## SIEMENS

## Data sheet

## 3RV2411-0AA20



Circuit breaker size S00 for transformer protection A-release 0.11...0.16 A N-release 3.3 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	
<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
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
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-20 +60 °C
<ul> <li>during storage</li> </ul>	-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	0.11 0.16 A
operating voltage	
<ul> <li>rated value</li> </ul>	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	0.16 A
operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	0.16 A
<ul> <li>at AC-3e at 400 V rated value</li> </ul>	0.16 A
operating power	

<ul> <li>af AC33</li> <li>af AC3</li> <li>af AC34</li> <li>af AC34</li> <li>af AC34 Vrated value</li> <li>Af AC34</li> <li>bit Acceleration</li> <li>af AC34</li> <li>af AC34</li> <li>af AC34</li> <li>af AC34</li> <li>bit Acceleration</li> <li>af AC34</li> <li>af AC34</li> <li>bit Acceleration</li> <li>bit Acceleration</li> <li>contracts for auxiliary contacts</li> <li>contacts for auxiliary contacts<th>-+ + 0 0</th><th></th></li></ul>	-+ + 0 0	
- al 400 V rade Vaue 01 WV - al 600 V rade Vaue 01 WV - al 600 V rade Vaue 01 WV - al 600 V rade Vaue 01 WV - al 220 V rade Vaue 01 WV - al 500 V rade Vaue 01 WV - al 600 V rade Vaue 010 V - al 600 V rade Vaue 0100 V - al 600 V rade Vaue 0100 V - al 600 V rade Vaue 0100 VA - al 600 V rade Vaue 000 VA - al 600 V rade Va - al 600 V rade Vaue 000 VA - al 600 V rade Va - al 600	• at AC-3	
<ul> <li>at AC-39</li> <li></li></ul>		
		0.1 kW
- # 400 V rister value     0 KW       - # 600 V rister value     0.1 KW       - # 620 V rister value     0.1 kW       - # 62 N rister value     0.1 kW       - # 62 N rister value     15 1/h       - # 62 N rister value     0       - # 62 N rister value     00 N A       - # 62 N rister value     100 N A       - # 62 N rister value     100 N A       - # 62 N rister value     100 N A       - # 62 N rister value     100 N A       - # 62 N rister value     100 N A       - # 62 N rister value     100 N A       - # 62 N rister value     100 N A       - # 62 N rister value     100 N A       - # 62 N rister value     100 N A       - # 62 N rister value     100 N A       - # 62 N rister value     0.16 A <td></td> <td></td>		
operating frequency • at AC-3 maximum15 1/h• at AC-3 maximum15 1/h• at AC-3 maximum15 1/hAuxilary circuit0number of NC contacts for auxiliary contacts0number of NC contacts for auxiliary contacts0• regulation and inductionNo• product functionYes• ground hault detectionYes• 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 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 value100 kA• at 600 V rated value0.16 A• at 600		
• at AC-3 maximum       15 th         Auxiliary circuit       0         number of NC contacts for auxiliary contacts       0         number of CC contacts for auxiliary contacts       0         product function       0         • ground fault detection       Yes         • prise filture detection       Yes         • at AC at 200 V rated value       100 kA         • at AC at 200 V rated value       100 kA         • at AC at 200 V rated value       100 kA         • at AC at 200 V rated value       100 kA         • at AC at 200 V rated value       100 kA         • at AC at 200 V rated value       100 kA         • at AC at 200 V rated value       100 kA         • at AC at 200 V rated value       100 kA         • at AC at 200 V rated value       100 kA         • at AC at 200 V rated value       100 kA         • at 200 V rated value       0.16 A         • at 600 V rated value       0.16 A         • at 600 V rated value       0.16 A		0.1 kW
• at AC.3e maximum     15 In       Auxiliary circuit     0       number of NC contacts for auxiliary contacts     0       • opconding for auxiliary contacts     0       • at AC at 40 V rated value     100 VA       • at AC at 500 V rated value     100 VA       • at 600 V rated value     0.16 A       •		
Auxiliary circuit         0           number of NC contacts for auxiliary contacts         0           number of CC contacts for auxiliary contacts         0           Profestive and monitoring functions         0           product function         Yes           option flaut detection         Yes           design of the overload release         100 kA           at AC at 400 V rated value         100 kA           at AC at 200 V rated value         100 kA           at AC at 200 V rated value         100 kA           at AC at 200 V rated value         100 kA           at AC at 200 V rated value         100 kA           at AC at 200 V rated value         100 kA           at AC at 300 V rated value         100 kA           at AC at 400 V rated value         100 kA           at 300 V rated value         100 kA           at 300 V rated value         100 kA           at 800 V rated value         0.16 A           bot-circuit protection         Yes		
number of NC contacts for auxiliary contacts         0           number of NO contacts for auxiliary contacts         0           protective and monitoring functions         0           product function         No           • space failure detection         Yes           • trip class         CLASS 10           design of the overload release         thermal           maximum short-circuit current breaking capacity (lcu)         • at AC at 400 V rated value           • at AC at 400 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 420 V rated value         100 kA           • at 420 V rated value         100 kA           • at 420 V rated value         100 kA           • at 450 V rated value         100 kA           • at 450 V rated value         100 kA           • at 450 V rated value         0.16 A           • at 450 V rated value         0.16 A <t< td=""><td>• at AC-3e maximum</td><td>15 1/h</td></t<>	• at AC-3e maximum	15 1/h
