SIEMENS

Data sheet



Circuit breaker size S00 for motor protection, CLASS 10 A-release 12...16 A N-release 208 A Screw terminal Standard switching capacity Special version with limited ON period Use only on request

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
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	9.25 W
 at AC in hot operating state per pole 	3.1 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
mechanical service life (operating cycles)	
 of the main contacts typical 	100 000
of auxiliary contacts 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
ambient temperature	
 during operation 	-20 +60 °C
during storage	-50 +80 °C
during transport	-50 +80 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	10 16 A
operating voltage	
• rated value	20 690 V
 at AC-3 rated value maximum 	690 V
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	16 A
operational current	
 at AC-3 at 400 V rated value 	16 A
• at AC-3e at 400 V rated value	16 A
operating power	
• at AC-3	
— at 230 V rated value	3 kW

— at 400 V rated value	7.5 kW
— at 500 V rated value	5.5 kW
• at AC-3e	
— at 230 V rated value	3 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	5.5 kW
Auxiliary circuit	
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	
at AC at 240 V rated value	100 kA
at AC at 400 V rated value	50 kA
at AC at 500 V rated value	3 kA
at AC at 690 V rated value	2 kA
operating short-circuit current breaking capacity (Ics) at AC	
at 240 V rated value	100 kA
at 240 V rated value at 400 V rated value	13 kA
at 500 V rated valueat 690 V rated value	3 kA 2 kA
response value current of instantaneous short-circuit trip unit	156 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	16 A
at 600 V rated value	16 A
Short-circuit protection	
product function short circuit protection	Yes
	Yes magnetic
product function short circuit protection	
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit	
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit	magnetic
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V	magnetic gG 80 A
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V	magnetic gG 80 A gG 80 A
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V	magnetic gG 80 A gG 80 A gG 50 A
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 240 V at 400 V at 500 V at 690 V	magnetic gG 80 A gG 80 A gG 50 A
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions	magnetic gG 80 A gG 80 A gG 50 A gG 50 A
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position	magnetic gG 80 A gG 80 A gG 50 A gG 50 A
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method	magnetic gG 80 A gG 80 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height	magnetic gG 80 A gG 80 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 90 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width	magnetic gG 80 A gG 80 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 90 mm 45 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth	magnetic gG 80 A gG 80 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 90 mm 45 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	magnetic gG 80 A gG 80 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 90 mm 45 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V	magnetic gG 80 A gG 80 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 90 mm 45 mm 75 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards	magnetic gG 80 A gG 80 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 90 mm 45 mm 75 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side	magnetic gG 80 A gG 80 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 90 mm 45 mm 75 mm 20 mm 20 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V	magnetic gG 80 A gG 80 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 90 mm 45 mm 75 mm 20 mm 20 mm 9 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards	magnetic gG 80 A gG 80 A gG 50 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 90 mm 45 mm 75 mm 20 mm 9 mm 20 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — upwards — upwards — upwards — upwards — upwards	magnetic gG 80 A gG 80 A gG 50 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 90 mm 45 mm 75 mm 20 mm 9 mm 20 mm 20 mm 20 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — at the side	magnetic gG 80 A gG 80 A gG 50 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 90 mm 45 mm 75 mm 20 mm 9 mm 20 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — upwards — upwards — at the side • for grounded parts at 500 V	magnetic gG 80 A gG 80 A gG 50 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 90 mm 45 mm 75 mm 20 mm 20 mm 9 mm 20 mm 9 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • 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 — at the side • for grounded parts at 500 V — downwards	magnetic gG 80 A gG 80 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 90 mm 45 mm 75 mm 20 mm 9 mm 20 mm 9 mm 20 mm 9 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side	magnetic gG 80 A gG 80 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 90 mm 45 mm 75 mm 20 mm 9 mm 20 mm 9 mm 20 mm 20 mm 20 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side	magnetic gG 80 A gG 80 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 90 mm 45 mm 75 mm 20 mm 9 mm 20 mm 9 mm 20 mm 9 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for live parts at 500 V	magnetic gG 80 A gG 80 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 90 mm 45 mm 75 mm 20 mm 9 mm 20 mm 9 mm 20 mm 9 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — 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 live parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — upwards — at the side	magnetic gG 80 A gG 80 A gG 50 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 90 mm 45 mm 75 mm 20 mm 9 mm 20 mm 9 mm 20 mm 9 mm 20 mm 9 mm 20 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for live parts at 500 V	magnetic gG 80 A gG 80 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 90 mm 45 mm 75 mm 20 mm 9 mm 20 mm 9 mm 20 mm 9 mm

