# **SIEMENS**

Data sheet 3RV1011-1FA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 3.5...5 A N release 65 A 1 NO+1 NC transverse Screw terminal Standard switching capacity

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV1
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	7.25 W
at AC in hot operating state per pole	2.4 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
mechanical service life (switching cycles)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
of auxiliary contacts typical	100 000
electrical endurance (switching cycles) typical	100 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	01/01/2013
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
installation altitude at height above sea level maximum ambient temperature	2 000 m
	2 000 m -20 +60 °C
ambient temperature	
ambient temperature  • during operation	-20 +60 °C
<ul><li>ambient temperature</li><li>during operation</li><li>during storage</li></ul>	-20 +60 °C -50 +80 °C
<ul> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul>	-20 +60 °C -50 +80 °C -50 +80 °C
ambient temperature	-20 +60 °C -50 +80 °C -50 +80 °C
ambient temperature	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 %
ambient temperature  • during operation • during storage • during transport relative humidity during operation  Main circuit number of poles for main current circuit adjustable current response value current of the	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 %
ambient temperature  • during operation • during storage • during transport  relative humidity during operation  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 %
ambient temperature  • during operation • during storage • during transport relative humidity during operation  Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 %
ambient temperature  • during operation • during storage • during transport relative humidity during operation  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 3.5 5 A
ambient temperature  • during operation • during storage • during transport relative humidity during operation  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 3.5 5 A
ambient temperature  • during operation • during storage • during transport relative humidity during operation  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 %  3 3.5 5 A  20 690 V 690 V
ambient temperature  • during operation • during storage • during transport relative humidity during operation  Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 3.5 5 A 20 690 V 690 V 690 V 50 60 Hz
ambient temperature  • during operation • during storage • during transport relative humidity during operation  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release  operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum  operating frequency rated value  operational current rated value	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 3.5 5 A 20 690 V 690 V 690 V 50 60 Hz

operating power	
• at AC-3	
— at 230 V rated value	1.1 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 230 V rated value	1.1 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	4 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
• note	1
number of NO contacts for auxiliary contacts	1
• note	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	·
• at 24 V	2 A
• at 110 V	2 A
• at 120 V	2 A
• at 125 V	2 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	0.5 A
• at 24 V	1 A
• at 24 V	0.15 A
● at 00 v	0.13 A
Donate at the second are suite at a second to a second	
Protective and monitoring functions	
product function	N.
product function • ground fault detection	No
product function  ■ ground fault detection  ■ phase failure detection	Yes
product function	Yes CLASS 10
product function	Yes
product function	Yes CLASS 10 thermal
product function	Yes CLASS 10 thermal
product function	Yes CLASS 10 thermal  100 kA 100 kA
product function	Yes CLASS 10 thermal  100 kA 100 kA 3 kA
product function	Yes CLASS 10 thermal  100 kA 100 kA
product function	Yes CLASS 10 thermal  100 kA 100 kA 3 kA 2 kA
product function	Yes CLASS 10 thermal  100 kA 100 kA 3 kA
product function	Yes CLASS 10 thermal  100 kA 100 kA 3 kA 2 kA
product function	Yes CLASS 10 thermal  100 kA 100 kA 2 kA
product function	Yes CLASS 10 thermal  100 kA 100 kA 2 kA  100 kA
product function	Yes CLASS 10 thermal  100 kA 100 kA 2 kA  100 kA 100 kA 3 kA
product function	Yes CLASS 10 thermal  100 kA 100 kA 2 kA  100 kA 100 kA 2 kA
product function	Yes CLASS 10 thermal  100 kA 100 kA 2 kA  100 kA 100 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal  100 kA 100 kA 2 kA  100 kA 100 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal  100 kA 100 kA 2 kA  100 kA 100 kA 2 kA
product function	Yes CLASS 10 thermal  100 kA 100 kA 2 kA  100 kA 100 kA 5 A
product function	Yes CLASS 10 thermal  100 kA 100 kA 2 kA  100 kA 100 kA 5 A
product function	Yes CLASS 10 thermal  100 kA 100 kA 2 kA  100 kA 100 kA 2 kA  100 kA 5 A 5 A
product function	Yes CLASS 10 thermal  100 kA 100 kA 3 kA 2 kA  100 kA 3 kA 2 kA  5 A 5 A 5 A
product function	Yes CLASS 10 thermal  100 kA 100 kA 2 kA  100 kA 100 kA 2 kA  100 kA 5 A 5 A
product function	Yes CLASS 10 thermal  100 kA 100 kA 3 kA 2 kA  100 kA 100 kA 65 A  5 A 5 A  0.17 hp 0.5 hp
product function	Yes CLASS 10 thermal  100 kA 100 kA 3 kA 2 kA  100 kA 3 kA 2 kA  5 A 5 A