number of NO contacts for auxiliary contacts         0           Protective and monitoring functions         0           Protective and monitoring functions         0           Protective and monitoring functions         0           Product function         No           • ground fault detection         Yes           * fin class         CLASS 10           design of the overload release         thermal           maximum short-circuit current breaking capacity (tcu)	Auxiliary circuit	
number of CO contacts for auxiliary contacts         0           Protectivo and monitoring functions            product function         No           oppage function         Yes           oppage function         Yes           trip class funct detection         Yes           design of the overload release         thermal           maximum short-circuit current breaking capacity (Icu)            • at AC at 400 vited value         100 kA           • at AC at 500 vited value         100 kA           • at AC at 500 vited value         100 kA           • at AC at 500 vited value         100 kA           • at AC at 500 vited value         100 kA           • at AC or tele value         100 kA           • at 400 vited value         100 kA           • at 400 vited value         100 kA           • at 400 vited value         100 kA           • at 500 Vited value         100 kA           • at 500 vited value         100 kA           • at 600 vited value         0.16 A           • f	number of NC contacts for auxiliary contacts	0
Protective and monitoring functions         product function         • ground fault detection         • ground fault detection         Yes         tip class         design of the overload release         maximum short-circuit current breaking capacity (tcu)         • at AC at 240 V rated value         • at AC at 2500 V rated value         • at AC at 500 V rated value         • at AC at 500 V rated value         • at AC at 600 V rated value         • at 240 V rated value         • 100 kA         • at 400 V rated value         • at 500 V rated value         • 100 kA         • at 500 V rated value         • 100 kA         • at 600 V rated value         • 100 kA         • at 600 V rated value         • 100 kA         • at 600 V rated value         • 100 kA         • at 600 V rated value         • 100 kA         • at 600 V rated value         • 100 kA         • at 600 V rated value         0.16 A	number of NO contacts for auxiliary contacts	0
product function     No       • graund fault detection     No       • phase failure 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     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     100 kA     • at AC at 500 V rated value     100 kA       • at AC at 500 V rated value     100 kA     • at 420 V rated value     100 kA       • at 240 V rated value     100 kA     • at 420 V rated value     100 kA       • at 420 V rated value     100 kA     • at 420 V rated value     100 kA       • at 420 V rated value     100 kA     • at 690 V rated value     100 kA       • at 690 V rated value     100 kA     • at 690 V rated value     100 kA       • at 690 V rated value     0.0 kA     • at 690 V rated value     100 kA       • at 690 V rated value     0.16 A     • at 600 V rated value     0.16 A       • at 600 V rated value     0.16 A     • at 600 V rated value     0.16 A       • at 600 V rated value     0.16 A     • at 600 V rated value     0.16 A       • at 600 V rated value     0.16 A     • at 600 V rated value     0.16 A <t< td=""><td>number of CO contacts for auxiliary contacts</td><td>0</td></t<>	number of CO contacts for auxiliary contacts	0
product function     No       • graund fault detection     No       • phase failure 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     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     100 kA     • at AC at 500 V rated value     100 kA       • at AC at 500 V rated value     100 kA     • at 420 V rated value     100 kA       • at 240 V rated value     100 kA     • at 420 V rated value     100 kA       • at 420 V rated value     100 kA     • at 420 V rated value     100 kA       • at 420 V rated value     100 kA     • at 690 V rated value     100 kA       • at 690 V rated value     100 kA     • at 690 V rated value     100 kA       • at 690 V rated value     0.0 kA     • at 690 V rated value     100 kA       • at 690 V rated value     0.16 A     • at 600 V rated value     0.16 A       • at 600 V rated value     0.16 A     • at 600 V rated value     0.16 A       • at 600 V rated value     0.16 A     • at 600 V rated value     0.16 A       • at 600 V rated value     0.16 A     • at 600 V rated value     0.16 A <t< td=""><td>Protective and monitoring functions</td><td></td></t<>	Protective and monitoring functions	
i optase failure detection     No       i optase failure detection     Yes       CLASS 10     CLASS 10       design of the overload release     thermal       maximum short-circuit current breaking capacity (lcu)     at AC at 240 V rated value     100 kA       at AC at 2500 V rated value     100 kA     at AC at 500 V rated value       at AC at 500 V rated value     100 kA       at AC at 500 V rated value     100 kA       at AC at 690 V rated value     100 kA       at AC at 690 V rated value     100 kA       at 2400 V rated value     100 kA       at 400 V rated value     100 kA       at 800 V rated value     100 kA       eat 600 V rated value     0.16 A       at 600 V rated value     0.16 A       brock-circuit protection     Yes       mounting often short-circuit reprotection     Server and snap-on mounting onto 35 mm DIN rail according to DIN EN       forits     60/715     100 kA       fastening method     60/715 <t< td=""><td></td><td></td></t<>		
