- al 600 Yindo Value1.5 kW- al 600 Yindo Value2.2 kW- al 600 Yindo Value2.4 kW- al 600 Yindo Value15 fuhAlt Ac-3 maximum15 fuhAlt Ac-3 maximum15 fuhAutary clear0Autary clear0number Of NC contacts for auxiliary contacts0number Of Acontacts for auxiliary contacts0number Of Acontacts for auxiliary contacts0number Of Acontacts for auxiliary contacts0reported functionYes- inford faut detectionVac- optical faut detectionVac- optical faut detectionVac- optical faut detection100 kA- optical faut detection5A- optical faut detection5A <trr>- optical faut detection5A</trr>	— at 690 V rated value	4 kW
- at 800 V rated value         1.5 kW           - at 800 V rated value         2.2 kW           - at 800 V rated value         2.2 kW           - at 800 V rated value         2.2 kW           - at 800 V rated value         15 1/h           - at 800 V rated value         0           - at 800 V rated value         00 kA           - at 800 V rated value         100 kA           - at 800 V rated value         5 A           - at 800 V rated value         5 A           - at 800 V ra	• at AC-3e	
- al 600 V rated value2 2 WV- al 600 V rated value4 KWOperating frequency15 1/h- al AC-3 maximum15 1/hAuxilary circuit0number of NC contacts for auxiliary contacts0number of NC contacts for auxiliary contacts0Product functionVeseffoctive and molecting functionsVesoffoctive and molecting functionsNo- organd faul detectionVeseffoctive and value detectionVes- organd faul detectionVes- offoctive and value detection100 kA- off AC V rated value100 kA- off AC V rated value5 A- off AC V rated value5 A- off AC V rated value5 A- off AC V rated value0.5 FD- off AC V rated value1.5 FD- off AC V rated value1.5	— at 230 V rated value	1.1 kW
− at 800 V rated value     4 kW       operating frequency     15 1/h       • at AC3 maximum     15 1/h       AuCase maximum     15 1/h       number of NC contacts for auxiliary contacts     0       number of NC contacts for auxiliary contacts     0       number of NC contacts for auxiliary contacts     0       optimized for auxiliary contacts     0       routide of Contacts for auxiliary contacts     0       optimized for auxiliary contacts     100 kA       ot at 40 V rated value     100 kA       ot at 40 V rated value     100 kA       ot at 400 V rated value     100 kA       ot at 400 V rated value     100 kA       ot at 400 V rated value     5 A       ot at 600 V rated value     5 A	— at 400 V rated value	1.5 kW
operating frequencyI• at AC-3 maximum15 1/h• at AC-3 maximum15 1/hAuxiliary concut0number of NC contacts for auxiliary contacts0number of NC contacts for auxiliary contacts0Product function0• ground fault detectionVesProduct functionVes• prison fault detectionYesImpain of the overload roleasebermalmaximum short-circuit current breaking capacity (teu)0• at AC at 240 V rated value100 kA• at AC at 250 V rated value100 kA• at AC at 260 V rated value100 kA• at 260 V rated value6 A• at 260 V rated value5 A• at 200 V rated value0.5 Trp• for 3-phase AC motor1 hp- at 200280 V rated value3 hp- at 400 V rated value3 hp- at 400 V rated value3 hp- at 400 V	— at 500 V rated value	2.2 kW
• at AC3 maximum15 1/m• at AC3e maximum15 1/m <b>Auxiliary contacts</b> 0 <b>number of NC contacts for auxiliary contacts</b> 0number of AC contacts for auxiliary contacts0number of CO contacts for auxiliary contacts0Protect twicks and monitoring functions0Product twicks0orgonun fault detectionNo• private fault detectionCLASS 10• private fault detection0• at AC at 240 V rated value00 kA• at AC at 240 V rated value100 kA• at AC at 240 V rated value100 kA• at AC at 260 V rated value100 kA• at 260 V rated value5 A•	— at 690 V rated value	4 kW
• at AC-3e maximum16 1/hAuxiliary contacts0number of NC contacts for auxiliary contacts0number of CO contacts for auxiliary contacts0Product function0orgund Ball detectionNo• ground Ball detectionVes• ground Ball detectionVes• at AC at 240 V rated valueCLASS 10• 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 800 V rated value100 kA• at 800 V rated value5 A• at 800 V rated value6 A• at 800 V rat	operating frequency	