— at 460480 V rated value 3 hp contact rating of auxiliary contacts according to UL C300 / R300 Short-circuit protection product function short circuit trip cases of the state of the stat		
contact rating of auxiliary contacts according to UL  Short-Circuit protection product function short circuit trip design of the short-circuit trip design of the short-circuit trip design of the short-circuit protection of the auxiliary switch required design of the fuse link  • for short-circuit protection of the auxiliary switch required design of the fuse link  • or short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit  • at 240 V  • at 800 V  • a	— at 460/480 V rated value	3 hp
Short-Circuit protection   Peeding of the short-circuit trip   magnetic	— at 575/600 V rated value	3 hp
product function short circuit protection design of the fuse link for characteristic protection of the auxiliary switch for characteristic protection of the auxiliary switch for characteristic protection of the main circuit at 2400 V at 400 V at 400 V at 500 V bit 500 V control of the main circuit at 600 A bit 500 V control of the main circuit at 600 A control of the main circuit at 600 A control of the main circuit co	contact rating of auxiliary contacts according to UL	C300 / R300
design of the fuse link   for short-circuit protection of the auxillary switch   for short-circuit protection of the auxillary switch   for short-circuit protection of the auxillary switch   for short-circuit protection of the main circuit   for short-circuit   fo	Short-circuit protection	
design of the short-circuit protection of the auxillary switch required 400 A)  elseligh of the fuse link for IT network for short-circuit protection of the main circuit establishment of the main circuit establ		Yes
design of the fuse link		magnetic
required   design of the fuse link for IT network for short-circuit protection of the main circuit   al 240 V   al 400		Ţ
protection of the main circuit		
• at 500 V         gL/gG 35 A           netaliation/mounting/ dimensions         any           mounting position         any           fastening method         screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715           height         90 mm           width         45 mm           depth         75 mm           required spacing         75 mm           • for grounded parts at 400 V         20 mm           — upwards         20 mm           — of originate parts at 500 V         9 mm           • for live parts at 500 V         9 mm           • for live parts at 500 V         9 mm           • for live parts at 500 V         9 mm           • for live parts at 500 V         9 mm           • for live parts at 500 V         9 mm           • for live parts at 500 V         9 mm           — downwards         20 mm	• at 240 V	none required
• at 690 V         gU/gG 35 A           Installation/mounting/dimensions         any           mounting position         any           fastering method         screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715           height         90 mm           width         45 mm           depth         75 mm           required spacing         75 mm           • for grounded parts at 400 V         20 mm           — downwards         20 mm           — upwards         20 mm           — at the side         9 mm           • for grounded parts at 500 V         20 mm           — downwards         20 mm           — upwards         20 mm           — at the side         9 mm           • for live parts at 500 V         20 mm           — at the side         9 mm           • for live parts at 500 V         20 mm           — downwards         20 mm           — upwards         20 mm           • for grounded parts at 890 V         20 mm           — backwards         0 mm           — at the side         9 mm           • for live parts at 590 V         20 mm           — downwards         20 mm	● at 400 V	gL/gG 50 A
mounting position fastening method scoording to DIN EN 60715 height second to DIN EN 60715 height second to DIN EN 60715  for grounded parts at 400 V depth - downwards - upwards - of for live parts at 500 V - downwards - of grounded parts at 500 V - downwards - upwards - at the side - of grounded parts at 500 V - downwards - of for grounded parts at 500 V - downwards - of for grounded parts at 500 V - downwards - at the side - of for grounded parts at 500 V - downwards - at the side - of for live parts at 500 V - downwards - at the side - of for live parts at 500 V - downwards - upwards - upwards - of or worded parts at 500 V - downwards - of worded parts at 500 V - downwards - of main contacts - of for grounded parts at 600 V - downwards - of for live parts at 500 V - downwards - of for live parts at 500 V - downwards - of for grounded parts at 600 V - downwards - of for grounded parts at 600 V - downwards - of for grounded parts at 600 V - downwards - of for grounded parts at 600 V - downwards - of for grounded parts at 600 V - downwards - of for grounded parts at 600 V - downwards - upwards - of for grounded parts at 600 V - downwards - of for live parts at 600 V - downwards - of main current circuit - of or wains yard control circuit - of or wains yard control circuit - of or wains yard control circuit - of or main current circuit - of or main contacts - solid or stranded - 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)	● at 500 V	gL/gG 35 A
