## SIEMENS

## Data sheet

## 3RV2011-1JA25



Circuit breaker size S00 for motor protection, CLASS 10 A-release 7...10 A N release 130 A Spring-type terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

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>	9.25 W
at AC in hot operating state per pole	3.1 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	25g / 11 ms
mechanical service life (switching cycles)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
<ul> <li>of auxiliary contacts typical</li> </ul>	100 000
electrical endurance (switching cycles) typical	100 000
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-20 +60 °C
<ul> <li>during storage</li> </ul>	-50 +80 °C
during transport	-50 +80 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	7 10 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 rated value	10 A
operational current	
at AC-3 at 400 V rated value	10 A
at AC-3e at 400 V rated value	10 A
operating power	
• at AC-3	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
● at 120 V	0.5 A
• at 125 V	0.5 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
● at 60 V	0.15 A
Protective and monitoring functions	
product function	
<ul> <li>product function</li> <li>ground fault detection</li> </ul>	No
-	No Yes
ground fault detection	
<ul><li>ground fault detection</li><li>phase failure detection</li></ul>	Yes
ground fault detection     phase failure detection     trip class	Yes CLASS 10
ground fault detection     phase failure detection     trip class     design of the overload release	Yes CLASS 10
ground fault detection     phase failure detection     trip class     design of the overload release     breaking capacity maximum short-circuit current (lcu)	Yes CLASS 10 thermal
• ground fault detection     • phase failure detection     trip class     design of the overload release     breaking capacity maximum short-circuit current (Icu)     • at AC at 240 V rated value	Yes CLASS 10 thermal 100 kA
ground fault detection     phase failure detection     trip class     design of the overload release     breaking capacity maximum short-circuit current (Icu)         • at AC at 240 V rated value         • at AC at 400 V rated value	Yes CLASS 10 thermal 100 kA 100 kA
• ground fault detection     • phase failure detection     trip class     design of the overload release     breaking capacity maximum short-circuit current (Icu)         • at AC at 240 V rated value         • at AC at 400 V rated value         • at AC at 500 V rated value         • at AC at 690 V rated value         • at AC at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA
• ground fault detection     • phase failure detection      trip class      design of the overload release      breaking capacity maximum short-circuit current (Icu)         • at AC at 240 V rated value         • at AC at 400 V rated value         • at AC at 500 V rated value         • at AC at 690 V rated value          breaking capacity operating short-circuit current (Ics)         at AC	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA
• ground fault detection     • phase failure detection     trip class     design of the overload release     breaking capacity maximum short-circuit current (Icu)         • at AC at 240 V rated value         • at AC at 400 V rated value         • at AC at 500 V rated value         • at AC at 690 V rated value         • at AC at 690 V rated value         • at AC at 240 V rated value         • at AC at 690 V rated value         • at AC at 690 V rated value         • at AC at 240 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA
ground fault detection     phase failure detection     trip class     design of the overload release     breaking capacity maximum short-circuit current (Icu)         • at AC at 240 V rated value         • at AC at 400 V rated value         • at AC at 500 V rated value         • at AC at 690 V rated value         • at 400 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA
<ul> <li>ground fault detection</li> <li>phase failure detection</li> <li>trip class</li> <li>design of the overload release</li> <li>breaking capacity maximum short-circuit current (Icu) <ul> <li>at AC at 240 V rated value</li> <li>at AC at 400 V rated value</li> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> </ul> </li> <li>breaking capacity operating short-circuit current (Ics) at AC <ul> <li>at 240 V rated value</li> <li>at 400 V rated value</li> </ul> </li> </ul>	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA
<ul> <li>ground fault detection</li> <li>phase failure detection</li> <li>trip class</li> <li>design of the overload release</li> <li>breaking capacity maximum short-circuit current (Icu) <ul> <li>at AC at 240 V rated value</li> <li>at AC at 400 V rated value</li> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> </ul> </li> <li>breaking capacity operating short-circuit current (Ics) at AC <ul> <li>at 240 V rated value</li> <li>at 400 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> </li> </ul>	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA
ground fault detection     phase failure detection     trip class     design of the overload release     breaking capacity maximum short-circuit current (Icu)         • at AC at 240 V rated value         • at AC at 400 V rated value         • at AC at 500 V rated value         • at AC at 690 V rated value         • at AC at 690 V rated value         • at AC at 240 V rated value         • at AC at 690 V rated value         • at AC at 690 V rated value         • at AC at 690 V rated value         • at 600 V rated value         • at 400 V rated value         • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA
ground fault detection     phase failure detection     trip class     design of the overload release     breaking capacity maximum short-circuit current (lcu)         at AC at 240 V rated value         at AC at 400 V rated value         at AC at 500 V rated value         at AC at 690 V rated value         breaking capacity operating short-circuit current (lcs)         at AC         at 240 V rated value         at AC at 690 V rated value         breaking capacity operating short-circuit current (lcs)         at AC         at 240 V rated value         at 400 V rated value         at 690 V rated value         at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA
ground fault detection     phase failure detection     trip class     design of the overload release     breaking capacity maximum short-circuit current (Icu)         • at AC at 240 V rated value         • at AC at 400 V rated value         • at AC at 500 V rated value         • at AC at 690 V rated value         • at AC at 690 V rated value         • at 240 V rated value         • at 240 V rated value         • at AC at 690 V rated value         • at AC at 690 V rated value         • at 400 V rated value         • at 240 V rated value         • at 240 V rated value         • at 690 V rated value         • at 690 V rated value         • at 400 V rated value         • at 690 V rated value         • a	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA
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<ul> <li>ground fault detection</li> <li>phase failure detection</li> <li>trip class</li> <li>design of the overload release</li> <li>breaking capacity maximum short-circuit current (Icu) <ul> <li>at AC at 240 V rated value</li> <li>at AC at 400 V rated value</li> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> </ul> </li> <li>breaking capacity operating short-circuit current (Ics) at AC</li> <li>at 240 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>at 400 V rated value</li> </ul>	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 130 A
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<ul> <li>ground fault detection</li> <li>phase failure detection</li> <li>trip class</li> <li>design of the overload release</li> <li>breaking capacity maximum short-circuit current (Icu) <ul> <li>at AC at 240 V rated value</li> <li>at AC at 400 V rated value</li> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> </ul> </li> <li>breaking capacity operating short-circuit current (Ics) at AC <ul> <li>at 240 V rated value</li> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> </ul> </li> <li>tresponse value current of instantaneous short-circuit trip unit</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> </li> </ul>	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 130 A 10 A
<ul> <li>ground fault detection</li> <li>phase failure detection</li> <li>trip class</li> <li>design of the overload release</li> <li>breaking capacity maximum short-circuit current (Icu) <ul> <li>at AC at 240 V rated value</li> <li>at AC at 400 V rated value</li> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> </ul> </li> <li>breaking capacity operating short-circuit current (Ics) at AC</li> <li>at 400 V rated value</li> <li>at 400 V rated value</li> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>at 400 V rated value</li> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>at 600 V rated value</li> </ul>	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 130 A 10 A 10 A 10 A
<ul> <li>ground fault detection</li> <li>phase failure detection</li> <li>trip class</li> <li>design of the overload release</li> <li>breaking capacity maximum short-circuit current (Icu) <ul> <li>at AC at 240 V rated value</li> <li>at AC at 400 V rated value</li> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> </ul> </li> <li>breaking capacity operating short-circuit current (Ics) at AC <ul> <li>at 240 V rated value</li> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> </ul> </li> <li>tresponse value current of instantaneous short-circuit trip unit</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> </li> </ul>	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 42 kA 4 kA 130 A

