SIEMENS

Data sheet 3RV2042-4FB10



EcoTech

Circuit breaker size S3 for motor protection, Class 20 A-release 28...40 A N-release 520 A screw terminal Increased switching capacity 100 kA $\,$



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	S3	
size of contactor can be combined company-specific	S3	
product extension auxiliary switch	Yes	
power loss [W] for rated value of the current		
 at AC in hot operating state 	23 W	
 at AC in hot operating state per pole 	7.7 W	
insulation voltage with degree of pollution 3 at AC rated value	1 000 V	
surge voltage resistance rated value	8 kV	
shock resistance according to IEC 60068-2-27	25g / 11 ms Sinus	
mechanical service life (operating cycles)		
 of the main contacts typical 	25 000	
of auxiliary contacts typical	25 000	
electrical endurance (operating cycles) typical	25 000	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	03/01/2017	
SVHC substance name	Lead - 7439-92-1	
Weight	2.2 kg	
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 %	
Environmental footprint		
Environmental Product Declaration(EPD)	Yes	
global warming potential [CO2 eq] total	283.24 kg	
global warming potential [CO2 eq] during manufacturing	18.5 kg	
global warming potential [CO2 eq] during sales	1.24 kg	
global warming potential [CO2 eq] during operation	265 kg	
global warming potential [CO2 eq] after end of life	-1.5 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	28 40 A
type of voltage for main current circuit	AC
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	40 A
operational current	
at AC-3 at 400 V rated value	40 A
at AC-3e 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	37 kW
• at AC-3e	
— 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	37 kW
operating frequency	
• at AC-3 maximum	15 1/h
at AC-3e maximum	15 1/h
Auxiliary circuit	
type of voltage for auxiliary and control circuit	AC/DC
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
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 20
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	100 kA
at AC at 500 V rated value	18 kA
at AC at 690 V rated value	12 kA
operating short-circuit current breaking capacity (Ics) at AC	
operating short-circuit current breaking capacity (Ics) at AC • at 240 V rated value	100 kA
	100 kA 50 kA
• at 240 V rated value	
at 240 V rated value at 400 V rated value	50 kA
 at 240 V rated value at 400 V rated value at 500 V rated value 	50 kA 9 kA
at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit	50 kA 9 kA 6 kA
at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings	50 kA 9 kA 6 kA
at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit	50 kA 9 kA 6 kA
at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value	50 kA 9 kA 6 kA 520 A
at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value	50 kA 9 kA 6 kA 520 A
at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value yielded mechanical performance [hp]	50 kA 9 kA 6 kA 520 A
at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor	50 kA 9 kA 6 kA 520 A 40 A 40 A
at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value	50 kA 9 kA 6 kA 520 A 40 A 40 A
at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value at 230 V rated value at 230 V rated value	50 kA 9 kA 6 kA 520 A 40 A 40 A
at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 230 V rated value for 3-phase AC motor	50 kA 9 kA 6 kA 520 A 40 A 40 A 3 hp 7.5 hp
at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value at 230 V rated value at 230 V rated value	50 kA 9 kA 6 kA 520 A 40 A 40 A