<ul> <li>hase failure detection</li> <li>yes</li> <li>cLASS 10</li> <li>design of the overload release</li> <li>thermal</li> <li>maximum short-circuit current toraking capacity (lcu)</li> <li>et AC at 400 V rated value</li> <li>100 kA</li> <li>et AC at 500 V rated value</li> <li>100 kA</li> <li>et AC at 500 V rated value</li> <li>100 kA</li> <li>et AC at 500 V rated value</li> <li>100 kA</li> <li>et AC at 500 V rated value</li> <li>100 kA</li> <li>et AC at 500 V rated value</li> <li>100 kA</li> <li>et AC at 500 V rated value</li> <li>100 kA</li> <li>et AC at 400 V rated value</li> <li>100 kA</li> <li>et AC at 400 V rated value</li> <li>100 kA</li> <li>et AC at 400 V rated value</li> <li>100 kA</li> <li>et 300 V rated value</li> <li>0.16 A</li> <li>et 300 V rated value</li> <li>0.16</li></ul>	-	No
trip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (icu)00 kA• at AC at 240 V rated value100 kA• at AC at 500 V rated value100 kA• at 240 V rated value100 kA• at 300 V rated value100 kA• at 400 V rated value100 kA• at 600 V rated value100 kA• at 600 V rated value100 kA• at 480 V rated value100 kA• at 480 V rated value100 kA• at 480 V rated value0.16 A• at 600 V rated value0.16 A• at 480 V rated value0.16 A <td>•</td> <td></td>	•	
design of the overload release         thermal           maximum short-circuit current breaking capacity (tcu)         i           at AC at 400 V rated value         100 kA           at AC at 400 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 240 V rated value         100 kA           at 400 V rated value         100 kA           at 500 V rated value         100 kA           at 500 V rated value         100 kA           at 600 V rated value         100 kA           at 600 V rated value         0.0 kA           at 600 V rated value         0.16 A           state         100 kA           at 600 V rated value         0.16 A           state at 600 V rated value         0.16 A           state at 600 V rated value         0.16 A		
maximum short-circuit current breaking capacity (icu)         int AC at 240 V rated value         100 kA           • at AC at 240 V rated value         100 kA         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 400 V rated value         100 kA           • at 240 V rated value         100 kA           • at 240 V rated value         100 kA           • at 300 V rated value         100 kA           • at 600 V rated value         0.16 A           store V rated value         0.16 A           Short-circuit protection         Yes           mounting position         magnetic           Italiation/ mounting/ dimensions         any           fastening method         67715           • of or grounded parts 400 V         -           - downwards         30 mm           -	•	
<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 650 V rated value</li> <li>100 kA</li> <li>at AC at 650 V rated value</li> <li>100 kA</li> <li>at AC at 650 V rated value</li> <li>100 kA</li> <li>at 240 V rated value</li> <li>100 kA</li> <li>at 240 V rated value</li> <li>100 kA</li> <li>at 240 V rated value</li> <li>100 kA</li> <li>at 500 V rated value</li> <li>100 kA</li> <li>at 690 V rated value</li> <li>0.16 A</li> <li>at 600 V rated value</li> <li>0.16 A</li> <li>bort-circuit protection</li> <li>recw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>height</li> <li>height</li> <li>with side-by-side mounting at the side</li> <li>0 mm</li> <li>orm at 61 at 00 V</li> <li>- downwards</li> <li>30 mm</li> <li>- upwards</li> <li>30 mm</li> <li>- upwards</li> <li>30 mm</li> <li>- upwards</li> <li>30 mm</li> <li>- at the side</li> <li>9 mm</li> <li>for grounded parts at 500 V</li> <li>- downwards</li> <li>30 mm</li> <li>- upwards</li> <li>30 mm</li> <li>- downwards</li> <li>30 mm</li> </ul>	-	
• 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           operating short-circuit current breaking capacity (Ics) at AC         100 kA           • at 240 V rated value         100 kA           • at 200 V rated value         100 kA           • at 600 V rated value         00 kA           • at 600 V rated value         00 kA           • at 600 V rated value         0.16 A           • at 600 V rated value         0.16 A <td></td> <td>100 kA</td>		100 kA
• at AC at 500 V rated value       100 kA         • at AC at 600 V rated value       100 kA         • 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       0.0 kA         • at 600 V rated value       0.0 kA         • at 600 V rated value       0.16 A         • bort-circuit protection       Yes         mounting position       any         fastening method       screw and snap-on mounting onto 35 mm DIN rail according to DIN EN         for for grounded parts at 400 V       0 mm         • for grounded parts at 400 V       0 mm         • for grounded parts at 400 V       0 mm		
• at AC at 690 V rated value       100 kA         operating short-circuit current breaking capacity (Ics) at AC       • at 240 V rated value         • at 240 V rated value       100 kA         • at 200 V rated value       100 kA         • at 600 V rated value       0.0 kA         • at 600 V rated value       0.16 A <b>IU/CSA ratings</b> 0.16 A <b>Short-circuit protection</b> Yes         roduct function short circuit protection       Yes         design of the short-circuit trip       magnetic         Installation/ mounting/ dimensions       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       omm         • with side-by-side mounting at the side       0 mm         • for grounded parts at 400 V       30 mm         • at he side       9 mm         • for grounded parts at 400 V       30 mm         • at he side		