- at 202205 V mice Value     2 hp     - at 202205 V mice Value     3 hp     6 hp     - at 460480 V made Value     5 hp     6 not creat value     10 hp     contact rating of auxiliary contacts according to UL     C300 / R300     Contact rating value     10 hp     contact rating of auxiliary contacts according to UL     C300 / R300     Contact value Value     design of the short-circuit trip     magnetic     design of the short-circuit trip     contact value     contact     cont	at 200/200 V rated value	0 km
- at 400480 V field value     5 hp       - at 57500 V field value     10 hp       contact rating of auxiliary contacts according to UL     G300 / R300       Sinor-Circuit protection     Yes       design of the fose link     magnetic       - for ahort-circuit protection of the auxiliary switch required     required       - did dot y     gLigG 30 A gLigG 30 A gLigG 30 A       - et also V     gLigG 30 A gLigG 40 A       - et also V     gLigG 30 A       - et also V     gLigG 30 A       - et also V     gLigG 40 A       - et also V     arrow and snap-on mounting onto 35 mm standard mounting rail       - also V     arrow and snap-on mounting onto 35 mm standard mounting rail       - et also V     arrom	- at 200/208 V rated value	2 hp
contact rating of auxiliary contacts according to UL     C300 / R300       Short-circuit protection     Yes       required     magnetic       design of the short-circuit protection of the auxiliary switch required     Fuse gLyG: 10 A, miniature circuit breaker C 6 A (short-circuit current lik < 400 Å)		
Shet-Circuit protection         Yes           graduct function short circuit trip         magnetic           design of the short circuit trip         magnetic           elsign of the short circuit protection of the auxiliary switch required         First Status           el of short-circuit protection of the auxiliary switch required         First Status           el at 800 V         gL/g3 50 Å gL/g3 60 Å           e at 800 V         gL/g3 60 Å           e at 800 V         gL/g3 60 Å           mounting position         any           frastaliator/ mounting orbits         any           mounting position         any           required spacing         or grounded parts at 400 V           - downwards         30 mm           - upwards         30 mm           - at the side         9 mm           • for lay parts at 400 V         -           - downwards         30 mm           - at the side         9 mm           • for grounded parts at 400 V         -           - downwards         30 mm           - upwards         30 mm           - at the side         9 mm           • for lay parts at 500 V         -           - downwards         30 mm          - upwards         30 mm <td></td> <td></td>		
product function short circuit protection         Yes           design of the short-circuit trip         magnetic           doing of the short-circuit protection of the auxilary switch required         For short-circuit protection of the auxilary switch required short of the main circuit         Fuse gL/gC: 10 A, miniature circuit breaker C 6 A (short-circuit current k < 400 A)		C3007R300
design of the short-circuit profection of the auxiliary switch required         magnetic           design of the short-circuit protection of the auxiliary switch required         Fuse gUgG: 10 A, miniature circuit breaker C 6 A (short-circuit current lik < 400 A)		
design of the fuse link         is of soft-circuit protection of the auxiliary switch required         fuse link for T network for short-circuit protection of the main circuit         gLigG 50 A gLigG 30 A gLigG 30 A gLigG 30 A           • at 400 V         gLigG 30 A gLigG 30 A         gLigG 30 A gLigG 30 A           • at 500 V         gLigG 30 A           • at 600 V         gLigG 30 A           • for lang nethod         acrow and proport mounting role 35 mm standard mounting rall           • for guoted parts at 400 V         0 mm           • of or guoted parts at 400 V         0 mm           • of rule parts at 400 V         0 mm           • of rule parts at 400 V         0 mm           • of rule parts at 500 V         0 mm           • of rule parts at 500 V         0 mm           • of rule parts at 500 V         0 mm           • of rule parts at 500 V         0 mm           • of rule parts at 500 V         0 mm		
for short-circuit protection of the auxiliary switch     required     is a short-circuit     required     is a short-circuit     protection of the main circuit     protection of the main circuit     protection of the main circuit     glugG 50 A     glugG 40     glugG 40 A     glugG 40     glugG 40		magnetic
required         IK < 400 Å)	-	