	— at 460/480 V rated value	30 hp
Short-ficult profestion Yes design of the short-circuit trip magnetic	— at 460/480 V rated value	30 hp
product function short circuit projection disagn of the short-circuit trip magnete (Installation memoriting differentiates) and short circuit trip magnete (Installation memoriting position and trip statening memoriting position and trip statening memoriting of the short circuit in the state of the short circuit of the shor		40 Hp
Majorition Maj		
mounting position spread street and some and support mounting onto 35 mm DIN rail according to DIN EN 80715 height 165 mm 170 mm 49ph 176 mm 170 mm 49ph 170 mm 49	·	
mounting position spread sprea	·	magnetic
Installing method beight		
height width 70 mm depth 70 mm required spacing 176 mm required spacing 2 with side by side mounting at the side 2 mm or grounded parts at 400 V 70 mm — downwards 70 mm — upwards 70 mm — upwards 70 mm — downwards 70 mm — at the side 10 mm 2 mm — at the side 10 mm — upwards 110 mm — at the side 10 mm — or grounded parts at 500 V 10 mm — at the side 10 mm — upwards 110 mm — at the side 10 mm — at the side 30 mm — at the side		·
Meght		
depth		
required spacing with side-by-side mounting at the side of or grounded parts at 400 V —downwards —at the side of live parts at 400 V —downwards —at the side of or live parts at 400 V —downwards —at the side of or grounded parts at 500 V —downwards —at the side of or grounded parts at 500 V —downwards —upwards —at the side of or grounded parts at 500 V —downwards —upwards —at the side of or five parts at 500 V —downwards —the side of live parts at 500 V —downwards —the side of live parts at 500 V —downwards —the side of live parts at 500 V —downwards —the side of live parts at 500 V —downwards —the side of live parts at 500 V —downwards —the side of live parts at 500 V —downwards —the side of live parts at 500 V —downwards —the side of live parts at 500 V —downwards —the side of or live parts at 500 V —downwards of or live parts at 500 V —downwards of or live parts at 500		
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• for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — at the side • for for grounded parts at 500 V — downwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 600 V — downwards — at the side • for grounded parts at 600 V — downwards — at the side • for live parts at 600 V — downwards — at the side • for live parts at 600 V — downwards — at the side • for live parts at 600 V — downwards — at the side • for live parts at 600 V — downwards — at the side • for live parts at 600 V — downwards — at the side • for live parts at 600 V — downwards — at the side • for live parts at 600 V — downwards — the side • for live parts at 600 V — downwards — the side • for live parts at 600 V — downwards — the side • for live parts at 600 V — downwards — the side • for live parts at 600 V — downwards — the side • for live parts at 600 V — downwards — the side • for live parts at 600 V — downwards — the side • for live parts at 600 V — downwards — the side • for live parts at 600 V — downwards — the side • for live parts at 600 V — downwards — the side • for live parts at 600 V — downwards — the side • for live parts at 600 V — downwards — the side • for live parts at 600 V — downwards — the side • for live parts at 600 V — downwards — the side • for live parts at 600 V — downwards — the side • for live parts at 600 V — downwards — the side • for live parts at 600 V — downwards — to main contact or live parts at 600 V — downwards — the side — sold or standed — finely standed without core and processing — sold or standed — finely standed without core and processing — finely standed without core and pro		
downwards upwards upwards of file parts at 400 V downwards of the side of file parts at 500 V downwards upwards u	-	0 mm
upwards	 for grounded parts at 400 V 	
■ at the side ■ for live parts at 400 V □ downwards □ upwards □ the side ■ of or grounded parts at 500 V □ downwards □ upwards □ the side ■ of or grounded parts at 500 V □ downwards □ the side ■ of live parts at 500 V □ downwards □ upwards □ the side ■ of live parts at 500 V □ downwards □ upwards □ upwards □ upwards □ the side ■ of or grounded parts at 690 V □ downwards □ upwards □ the side ■ of or grounded parts at 690 V □ downwards □ the side ■ of or grounded parts at 690 V □ downwards □ the side ■ of live parts at 690 V □ downwards □ the side ■ of live parts at 690 V □ downwards □ the side ■ of live parts at 690 V □ downwards □ the side ■ of live parts at 690 V □ downwards □ the side ■ of live parts at 690 V □ downwards □ the side ■ of live parts at 690 V □ downwards □ the side ■ of live parts at 690 V □ downwards □ the side ■ of live parts at 690 V □ downwards □ the side ■ of live parts at 690 V □ downwards □ the side ■ of live parts at 690 V □ downwards □ the side ■ of live parts at 690 V □ downwards □ the side ■ of live parts at 690 V □ downwards □ the side ■ of live parts at 690 V □ downwards □ the side ■ of live parts at 690 V □ downwards □ the side ■ of live parts at 690 V □ downwards □ the side □ of live parts at 690 V □ downwards □ the side □ of live parts at 690 V □ downwards □ the side □ of live parts at 690 V □ downwards □ the side □ of live parts at 690 V □ downwards □ the side □ of live parts at 690 V □ downwards □ the side □ of live parts at 690 V □ downwards □ of main contacts □ of main contacts for ring cable lug maximum tightening torque ■ for main contacts with screw-type terminals □ of main	— downwards	70 mm
• for live parts at 400 V	— upwards	70 mm
- downwards		10 mm
- upwards	 for live parts at 400 V 	
- at the side	— downwards	