operating short-circuit current breaking capacity (ics) at AC100 kA• at 240 V rated value100 kA• at 400 V rated value100 kA• at 500 V rated value100 kA• at 600 V rated value100 kAresponse value current of instantaneous short-circuit trip3.3 AUL/CSA ratingsJuli-load current (FLA) for 3-phase AC motor• at 480 V rated value0.16 A• at 480 V rated value0.16 A• at 480 V rated value0.16 AShort-circuit protectionYesproduct function short circuit protectionYesmounting positionanyfasteling methodanydesign of the short-circuit tripmagneticInstallation/ mounting/ dimensionsanymounting positionanyfeeding function short circuit protectionYesdesign of the short-circuit tripmagneticInstallation/ mounting dimensionsanymounting positionanyfeeding functionanyfeeding functionanyfeeding functionanyof grounded parts at 400 Vorm- downwards30 mm- upwards30 mm- upwards30 mm- upwards30 mm- at the side9 mm- for grounded parts at 400 V downwards30 mm- at the side9 mm- ordownwards30 mm- at the side9 mm- at the side9 mm- at the side<		
at AC     100 kA       • 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       • at 690 V rated value     100 kA       • at 690 V rated value     100 kA       unit     3.3 A       UL/CSA ratings     0.16 A       full-load current (FLA) for 3-phase AC motor     •       • at 480 V rated value     0.16 A       • at 600 V rated value     0.16 A       Short-circuit protection     Yes       gesign of the short-circuit trip     magnetic       Installation/ mounting/ dimensions     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     0 mm       • with side-by-side mounting at the side     0 mm       • for grounded parts at 400 V     0 mm       - downwards     30 mm       - at the side     9 mm       • for line parts at 400 V     30 mm       - at the side     9 mm    <		
• at 400 V rated value100 kA• at 500 V rated value100 kA• at 690 V rated value100 kA• at 690 V rated value100 kAresponse value current of instantaneous short-circuit trip unt3.3 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value0.16 A• at 480 V rated value0.16 A• at 600 V rated value0.16 AShort-circuit protectionYesgesign of the short-circuit tripmagneticInstallation/ mounting/ dimensionsanymounting positionanyfastening method60715height106 mmwidth45 mmdepth97 mmrequired spacing• with side-by-side mounting at the side0 mm• domwards30 mm- at the side9 mm• downwards30 mm- at the side9 mm• downwards30 mm- at the side9 mm• for grounded parts at 400 V downwards30 mm- at the side9 mm• for grounded parts at 400 V downwards30 mm- at the side9 mm• for grounded parts at 400 V downwards30 mm- at the side9 mm• for grounded parts at 500 V downwards30 mm- at the side9 mm• for grounded parts at 500 V downwards30 mm <td></td> <td></td>		
• at 400 V rated value100 kA• at 500 V rated value100 kA• at 690 V rated value100 kA• at 690 V rated value100 kAresponse value current of instantaneous short-circuit trip unt3.3 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value0.16 A• at 480 V rated value0.16 A• at 600 V rated value0.16 AShort-circuit protectionYesgesign of the short-circuit tripmagneticInstallation/ mounting/ dimensionsanymounting positionanyfastening method60715height106 mmwidth45 mmdepth97 mmrequired spacing• with side-by-side mounting at the side0 mm• domwards30 mm- at the side9 mm• downwards30 mm- at the side9 mm• downwards30 mm- at the side9 mm• for grounded parts at 400 V downwards30 mm- at the side9 mm• for grounded parts at 400 V downwards30 mm- at the side9 mm• for grounded parts at 400 V downwards30 mm- at the side9 mm• for grounded parts at 500 V downwards30 mm- at the side9 mm• for grounded parts at 500 V downwards30 mm <td></td> <td>100 kA</td>		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     3.3 A       UL/CSA ratings     0.16 A       • at 400 V rated value     0.16 A       • at 400 V rated value     0.16 A       • at 600 V rated value     0.16 A       Short-circuit protection     Yes       product function short circuit protection     Yes       mounting position     any       fastening method     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       - upwards     30 mm       - downwards     30 mm       - downwards <td></td> <td></td>		
• at 690 V rated value       100 kA         response value current of instantaneous short-circuit trip       3.3 A         U/CSA ratings		
response value current of instantaneous short-circuit trip unit       3.3 A         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>0.16 A</li> </ul> Short-circuit protection         0.16 A           Short-circuit protection         magnetic           Installation/ mounting/ dimensions         magnetic           Mounting position         any           fastening method         any           for a sponge value         0.16 mm           width         45 mm           depth         97 mm           required spacing         0           • with side-by-side mounting at the side         0           • or grounded parts at 400 V         0           - downwards         30 mm           - at the side         9 mm           • for live parts at 400 V         -           - downwards         30 mm           - at the side         9 mm           • for grounded parts at 500 V         -           - downwards         30 mm           - at the side         9 mm           • for grounded parts at 500 V         -           - downwards         30 mm		
unit       UL/CSA ratings         full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>0.16 A</li> </ul> <li>stat 600 V rated value</li> <li>0.16 A</li> <li>Short-circuit protection         <ul> <li>product function short circuit protection</li> <li>yes</li> <li>design of the short-circuit trip</li> <li>magnetic</li> </ul> </li> <li>Installation/ mounting/ dimensions         <ul> <li>mounting position</li> <li>any</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>height</li> <li>06 mm</li> <li>depth</li> <li>97 mm</li> </ul> </li> <li>required spacing         <ul> <li>with side-by-side mounting at the side</li> <li>0 mm</li> <li>for grounded parts at 400 V</li> <li>downwards</li> <li>30 mm</li> <li>at the side</li> <li>9 mm</li> <li>for live parts at 400 V</li> <li>downwards</li> <li>30 mm</li> <li>at the side</li> <li>9 mm</li> </ul> </li>		
