## SIEMENS

## Data sheet

## 3RV2032-4RA10



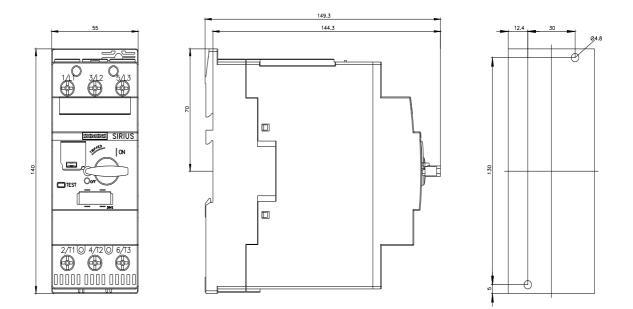
Circuit breaker size S2 for motor protection, CLASS 10 A-release 70...80 A N-release 1040 A screw terminal increased switching capacity

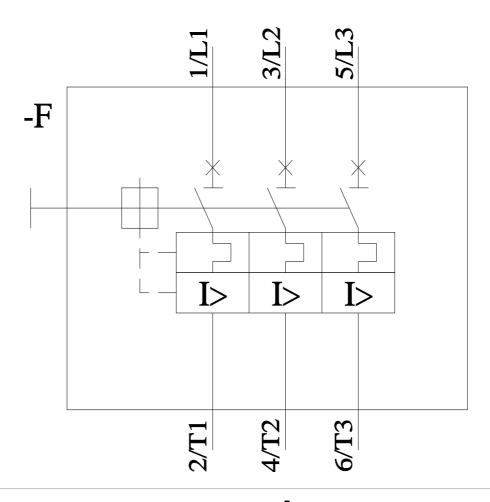
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S2
size of contactor can be combined company-specific	S2
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	29.5 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	9.8 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)	
<ul> <li>of the main contacts typical</li> </ul>	20 000
<ul> <li>of auxiliary contacts typical</li> </ul>	20 000
electrical endurance (operating cycles) typical	20 000
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-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	70 80 A
operating voltage	
rated value	20 690 V
• at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	80 A
operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	80 A

operating power	
• at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
operating frequency	
• at AC-3 maximum	15 1/h
Protective and monitoring functions	
product function	
<ul> <li>ground fault detection</li> </ul>	No
<ul> <li>phase failure detection</li> </ul>	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	
<ul> <li>at AC at 240 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 400 V rated value</li> </ul>	100 kA
• at AC at 500 V rated value	10 kA
• at AC at 690 V rated value	6 kA
operating short-circuit current breaking capacity (Ics) at AC	
• at 240 V rated value	100 kA
at 400 V rated value	50 kA
at 500 V rated value	8 kA
at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip unit	1 040 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	77 A
at 400 V rated value     at 600 V rated value	77 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
- at 110/120 V rated value	7.5 hp
— at 230 V rated value	15 hp
for 3-phase AC motor	05 hz
- at 200/208 V rated value	25 hp
- at 220/230 V rated value	30 hp
— at 460/480 V rated value	60 hp
— at 575/600 V rated value	75 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	pope required
	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	
<ul> <li>with side-by-side mounting at the side</li> </ul>	0 mm
<ul> <li>for grounded parts at 400 V</li> </ul>	
— 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					
<ul> <li>for grounded parts at 500 V</li> </ul>						
— downwards	50 mm					
— upwards	50 mm					
— at the side	10 mm					
<ul> <li>for live parts at 500 V</li> </ul>						
— downwards	50 mm					
— upwards	50 mm					
— at the side	10 mm					
<ul> <li>for grounded parts at 690 V</li> </ul>						
— downwards	50 mm					
— upwards	50 mm					
— at the side	10 mm					
<ul> <li>for live parts at 690 V</li> </ul>						
— 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)					
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 25 mm²), 1x (1 35 mm²)					
for AWG cables for main contacts	2x (1 2), 1x (1 8 1)					
tightening torque						
<ul> <li>for main contacts with screw-type terminals</li> </ul>	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						
B10 value						
<ul> <li>with high demand rate according to SN 31920</li> </ul>	5 000					
proportion of dangerous failures						
with low demand rate according to SN 31920	50 %					
with high demand rate according to SN 31920	50 %					
failure rate [FIT]						
with low demand rate according to SN 31920	50 FIT					
T1 value for proof test interval or service life according to IEC	10 a					
61508	IP20					
protection class IP on the front according to IEC 60529						
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front					
display version for switching status	Handle					
Certificates/ approvals		English to the				
General Product Approval		For use in hazard- ous locations				
Confirmation		IFCE				
(m.) (v.	) FAI					
UUL		IECEx				
CCC		IECEx				
CCC		IECEx				
For use in hazard-	Test Certificates	IECEx Marine / Shipping				

K ATEX	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS
Marine / Shipping					other
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other	Railway				
	Vibration and Shock	<u>Confirmation</u>			
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