protection of the main circuit         JUGS 50 A           • at 600 V         gL/gG 50 A           • at 600 V         gL/gG 40 A           • at 600 V         gL/gG 40 A           restallator/ mounting/ dimensions         ary           mounting position         ary           festenling method         accover and snap-on mounting onto 35 mm standard mounting rail           accover and snap-on mounting onto 35 mm standard mounting rail         accover and snap-on mounting onto 35 mm standard mounting rail           is cover and snap-on mounting onto 35 mm standard mounting rail         accover and snap-on mounting onto 35 mm standard mounting rail           is cover and snap-on mounting onto 35 mm standard mounting rail         accover and snap-on mounting onto 35 mm standard mounting rail           is cover and snap-on mounting onto 35 mm standard mounting rail         accover and snap-on mounting onto 35 mm standard mounting rail           is cover and snap-on mounting onto 35 mm standard mounting rail         accover and snap-on mounting onto 35 mm standard mounting rail           is cover and snap-on mounting onto 35 mm standard mounting rail         accover and snap-on mounting onto 35 mm standard mounting rail           is dired         9 mm         of mounting and snap-on mounting onto 35 mm standard mounting rail           is dired         9 mm         of mounting and snap-on mounting onto 35 mm standard mounting rail           - of onnextas	required	
<ul> <li>at 400 V</li> <li>at 500 V</li> <li>gLigG 40 A</li> <li>gLigG 40 A</li> </ul> Installation/ mounting of dimensions         any           festening method         are was map-on mounting onto 35 mm standard mounting reall according to DIN EN 60715           height         106 mm           width         45 mm           depth         97 mm           required spacing         - <ul> <li>for grounded parts at 400 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>of rog wounded parts at 400 V</li> <li>- downwards</li> <li>30 mm</li> <li>- at the side</li> <li>9 mm</li> <li>of rog wounded parts at 500 V</li> <li>- downwards</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>- at the side</li> <li>9 mm</li> <li>for grounded parts at 600 V</li> <li>- downwards</li> <li>30 mm</li> <li>- upwards</li> <li>30 mm</li> <li>- upwards</li> <li>00 mm</li> <li>- for grounded parts at 600 V</li> <li>- downwards</li> <li>00 mm</li> <li>- backwards</li> <li< td=""><td></td><td></td></li<></ul>		
tai 680 V         gL/gG 40 A         Installation/ mounting / dimensions         mounting position         arry         festening method         acrow and snap-on mounting onto 35 mm standard mounting rail         according to DNE N 60715         height         106 mm         vidth         45 mm         depth         or or owned parts at 400 V             - downwards             0 mm         - upwards             0 mm         - upwards             0 mm         - downwards             0 mm         - upwards             0 mm         - downwards             0 mm         - downwards             0 mm         - downwards             0 mm         - upwards             0 mm         - downwards             0 mm         - upwards             0 mm         - downwards             0 mm         - upwards             0 mm         - backwards             0 mm         - upwards             0 mm         - the side             0 mm         - upwards		
Installation/ mounting/ dimensions         any           fastening method         screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715           height         106 mm           width         45 mm           dopth         97 mm           required spacing         97 mm           • for grounded parts at 400 V         -           - downwards         30 mm           - upwards         30 mm           - at the side         9 mm           • for low parts at 400 V         -           - downwards         30 mm           - upwards         30 mm           - at the side         9 mm           • for low parts at 500 V         -           - downwards         30 mm           - upwards         30 mm           - upwards         30 mm           - upwards         30 mm           - at the side         9 mm           • for low parts at 500 V         -           - downwards         30 mm           - upwards         30 mm           - at the side         9 mm           • for low parts at 500 V         -           - downwards         50 mm           - upwards         50 mm		
mounting position         any           fastening method         screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715           height         106 mm           width         45 mm           depth         97 mm           required spacing         6 or grounded parts at 400 V           - downwards         30 mm           - upwards         30 mm           - at the side         9 mm           • for grounded parts at 500 V         -           - downwards         30 mm           - at the side         9 mm           • for live parts at 500 V         -           - downwards         30 mm           - upwards         30 mm           - at the side         9 mm           • for live parts at 690 V         -           - downwards         50 mm           - backwards         0 mm		
fastening method       screw and snap-on mounting onto 35 mm standard mounting raill according to DIN EN 60715         height       106 mm         width       45 mm         depth       97 mm         required spacing       97 mm         • for grounded parts at 400 V       -         - qownwards       30 mm         - upwards       30 mm         - at the side       9 mm         • for log 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         - upwards       30 mm         - upwards       30 mm         - upwards       30 mm         - upwards       30 mm         - downwards       30 mm         - upwards       30 mm         - upwards       30 mm         - downwards       30 mm         - downwards       50 mm         - upwards       0 mm         - backwards       0 mm         - backwards		201/
According to DIN EN 60715           height         106 mm           width         45 mm           depth         97 mm           required spacing         97 mm           - downwards         30 mm           - upwards         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           - at the side         9 mm           - for grounded parts at 500 V         -           - upwards         30 mm           - at the side         9 mm           - for grounded parts at 500 V         -           - upwards         30 mm           - at the side         9 mm           - for grounded parts at 600 V         -           - upwards         50 mm           - upwards         50 mm           - backwards         0 mm           - backwards         0 mm           - backwards         0 mm           - upw		
height         106 mm           width         45 mm           depth         97 mm           required spacing         97 mm           • for grounded parts at 400 V         30 mm           - upwards         30 mm           - upwards         30 mm           - at the side         9 mm           • for live parts at 400 V         -           - downwards         30 mm           - upwards         50 mm           - upwards         50 mm           - upwards         50 mm           - upwards         50 mm           - backwards         0 mm	rastening method	
width     45 mm       depth     97 mm       required spacing     97 mm       - downwards     30 mm       - upwards     30 mm       - at the side     9 mm       • for live parts at 400 V     9 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     9 mm       - downwards     30 mm       - upwards     30 mm       - downwards     30 mm       - downwards     50 mm       - downwards     50 mm       - upwards     50 mm       - upwards     50 mm       - upwards     50 mm       - backwards     0 mm       - forvards     0 mm       - the side     30 mm       - the side     30 mm       - the side     30 mm       - the side	height	
required spacing <ul> <li>for grounded parts at 400 V</li> <li></li></ul>		45 mm
required spacing <ul> <li>for grounded parts at 400 V</li> <li></li></ul>	depth	97 mm
	•	
upwards30 mm at the side9 mm• for live parts at 400 V downwards30 mm upwards30 mm upwards30 mm at the side9 mm• for grounded parts at 500 V downwards30 mm upwards30 mm upwards30 mm upwards30 mm upwards30 mm upwards30 mm downwards30 mm downwards30 mm downwards30 mm upwards30 mm upwards30 mm upwards30 mm upwards30 mm downwards50 mm upwards50 mm upwards50 mm backwards0 mm backwards0 mm downwards50 mm upwards50 mm downwards50 mm upwards0 mm downwards50 mm downwards <td><ul> <li>for grounded parts at 400 V</li> </ul></td> <td></td>	<ul> <li>for grounded parts at 400 V</li> </ul>	
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 upwards30 mm upwards30 mm at the side9 mm• for live parts at 500 V downwards30 mm at the side9 mm• for live parts at 500 V downwards30 mm at the side9 mm• for grounded parts at 600 V downwards50 mm upwards50 mm forwards0 mm forwards50 mm forwards50 mm upwards50 mm downwards50 mm forwards50 mm forwards50 mm backwards0 mm backwards0 mm backwards0 mm backwards0 mm backwards0 mm forwards0 mm forwards0 mm backwards0 mm backwards0 mm forwards0 mm forwards0 mm forwards0 mm forwards0 mm forwards0 mm <trr></trr>	— downwards	30 mm
at the side9 mm• for live parts at 400 V downwards30 mm upwards30 mm at the side9 mm• for groundel parts at 500 V downwards30 mm upwards30 mm upwards30 mm at the side9 mm downwards30 mm at the side9 mm• for live parts at 500 V downwards30 mm at the side9 mm downwards30 mm at the side9 mm downwards30 mm at the side9 mm downwards50 mm at the side9 mm downwards50 mm at the side30 mm backwards50 mm backwards0 mm forwards0 mm forwards50 mm forwards50 mm adownwards50 mm adownwards50 mm adownwards50 mm adownwards50 mm adownwards50 mm adownwards50 mm backwards0 mm adownwards50 mm adownwards50 mm adownwards50 mm adownwards50 mm adownards50 mm adownards50 mm adownards50 mm adownards50 mm backwards0 mm backwards0 mm backwards<	— upwards	30 mm
downwards30 mm upwards30 mm at the side9 mmof or grounded parts at 500 V downwards30 mm upwards30 mm at the side9 mmof or live parts at 500 V downwards30 mm at the side9 mmof or live parts at 500 V downwards30 mm upwards30 mm upwards30 mm upwards9 mm downwards50 mm downwards50 mm downwards50 mm downwards0 mm at the side9 mm forwards0 mm at the side30 mm forwards0 mm forwards0 mm downwards50 mm forwards0 mm forwards50 mm forwards50 mm forwards0 mm forwards for auxiliary and control circuit forwards		9 mm
downwards30 mm upwards30 mm at the side9 mmof or grounded parts at 500 V downwards30 mm upwards30 mm at the side9 mmof or live parts at 500 V downwards30 mm at the side9 mmof or live parts at 500 V downwards30 mm upwards30 mm upwards30 mm upwards9 mm downwards50 mm downwards50 mm downwards50 mm downwards0 mm at the side9 mm forwards0 mm at the side30 mm forwards0 mm forwards0 mm downwards50 mm forwards0 mm forwards50 mm forwards50 mm forwards0 mm forwards for auxiliary and control circuit forwards	<ul> <li>for live parts at 400 V</li> </ul>	
at the side9 mm• for grounded parts at 500 V30 mm downwards30 mm upwards30 mm at the side9 mm• for live parts at 500 V downwards30 mm upwards30 mm upwards30 mm at the side9 mm at the side9 mm at the side9 mm at the side9 mm• for grounded parts at 690 V upwards50 mm upwards50 mm backwards0 mm at the side30 mm at the side30 mm at the side30 mm downwards50 mm downwards50 mm at the side30 mm adownards50 mm adownards50 mm adownards50 mm adownards50 mm adownards0 mm backwards0 mm backwards0 mm forwards0 mm forwards		30 mm
• for grounded parts at 500 V     -       - downwards     30 mm       - upwards     30 mm       - at the side     9 mm       • for live parts at 500 V     -       - downwards     30 mm       - upwards     30 mm       - upwards     30 mm       - upwards     30 mm       - at the side     9 mm       • for grounded parts at 690 V     -       - downwards     50 mm       - upwards     0 mm       - backwards     0 mm       - forwards     0 mm       - forwards     0 mm       - oforwards     50 mm       - upwards     0 mm       - forwards     0 mm       - forwards     0 mm       - at the side     30 mm       - at the side     30 mm       - at the side     30 mm       - forwards     0 mm       - forwards     0 mm       - at the side     30 mm       - forwards     0 mm       - forw	— upwards	30 mm
- downwards     30 mm       - upwards     30 mm       - at the side     9 mm       • for live parts at 500 V     -       - downwards     30 mm       - upwards     30 mm       - upwards     30 mm       - at the side     9 mm       • for grounded parts at 690 V     -       - downwards     50 mm       - upwards     50 mm       - upwards     50 mm       - upwards     0 mm       - backwards     0 mm       - forwards     50 mm       - at the side     30 mm       - forwards     0 mm       - forwards     50 mm       - downwards     50 mm       - at the side     30 mm       - forwards     50 mm       - upwards     50 mm       - downwards     50 mm       - at the side     30 mm       - backwards     0 mm       - backwards     0 mm       - at the side     30 mm       - forwards     0	— at the side	9 mm
- downwards     30 mm       - upwards     30 mm       - at the side     9 mm       • for live parts at 500 V     -       - downwards     30 mm       - upwards     30 mm       - upwards     30 mm       - at the side     9 mm       • for grounded parts at 690 V     -       - downwards     50 mm       - upwards     50 mm       - upwards     50 mm       - upwards     0 mm       - backwards     0 mm       - forwards     50 mm       - at the side     30 mm       - forwards     0 mm       - forwards     50 mm       - downwards     50 mm       - at the side     30 mm       - forwards     50 mm       - upwards     50 mm       - downwards     50 mm       - at the side     30 mm       - backwards     0 mm       - backwards     0 mm       - at the side     30 mm       - forwards     0	<ul> <li>for grounded parts at 500 V</li> </ul>	
- at the side     9 mm       • for live parts at 500 V     30 mm       - downwards     30 mm       - upwards     30 mm       - at the side     9 mm       • for grounded parts at 690 V     9 mm       - downwards     50 mm       - upwards     50 mm       - backwards     0 mm       - forwards     0 mm       - forwards     0 mm       - downwards     50 mm       - backwards     0 mm       - forwards     50 mm       - downwards     50 mm       - forwards     0 mm       - downwards     50 mm       - upwards     50 mm       - downwards     50 mm       - downwards     50 mm       - at the side     30 mm       - backwards     0 mm       - at the side     30 mm       - forwards     0 mm       - forwards		30 mm
• for live parts at 500 V       - downwards       30 mm         - upwards       30 mm         - upwards       30 mm         - at the side       9 mm         • downwards       50 mm         - downwards       50 mm         - upwards       50 mm         - upwards       50 mm         - upwards       50 mm         - backwards       0 mm         - at the side       30 mm         - forwards       0 mm         - forwards       0 mm         - forwards       0 mm         - downwards       50 mm         - upwards       50 mm         - downwards       50 mm         - upwards       50 mm         - downwards       0 mm         - backwards       0 mm         - forwards       0 mm         - forwards       0 mm	— upwards	30 mm
• for live parts at 500 V     - downwards     30 mm       - upwards     30 mm       - upwards     30 mm       - at the side     9 mm       • for grounded parts at 690 V     -       - downwards     50 mm       - upwards     50 mm       - upwards     50 mm       - upwards     50 mm       - backwards     0 mm       - at the side     30 mm       - forwards     0 mm       - forwards     0 mm       - forwards     0 mm       - downwards     50 mm       - upwards     50 mm       - downwards     50 mm       - upwards     50 mm       - upwards     50 mm       - upwards     50 mm       - upwards     50 mm       - backwards     0 mm       - backwards     0 mm       - backwards     0 mm       - forwards     0 mm       - for a	— at the side	9 mm
- downwards30 mm- upwards30 mm- at the side9 mm• for grounded parts at 690 V downwards50 mm- upwards50 mm- backwards0 mm- at the side30 mm- at the side30 mm- for live parts at 690 V forwards0 mm- for live parts at 690 V downwards50 mm- for live parts at 690 V downwards50 mm- backwards0 mm- at the side30 mm- at the side30 mm- at the side30 mm- at the side30 mm- forwards0 mm- forwards0 mm- forwards0 mm- for auxiliary and control circuitspring-loaded terminals• for auxiliary and control circuitspring-loaded terminalstype of connectable conductor cross-sectionsTop and bottom		
- at the side9 mm• for grounded parts at 690 V downwards50 mm- upwards50 mm- backwards0 mm- backwards0 mm- at the side30 mm- forwards0 mm- forwards0 mm- downwards50 mm- downwards50 mm- downwards50 mm- upwards50 mm- upwards50 mm- backwards0 mm- at the side30 mm- browards0 mm- at the side30 mm- forwards0 mmConnections/ Terminals0 mmtype of electrical connectionspring-loaded terminals• for auxiliary and control circuitspring-loaded terminalstype of connectable conductor cross-sectionsTop and bottom		30 mm
• for grounded parts at 690 V50 mm- downwards50 mm- upwards50 mm- backwards0 mm- at the side30 mm- forwards0 mm- for live parts at 690 V downwards50 mm- downwards50 mm- upwards50 mm- upwards50 mm- upwards50 mm- upwards0 mm- backwards0 mm- backwards0 mm- backwards0 mm- backwards0 mm- at the side30 mm- forwards0 mm- forwards- for auxiliary and control circuitspring-loaded terminals- for main contacts- forwards- for main contacts- forwards </td <td>— upwards</td> <td>30 mm</td>	— upwards	30 mm
• for grounded parts at 690 V50 mm- downwards50 mm- upwards50 mm- backwards0 mm- at the side30 mm- forwards0 mm- for live parts at 690 V downwards50 mm- downwards50 mm- upwards50 mm- upwards50 mm- upwards50 mm- upwards0 mm- backwards0 mm- backwards0 mm- backwards0 mm- backwards0 mm- at the side30 mm- forwards0 mm- forwards- for auxiliary and control circuitspring-loaded terminals- for main contacts- forwards- for main contacts- forwards </td <td></td> <td></td>		
downwards50 mm upwards50 mm backwards0 mm at the side30 mm forwards0 mm- forwards0 mm- for live parts at 690 V downwards50 mm upwards50 mm upwards50 mm upwards0 mm backwards0 mm backwards0 mm at the side30 mm at the side30 mm forwards0 mm forwards	<ul> <li>for grounded parts at 690 V</li> </ul>	
- upwards50 mm- backwards0 mm- at the side30 mm- forwards0 mm- forwards0 mm• for live parts at 690 V downwards50 mm- upwards50 mm- backwards0 mm- backwards0 mm- backwards0 mm- forwards0 mm- for auxiliary and control circuitspring-loaded terminals• for auxiliary and control circuitspring-loaded terminals• for auxiliary and control circuitspring-loaded terminals• for main current circuitTop and bottom• for main contacts- Top and bottom		50 mm
- backwards     0 mm       - at the side     30 mm       - forwards     0 mm       • for live parts at 690 V     -       - downwards     50 mm       - upwards     50 mm       - backwards     0 mm       - at the side     30 mm       - forwards     0 mm		
at the side30 mm forwards0 mm• for live parts at 690 V downwards50 mm upwards50 mm upwards0 mm backwards0 mm at the side30 mm forwards0 mm forwards		0 mm
forwards0 mm• for live parts at 690 V50 mm downwards50 mm upwards50 mm backwards0 mm backwards0 mm at the side30 mm forwards0 mm forwards0 mmConnections/Terminals0 mmtype of electrical connectionspring-loaded terminals• for main current circuitspring-loaded terminalsarrangement of electrical connectors for main current circuitTop and bottomtype of connectable conductor cross-sections • for main contactsTop and bottom	— at the side	
<ul> <li>for live parts at 690 V</li> <li>downwards</li> <li>upwards</li> <li>upwards</li> <li>backwards</li> <li>mm</li> <li>backwards</li> <li>omm</li> <li>at the side</li> <li>for wards</li> <li>omm</li> <li>for main current circuit</li> <li>spring-loaded terminals</li> <li>for auxiliary and control circuit</li> <li>spring-loaded terminals</li> <li>for auxiliary and control circuit</li> <li>spring-loaded terminals</li> <li>for and bottom</li> <li>for main current circuit</li> <li>spring-loaded terminals</li> <li>for auxiliary and control circuit</li> <li>spring-loaded terminals</li> <li>for auxiliary and control circuit</li> <li>spring-loaded terminals</li> <li>for main current circuit</li> <li>spring-loaded terminals</li> </ul>		
- downwards50 mm- upwards50 mm- backwards0 mm- at the side30 mm- forwards0 mm- forwards0 mmConnections/ Terminalstype of electrical connection• for main current circuitspring-loaded terminals• for auxiliary and control circuitspring-loaded terminalsarrangement of electrical connectors for main current circuitTop and bottomtype of connectable conductor cross-sections • for main contactsImage: Contact con	<ul> <li>for live parts at 690 V</li> </ul>	
		50 mm
	— upwards	50 mm
— forwards       0 mm         Connections/ Terminals		0 mm
Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         arrangement of electrical connectors for main current         circuit         type of connectable conductor cross-sections         • for main contacts	— at the side	30 mm
type of electrical connection       spring-loaded terminals         • for main current circuit       spring-loaded terminals         • for auxiliary and control circuit       spring-loaded terminals         arrangement of electrical connectors for main current circuit       Top and bottom         type of connectable conductor cross-sections       • for main contacts	— forwards	0 mm
type of electrical connection       spring-loaded terminals         • for main current circuit       spring-loaded terminals         • for auxiliary and control circuit       spring-loaded terminals         arrangement of electrical connectors for main current circuit       Top and bottom         type of connectable conductor cross-sections       • for main contacts	Connections/ Terminals	
• for main current circuit         spring-loaded terminals           • for auxiliary and control circuit         spring-loaded terminals           arrangement of electrical connectors for main current circuit         Top and bottom           type of connectable conductor cross-sections         ofor main contacts		
• for auxiliary and control circuit     spring-loaded terminals       arrangement of electrical connectors for main current circuit     Top and bottom       type of connectable conductor cross-sections     • for main contacts		spring-loaded terminals
arrangement of electrical connectors for main current circuit       Top and bottom         type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>Top and bottom</li> <li>Top and bottom</li></ul>		
for main contacts	arrangement of electrical connectors for main current circuit	
	type of connectable conductor cross-sections	
— solid or stranded 2x (0,5 4 mm <sup>2</sup> )	<ul> <li>for main contacts</li> </ul>	
	— solid or stranded	2x (0,5 4 mm²)

— finely strar	nded with core end proc	cessing	2x (0.5 2.5 mm²)		
- finely stranded without core end processing		2x (0.5 2.5 mm²)			
at AWG cables for main contacts     type of connectable conductor cross-sections		2x (20 12)			
type of connectable	conductor cross-sect	tions			
<ul> <li>for auxiliary cor</li> </ul>	ntacts				
— solid or str	anded		2x (0.5 2.5 mm²)		
— finely stranded with core end processing		2x (0.5 1.5 mm <sup>2</sup> )			
- finely stranded without core end processing		2x (0.5 1.5 mm <sup>2</sup> )			
at AWG cables for auxiliary contacts		2x (20 14)			
design of screwdriver shaft		Diameter 3 mm			
size of the screwdriver tip		3,0 x 0,5 mm			
Safety related data					
B10 value					
with high demand rate according to SN 31920			5 000		
with high demand rate according to SN 31920 proportion of dangerous failures					
	id rate according to SN	31920	50 %		
	nd rate according to SN		50 %		
failure rate [FIT]		101020	00 //		
	d rate according to SN	31920	50 FIT		
	t interval or service life		10 y		
IEC 61508			10 y		
protection class IP o 60529	on the front according	to IEC	IP20		
touch protection on	the front according to	o IEC 60529	finger-safe, for vertical conta	ict from the front	
display version for sw	vitching status		Handle		
Certificates/ approval	s				
General Product Ap	proval				
					כחנ
<b>ESA</b>		ccc	UL		CUL
For use in hazardou	us locations	Declaration of	of Conformity	Test Certificates	CUL
For use in hazardou	us locations	Declaration of EG-Konf.	of Conformity	Test Certificates         Type Test Certificates         ates/Test Report	Ent Special Test Certific- ate
For use in hazardou	IECE×	CE	of Conformity	Type Test Certific-	
KEX ATEX	IECE×	CE	of Conformity	Type Test Certific-	
Marine / Shipping	IECE×	EG-Konf.	Hoyds Register	Type Test Certific-	
Marine / Shipping	IECEX	EG-Konf.	Hoyds Register Lirs	Type Test Certific-	
Marine / Shipping ABS	ICCR	EG-Konf.	Lovds Railway	Type Test Certific- ates/Test Report	
Marine / Shipping Marine / Shipping Marine / Shipping Marine / Shipping	ICCR	EG-Konf.	Railway Vibration and Shock	Type Test Certific- ates/Test Report	

## Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2011-1JA25

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1JA25

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1JA25

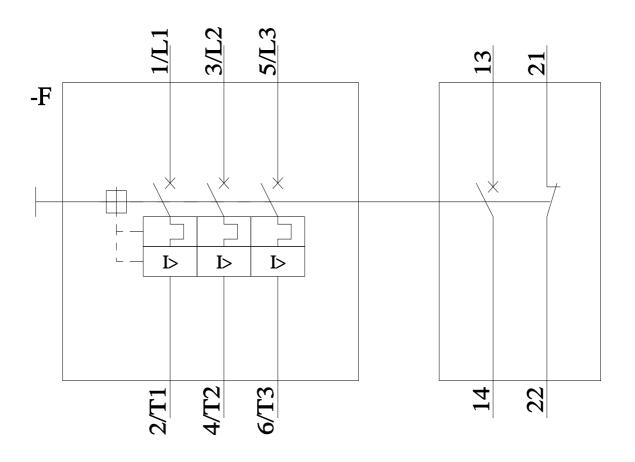
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2011-1JA25&lang=en</u>

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1JA25/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1JA25&objecttype=14&gridview=view1



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6/25/2022 🖸