full-load current (FLA) for 3-phase AC motor       0.16 A         • at 480 V rated value       0.16 A         short-circuit protection       Ves         product function short circuit protection       Yes         Installation/ mounting/ dimensions       any         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       0 mm         • for grounded parts at 400 V       0 mm         - downwards       30 mm         - at the side       9 mm         • for live parts at 400 V       -         - downwards       30 mm         - at the side       9 mm         • for grounded parts at 400 V       -         - downwards       30 mm         - at the side       9 mm         • for grounded parts at 500 V       -         - downwards       30 mm		
full-load current (FLA) for 3-phase AC motor       0.16 A         • at 480 V rated value       0.16 A         short-circuit protection       Ves         product function short circuit protection       Yes         Installation/ mounting/ dimensions       any         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       0 mm         • for grounded parts at 400 V       0 mm         - downwards       30 mm         - at the side       9 mm         • for live parts at 400 V       -         - downwards       30 mm         - at the side       9 mm         • for grounded parts at 400 V       -         - downwards       30 mm         - at the side       9 mm         • for grounded parts at 500 V       -         - downwards       30 mm	UL/CSA ratings	
• at 480 V rated value0.16 A• at 600 V rated value0.16 AShort-circuit protectionYesproduct function short circuit protectionYesdesign of the short-circuit tripmagneticInstallation/ mounting/ dimensionsanymounting positionanyfastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN60715heightheight106 mmwidth45 mmdepth97 mmrequired spacing• with side-by-side mounting at the side0 mm• for grounded parts at 400 V30 mm- at the side9 mm• for live parts at 400 V30 mm- at the side9 mm• for live parts at 400 V downwards30 mm- at the side9 mm• for grounded parts at 500 V downwards30 mm- at the side9 mm		
• at 600 V rated value0.16 AShort-circuit protection design of the short-circuit tripproduct function short circuit protection design of the short-circuit tripYes magneticInstallation/ mounting/ dimensionsany screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715height width106 mmwidth depth97 mmrequired spacingo• with side-by-side mounting at the side0 mm• for grounded parts at 400 V30 mm- at the side9 mm• for live parts at 400 V at the side9 mm• for grounded parts at 400 V at the side9 mm• for grounded parts at 500 V at the side9 mm• for grounded parts at 500 V adownwards30 mm- at the side9 mm		0.16 A
Short-circuit protection     Yes       product function short circuit protection     Yes       design of the short-circuit trip     magnetic       Installation/ mounting/ dimensions     any       mounting position     any       fastening method     screw and snap-on mounting onto 35 mm DIN rail according to DIN EN       height     106 mm       width     45 mm       depth     97 mm       required spacing     0 mm       • with side-by-side mounting at the side     0 mm       • for grounded parts at 400 V     -       - downwards     30 mm       - at the side     9 mm       • for live parts at 400 V     -       - at the side     9 mm       • for grounded parts at 500 V     -       - adwnwards     30 mm		
product function short circuit protection design of the short-circuit trip         Yes magnetic           Installation/ mounting/ dimensions         any 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         0 mm           • with side-by-side mounting at the side         0 mm           • for grounded parts at 400 V         30 mm           - upwards         30 mm           - at the side         9 mm           • for grounded parts at 400 V         and mm           - at the side         9 mm           • for grounded parts at 400 V         and mm           - at the side         9 mm           • for grounded parts at 400 V         30 mm           - at the side         9 mm           • for grounded parts at 400 V         30 mm           - at the side         9 mm           • for grounded parts at 500 V         30 mm           - at the side         9 mm           • for grounded parts at 500 V         30 mm		
design of the short-circuit tripmagneticInstallation/ mounting/ dimensionsanymounting position fastening methodany screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715height width106 mmwidth depth45 mmrequired spacing0 mm• with side-by-side mounting at the side0 mm• for grounded parts at 400 V30 mm- downwards30 mm- at the side9 mm• for live parts at 400 V30 mm- at the side9 mm• for grounded parts at 500 V30 mm- at the side9 mm		Vac
Installation/ mounting/ dimensions       any         mounting position       any         fastening method       screw and snap-on mounting onto 35 mm DIN rail according to DIN EN         60715       height         width       45 mm         depth       97 mm         required spacing       0 mm         • with side-by-side mounting at the side       0 mm         • for grounded parts at 400 V       30 mm         - downwards       30 mm         - at the side       9 mm         • for live parts at 400 V       -         - downwards       30 mm         - at the side       9 mm         • for live parts at 400 V       -         - downwards       30 mm         - at the side       9 mm         • for live parts at 400 V       -         - downwards       30 mm         - upwards       30 mm         - upwards       30 mm         - upwards       30 mm         - at the side       9 mm         • for grounded parts at 500 V       -         - downwards       30 mm		
mounting positionany screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715height106 mmwidth45 mmdepth97 mmrequired spacing0 mm• with side-by-side mounting at the side0 mm• for grounded parts at 400 V30 mm— adversarial30 mm— at the side9 mm• for live parts at 400 V30 mm— at the side9 mm• for live parts at 400 V30 mm— at the side9 mm• for live parts at 400 V30 mm— at the side9 mm• for live parts at 500 V30 mm— at the side9 mm• for grounded parts at 500 V30 mm		magnetic
fastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715height106 mmwidth45 mmdepth97 mmrequired spacing0 mm• with side-by-side mounting at the side0 mm• for grounded parts at 400 V30 mm- downwards30 mm- upwards30 mm- at the side9 mm• for live parts at 400 V at the side9 mm• for live parts at 400 V at the side9 mm• for live parts at 400 V at the side9 mm• for live parts at 400 V at the side9 mm• for live parts at 400 V at the side9 mm- at the side9 mm		
height60715height106 mmwidth45 mmdepth97 mmrequired spacing0 mm• with side-by-side mounting at the side0 mm• for grounded parts at 400 V30 mm- downwards30 mm- upwards30 mm- at the side9 mm• for live parts at 400 V		
height106 mmwidth45 mmdepth97 mmrequired spacing0 mm• with side-by-side mounting at the side0 mm• for grounded parts at 400 V30 mm- downwards30 mm- upwards30 mm- at the side9 mm• for live parts at 400 V100 mm- at the side9 mm- downwards30 mm- downwards30 mm- downwards30 mm- downwards30 mm- at the side9 mm	tastening method	
width45 mmdepth97 mmrequired spacing0 mm• with side-by-side mounting at the side0 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- at the side9 mm• for live parts at 400 V9 mm- at the side9 mm	boight	
depth97 mmrequired spacing97 mm• with side-by-side mounting at the side0 mm• for grounded parts at 400 V0 mm- downwards30 mm- upwards30 mm- at the side9 mm• for live parts at 400 V downwards30 mm- at the side9 mm- for live parts at 400 V at the side30 mm- at the side9 mm	-	
required spacing0 mm• with side-by-side mounting at the side0 mm• for grounded parts at 400 V30 mm- downwards30 mm- upwards30 mm- at the side9 mm• for live parts at 400 V downwards30 mm- at the side9 mm• for live parts at 400 V downwards30 mm- at the side9 mm• for live parts at 400 V downwards30 mm- upwards30 mm- upwards9 mm- at the side9 mm• for grounded parts at 500 V downwards30 mm		
<ul> <li>with side-by-side mounting at the side</li> <li>for grounded parts at 400 V</li> <li>downwards</li> <li>upwards</li> <li>at the side</li> <li>for live parts at 400 V</li> <li>downwards</li> <li>downwards</li> <li>upwards</li> <li>at the side</li> <li>30 mm</li> <li>at the side</li> <li>30 mm</li> <li>for live parts at 400 V</li> <li>at the side</li> <li>mm</li> <li>odwnwards</li> <li>mm</li> <li>at the side</li> <li>mm</li> <li>mm</li> <li>at the side</li> <li>mm</li> <limm< li=""> <li>mm</li>     &lt;</limm<></ul>	-	57 mm
<ul> <li>for grounded parts at 400 V</li> <li>downwards</li> <li>downwards</li> <li>upwards</li> <li>at the side</li> <li>mm</li> <li>for live parts at 400 V</li> <li>downwards</li> <li>downwards</li> <li>upwards</li> <li>at the side</li> <li>mm</li> <li>at the side</li> <li>mm</li> <li>mm</li> <li>at the side</li> <li>mm</li> <li>mm</li></ul>		0 mm
- downwards30 mm- upwards30 mm- at the side9 mm• for live parts at 400 V downwards30 mm- upwards30 mm- at the side9 mm• for grounded parts at 500 V9 mm- downwards30 mm- downwards30 mm- at the side9 mm		U IIIII
upwards30 mm at the side9 mm• for live parts at 400 V downwards30 mm upwards30 mm at the side9 mm• for grounded parts at 500 V downwards30 mm		20 mm
at the side     9 mm       • for live parts at 400 V     30 mm       downwards     30 mm       upwards     30 mm       at the side     9 mm       • for grounded parts at 500 V     30 mm       downwards     30 mm		
• for live parts at 400 V     30 mm       — downwards     30 mm       — upwards     30 mm       — at the side     9 mm       • for grounded parts at 500 V     30 mm       — downwards     30 mm	•	
- downwards     30 mm       - upwards     30 mm       - at the side     9 mm       • for grounded parts at 500 V     30 mm       - downwards     30 mm		9 [1][1]
upwards     30 mm       at the side     9 mm       • for grounded parts at 500 V     30 mm       downwards     30 mm		20
at the side     9 mm       • for grounded parts at 500 V     downwards       30 mm		
for grounded parts at 500 V     downwards 30 mm	•	
- downwards 30 mm		9 mm
— upwards 30 mm		
	— upwards	30 mm

	_		0		
— at the side			9 mm		
<ul> <li>for live parts at</li> </ul>			20		
— downward	15		30 mm 30 mm		
— upwards			9 mm		
— at the side ● for grounded p			911111		
<ul> <li>Ior grounded p</li> <li>downward</li> </ul>			50 mm		
— upwards	12		50 mm		
— upwards — backwards	0		0 mm		
— at the side	-		30 mm		
— at the side — forwards	5		0 mm		
<ul> <li>for live parts at</li> </ul>	600 V		0 mm		
<ul> <li>Ior live parts at — downward</li> </ul>			50 mm		
— upwards	12		50 mm		
— upwards — backwards	6		0 mm		
— at the side			30 mm		
— at the side — forwards	5		0 mm		
		_	0 mm		
Connections/ Termin					
type of electrical co			envine leaded to main t		
<ul> <li>for main current</li> </ul>			spring-loaded terminals		
arrangement of elec circuit	ctrical connectors for r	main current	Top and bottom		
	conductor cross-sect	tions			
• for main contact					
			$2 \times (0.5 - 4 \text{ mm}^2)$		
— solid or st			$2x (0,5 \dots 4 \text{ mm}^2)$		
	nded with core end proc	-	2x (0.5 2.5 mm <sup>2</sup> )		
