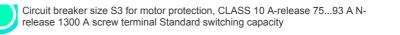
## SIEMENS

## Data sheet

## 3RV2041-4YA10



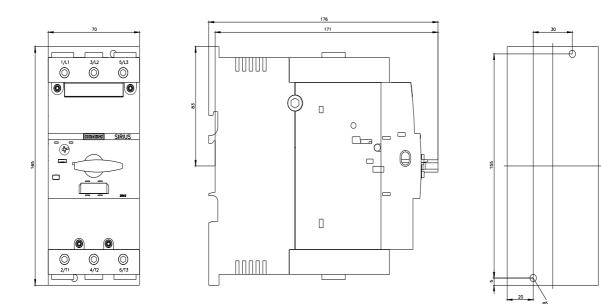


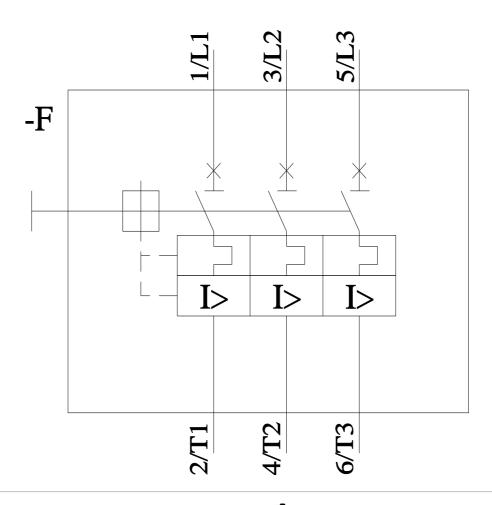
40 49	
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S3
size of contactor can be combined company-specific	S3
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	39 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	13 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)	
<ul> <li>of the main contacts typical</li> </ul>	25 000
<ul> <li>of auxiliary contacts typical</li> </ul>	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
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 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	75 93 A
operating voltage	
rated value	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz

	-
operational current rated value	93 A
operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	93 A
<ul> <li>at AC-3e at 400 V rated value</li> </ul>	93 A
operating power	
• at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	90 kW
• at AC-3e	
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	90 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
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
<ul> <li>at AC at 400 V rated value</li> </ul>	65 kA
<ul> <li>at AC at 500 V rated value</li> </ul>	8 kA
at AC at 690 V rated value	5 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	3 kA
response value current of instantaneous short-circuit trip unit	1 300 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	93 A
• at 600 V rated value	93 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	7.5 hp
— at 230 V rated value	20 hp
• for 3-phase AC motor	
- at 200/208 V rated value	30 hp
— at 220/230 V rated value	40 hp
— at 460/480 V rated value	75 hp
— at 575/600 V rated value	100 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
Installation/ mounting/ dimensions	
	2014
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	165 mm
width	70 mm
depth	176 mm
required spacing	
• with side-by-side mounting at the side	0 mm
<ul> <li>for grounded parts at 400 V</li> </ul>	