General Product Approval	For use in hazard- ous locations Declaration of Conformity
Certificates/ approvals	
display version for switching status	Rocker switch
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
protection class IP on the front according to IEC 60529	IP20
with low demand rate according to SN 31920 Protection along IR on the front according to IEC 60520.	50 FIT
failure rate [FIT]	FORIT
with high demand rate according to SN 31920	50 %
with low demand rate according to SN 31920 with high demand rate according to SN 24000	50 %
proportion of dangerous failures	F0.0/
with high demand rate according to SN 31920	5 000
B10 value	
Safety related data	
• for main contacts	M3
design of the thread of the connection screw	
size of the screwdriver tip	Pozidriv size 2
design of screwdriver shaft	Diameter 5 to 6 mm
for auxiliary contacts with screw-type terminals	0.8 1.2 N·m
 for main contacts with screw-type terminals 	0.8 1.2 N·m
tightening torque	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for auxiliary contacts	
type of connectable conductor cross-sections	
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)
• for main contacts	
type of connectable conductor cross-sections	
circuit	τορ απα σοιιοπι
arrangement of electrical connectors for main current	screw-type terminals Top and bottom
for main current circuit	corow type terminals
type of electrical connection	
— forwards Connections/ Terminals	0 mm
— at the side	9 mm
— backwards	0 mm
— upwards	20 mm
— downwards	20 mm
• for live parts at 690 V	
— forwards	0 mm
— at the side	9 mm
— backwards	0 mm
— upwards	20 mm
downwards	
— downwards	20 mm

Confirmation











Test Certificates

Marine / Shipping

Special Test Certificate











other Railway



Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RV1011-4AA10-0AA4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-4AA10-0AA4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-4AA10-0AA4

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

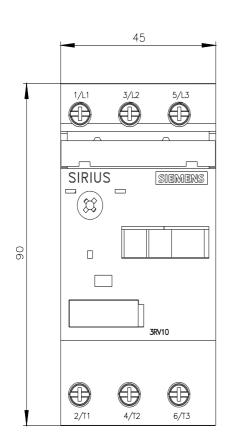
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-4AA10-0AA4&lang=en

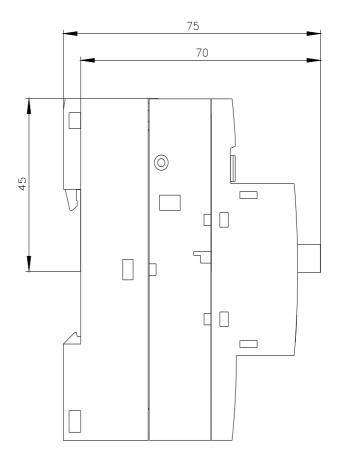
Characteristic: Tripping characteristics, I2t, Let-through current

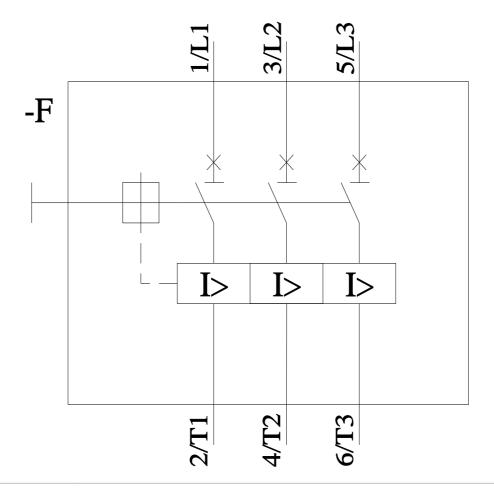
https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-4AA10-0AA4/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-4AA10-0AA4&objecttype=14&gridview=view1







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