• for grounded parts at 500 V - downwards - upwards - at the side • for live parts at 500 V - downwards - upwards - upwards - upwards - at the side • for for owned parts at 500 V - downwards - at the side • for grounded parts at 690 V - downwards - upwards - upwards - at the side • for grounded parts at 690 V - downwards - at the side • for live parts at 690 V - downwards - at the side • for live parts at 690 V - downwards - the side • for live parts at 690 V - downwards - the side • for live parts at 690 V - downwards - upwards - 150 mm - at the side **Onnections' Terminals **Upper of electrical connection • for main current circuit **arrangement of electrical connection • for main contacts - solid - solid or stranded - finely stranded with core end processing - firmina contacts for fing cable lug maximum 19 mm tightening torque - for main contacts with screw-type terminals **Safety related data product function suitable for safety function - safety-related switching on - safety-related switching of F - yes - safety-related switching of F - yes - safety-related switching of F - yes	— upwards	70 mm
	— at the side	10 mm
- upwards - at the side for live parts at 500 V - downwards - upwards - upwards - at the side 110 mm • for grounded parts at 690 V - downwards - upwards - at the side 30 mm • for live parts at 690 V - downwards - upwards - at the side 30 mm • for live parts at 580 V - downwards - upwards - to for live parts at 690 V - downwards - upwards - upwards - upwards - to for man correct circuit - at the side - 30 mm Connections/ Terminals Type of electrical connection • for main current circuit - for main current circuit - solid - solid or stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - to main contacts for ring cable lug maximum - tightening torque - to main contacts with screw-type terminals - to main contact	 for grounded parts at 500 V 	
• at the side • for live parts at 500 V • for live parts at 500 V • downwards	— downwards	110 mm
for live parts at 500 V — downwards — upwards — at the side • for grounded parts at 690 V — downwards — upwards — upwards — upwards — upwards — upwards — at the side — upwards — at the side • for live parts at 690 V — downwards — upwards — at the side • for live parts at 690 V — downwards — upwards — upwards — upwards — upwards — at the side — upwards — at the side — 30 mm Connections/ Terminals type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — solid or stranded — solid or stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing — finely stranded without core end processing ufghtening torque • for main contacts for ring cable lug	— upwards	110 mm
	— at the side	10 mm
- upwards - at the side • for grounded parts at 690 V - downwards - upwards - at the side • for live parts at 690 V - downwards - at the side • for live parts at 690 V - downwards - upwards - to downwards - upwards - upwards - upwards - the side - upwards - upwards - the side - upwards - at the side - upwards - upwards - the side - upwards - upwar	 for live parts at 500 V 	
- at the side • for grounded parts at 690 V - downwards - upwards - at the side • for live parts at 690 V - downwards - upwards - at the side • for live parts at 690 V - downwards - upwards - upwards - at the side 30 mm Connections/ Terminals type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid - solid or stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded without core end processing • for main contacts for ring cable lug • for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque • for main contacts with screw-type terminals A.5 6 N·m Safety related switching on • safety-related switching on • safety-related switching of Yes service life maximum 10 a test wear-related service life necessary Yes	— downwards	110 mm
• for grounded parts at 690 V	— upwards	110 mm
- downwards	— at the side	10 mm
- upwards - at the side • for live parts at 690 V - downwards - upwards - upwards - at the side • for main contacts - solid - solid or stranded - finely stranded without core end processing - finely stranded without core end processing - for main contacts for ring cable lug - for main contacts for ring cable lug maximum tightening torque - for main contacts with screw-type terminals - solid - solid or stranded - for main contacts for ring cable lug maximum tightening torque - for main contacts with screw-type terminals - solid - solid or stranded - finely stranded without core end processing - for main contacts for ring cable lug maximum tightening torque - for main contacts with screw-type terminals - solid or stranded - for main contacts for ring cable lug maximum tightening torque - for main contacts with screw-type terminals - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for main contacts or ring cable lug - for main contacts or ring cable lug - for main contacts - solid or ma	 for grounded parts at 690 V 	
- at the side • for live parts at 690 V - downwards - upwards - at the side 30 mm Connections/ Terminals type of electrical connection • for main current circuit - solid - solid or stranded - finely stranded with our core end processing - finely stranded without core end processing - solid - 2x (2.5 16 mm²), 1x (10 70 mm²) - x (2.5 50 mm²), 1x (10 70 mm²) - x (2.5 50 mm²), 1x (10 70 mm²) - x (2.5 50 mm²), 1x (10 70 mm²) - y (2.5 50 mm²), 1x (10 70 mm²) - y (2.5 50 mm²), 1x (10 70 mm²) - y (2.5 50 mm²), 1x (10 70 mm²) - y (2.5 50 mm²), 1x (10 70 mm²) - y (2.5 50 mm²), 1x (10 70 mm²) - y (2.5 50 mm²), 1x (10 70 mm²) - y (2.5 50 mm²), 1x (10 70 mm²) - y (2.5	— downwards	150 mm
• for live parts at 690 V — downwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing 2x (2.5 35 mm²), 1x (10 70 mm²) — finely stranded without core end processing 2x (10 35 mm²), 1x (10 50 mm²) tightening torque • for main contacts for ring cable lug • for main contacts with screw-type terminals 4.5 6 N·m Safety related data product function suitable for safety function safety-related switching OFF yes service life maximum 10 a test wear-related service life necessary Yes	— upwards	150 mm
