3RV2021-4FA15-Z X95

Data sheet



Circuit breaker size S0 for motor protection, CLASS 10 A-release 34...40 A N-release 480 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC Reusable packaging Pack = 43 units



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	S0	
size of contactor can be combined company-specific	S00, S0	
product extension auxiliary switch	Yes	
power loss [W] for rated value of the current		
 at AC in hot operating state 	16.25 W	
 at AC in hot operating state per pole 	5.4 W	
insulation voltage with degree of pollution 3 at AC rated value	690 V	
surge voltage resistance rated value	6 kV	
shock resistance according to IEC 60068-2-27	25g / 11 ms	
mechanical service life (operating cycles)		
 of the main contacts typical 	100 000	
of auxiliary contacts typical	100 000	
electrical endurance (operating cycles) typical	100 000	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	10/01/2009	
Weight	0.396 kg	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
 during operation 	-20 +40 °C	
 during storage 	-50 +80 °C	
during transport	-50 +80 °C	
relative humidity during operation	10 95 %	
Environmental footprint		
global warming potential [CO2 eq] total	75.078 kg	
global warming potential [CO2 eq] during manufacturing	2.68 kg	
global warming potential [CO2 eq] during sales	0.143 kg	
global warming potential [CO2 eq] during operation	72.7 kg	
global warming potential [CO2 eq] after end of life	-0.445 kg	
Siemens Eco Profile (SEP)	Siemens EcoTech	
Main circuit		
number of poles for main current circuit	3	

adjustable current response value current of the current- dependent overload release	34 40 A
operating voltage	
	20 600 V
• rated value	20 690 V
at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	40 A
operational current	
at AC-3 at 400 V rated value	40 A
operating power	
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	39 kW
operating frequency	
at AC-3 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
Buston diversity of the state o	
Protective and monitoring functions	
Protective and monitoring functions product function	
	No
product function	No Yes
product function • ground fault detection	
product function	Yes
product functionground fault detectionphase failure detection	Yes CLASS 10
product function	Yes CLASS 10
product function	Yes CLASS 10 thermal
product function	Yes CLASS 10 thermal
product function	Yes CLASS 10 thermal 100 kA 20 kA
product function	Yes CLASS 10 thermal 100 kA 20 kA 6 kA
product function	Yes CLASS 10 thermal 100 kA 20 kA 6 kA
product function	Yes CLASS 10 thermal 100 kA 20 kA 6 kA 3 kA
product function	Yes CLASS 10 thermal 100 kA 20 kA 6 kA 3 kA
product function	Yes CLASS 10 thermal 100 kA 20 kA 6 kA 3 kA 100 kA 10 kA
product function	Yes CLASS 10 thermal 100 kA 20 kA 6 kA 3 kA 100 kA 10 kA 2 kA
product function	Yes CLASS 10 thermal 100 kA 20 kA 6 kA 3 kA 100 kA 10 kA
product function	Yes CLASS 10 thermal 100 kA 20 kA 6 kA 3 kA 100 kA 10 kA 2 kA
product function	Yes CLASS 10 thermal 100 kA 20 kA 6 kA 3 kA 100 kA 10 kA 480 A
product function	Yes CLASS 10 thermal 100 kA 20 kA 6 kA 3 kA 100 kA 10 kA 10 kA 40 A
product function	Yes CLASS 10 thermal 100 kA 20 kA 6 kA 3 kA 100 kA 10 kA 480 A
product function	Yes CLASS 10 thermal 100 kA 20 kA 6 kA 3 kA 100 kA 10 kA 10 kA 40 A
product function	Yes CLASS 10 thermal 100 kA 20 kA 6 kA 3 kA 100 kA 10 kA 40 A 40 A
product function	Yes CLASS 10 thermal 100 kA 20 kA 6 kA 3 kA 100 kA 10 kA 40 A 40 A 40 A
product function	Yes CLASS 10 thermal 100 kA 20 kA 6 kA 3 kA 100 kA 10 kA 40 A 40 A
product function	Yes CLASS 10 thermal 100 kA 20 kA 6 kA 3 kA 100 kA 10 kA 2 kA 480 A 40 A 40 A
product function	Yes CLASS 10 thermal 100 kA 20 kA 6 kA 3 kA 100 kA 10 kA 10 kA 40 A 40 A 40 A
product function	Yes CLASS 10 thermal 100 kA 20 kA 6 kA 3 kA 100 kA 10 kA 10 kA 40 A 40 A 40 A 3 hp 7.5 hp 10 hp 10 hp
product function	Yes CLASS 10 thermal 100 kA 20 kA 6 kA 3 kA 100 kA 10 kA 40 A 40 A 40 A 40 h 10 hp 10 hp 30 hp
product function	Yes CLASS 10 thermal 100 kA 20 kA 6 kA 3 kA 100 kA 10 kA 10 kA 40 A 40 A 40 A 3 hp 7.5 hp 10 hp 10 hp