mounting position fastoning method screw and snap-on mounting onto 35 mm standard mounting rail screw and snap-on mounting onto 35 mm standard mounting rai	● at 690 V	gL/gG 35 A
Fastening method  according to DIN EN 60715  height  width  45 mm  depth  75 mm  required spacing  • for grounded parts at 400 V  — downwards — at the side • for live parts at 500 V  — downwards — upwards — at the side • for grounded parts at 500 V  — downwards — at the side • for grounded parts at 500 V  — downwards — at the side • for grounded parts at 500 V  — downwards — at the side • for grounded parts at 500 V  — downwards — at the side • for grounded parts at 500 V  — downwards — at the side • for five parts at 500 V  — downwards — at the side • for grounded parts at 500 V  — downwards — upwards — 20 mm  — or grounded parts at 690 V  — downwards — 20 mm — or grounded parts at 690 V  — downwards — upwards — 20 mm — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — or	Installation/ mounting/ dimensions	
Fastening method  according to DIN EN 60715  height  width  45 mm  depth  75 mm  required spacing  • for grounded parts at 400 V  — downwards — at the side • for live parts at 500 V  — downwards — upwards — at the side • for grounded parts at 500 V  — downwards — at the side • for grounded parts at 500 V  — downwards — at the side • for grounded parts at 500 V  — downwards — at the side • for grounded parts at 500 V  — downwards — at the side • for grounded parts at 500 V  — downwards — at the side • for five parts at 500 V  — downwards — at the side • for grounded parts at 500 V  — downwards — upwards — 20 mm  — or grounded parts at 690 V  — downwards — 20 mm — or grounded parts at 690 V  — downwards — upwards — 20 mm — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — downwards — or grounded parts at 690 V  — or	mounting position	any
width   depth   75 mm		
width depth 75 mm  required spacing  • for grounded parts at 400 V — downwards 20 mm — at the side 9 mm  • for live parts at 400 V — downwards 20 mm — at the side 9 mm  • for grounded parts at 500 V — downwards 20 mm — upwards 20 mm  • for grounded parts at 500 V — downwards 20 mm — upwards 20 mm  • for live parts at 500 V — downwards 20 mm — at the side 9 mm  • for live parts at 500 V — downwards 20 mm — upwards 20 mm — at the side 9 mm  • for live parts at 500 V — downwards 20 mm — at the side 9 mm  • for live parts at 690 V — downwards 20 mm — at the side 9 mm  • for live parts at 690 V — downwards 20 mm — backwards 0 mm — to river at 690 V — downwards 20 mm — backwards 0 mm  • for live parts at 690 V — downwards 20 mm — backwards 0 mm  • for live parts at 690 V — downwards 0 mm  • for live parts at 690 V — downwards 0 mm  • for live parts at 690 V — downwards 0 mm  • for live parts at 690 V — downwards 0 mm  • for main current circuit 5 crew-type terminals  remained or to remain current lircuit 5 crew-type terminals  remained or to remain current lircuit 5 crew-type terminals  rarrangement of electrical connectors for main current circuit • for auxiliary and control circuit • for main contacts  • solid or stranded 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)	height	90 mm
required spacing  • for grounded parts at 400 V  — downwards — upwards — at the side — upwards — upwards — the side — of or live parts at 500 V — downwards — upwards — at the side — of or grounded parts at 690 V — downwards — upwards — on mm — upwardicincint — for min current circuit — for auxiliary and control circuit — for auxil		45 mm
• for grounded parts at 400 V  — downwards — upwards — at the side • for live parts at 400 V  — downwards — upwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — upwards — upwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for grounded parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — upwards — at the side • for grounded parts at 690 V — downwards — at the side • for grounded parts at 690 V — downwards — opwards — upwards — upwards — opwards — opwards — opwards — opwards — opwards — opma • for live parts at 690 V — downwards • for live parts at 690 V — downwards • opma • for live parts at 690 V — downwards — opma • for live parts at 690 V — downwards — opma • for live parts at 690 V — downwards — opma • for live parts at 690 V — downwards — opma • for man contacts — solid or stranded  • for main current circuit • for auxillary and control circuit arrangement of electrical connections • for main current circuit  * for auxillary and control circuit arrangement of electrical connectors for main current circuit  * for main contacts •	depth	75 mm