— downwards	70 mm
— upwards	70 mm
— at the side	10 mm
<ul> <li>for live parts at 400 V</li> </ul>	
— downwards	70 mm
— upwards	70 mm
— at the side	10 mm
<ul> <li>for grounded parts at 500 V</li> </ul>	
— downwards	110 mm
— upwards	110 mm
— at the side	10 mm
<ul> <li>for live parts at 500 V</li> </ul>	
— downwards	110 mm
— upwards	110 mm
— at the side	10 mm
<ul> <li>for grounded parts at 690 V</li> </ul>	
— downwards	150 mm
— upwards	150 mm
— at the side	30 mm
• for live parts at 690 V	
downwards	150 mm
	150 mm
— upwards	
— at the side	30 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	
<ul> <li>for main contacts</li> </ul>	
	$0 + (0.5 + 40.5)^2$
— solid	2x (2.5 16 mm²)
— solid — solid or stranded	2x (2.5 16 mm <sup>2</sup> ) 2x (2,5 50 mm <sup>2</sup> ), 1x (10 70 mm <sup>2</sup> )
— solid or stranded	2x (2,5 50 mm <sup>2</sup> ), 1x (10 70 mm <sup>2</sup> )
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul>	2x (2,5 50 mm <sup>2</sup> ), 1x (10 70 mm <sup>2</sup> ) 2x (2.5 35 mm <sup>2</sup> ), 1x (2.5 50 mm <sup>2</sup> )
— solid or stranded     — finely stranded with core end processing     — finely stranded without core end processing     tightening torque	2x (2,5 50 mm <sup>2</sup> ), 1x (10 70 mm <sup>2</sup> ) 2x (2.5 35 mm <sup>2</sup> ), 1x (2.5 50 mm <sup>2</sup> )
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> </ul>	2x (2,5 50 mm <sup>2</sup> ), 1x (10 70 mm <sup>2</sup> ) 2x (2.5 35 mm <sup>2</sup> ), 1x (2.5 50 mm <sup>2</sup> ) 2x (10 35 mm <sup>2</sup> ), 1x (10 50 mm <sup>2</sup> )
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> <li>tightening torque</li> <li>for main contacts for ring cable lug</li> </ul>	2x (2,5 50 mm <sup>2</sup> ), 1x (10 70 mm <sup>2</sup> ) 2x (2.5 35 mm <sup>2</sup> ), 1x (2.5 50 mm <sup>2</sup> ) 2x (10 35 mm <sup>2</sup> ), 1x (10 50 mm <sup>2</sup> ) 4.5 6 N·m
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> <li>tightening torque</li> <li>for main contacts for ring cable lug</li> <li>outer diameter of the usable ring cable lug maximum</li> <li>tightening torque</li> </ul>	2x (2,5 50 mm <sup>2</sup> ), 1x (10 70 mm <sup>2</sup> ) 2x (2.5 35 mm <sup>2</sup> ), 1x (2.5 50 mm <sup>2</sup> ) 2x (10 35 mm <sup>2</sup> ), 1x (10 50 mm <sup>2</sup> ) 4.5 6 N·m 19 mm
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<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>tightening torque         <ul> <li>for main contacts for ring cable lug</li> <li>outer diameter of the usable ring cable lug maximum</li> <li>tightening torque                 <ul> <li>for main contacts with screw-type terminals</li> </ul> </li> </ul> </li> <li>Safety related data         <ul> <li>product function suitable for safety function</li> </ul> </li> <ul> <li>safety-related switching on</li> <li>safety-related switching OFF</li> </ul> <ul> <li>service life maximum</li> <li>test wear-related service life necessary</li> <li>proportion of dangerous failures                       <ul></ul></li></ul></ul>	2x (2,5 50 mm²), 1x (10 70 mm²) 2x (2,5 35 mm²), 1x (2,5 50 mm²) 2x (10 35 mm²), 1x (10 50 mm²) 4.5 6 N·m 19 mm 4.5 6 N·m Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT 3 Yes

protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529			IP20 finger-safe, for vertical contact from the front				
Display							
display version for switching status			ndle				
Approvals Certificates							
General Product Appro	oval						
CE EG-Konf.	UK CA		<u>Confirmation</u>	UL JL	KC		
General Product Approval	For use in hazardous	locations	Test Certificates		Marine / Shipping		
EHC	ATEX ATEX	IECE×	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS		
Marine / Shipping					other		
BUREAU VERITAS		Lloyd's Register urs	PRS	RINA	<u>Miscellaneous</u>		
other		Railway		Environment			
<u>Confirmation</u>		<u>Confirmation</u>	Special Test Certific- ate	EPD	Siemens EcoTech		
Environment							
<u>Environmental Con-</u> <u>firmations</u>							
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=3RV2041-4YA10							
Cax online generator							
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2041-4YA10 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RV2041-4YA10 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2041-4YA10⟨=en Characteristic: Tripping characteristics, I <sup>a</sup> t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2041-4YA10/char Further characteristics (e.g. electrical endurance, switching frequency)							





4/12/2024 🖸

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