- downwards - upwards - at the side 30 mm Connections/ Terminals type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid - solid or stranded - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - for main contacts or ring cable lug • for main contacts for ring cable lug • for main contacts for ring cable lug - solid or stranded (2x (2.5 35 mm²), 1x (10 70 mm²) 2x (10 35 mm²), 1x (10 50 mm²) tightening torque • for main contacts for ring cable lug maximum tightening torque • for main contacts with screw-type terminals Safety related data product function suitable for safety function • safety-related switching on • safety-related switching of Yes service life maximum 10 a test wear-related service life necessary Yes	— at the side	30 mm
- upwards - at the side Connections/ Terminals type of electrical connection	• for live parts at 690 V	
- at the side 30 mm Connections/ Terminals type of electrical connection	— downwards	150 mm
type of electrical connection	— upwards	150 mm
type of electrical connection	— at the side	30 mm
• for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — solid or stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing — finely stranded without core end processing — for main contacts for ring cable lug • for main contacts for ring cable lug • for main contacts with screw-type terminals Safety related data product function suitable for safety function • safety-related switching on • safety-related switching OFF Service life maximum 10 a test wear-related service life necessary Top and bottom Top and botteneds Top and bo	Connections/ Terminals	
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type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — solid or stranded — finely stranded with core end processing — finely stranded without core end processing 2x (2.5 35 mm²), 1x (10 50 mm²) — finely stranded without core end processing 2x (10 35 mm²), 1x (10 50 mm²) tightening torque • for main contacts for ring cable lug maximum 19 mm tightening torque • for main contacts with screw-type terminals 4.5 6 N·m Safety related data product function suitable for safety function Yes suitability for use • safety-related switching on • safety-related switching OFF Yes service life maximum 10 a test wear-related service life necessary Yes	arrangement of electrical connectors for main current	Top and bottom
for main contacts — solid — solid or stranded — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — solid or stranded single for safe lug — safety-related switching or — safety-related switching or — safety-related switching OFF — service life maximum — solid or stranded service life necessary	circuit	
- solid 2x (2.5 16 mm²) - solid or stranded 2x (2.5 50 mm²), 1x (10 70 mm²) - finely stranded with core end processing 2x (2.5 35 mm²), 1x (2.5 50 mm²) - finely stranded without core end processing 2x (10 35 mm²), 1x (10 50 mm²) tightening torque • for main contacts for ring cable lug 4.5 6 N·m outer diameter of the usable ring cable lug maximum 19 mm tightening torque • for main contacts with screw-type terminals 4.5 6 N·m 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	type of connectable conductor cross-sections	
- solid or stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing 2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 35 mm²), 1x (10 50 mm²) tightening torque • for main contacts for ring cable lug maximum tightening torque • for main contacts with screw-type terminals 4.5 6 N·m Safety related data product function suitable for safety function yes suitability for use • safety-related switching on • safety-related switching OFF yes service life maximum 10 a test wear-related service life necessary Yes	• for main contacts	
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tightening torque • for main contacts for ring cable lug • for main contacts for ring cable lug maximum tightening torque • for main contacts with screw-type terminals 4.5 6 N·m Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum to necessary 2x (10 35 mm²), 1x (10 50 mm²) 4.5 6 N·m 4.5 6 N·m No	— solid or stranded	2x (2,5 50 mm²), 1x (10 70 mm²)
tightening torque • for main contacts for ring cable lug • for main contacts for ring cable lug maximum tightening torque • for main contacts with screw-type terminals 4.5 6 N·m Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum tightening torque 4.5 6 N·m No Yes 10 a 10 a 10 a 10 a 10 yes	 finely stranded with core end processing 	2x (2.5 35 mm²), 1x (2.5 50 mm²)
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tightening torque • for main contacts with screw-type terminals Safety related data product function suitable for safety function Suitability for use • safety-related switching on • safety-related switching OFF Service life maximum test wear-related service life necessary 4.5 6 N·m No Yes No 10 a	for main contacts for ring cable lug	4.5 6 N·m
• for main contacts with screw-type terminals Safety related data product function suitable for safety function Suitability for use • safety-related switching on • safety-related switching OFF Service life maximum 10 a test wear-related service life necessary 4.5 6 N⋅m Yes	outer diameter of the usable ring cable lug maximum	19 mm
Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF Yes service life maximum 10 a test wear-related service life necessary Yes	tightening torque	
product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF Yes service life maximum 10 a test wear-related service life necessary Yes		4.5 6 N·m
suitability for use • safety-related switching on • safety-related switching OFF Yes service life maximum 10 a test wear-related service life necessary Yes	Safety related data	
 safety-related switching on safety-related switching OFF service life maximum test wear-related service life necessary Yes 	product function suitable for safety function	Yes
◆ safety-related switching OFF Yes service life maximum 10 a test wear-related service life necessary Yes	suitability for use	
service life maximum 10 a test wear-related service life necessary Yes	safety-related switching on	No
service life maximum 10 a test wear-related service life necessary Yes	-	Yes
		10 a
	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