Auxiliary circuit         0           number of KC contacts for auxiliary contacts         0           number of KC contacts for auxiliary contacts         0           number of KC contacts for auxiliary contacts         0           product function         0           • ground fault detection         No           • product function         Ves           • trip class         CLASS 10           detaign of the overload release         thermal           maximum short-circuit current breaking capacity (tcu)         • 100 kA           • at Ac at 400 V rated value         100 kA           • at Ac at 500 V rated value         100 kA           • at Ac at 600 V rated value         100 kA           • at Ac at 600 V rated value         100 kA           • at Ac at 600 V rated value         100 kA           • at Ac at 600 V rated value         100 kA           • at AC at 600 V rated value         100 kA           • at AC at 600 V rated value         100 kA           • at AC at 600 V rated value         100 kA           • at 600 V rated value         100 kA           • at 600 V rated value         5 A           • at 600 V rated value         5 A           • at 600 V rated value         5 A           • at 600 V ra	• at AC-3 maximum	15 1/h
number of NC contacts for auxiliary contacts         0           number of NC contacts for auxiliary contacts         0           number of NC contacts for auxiliary contacts         0           product function         0           product function         0           erground fault detection         No           • oppoint functions         Yes           fib class         CLASS 10           design of the overload release         thermal           maximum short-circuit current breaking capacity (icu)         0           • at A cat 240 V rated value         100 kA           • at A cat 500 V rated value         6 kA           opporting short-circuit current breaking capacity (icu)         100 kA           • at A cat 500 V rated value         100 kA           • at A cat 500 V rated value         100 kA           • at 300 V rated value         100 kA           • at 300 V rated value         100 kA           • at 400 V rated value         5 A           • at 800 V rated value	• at AC-3e maximum	15 1/h
number of NC contacts for auxiliary contacts         0           number of NC contacts for auxiliary contacts         0           number of NC contacts for auxiliary contacts         0           product function         0           product function         0           erground fault detection         No           • oppoint functions         Yes           fib class         CLASS 10           design of the overload release         thermal           maximum short-circuit current breaking capacity (icu)         0           • at A cat 240 V rated value         100 kA           • at A cat 500 V rated value         6 kA           opporting short-circuit current breaking capacity (icu)         100 kA           • at A cat 500 V rated value         100 kA           • at A cat 500 V rated value         100 kA           • at 300 V rated value         100 kA           • at 300 V rated value         100 kA           • at 400 V rated value         5 A           • at 800 V rated value	Auxiliary circuit	
number of N0 contacts for auxiliary contacts         0           number of C0 contacts for auxiliary contacts         0           Protective and monitoring functions         0           product function         No           orgund fault detection         Yes           trip class         CLASS 10           design of the overload release         thermal           maximum short-circuit current broaking capacity (lcu)         100 kA           • at AC at 240 V rated value         100 kA           • at AC at 650 V rated value         100 kA           • at AC at 650 V rated value         100 kA           • at AC at 650 V rated value         100 kA           • at AC at 650 V rated value         100 kA           • at 240 V rated value         100 kA           • at 240 V rated value         100 kA           • at 400 V rated value         100 kA           • at 400 V rated value         100 kA           • at 600 V rated value         5 A		0
number of CO contacts for auxiliary contacts         0           Protect/two and monitoring functions            product function         No           • ground fault 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           • at Ac at 240 V rated value         100 kA           • at Ac at 600 V rated value         6 kA           operating short-circuit current breaking capacity (ics) at AC         • at Ac at 600 V rated value           • at AC at 600 V rated value         100 kA           • at 420 V rated value         100 kA           • at 420 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         5 A	-	
Protective and monitoring functions         product function         • ground fault detection         • phase failure detection         Yes         CLASS 10         design of the overload release       thermal         maximum short-circuit current breaking capacity (icu)         • at AC at 400 V rated value       100 kA         • at AC at 400 V rated value       100 kA         • at AC at 400 V rated value       100 kA         • at AC at 500 V rated value       6 kA         Operating short-circuit current breaking capacity (ice) at AC       100 kA         • at AC at 600 V rated value       100 kA         • at AC at 400 V rated value       100 kA         • at 400 V rated value       100 kA         • at 600 V rated value       100 kA         • at 600 V rated value       100 kA         • at 600 V rated value       5 A         UC/SN artings       100 kA         • at 600 V rated value       5 A         • at 600 V rated value       5 A         • at 600 V rated value       5 A         • at 600 V rated value       0.17 hp         • at 100/120 V rated value       0.5 hp         • for single-phase AC motor       -         - at 200/208 V rated value       <		0
product function     No       • ground fault detection     No       • phase failure detection     Yes       trip class     CLASS 10       design of the overload release     thermal       maximum short-circuit current breaking capacity (Icu)     100 kA       • at AC at 240 V rated value     100 kA       • at AC at 500 V rated value     100 kA       • at AC at 500 V rated value     6 kA       • at AC at 500 V rated value     100 kA       • at AC at 680 V rated value     100 kA       • at 400 V rated value     100 kA       • at 600 V rated value     100 kA       • at 600 V rated value     5 A       • at 600 V rated value <td></td> <td></td>		
• ground fault detectionNo• phase failure detectionYes• trip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)• at AC at 40 V rated value• at AC at 400 V rated value100 kA• at AC at 400 V rated value100 kA• at AC at 500 V rated value6 kA• operating short-circuit current breaking capacity (Ics) at AC100 kA• at AC at 500 V rated value100 kA• at AC at 630 V rated value100 kA• at AC at 400 V rated value100 kA• at 240 V rated value100 kA• at 240 V rated value100 kA• at 400 V rated value100 kA• at 400 V rated value100 kA• at 600 V rated value65 A• U/CSA ratings5 A• at 600 V rated value5 A• at 600 V rated value5 A• at 600 V rated value0.17 hp• at 600 V rated value0.5 hp• for single-phase AC motor-• at 200208 V rated value0.5 hp• for single-phase AC motor-• at 200208 V rated value3 hp• at 200208 V rated value3 hp• at 200208 V rated value3 hp• at 4004 V rated value3 hp<		
• phase failure detectionYestrip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)• at AC at 240 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 680 V rated value6 kAoparating short-circuit current breaking capacity (Ics) at AC• at 240 V rated value100 kA• at 400 V rated value100 kA• at 400 V rated value100 kA• at 400 V rated value100 kA• at 600 V rated value100 kA• at 600 V rated value5 A• at 600 V rated value5 A• at 600 V rated value5 A• at 600 V rated value0.5 hp• for single-phase AC motor	•	No