• for grounded parts at 400 V  — downwards — upwards — at the side • for live parts at 400 V  — downwards — upwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — upwards — upwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for grounded parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — upwards — at the side • for grounded parts at 690 V — downwards — at the side • for grounded parts at 690 V — downwards — opwards — upwards — upwards — opwards — opwards — opwards — opwards — opwards — opma • for live parts at 690 V — downwards • for live parts at 690 V — downwards • opma • for live parts at 690 V — downwards — opma • for live parts at 690 V — downwards — opma • for live parts at 690 V — downwards — opma • for live parts at 690 V — downwards — opma • for man contacts — solid or stranded  • for main current circuit • for auxillary and control circuit arrangement of electrical connections • for main current circuit  * for auxillary and control circuit arrangement of electrical connectors for main current circuit  * for main contacts •	required spacing	
- downwards		
• at the side 9 mm  • for live parts at 400 V  — downwards 20 mm — upwards 20 mm — at the side 9 mm  • for grounded parts at 500 V  — downwards 20 mm — upwards 20 mm — upwards 20 mm — at the side 9 mm  • for live parts at 500 V  — downwards 20 mm — upwards 20 mm — upwards 20 mm — upwards 20 mm — at the side 9 mm  • for grounded parts at 690 V  — downwards 20 mm — at the side 9 mm  • for grounded parts at 690 V  — downwards 20 mm — backwards 0 mm — at the side 9 mm  • for live parts at 690 V  — downwards 20 mm — at the side 9 mm — at the side 9 mm  • for wards 0 mm  • for live parts at 690 V  — downwards 20 mm  • for wards 0 mm  • for live parts at 690 V  — downwards 0 mm  • for live parts at 690 V  — downwards 0 mm  • for live parts at 690 V  — downwards 0 mm  • for live parts at 690 V  — downwards 20 mm  • parts at 690 V  — downwards 0 mm  • for live parts at 690 V  — downwards 20 mm  • for live parts at 690 V  — downwards 20 mm  • for live parts at 690 V  — downwards 20 mm  • for wards 0 mm  • for main current circuit screw-type terminals  • for auxiliary and control circuit screw-type terminals  • for auxiliary and control circuit screw-type terminals  • for main contacts	— downwards	20 mm
• for live parts at 400 V  - downwards 20 mm  - at the side 9 mm  • for grounded parts at 500 V  - downwards 20 mm  - at the side 9 mm  • for live parts at 500 V  - downwards 20 mm  - at the side 9 mm  • for live parts at 500 V  - downwards 20 mm  - at the side 9 mm  • for grounded parts at 690 V  - downwards 20 mm  - at the side 9 mm  • for grounded parts at 690 V  - downwards 20 mm  - at the side 9 mm  • for grounded parts at 690 V  - downwards 20 mm  - backwards 0 mm  - at the side 9 mm  • for live parts at 690 V  - downwards 20 mm  • for live parts at 690 V  - downwards 0 mm  • for live parts at 690 V  - downwards 0 mm  • for live parts at 690 V  - downwards 0 mm  • for live parts at 690 V  - downwards 0 mm  • for live parts at 690 V  - downwards 20 mm  - backwards 0 mm  • for live parts at 690 V  - downwards 20 mm  - backwards 0 mm  - at the side 9 mm  - connections/ Terminals  type of electrical connection  • for main current circuit screw-type terminals  arrangement of electrical connectors for main current circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for main contacts  - solid or stranded 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)	— upwards	20 mm
downwards	— at the side	9 mm
upwards	<ul> <li>for live parts at 400 V</li> </ul>	
- at the side  • for grounded parts at 500 V  - downwards  - upwards  - at the side  • for live parts at 500 V  - downwards  - upwards  - at the side  • for grounded parts at 500 V  - downwards  - upwards  - at the side  • for grounded parts at 690 V  - downwards  - upwards  - upwards  - backwards  - at the side  • for live parts at 690 V  - downwards  - or live parts at 690 V  - downwards  • for live parts at 690 V  - downwards  • for live parts at 690 V  - downwards  • for live parts at 690 V  - downwards  - upwards  - upwards  - upwards  - upwards  - upwards  - upwards  - backwards  - min current  - for wards  - 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  - solid or stranded  2 x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)	— downwards	20 mm
• for grounded parts at 500 V  — downwards — upwards — at the side 9 mm  • for live parts at 500 V  — downwards — upwards — upwards — upwards — the side 9 mm  • for grounded parts at 690 V — downwards — upwards — upwards — upwards — upwards — backwards — hackwards — at the side 9 mm  • for live parts at 690 V  — downwards — onm — the side — forwards 0 mm  • for live parts at 690 V  — downwards — the side — forwards 0 mm  • for live parts at 690 V  — downwards — onm • for live parts at 690 V  — downwards — upwards — upwards — upwards — onm — onm — onm — onm — onm — onm  Connections/ Terminals  type of electrical connector • for auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections • for main contacts — solid or stranded  2 x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)	— upwards	20 mm
downwards	— at the side	9 mm
- upwards	<ul> <li>for grounded parts at 500 V</li> </ul>	