product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	
for short-circuit protection of the auxiliary switch required	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
design of the fuse link for IT network for short-circuit	
protection of the main circuit	
• at 400 V	gG 63 A
● at 500 V	gG 63 A
• at 690 V	gG 63 A
nstallation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	97 mm
width	45 mm
depth	97 mm
required spacing	
 with side-by-side mounting at the side 	9 mm
• for grounded parts at 400 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 400 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for grounded parts at 500 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
for live parts at 500 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for grounded parts at 690 V	
— downwards	70 mm
— upwards	70 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
• for live parts at 690 V	
— downwards	70 mm
— upwards	70 mm
— backwards	0 mm
— at the side	30 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	Top and bottom
circuit	. 05 0 200011
type of connectable conductor cross-sections	
• for main contacts	
— solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
 finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
for AWG cables for main contacts	2x (16 12), 2x (14 8)
type of connectable conductor cross-sections	
for auxiliary contacts	
for auxiliary contacts — solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)

for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
tightening torque	2x (20 10), 2x (10 14)
for main contacts with screw-type terminals	2 2.5 N·m
for auxiliary contacts with screw-type terminals	0.8 1.2 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	
• for main contacts	M4
of the auxiliary and control contacts	M3
Safety related data	
product function suitable for safety function	Yes
suitability for use	
safety-related switching on	No
 safety-related switching OFF 	Yes
service life maximum	10 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	50 %
B10 value with high demand rate according to SN 31920	5 000
failure rate [FIT] with low demand rate according to SN 31920	50 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
T1 value	
 for proof test interval or service life according to IEC 61508 	10 a
Electrical Safety	
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	
display version for switching status	Handle
Approvals Certificates	
General Product Approval	

General Product Approval





Confirmation





<u>KC</u>

General Product Approval

For use in hazardous locations

Test Certificates

Marine / Shipping







Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping











Confirmation

other F

Railway

Environment

other

Special Test Certificate





Environment

Environmental Confirmations

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2021-4FA15-Z X95

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-4FA15-Z X95

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4FA15-Z X95

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

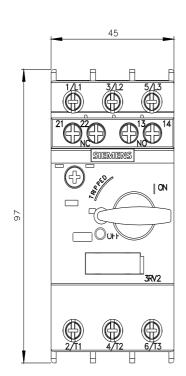
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-4FA15-Z X95&lang=en

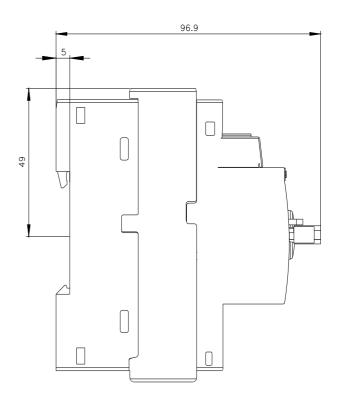
Characteristic: Tripping characteristics, I2t, Let-through current

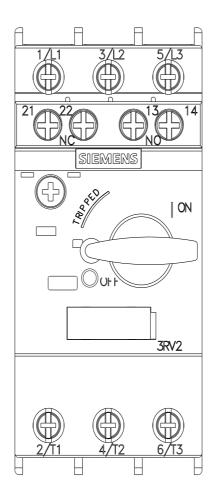
nttps://support.industry.siemens.com/cs/ww/en/ps/3Rv2021-4FA15-Z-X95/cna

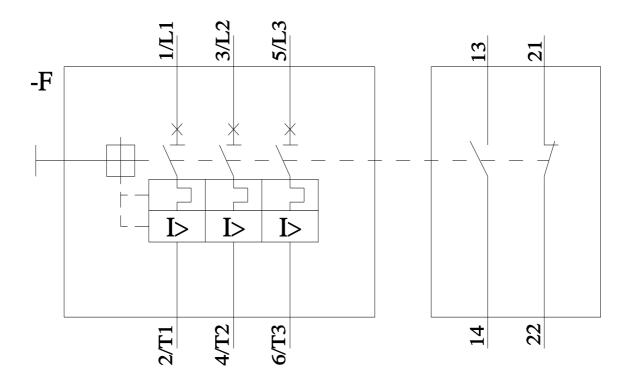
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-4FA15-Z X95&objecttype=14&gridview=view1









last modified: 11/6/2024 🖸