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       • at AC at 400 V rated value     100 kA       • at AC at 500 V rated value     6 kA       operating short-circuit current breaking capacity (Ics) at AC     • 6 kA       operating short-circuit current breaking capacity (Ics) at AC     • 6 kA       operating short-circuit current breaking capacity (Ics) at AC     • 6 kA       operating short-circuit current breaking capacity (Ics) at AC     • 6 kA       • at 240 V rated value     100 kA       • at 400 V rated value     100 kA       • at 600 V rated value     100 kA       • at 600 V rated value     65 A       ULCSA ratings     5 A       full-load current (FLA) for 3-phase AC motor     5 A       • at 600 V rated value     5 A       • at 800 V rated value     5 A       • at 2020208		
design of the overload release     thermal       maximum short-circuit current breaking capacity (Icu) <ul> <li>at AC at 240 V rated value</li> <li>100 kA</li> <li>at AC at 400 V rated value</li> <li>100 kA</li> <li>at AC at 500 V rated value</li> <li>100 kA</li> <li>at AC at 500 V rated value</li> <li>100 kA</li> <li>at AC at 500 V rated value</li> <li>100 kA</li> <li>at AC at 500 V rated value</li> <li>6 kA</li> </ul> <li>operating short-circuit current breaking capacity (Ics) at AC</li> <li>at 400 V rated value</li> <li>100 kA</li> <li>response value current of instantaneous short-circuit trip unit</li> <li>65 A</li> <li>100 kA</li> <li>at 600 V rated value</li> <ul> <li>5 A</li> <li>at 600 V rated value</li> <li>5 A</li> </ul> <li>response value current of instantaneous short-circuit trip unit</li> <li>65 A</li> <li>at 600 V rated value</li> <li>5 A</li> <li>at 600 V rated value</li> <li>5 A</li> <li>response value current (FLA) for 3-phase AC motor         <ul> <li>at 400 V rated value</li> <li>5 A</li> <li>pielded mechanical performance (tp)</li> <li>for 3-phase AC motor</li> <li>at 400 V rated value</li> <li>1 hp</li> <li>at 400 V rated value</li> <li>3 hp</li> <li>at 200/208 V rated value</li> <li>3 hp</li></ul></li>		
maximum short-circuit current breaking capacity (leu)     100 kA       • at AC at 240 V rated value     100 kA       • at AC at 500 V rated value     100 kA       • at AC at 690 V rated value     6 kA       operating short-circuit current breaking capacity (lcs) at AC     • at 240 V rated value       • at 240 V rated value     100 kA       • at 240 V rated value     100 kA       • at 240 V rated value     100 kA       • at 400 V rated value     100 kA       • at 600 V rated value     5 A       • at 200/20 V rated value     0.17 hp       - at 200/20 V rated value     1 hp       - at 200/20 V rated value     1 hp       - at 200/20 V rated value     3 hp       - at 60/48 V rated value     3 hp       - at 60/48 V rated value     3 hp       - at 60/48 V rated value	-	
• at AC at 240 V rated value100 kA• at AC at 400 V rated value100 kA• at AC at 500 V rated value6 kA• at AC at 500 V rated value6 kA• at 240 V rated value100 kA• at 240 V rated value100 kA• at 240 V rated value100 kA• at 600 V rated value65 A• at 600 V rated value5 A• at 600 V rated value0.17 hp- at 220/20 V rated value0.17 hp- at 220/20 V rated value1 hp- at 220/20 V rated value1 hp- at 220/20 V rated value3 hpShort-circuit protectionYesdesign of the short-circuit tripmagneticdesign of the short-circuit tripmagneticdesign of the short-circuit tripgL/gG 32 A• at 600 VgL/gG 32 A	-	und man
e at AC at 400 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 680 V rated value6 kAoperating short-circuit current breaking capacity (Ics) at AC6 kA• at 240 V rated value100 kA• at 400 V rated value100 kA• at 600 V rated value100 kA• at 600 V rated value100 kA• at 600 V rated value4 kAresponse value current of instantaneous short-circuit trip unit65 AUL/CSA ratings5 Afull-load current (FLA) for 3-phase AC motor5 A• at 480 V rated value5 A• at 480 V rated value5 A• at 800 V rated value5 A• at 800 V rated value5 A• at 100 V rated value5 A• at 100 V rated value5 A• at 100 V rated value0.17 hp- at 110/120 V rated value0.17 hp- at 220 V rated value1 hp- at 220 V rated value3 hp• at 600 V rated value1 hp- at 220/230 V rated value1 hp- at 220/230 V rated value3 hpShort-circuit protectionYesdesign of the fuse link for IT network for short-circuit protection of the main circuit e at 400 VgLigG 32 A• at 400 VgLigG 32 A• at 600 VgLigG 32 A <t< td=""><td></td><td>100 kA</td></t<>		100 kA