	nded without core end p s for main contacts	Jocessing	2x (0.5 2.5 mm <sup>2</sup> )		
			2x (20 12) Diameter 3 mm		
design of screwdriv size of the screwdri			3,0 x 0,5 mm		
	vertip	_	5,6 × 0,5 mm		
Safety related data				_	
B10 value		1.04000	5.000		
B10 value • with high dema	and rate according to SN	N 31920	5 000		
B10 value • with high dema proportion of dange	erous failures				
B10 value ● with high dema proportion of dange ● with low demar	erous failures nd rate according to SN	31920	50 %		
B10 value • with high dema proportion of dange • with low demar • with high dema	erous failures	31920			
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT]	erous failures and rate according to SN and rate according to SN	31920 N 31920	50 % 50 %		
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar	erous failures and rate according to SN and rate according to SN and rate according to SN	31920 N 31920 31920	50 % 50 % 50 FIT		
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar T1 value for proof tes	erous failures and rate according to SN and rate according to SN	31920 N 31920 31920	50 % 50 %		
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar T1 value for proof tess IEC 61508	erous failures and rate according to SN and rate according to SN and rate according to SN at interval or service life	31920 31920 31920 according to	50 % 50 % 50 FIT 10 a		
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar T1 value for proof tess IEC 61508	erous failures and rate according to SN and rate according to SN and rate according to SN	31920 31920 31920 according to	50 % 50 % 50 FIT		
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar T1 value for proof tes IEC 61508 protection class IP of 60529	erous failures and rate according to SN and rate according to SN and rate according to SN and rate according to SN st interval or service life on the front according	31920 31920 31920 according to to IEC	50 % 50 % 50 FIT 10 a IP20	ct from the front	
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on	erous failures and rate according to SN and rate according to SN and rate according to SN and rate according to SN at interval or service life on the front according to the front according to	31920 31920 31920 according to to IEC	50 % 50 % 50 FIT 10 a	ct from the front	
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar T1 value for proof tes IEC 61508 protection class IP 6 60529 touch protection on display version for sw	erous failures and rate according to SN and rate according to SN and rate according to SN and rate according to SN st interval or service life on the front according the front according to vitching status	31920 31920 31920 according to to IEC	50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact	ct from the front	
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on	erous failures and rate according to SN and rate according to SN and rate according to SN and rate according to SN st interval or service life on the front according the front according to vitching status	31920 31920 31920 according to to IEC	50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact	ct from the front	Declaration of
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar T1 value for proof tes IEC 61508 protection class IP 6 60529 touch protection on display version for sw	erous failures and rate according to SN and rate according to SN and rate according to SN and rate according to SN st interval or service life on the front according the front according to vitching status	31920 31920 31920 according to to IEC	50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact	ct from the front	Declaration of Conformity
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar T1 value for proof tes IEC 61508 protection class IP 6 60529 touch protection on display version for sw Certificates/ approval	erous failures and rate according to SN and rate according to SN and rate according to SN and rate according to SN st interval or service life on the front according the front according to vitching status	31920 31920 31920 according to to IEC	50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact	ct from the front	Declaration of Conformity
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar T1 value for proof tess IEC 61508 protection class IP of 60529 touch protection on display version for sw Certificates/ approva	erous failures and rate according to SN and rate according to SN and rate according to SN and rate according to SN st interval or service life on the front according the front according to vitching status	31920 31920 31920 according to to IEC	50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contac Handle		
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar T1 value for proof tes IEC 61508 protection class IP 6 60529 touch protection on display version for sw Certificates/ approval	erous failures and rate according to SN and rate according to SN and rate according to SN and rate according to SN st interval or service life on the front according the front according to vitching status	31920 31920 31920 according to to IEC	50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact		
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar T1 value for proof tess IEC 61508 protection class IP of 60529 touch protection on display version for sw Certificates/ approva	erous failures and rate according to SN and rate according to SN and rate according to SN and rate according to SN st interval or service life on the front according the front according to vitching status	31920 31920 31920 according to to IEC	50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contac Handle	ct from the front	Conformity