<u>KC</u>



General Product Approval

Test Certificates

Marine / Shipping

BIS CRS

Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report







Marine / Shipping

other







Miscellaneous

Confirmation



Railway

Environment

Special Test Certific-<u>ate</u>

Confirmation



Siemens EcoTech

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=3RV2042-4FB10

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2042-4FB10}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2042-4FB10

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

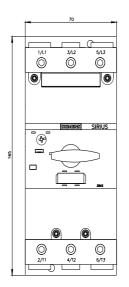
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2042-4FB10&lang=en

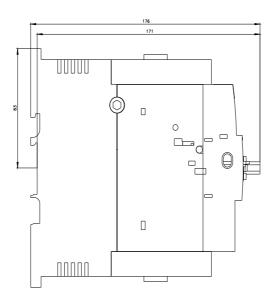
Characteristic: Tripping characteristics, I²t, Let-through current

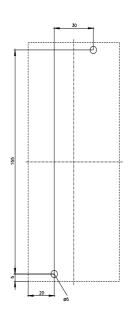
https://support.industry.siemens.com/cs/ww/en/ps/3RV2042-4FB10/char

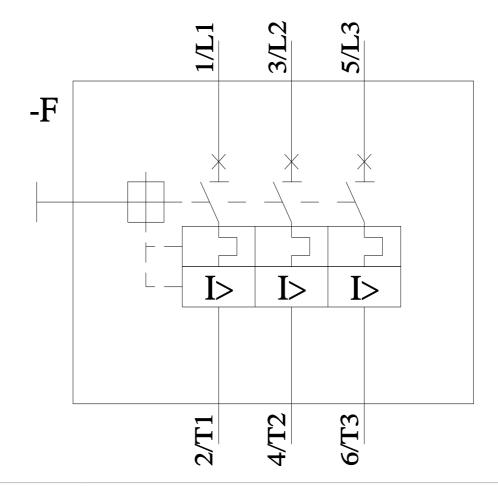
Further characteristics (e.g. electrical endurance, switching frequency)

3RV2042-4FB10&objecttype=14&aridview=view1









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5/16/2025