• at AC at 500 V rated value100 kA• at AC at 690 V rated value6 kAoperating short-circuit current breaking capacity (les) at AC100 kA• at 240 V rated value100 kA• at 400 V rated value100 kA• at 690 V rated value100 kA• at 690 V rated value4 kAresponse value current of instantaneous short-circuit trip unit65 AUL/CSA ratingstill-load current (FLA) for 3-phase AC motor• at 600 V rated value5 A• at 600 V rated value0.17 hp- at 110/120 V rated value0.5 hp• for single-phase AC motor at 200/208 V rated value1 hp- at 200/208 V rated value3 hp- at 4600480 V rated value4 hg		
• at AC at 690 V rated value6 kAoperating short-circuit current breaking capacity (ics) at AC100 kA• at 240 V rated value100 kA• at 400 V rated value100 kA• at 600 V rated value100 kA• at 690 V rated value100 kA• at 690 V rated value4 kAresponse value current of instantaneous short-circuit trip unit65 AUL/CSA ratings5 Afull-load current (FLA) for 3-phase AC motor5 A• at 600 V rated value5 A• at 600 V rated value0.17 hp- at 200 V rated value0.5 hp- at 200/200 V rated value0.5 hp- at 200/200 V rated value1 hp- at 200/200 V rated value3 hp- at 60/400 V rated value3 hp- at 57/600 V rated value3 hp- at 57/600 V rated value3 hp- at 500 V rated value3 hp- at 400 V rated value3 hp- at 60/400 V rated value3 hp- at 60/000 V		
operating short-circuit current breaking capacity (ics) at AC• at 240 V rated value100 kA• at 400 V rated value100 kA• at 500 V rated value100 kA• at 690 V rated value4 kAresponse value current of instantaneous short-circuit trip unit65 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value5 A• at 600 V rated value5 A• at 600 V rated value5 A• at 600 V rated value5 A• of single-phase AC motor0.17 hp- at 110/120 V rated value0.5 hp• for 3-phase AC motor0.17 hp- at 200/208 V rated value1 hp- at 200/208 V rated value1 hp- at 200/208 V rated value1 hp- at 460/480 V rated value3 hp- at 575600 V rated value3 hpShort-circuit protectionYesdesign of the short-circuit tripmagneticdesign of the short-circuit tripmagneticdesign of the fuse link for IT network for short-circuitye/gG 32 A• at 400 VgL/gG 32 A• at 600		
• at 240 V rated value100 kA• at 400 V rated value100 kA• at 600 V rated value100 kA• at 600 V rated value4 kAresponse value current of instantaneous short-circuit trip unit65 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 400 V rated value5 A• at 400 V rated value5 A• at 400 V rated value5 A• at 600 V rated value0.17 hp- at 110/120 V rated value0.5 hp• for single-phase AC motor- at 200/208 V rated value0.5 hp• for 3-phase AC motor- at 200/208 V rated value1 hp- at 200/208 V rated value3 hp- at 200/208 V rated value3 hpShort-circuit protectionYesdesign of the short-circuit tripmagneticdesign of the short-circuit tripmagneticexit 400 VgL/gG 32 A• at 400 VgL/gG 32 A• at 600 VgL/gG 25 A		
• at 400 V rated value100 kA• at 600 V rated value100 kA• at 600 V rated value4 kAresponse value current of instantaneous short-circuit trip unit65 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value5 A• at 480 V rated value5 A• at 600 V rated value0.17 hp- at 110/120 V rated value0.17 hp- at 200 V rated value0.17 hp- at 200/208 V rated value1 hp- at 200/208 V rated value1 hp- at 200/208 V rated value3 hp- at 460/480 V rated value3 hp- at 460/480 V rated value3 hp- at 460/480 V rated value3 hp- at 675/600 V rated value3 hp- at 460/480 V rated value3 hp- at 460 V rated value3 hp- at 400 VgL/gG 32 A• at 400 VgL/gG 32 A• at 400 VgL/gG 32 A• at 600 VgL/gG 32 A		100 kA
• at 500 V rated value100 kA• at 690 V rated value4 kAresponse value current of instantaneous short-circuit trip unit65 AUL/CSA ratingsUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value5 A• at 480 V rated value5 A• at 600 V rated value5 A• at 600 V rated value5 A• for single-phase AC motor at 110/120 V rated value0.17 hp- at 230 V rated value0.17 hp- at 200/208 V rated value1 hp- at 200/208 V rated value3 hp- at 200/208 V rated value3 hp- at 460/480 V rated value3 hp- at 575/600 V rated value3 hp- at 575/600 V rated value9 apoeticdesign of the short-circuit tripmagneticdesign of the short-circuit tripmagneticet 400 VgL/gG 32 A• at 600 VgL/gG 32 A		
• at 690 V rated value4 kAresponse value current of instantaneous short-circuit trip unit65 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value5 A• at 600 V rated value5 Ayielded mechanical performance [hp]-• for single-phase AC motor at 110/120 V rated value0.17 hp- at 230 V rated value0.5 hp• for 3-phase AC motor at 200/208 V rated value1 hp- at 200/208 V rated value3 hpShort-circuit protectionYesdesign of the short-circuit tripmagneticdesign of the short-circuit tripmagneticdesign of the slow K for short-circuit protectionYesdesign of the slow K for short-circuit protectiongL/gG 32 A• at 400 VgL/gG 32 A• at 600 VgL/gG 32 A• at 600 VgL/gG 32 A• at 600 VgL/gG 32 A		
response value current of instantaneous short-circuit trip unit 65 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor		
UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value       5 A         • at 600 V rated value       5 A         • at 600 V rated value       5 A         yielded mechanical performance [hp]       •         • for single-phase AC motor       -         - at 110/120 V rated value       0.17 hp         - at 200 V rated value       0.5 hp         • for 3-phase AC motor       -         - at 200/208 V rated value       1 hp         - at 200/208 V rated value       1 hp         - at 200/208 V rated value       3 hp         - at 460/480 V rated value       3 hp         Short-circuit protection       Yes         design of the fuse link for IT network for short-circuit protection       Yes         design of the fuse link for IT network for short-circuit protection       Yes         • at 400 V       gL/gG 32 A         • at 500 V       gL/gG 32 A         • at 600 V       gL/gG 32 A         • at 600 V       gL/gG 32 A		
full-load current (FLA) for 3-phase AC motor       5 A         • at 800 V rated value       5 A         • at 600 V rated value       5 A         yielded mechanical performance [hp]       6 for single-phase AC motor         - at 110/120 V rated value       0.17 hp         - at 230 V rated value       0.5 hp         • for 3-phase AC motor       -         - at 200/208 V rated value       1 hp         - at 200/208 V rated value       1 hp         - at 200/208 V rated value       3 hp         - at 575/600 V rated value       9 L/gG 32 A         esign of the short-circuit protection       Yes         design of the slow I for IT network for short-circuit protection of the main circuit       aguetic         • at 400 V       gL/gG 32 A         • at 500 V       gL/gG 32 A         • at 690 V       gL/gG 25 A <td></td> <td>65 A</td>		65 A
• at 480 V rated value5 A• at 600 V rated value5 Ayielded mechanical performance [hp]5 A• for single-phase AC motor0.17 hp- at 110/120 V rated value0.17 hp- at 230 V rated value0.5 hp• for 3-phase AC motor1 hp- at 200/208 V rated value1 hp- at 220/230 V rated value3 hp- at 220/230 V rated value3 hp- at 57/600 V rated value3 hp- at 57/600 V rated value3 hp- at 600/80 V rated value3 hp- at 610/80 V rated value3 hp- at 620/208 V rated value3 hp- at 450/80 V rated value3 hp- at 600/80 V rated value3 hp- at 600 V rated value9L/9G 32 A• at 400 V9L/9G 32 A• at 690 V9L/9G 25 A		
• at 600 V rated value5 Ayielded mechanical performance [hp]-• for single-phase AC motor at 110/120 V rated value0.17 hp- at 230 V rated value0.5 hp• for 3-phase AC motor at 200/208 V rated value1 hp- at 200/208 V rated value1 hp- at 220/230 V rated value3 hp- at 460/480 V rated value3 hpstort-circuit protectionYesproduct function short circuit protectionYesdesign of the short-circuit tripmagnetic• at 400 VgL/gG 32 A• at 600 VgL/gG 32 A• at 600 VgL/gG 25 A		