- at the side 9 mm  • for live parts at 500 V  - downwards 20 mm  - upwards 9 mm  • for grounded parts at 690 V  - downwards 20 mm  - at the side 9 mm  • for grounded parts at 690 V  - downwards 20 mm  - backwards 0 mm  - at the side 9 mm  - forwards 0 mm  • for live parts at 690 V  - downwards 20 mm  • for live parts at 690 V  - downwards 0 mm  • for live parts at 690 V  - downwards 20 mm  - backwards 0 mm  - the side 9 mm  - backwards 0 mm  - backwards 0 mm  - backwards 0 mm  - forwards 20 mm  - backwards 0 mm  - at the side 9 mm  - for or auxiliary and control circuit screw-type terminals  - for auxiliary and control circuit screw-type terminals  - arrangement of electrical connectors for main current circuit  - for main contacts  - solid or stranded 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)	— downwards	20 mm
• for live parts at 500 V  - downwards  - upwards  - at the side  • for grounded parts at 690 V  - downwards  - upwards  - upwards  - upwards  - upwards  - backwards  - at the side  - forwards  0 mm  - forwards  • for live parts at 690 V  - downwards  • for live parts at 690 V  - downwards  - upwards  - upwards  • for live parts at 690 V  - downwards  - upwards  - upwards  - upwards  0 mm  - backwards  - at the side  - forwards  0 mm  - backwards  - at the side  - forwards  0 mm  - forwards  - at the side  - 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  - solid or stranded  20 mm  0 mm  To pand bottom  2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)	— upwards	20 mm
- downwards - upwards - at the side • for grounded parts at 690 V - downwards - upwards - upwards - upwards - backwards - at the side - forwards - at the side - forwards - o mm - forwards • for live parts at 690 V - downwards - upwards - upwards - upwards - upwards - upwards - backwards - upwards - backwards - at the side - forwards - Top and bottom  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 - solid or stranded  2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)	— at the side	9 mm
- upwards - at the side 9 mm  • for grounded parts at 690 V - downwards 20 mm - upwards 20 mm - backwards 0 mm - at the side 9 mm  • for live parts at 690 V - downwards • for live parts at 690 V - downwards 1 upwards 20 mm  • for live parts at 690 V - downwards 20 mm - backwards 0 mm  • for live parts at 690 V - downwards 0 mm - upwards 0 mm - backwards 0 mm - backwards 0 mm - of the side 9 mm - forwards 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 - solid or stranded  20 mm - 70 mm -	<ul> <li>for live parts at 500 V</li> </ul>	
- at the side 9 mm  • for grounded parts at 690 V  - downwards 20 mm  - upwards 20 mm  - backwards 0 mm  - at the side 9 mm  • for live parts at 690 V  - downwards 20 mm  • for live parts at 690 V  - downwards 20 mm  - upwards 20 mm  - upwards 20 mm  - at the side 9 mm  - backwards 0 mm  - at the side 9 mm  - forwards 0 mm  Connections/ Terminals  type of electrical connection  • for main current circuit screw-type terminals  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for main contacts  - solid or stranded 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)	— downwards	20 mm
<ul> <li>for grounded parts at 690 V</li> <li>downwards</li> <li>upwards</li> <li>backwards</li> <li>at the side</li> <li>forwards</li> <li>for live parts at 690 V</li> <li>downwards</li> <li>upwards</li> <li>upwards</li> <li>upwards</li> <li>backwards</li> <li>upwards</li> <li>at the side</li> <li>forwards</li> <li>onm</li> <li>at the side</li> <li>forwards</li> <li>onm</li> <li>forwards</li> <li>onm</li> <li>forwards</li> <li>onm</li> <li>for auxiliary and control circuit</li> <li>arrangement of electrical connectors for main current circuit</li> <li>for auxiliary and control circuit</li> <li>arrangement of electrical connectors for main current circuit</li> <li>for main contacts</li> <li>solid or stranded</li> <li>2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)</li> </ul>	— upwards	20 mm
- downwards 20 mm - upwards 20 mm - backwards 0 mm - at the side 9 mm - forwards 0 mm  • for live parts at 690 V - downwards 20 mm - upwards 20 mm - upwards 20 mm - upwards 9 mm - backwards 0 mm - at the side 9 mm - forwards 0 mm - at the side 9 mm - forwards 0 mm - at the side 9 mm - forwards 0 mm - forwards 5 mm - forwards 5 mm - forwards 5 mm - forwards 7 mm - forwards 5 mm - for auxiliary and control circuit 5 screw-type terminals 5 screw-type terminals 6 screw-type terminals 7 marnagement of electrical connectors for main current circuit 5 screw-type terminals 7 marnagement of electrical connectors for main current circuit 5 screw-type terminals 7 main current circuit 7 main contacts 8 message 1 mm - solid or stranded 2 x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)	— at the side	9 mm
- downwards 20 mm - upwards 20 mm - backwards 0 mm - at the side 9 mm - forwards 0 mm  • for live parts at 690 V - downwards 20 mm - upwards 20 mm - upwards 20 mm - upwards 9 mm - backwards 0 mm - at the side 9 mm - forwards 0 mm - at the side 9 mm - forwards 0 mm - at the side 9 mm - forwards 0 mm - forwards 5 mm - forwards 5 mm - forwards 5 mm - forwards 7 mm - forwards 5 mm - for auxiliary and control circuit 5 screw-type terminals 5 screw-type terminals 6 screw-type terminals 7 marnagement of electrical connectors for main current circuit 5 screw-type terminals 7 marnagement of electrical connectors for main current circuit 5 screw-type terminals 7 main current circuit 7 main contacts 8 message 1 mm - solid or stranded 2 x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)	<ul> <li>for grounded parts at 690 V</li> </ul>	
