SIEMENS

Data sheet

3RV2031-4JA10



Circuit breaker size S2 for motor protection, CLASS 10 A-release 54...65 A N-release 845 A screw terminal Standard switching capacity



product brand name SIRUS product designation Circuit breaker design of the product For motor protection product type designation 3RV2 Canaral technical data size of the circuit-breaker size of the circuit-breaker S2 size of the circuit-breaker S2 ower loss (W) for rated value of the current ************************************		
design of the product For motor protection product type designation 3RV2 Ceneral technical data S2 size of the circuit-breaker S2 size of contactor can be combined company-specific S2 power loss (W) for rated value of the current * • at AC in hot operating state 26 W • at AC in hot operating state per pole 8.7 W insulation voltage with degree of pollution 3 at AC rated value 6 kV strage voltage resistance according to IEC 60068-2-27 25g / 11 ms Sinus mechanical service life (operating cycles) • • of the main contacts typical 20 000 • of during to IEC 81346-2 Q Substance Prohibitance (Date) 04/10/2015 Substance Prohibitance (Date) 04/10/2015 Substance name Lead 'T439-92-1 Lead 'T439-92-1 Lead 'T439-92-1 Lead 'their conditions 1.178 kg Ambient conditions 200 0m installation altitude at height above sea level maximum 2 000 m ambient temperature -50 +80 'C • during torage -50 +80 'C • during torage -50	product brand name	SIRIUS
product type designation 3RV2 General technical data	product designation	Circuit breaker
General technical data size of the circuit-breaker \$2 size of contactor can be combined company-specific \$2 product extension auxiliary switch Yes power loss [W] for rated value of the current \$2 • al AC in hot operating state 26 W • al AC in hot operating state per pole 8.7 W insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 64 V shock resistance according to IEC 60068-2-27 25g / 11 ms Sinus mechanical service life (operating cycles) 6 • of the main contacts typical 20 000 • of the main contacts typical 20 000 • of auxiliary contacts typical 20 000 electrical endurance (operating cycles) typical 20 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 04/10/2015 SVHC substance name Lead titanium zirconium oxide - 12626-81-2 Weight 1.178 kg Ambient conditions -20 +60 °C • during totage -50 +80 °C • during transport -50 +80 °C • during transport -50 +80 °C • during transport -50 +80 °C environmental Product Declaration(EPD) Yes	design of the product	For motor protection
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Substance Prohibitance (Date) 04/10/2015 SVHC substance name Lead - 7439-92-1 Lead titanium zirconium oxide - 12626-81-2 Weight 1.178 kg Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Environmental Footprint 239.877 kg global warming potential [CO2 eq] during manufacturing 12.8 kg global warming potential [CO2 eq] during sales 0.477 kg global warming potential [CO2 eq] during operation 230 kg	electrical endurance (operating cycles) typical	20 000
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• during storage-50 +80 °C• during transport-50 +80 °Crelative humidity during operation10 95 %Environmental footprintEnvironmental Product Declaration(EPD)Yesglobal warming potential [CO2 eq] during manufacturing12.8 kgglobal warming potential [CO2 eq] during sales0.477 kgglobal warming potential [CO2 eq] during operation230 kg	ambient temperature	
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relative humidity during operation10 95 %Environmental footprintEnvironmental Product Declaration(EPD)Yesglobal warming potential [CO2 eq] total239.877 kgglobal warming potential [CO2 eq] during manufacturing12.8 kgglobal warming potential [CO2 eq] during sales0.477 kgglobal warming potential [CO2 eq] during operation230 kg	during storage	-50 +80 °C
Environmental footprint Environmental Product Declaration(EPD) Yes global warming potential [CO2 eq] total 239.877 kg global warming potential [CO2 eq] during manufacturing 12.8 kg global warming potential [CO2 eq] during sales 0.477 kg global warming potential [CO2 eq] during operation 230 kg	during transport	-50 +80 °C
Environmental Product Declaration(EPD)Yesglobal warming potential [CO2 eq] total239.877 kgglobal warming potential [CO2 eq] during manufacturing12.8 kgglobal warming potential [CO2 eq] during sales0.477 kgglobal warming potential [CO2 eq] during operation230 kg	relative humidity during operation	10 95 %
global warming potential [CO2 eq] total239.877 kgglobal warming potential [CO2 eq] during manufacturing12.8 kgglobal warming potential [CO2 eq] during sales0.477 kgglobal warming potential [CO2 eq] during operation230 kg	Environmental footprint	
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global warming potential [CO2 eq] during sales 0.477 kg global warming potential [CO2 eq] during operation 230 kg	global warming potential [CO2 eq] total	239.877 kg
global warming potential [CO2 eq] during operation 230 kg	global warming potential [CO2 eq] during manufacturing	12.8 kg
	global warming potential [CO2 eq] during sales	0.477 kg
global warming potential [CO2 eq] after end of life -3.4 kg	global warming potential [CO2 eq] during operation	230 kg
	global warming potential [CO2 eq] after end of life	-3.4 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	54 65 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	65 A
operational current	
• at AC-3 at 400 V rated value	65 A
• at AC-3e at 400 V rated value	65 A
operating power	
• at AC-3	
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	45 kW
— at 690 V rated value	55 kW
• at AC-3e	
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	45 kW
— at 690 V rated value	55 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	No
ground fault detection	No
phase failure detection	Yes CLASS 10
trip class 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 240 V rated value at AC at 400 V rated value	65 kA
at AC at 500 V rated value	8 kA
at AC at 690 V rated value	4 kA
operating short-circuit current breaking capacity (Ics) at AC	
at 240 V rated value	100 kA
at 400 V rated value	30 kA
at 500 V rated value	4 kA
at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	845 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	65 A
at 600 V rated value	62 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— at 200/208 V rated value	20 hp
— at 220/230 V rated value	25 hp
— at 460/480 V rated value	50 hp
— at 575/600 V rated value	60 hp

Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link for IT network for short-circuit protection of the main circuit	
• at 240 V	none required
• at 400 V	160
● at 500 V	125
• at 690 V	100
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	140 mm
width	55 mm
depth	149 mm
required spacing	
 with side-by-side mounting at the side 	0 mm
 for grounded parts at 400 V 	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
 for live parts at 400 V 	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
 for grounded parts at 500 V 	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
• for live parts at 500 V	50
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
 for grounded parts at 690 V — downwards 	50 mm
— upwards	50 mm
— at the side	10 mm
for live parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)
 for AWG cables for main contacts 	2x (18 2), 1x (18 1)
tightening torque	
for main contacts with screw-type terminals	3 4.5 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	M6
Safety related data	
product function suitable for safety function	Yes
suitability for use	
 safety-related switching on 	No

 safety-related sw 	itching OFF		Yes		
service life maximum			10 a		
test wear-related serv			Yes		
proportion of dangero					
	rate according to SN 319		40 %		
	d rate according to SN 31		50 %		
	emand rate according to		5 000		
31920	ow demand rate accord	ing to SN	50 FIT		
ISO 13849		_			
device type according	to ISO 13849-1		3		
overdimensioning acc	ording to ISO 13849-2 n	necessary	Yes		
IEC 61508					
safety device type acc	ording to IEC 61508-2		Туре А		
 T1 value ● for proof test inte 61508 	rval or service life accord	ing to IEC	10 a		
Electrical Safety					
	the front according to I	EC 60529	IP20		
	e front according to IE0		finger-safe, for vertical co	ontact from the front	
Display					
display version for swite	hing status		Handle		
Approvals Certificates					
General Product App	oval				
			•	KC	
(m)	(6	UK	(JU)		FAL
					ΓΠΙ
ccc	EG-Konf.		UL		
General Product Ap-	For use in hazardous	locations	Test Certificates	3	Marine / Shipping
General Product Approval	For use in hazardous	locations	Test Certificates	3	Marine / Shipping
proval	For use in hazardous	locations			
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proval <u>BIS CRS</u>	For use in hazardous	IECE×	Special Test Cert	tific- <u>Type Test Certifi</u>	ic-
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proval <u>BIS CRS</u>	For use in hazardous	IECE×	Special Test Cert	tific- <u>Type Test Certifi</u>	ic- ti ABS
proval <u>BIS CRS</u>	For use in hazardous	IECE×	Special Test Cert	tific- <u>Type Test Certifi</u>	ic- ti Question ABS
proval BIS CRS Marine / Shipping	For use in hazardous	IECE×	Special Test Cert	tific- <u>Type Test Certifi</u>	ic- ti Question ABS
proval <u>BIS CRS</u>	ATEX	IECEx IECEx	Special Test Cert	tific- <u>Type Test Certifi</u>	ic- ti Question ABS
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proval BIS CRS Marine / Shipping	ATEX	IECEx IECEx	Special Test Cert	tific- <u>Type Test Certifi</u>	ic- ti Question ABS
proval BIS CRS Marine / Shipping	ATEX	IECEx IECEx LIRS	Special Test Cert ate	tific- <u>Type Test Certifi</u> ates/Test Repo	ic- ti Question ABS
proval BIS CRS Marine / Shipping	ATEX	IECEx IECEx IECEx IECEx IECEx IECEX	Special Test Cert ate	tific- <u>Type Test Certifi</u> ates/Test Repo	ic- ti Question ABS
proval BIS CRS Marine / Shipping	ATEX	IECEx IECEx LIRS	Special Test Cert ate	tific- <u>Type Test Certifi</u> ates/Test Repo	ic- t Other Miscellaneous
proval BIS CRS Marine / Shipping	ATEX	IECEx IECEx IECEx IECEx IECEx IECEX	Special Test Cert ate	tific- <u>Type Test Certifi</u> ates/Test Repo	ic- t Other <u>Miscellaneous</u>
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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=3RV2031-4JA10 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2031-4JA10 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4JA10

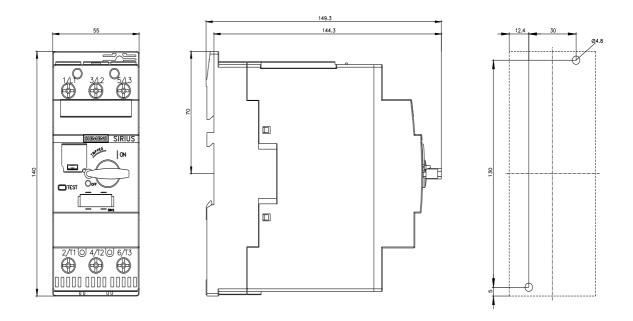
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2031-4JA10&lang=en

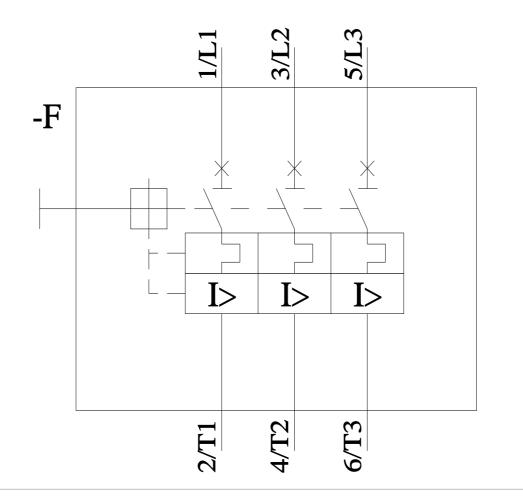
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4JA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4JA10&objecttype=14&gridview=view1





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5/16/2025 🖸