yielded mechanical performance [hp]• for single-phase AC motor0.17 hp- at 110/120 V rated value0.5 hp• at 230 V rated value0.5 hp• for 3-phase AC motor1 hp- at 200/208 V rated value1 hp- at 220/230 V rated value1 hp- at 220/230 V rated value3 hp- at 460/480 V rated value3 hp- at 575/600 V rated value3 hpShort-circuit protectionYesgesign of the short-circuit tripmagneticdesign of the fuse link for IT network for short-circuit protection of the main circuitgL/gG 32 A• at 400 VgL/gG 32 A• at 500 VgL/gG 32 A• at 690 VgL/gG 25 A		
<ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>5 hp</li> <li>for 3-phase AC motor</li> <li>at 220/208 V rated value</li> <li>1 hp</li> <li>at 220/230 V rated value</li> <li>1 hp</li> <li>at 220/230 V rated value</li> <li>3 hp</li> <li>at 460/480 V rated value</li> <li>3 hp</li> </ul> Short-circuit protection yroduct function short circuit protection design of the short-circuit trip magnetic design of the fuse link for IT network for short-circuit protection of the main circuit <ul> <li>at 400 V</li> <li>at 400 V</li> <li>at 500 V</li> <li>at 690 V</li> <li>gL/gG 32 A</li> <li>gL/gG 25 A</li> </ul>		5 A
- at 110/120 V rated value0.17 hp- at 230 V rated value0.5 hp• for 3-phase AC motor1 hp- at 200/208 V rated value1 hp- at 220/230 V rated value1 hp- at 460/480 V rated value3 hp- at 575/600 V rated value3 hpShort-circuit protectionproduct function short circuit protectionYesdesign of the short-circuit tripmagnetice at 400 VgL/gG 32 A• at 400 VgL/gG 32 A• at 690 VgL/gG 25 A		
- at 230 V rated value0.5 kp• for 3-phase AC motor1 hp- at 200/208 V rated value1 hp- at 220/230 V rated value3 hp- at 460/480 V rated value3 hp- at 575/600 V rated value3 hpShort-circuit protectionYesproduct function short circuit protectionYesdesign of the short-circuit tripmagneticof the fuse link for IT network for short-circuitgL/gG 32 A• at 400 VgL/gG 25 A		
• for 3-phase AC motorI- at 200/208 V rated value1 hp- at 220/230 V rated value1 hp- at 460/480 V rated value3 hp- at 575/600 V rated value3 hpShort-circuit protectionYesproduct function short circuit protectionYesdesign of the short-circuit tripmagnetice at 400 VgL/gG 32 A• at 500 VgL/gG 32 A• at 690 VgL/gG 25 A	— at 110/120 V rated value	0.17 hp
- at 200/208 V rated value1 hp- at 220/230 V rated value1 hp- at 220/230 V rated value3 hp- at 460/480 V rated value3 hp- at 575/600 V rated value3 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 32 A• at 400 VgL/gG 32 A• at 500 VgL/gG 32 A• at 690 VgL/gG 25 A	— at 230 V rated value	0.5 hp
- at 220/230 V rated value1 hp- at 220/230 V rated value3 hp- at 460/480 V rated value3 hp- at 575/600 V rated value3 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 32 A• at 400 VgL/gG 32 A• at 500 VgL/gG 32 A• at 690 VgL/gG 25 A	<ul> <li>for 3-phase AC motor</li> </ul>	
at 460/480 V rated value3 hp at 575/600 V rated value3 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 32 A• at 400 VgL/gG 32 A• at 500 VgL/gG 32 A• at 690 VgL/gG 25 A	— at 200/208 V rated value	1 hp
at 575/600 V rated value3 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 32 A• at 400 VgL/gG 32 A• at 500 VgL/gG 32 A• at 690 VgL/gG 25 A	— at 220/230 V rated value	1 hp
Short-circuit protection       Yes         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       el/gG 32 A         • at 400 V       gL/gG 32 A         • at 500 V       gL/gG 32 A         • at 690 V       gL/gG 25 A	— at 460/480 V rated value	3 hp
product 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 32 A• at 400 VgL/gG 32 A• at 500 VgL/gG 32 A• at 690 VgL/gG 25 A	— at 575/600 V rated value	3 hp
design of the short-circuit tripmagneticdesign of the fuse link for IT network for short-circuit protection of the main circuitgL/gG 32 A• at 400 VgL/gG 32 A• at 500 VgL/gG 32 A• at 690 VgL/gG 25 A	Short-circuit protection	
design of the fuse link for IT network for short-circuit protection of the main circuitgL/gG 32 A• at 400 VgL/gG 32 A• at 500 VgL/gG 32 A• at 690 VgL/gG 25 A	product function short circuit protection	Yes
protection of the main circuit         gL/gG 32 A           • at 400 V         gL/gG 32 A           • at 500 V         gL/gG 32 A           • at 690 V         gL/gG 25 A	design of the short-circuit trip	magnetic
• at 500 V gL/gG 32 A • at 690 V gL/gG 25 A		
• at 500 V gL/gG 32 A • at 690 V gL/gG 25 A	• at 400 V	gL/gG 32 A
• at 690 V gL/gG 25 A		
	Installation/ mounting/ dimensions	

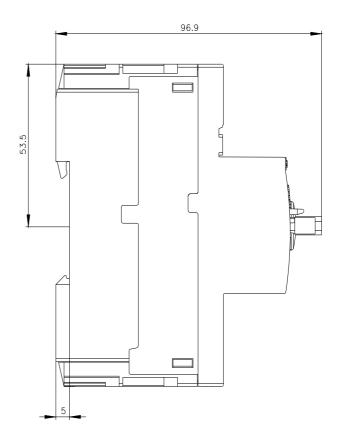
mounting position	any			
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
height	106 mm			
width	45 mm			
depth	97 mm			
required spacing				
with side-by-side mounting at the side	0 mm			
• for grounded parts at 400 V				
— downwards	30 mm			
— upwards	30 mm			
— at the side	9 mm			
• for live parts at 400 V				
— 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				
<ul> <li>Ion hve parts at 500 v</li> <li>— downwards</li> </ul>	30 mm			
— upwards	30 mm			
— at the side	9 mm			
<ul> <li>for grounded parts at 690 V</li> </ul>	5 mm			
— downwards	50 mm			
— upwards	50 mm			
— backwards	0 mm			
— at the side	30 mm			
— forwards	0 mm			
• for live parts at 690 V	U min			
- downwards	50 mm			
— upwards	50 mm			
— backwards	0 mm			
— at the side	30 mm			
— forwards	0 mm			
Connections/ Terminals	· min			
type of electrical connection				
for main current circuit	spring-loaded terminals			
arrangement of electrical connectors for main current	Top and bottom			
circuit				
type of connectable conductor cross-sections				
for main contacts				
— solid or stranded	2x (0,5 4 mm²)			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)			
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)			
<ul> <li>for AWG cables for main contacts</li> </ul>	2x (20 12)			
design of screwdriver shaft	Diameter 3 mm			
size of the screwdriver tip	3,0 x 0,5 mm			
Safety related data				
product function suitable for safety function	Yes			
suitability for use				
<ul> <li>safety-related switching on</li> </ul>	No			
<ul> <li>safety-related switching OFF</li> </ul>	Yes			
service life maximum	10 a			
test wear-related service life necessary	Yes			
proportion of dangerous failures				
• with low demand rate according to SN 31920	40 %			
with high demand rate according to SN 31920	50 %			
B10 value with high demand rate according to SN 31920	5 000			
failure rate [FIT] with low demand rate according to SN	50 FIT			
31920				

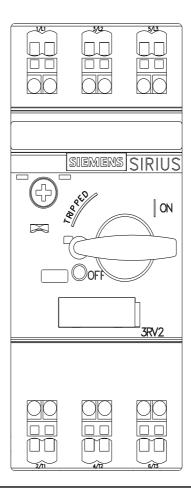
ISO 13849							
device type according			3				
	cording to ISO 13849-2	necessary Yes					
IEC 61508		-	•				
safety device type acc T1 value	e type according to IEC 61508-2 T		Туре А				
<ul> <li>for proof test inte 61508</li> </ul>	<ul> <li>for proof test interval or service life according to IEC 61508</li> </ul>			10 a			
Electrical Safety							
•	the front according to						
-	ne front according to IE	C 60529 finge	r-safe, for vertical contact	from the front			
Display		_		_	_		
display version for swite	ching status	Hand	lle				
Approvals Certificates							
General Product App	roval						
	C C EG-Konf.	UK CA	<u>Confirmation</u>		KC		
General Product Approval	For use in hazardous	s locations	Test Certificates		Marine / Shipping		
EHC	IECEx	K ATEX	Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS		
Marine / Shipping					other		
BUREAU VERITAS		Lloyd's Register urs	PRS	RINA	<u>Miscellaneous</u>		
other		Railway		Environment			
<u>Confirmation</u>	UDE VDE	Special Test Certific- ate	<u>Confirmation</u>	EPD	Siemens EcoTech		
Environment							
Environmental Con- firmations							
Further information							
	ckaging						
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)	talog/product?mlfb=3RV20	011-1FA20				
	n.siemens.com/WW/CA	Xorder/default.aspx?lang=	en&mlfb=3RV2011-1FA20	<u>)</u>			
Service&Support (Mai	nuals, Certificates, Cha	racteristics, FAQs,)		-			

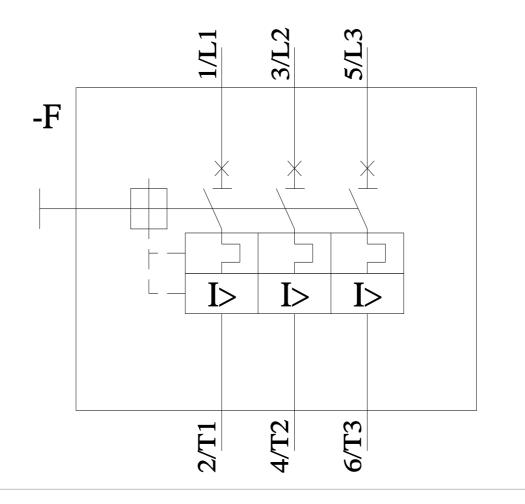
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1FA20 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2011-1FA20&lang=en

#### Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1FA20/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1FA20&objecttype=14&gridview=view1









last modified:

4/12/2024 🖸

## **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

3RV20111FA20