- backwards 0 mm - at the side 9 mm - forwards 0 mm  • for live parts at 690 V - downwards 20 mm - backwards 0 mm - forwards 0 mm - at the side 9 mm - forwards 0 mm  Connections/ Terminals  type of electrical connection • for main current circuit screw-type terminals  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections • for main contacts - solid or stranded 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)		20 mm
- at the side - forwards • for live parts at 690 V - downwards - upwards - backwards - at the side - forwards  - at the side - backwards - at the side - forwards  - o mm  - forwards  - o mm  - forwards  - forwards  - forwards  - 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 - solid or stranded  - forwards  - solid or stranded  - formain curds - for main current circuit - for auxiliary and control circuit - for main contacts - solid or stranded  - formain contacts - solid or stranded  - formain contacts - solid or stranded  - formain contacts - formain contacts - solid or stranded  - formain contacts - solid or stranded  - formain contacts - formain contacts - solid or stranded  - formain contacts - formain contacts - solid or stranded	— upwards	20 mm
forwards  • for live parts at 690 V  downwards  upwards  upwards  backwards  at the side  forwards  forwards  forwards  omm  forwards  omm  forwards  forward	— backwards	0 mm
for live parts at 690 V         — downwards         — upwards         — backwards         — at the side         — forwards         — forwards         — o mm         — forwards         — o mm          — forwards         — o mm          — forwards          — forwards          — for auxiliary and control circuit          arrangement of electrical connectors for main current circuit          type of connectable conductor cross-sections         • for main contacts         — solid or stranded	— at the side	9 mm
- downwards - upwards - upwards - backwards - at the side - forwards - forwards  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 - solid or stranded  20 mm	— forwards	0 mm
- upwards - backwards - at the side - forwards  O mm  forwards  O mm  Connections/ Terminals  type of electrical connection  of or main current circuit efor auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections of or main contacts - solid or stranded  20 mm  0 mm  comm  Top and bottom  2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)	• for live parts at 690 V	
- backwards 0 mm - at the side 9 mm - forwards 0 mm  Connections/ Terminals  type of electrical connection • for main current circuit screw-type terminals  • for auxiliary and control circuit screw-type terminals  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections • for main contacts - solid or stranded 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)	— downwards	20 mm
- at the side - forwards  Connections/ Terminals  type of electrical connection	— upwards	20 mm
— forwards  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  — solid or stranded  0 mm  crew-type terminals  Top and bottom  2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)	— backwards	0 mm
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  — solid or stranded  cype of electrical connectors for main current circuit  2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)	— at the side	9 mm
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  — solid or stranded  screw-type terminals  Top and bottom  2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)	— forwards	0 mm
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  — solid or stranded  screw-type terminals  Top and bottom  2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)	Connections/ Terminals	
<ul> <li>for main current circuit         <ul> <li>for auxiliary and control circuit</li> </ul> </li> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections         <ul> <li>for main contacts</li> <li>— solid or stranded</li> </ul> </li> <li>screw-type terminals         <ul> <li>Top and bottom</li> </ul> </li> <li>2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)</li> <li>(1 4 mm²)</li> </ul>		
<ul> <li>◆ for auxiliary and control circuit</li> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections</li> <li>◆ for main contacts</li> <li>— solid or stranded</li> <li>2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)</li> </ul>		screw-type terminals
arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  ● for main contacts  — solid or stranded  Top and bottom  Top and bottom  2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)		•
type of connectable conductor cross-sections	arrangement of electrical connectors for main current	
<ul> <li>◆ for main contacts</li> <li>— solid or stranded</li> <li>2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)</li> </ul>	type of connectable conductor cross-sections	
	— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)
	<ul> <li>finely stranded with core end processing</li> </ul>	