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar T1 value for proof tess IEC 61508 protection class IP of 60529 touch protection on display version for sw Certificates/ approva	erous failures and rate according to SN and rate according to SN and rate according to SN and rate according to SN st interval or service life on the front according the front according to vitching status	31920 31920 31920 according to to IEC	50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contac Handle		
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar T1 value for proof tess IEC 61508 protection class IP of 60529 touch protection on display version for sw Certificates/ approva	erous failures and rate according to SN and rate according to SN and rate according to SN and rate according to SN st interval or service life on the front according the front according to vitching status	31920 31920 31920 according to to IEC	50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contac Handle		Conformity
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar T1 value for proof tess IEC 61508 protection class IP of 60529 touch protection on display version for sw Certificates/ approva	erous failures and rate according to SN and rate according to SN and rate according to SN and rate according to SN st interval or service life on the front according the front according to vitching status	31920 31920 31920 according to to IEC	50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contac Handle		Conformity
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar T1 value for proof tess IEC 61508 protection class IP of 60529 touch protection on display version for sw Certificates/ approva	and rate according to SN and rate according to SN and rate according to SN and rate according to SN and rate according to SN at interval or service life on the front according to vitching status Is pproval	31920 31920 31920 according to to IEC	50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact Handle KC		Conformity
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on display version for sw Certificates/ approva General Product Approva	erous failures and rate according to SN and rate according to SN and rate according to SN and rate according to SN st interval or service life on the front according the front according to vitching status	31920 31920 31920 according to to IEC	50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contac Handle		Conformity
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on display version for sw Certificates/ approva General Product Ap Confirmation	and rate according to SN and rate according to SN and rate according to SN and rate according to SN and rate according to SN at interval or service life on the front according to vitching status Is pproval	31920 31920 31920 according to to IEC	50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact Handle KC		Conformity
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on display version for sw Certificates/ approval General Product Ap Confirmation Declaration of Conformity	and rate according to SN and rate according to SN and rate according to SN and rate according to SN and rate according to SN at interval or service life on the front according to vitching status Is pproval	31920 31920 31920 according to to IEC	50 % 50 FIT 10 a IP20 finger-safe, for vertical contact Handle KC Marine / Shipping		Conformity
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on display version for sw Certificates/ approval General Product Ap Confirmation Declaration of Conformity	and rate according to SN and rate according to SN and rate according to SN and rate according to SN and rate according to SN at interval or service life on the front according to vitching status Is pproval	31920 31920 according to to IEC DIEC 60529	50 % 50 FIT 10 a IP20 finger-safe, for vertical contact Handle KC Marine / Shipping		Conformity
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on display version for sw Certificates/ approval General Product Ap Confirmation Declaration of Conformity	and rate according to SN and rate according to SN and rate according to SN and rate according to SN and rate according to SN at interval or service life on the front according the front according to vitching status Is pproval Test Certificates Type Test Certific-	31920 31920 31920 according to to IEC D IEC 60529 U	50 % 50 FIT 10 a IP20 finger-safe, for vertical contact Handle KC Marine / Shipping		Conformity CEG-Konf.
B10 value • with high dema proportion of dange • with low demar • with high dema failure rate [FIT] • with low demar T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on display version for sw Certificates/ approva General Product Ap Confirmation	and rate according to SN and rate according to SN and rate according to SN and rate according to SN and rate according to SN at interval or service life on the front according the front according to vitching status Is pproval Test Certificates Type Test Certific-	31920 31920 31920 according to to IEC D IEC 60529 U	50 % 50 FIT 10 a IP20 finger-safe, for vertical contact Handle KC Marine / Shipping		Conformity



## Further information

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2411-0AA20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2411-0AA20

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-0AA20

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

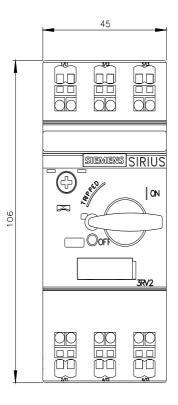
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2411-0AA20&lang=en

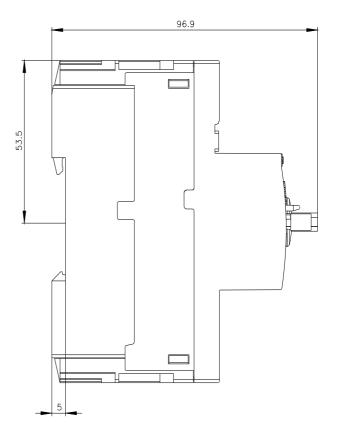
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

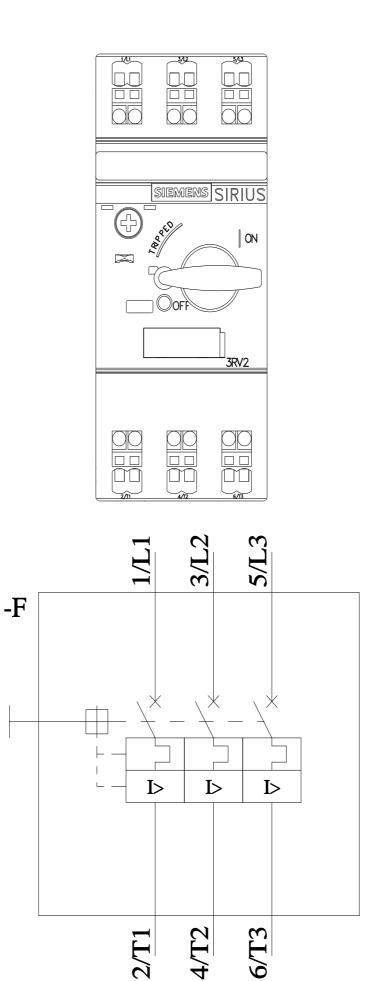
https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-0AA20/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-0AA20&objecttype=14&gridview=view1







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