SIEMENS

Data sheet

3RV2032-4WA15



Circuit breaker size S2 for motor protection, CLASS 10 A-release 42...52 A N-release 741 A screw terminal increased switching capacity with transverse auxiliary switches 1 NO+1 NC

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	S2
size of contactor can be combined company-specific	S2
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	24.5 W
 at AC in hot operating state per pole 	8.2 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 Sinus
mechanical service life (operating cycles)	
 of the main contacts typical 	50 000
 of auxiliary contacts typical 	50 000
electrical endurance (operating cycles) typical	50 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/15/2014
SVHC substance name	Lead - 7439-92-1 Lead titanium zirconium oxide - 12626-81-2
Weight	1.177 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	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
global warming potential [CO2 eq] after end of life	-3.4 kg

Siemens Eco Profile (SED)	Siemens EcoTech
Siemens Eco Profile (SEP)	
Main circuit	2
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	42 52 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	52 A
operational current	
 at AC-3 at 400 V rated value 	52 A
• at AC-3e at 400 V rated value	52 A
operating power	
• at AC-3	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	45 kW
● at AC-3e	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	45 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
type of voltage for auxiliary and control circuit	AC/DC
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 230 V	0.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 60 V	0.15 A
• at 110 V	0 A
• at 125 V	0 A
• at 220 V	0 A
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	100 kA
at AC at 500 V rated value	10 KA
at AC at 500 V rated value at AC at 690 V rated value	6 kA
operating short-circuit current breaking capacity (Ics) at AC	100 kA
at 240 V rated value at 400 V rated value	
at 400 V rated value	50 kA
at 500 V rated value	5 kA
at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip unit	741 A

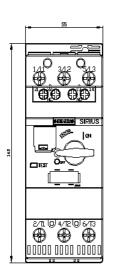
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	52.4
at 480 V rated value	52 A
at 600 V rated value	52 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	5 hp
— at 230 V rated value	10 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	15 hp
— at 220/230 V rated value	20 hp
— at 460/480 V rated value	40 hp
— at 575/600 V rated value	50 hp
contact rating of auxiliary contacts according to UL	C300 / R300
Short-circuit protection	
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 gG: 10 A, miniature circuit breaker C 6 A (short-circuit current Ik < 400 A)
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
	50 mm 50 mm
— downwards	
— downwards — upwards	50 mm
 downwards upwards at the side 	50 mm
 downwards upwards at the side for live parts at 400 V 	50 mm 10 mm
 downwards upwards at the side for live parts at 400 V downwards upwards 	50 mm 10 mm 50 mm 50 mm
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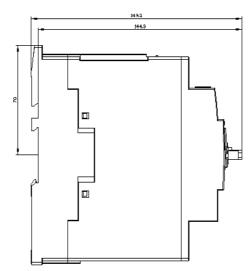
arrangement of electrical connectors for ma circuit	in current	Top and bottom			
type of connectable conductor cross-section	ıs				
for main contacts					
— solid or stranded		2x (1 3	35 mm²), 1x (1 50 r	nm²)	
- finely stranded with core end proce	ssing		25 mm²), 1x (1 35 r	,	
 for AWG cables for main contacts 	5	2x (1 2) finiti, (1 3) finiti, 2x (18 2), 1x (18 1)			
type of connectable conductor cross-section	15				
for auxiliary contacts					
— solid or stranded		2x (0.5	1.5 mm²), 2x (0.75 .	2.5 mm ²)	
— finely stranded with core end proce	esina				
 for AWG cables for auxiliary contacts 	sang	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
· · · · · · · · · · · · · · · · · · ·		2x (20 16), 2x (18 14)			
tightening torque		2 4 5 1	NI ma		
for main contacts with screw-type termina		3 4.5 1			
 for auxiliary contacts with screw-type terr 	ninals	0.8 1.2			
design of screwdriver shaft			r 5 to 6 mm		
size of the screwdriver tip		Pozidriv	size 2		
design of the thread of the connection screw	1				
 for main contacts 		M6			
 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 31 	920	40 %			
 with high demand rate according to SN 3 		50 %			
B10 value with high demand rate according		5 000			
		50 FIT			
failure rate [FIT] with low demand rate according to SN 31920		50111			
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		Туре А			
T1 value					
 for proof test interval or service life accor 61508 	ding to IEC	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	-	0	,		
display version for switching status		Handle			
Approvals Certificates	_	Tiandic			
General Product Approval					
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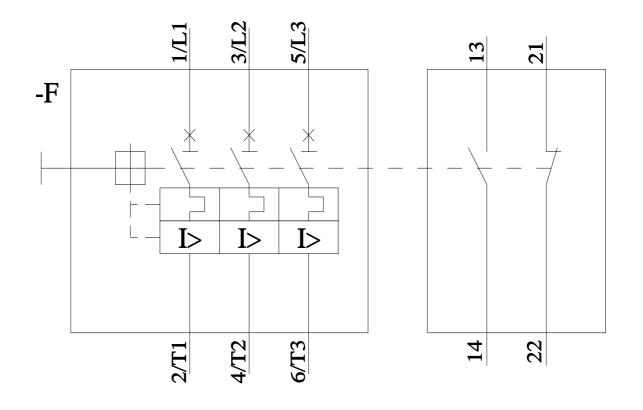
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Image database (produ	ct images, 2D dimen	sion drawings, 3D models, c de.aspx?mlfb=3RV2032-4W	device circuit diagrar	ns, EPLAN macros,)	
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Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2032-4WA15&objecttype=14&gridview=view1









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