type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
<ul><li>— solid or stranded</li></ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	
<ul> <li>for main contacts</li> </ul>	M3
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3
Safety related data	
B10 value	
<ul> <li>with high demand rate according to SN 31920</li> </ul>	5 000
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %
failure rate [FIT]	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 FIT
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
display version for switching status	Rocker switch
, ,	

continuation approvato

## **General Product Approval**

For use in hazardous locations





Confirmation







For use in hazardous locations

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping







Type Test Certificates/Test Report

Special Test Certificate



### Marine / Shipping





LRS









other

Railway

Miscellaneous

Confirmation



Special Test Certificate

#### Further information

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=3RV1011-1FA15

#### Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-1FA15

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

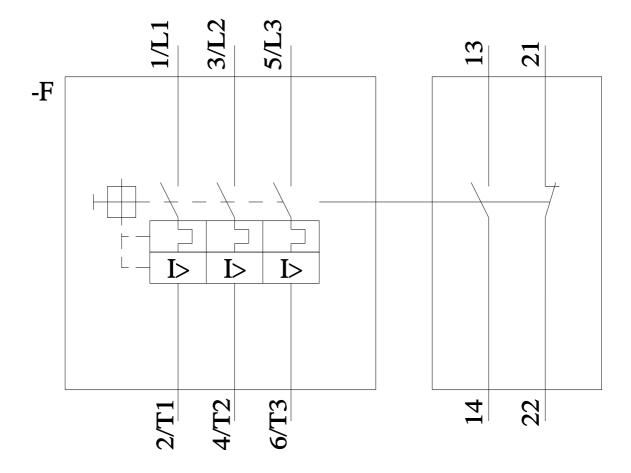
https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1FA15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV1011-1FA15&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1FA15/char

Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-1FA15&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-1FA15&objecttype=14&gridview=view1</a>



6/25/2022 last modified: