## SIEMENS

## Data sheet

## 3RV2041-4FA10



Circuit breaker size S3 for motor protection, CLASS 10 A-release 28...40 A N-release 520 A screw terminal Standard switching capacity

- 14m Pri	
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>	23 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	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
<ul> <li>of auxiliary contacts typical</li> </ul>	25 000
electrical endurance (operating cycles) typical	25 000
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
<ul> <li>during storage</li> </ul>	-50 +80 °C
<ul> <li>during transport</li> </ul>	-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	28 40 A
operating voltage	
<ul> <li>rated value</li> </ul>	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	40 A

anarational autrent	
<ul> <li>operational current</li> <li>at AC-3 at 400 V rated value</li> </ul>	40 A
<ul> <li>at AC-3 at 400 V rated value</li> <li>at AC-3e at 400 V rated value</li> </ul>	40 A 40 A
operating power	40 A
• 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
Protective and monitoring functions	
product function	
ground fault detection	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>	65 kA
<ul> <li>at AC at 500 V rated value</li> </ul>	12 kA
<ul> <li>at AC at 690 V rated value</li> </ul>	6 kA
operating short-circuit current breaking capacity (Ics) at AC	
<ul> <li>at 240 V rated value</li> </ul>	100 000 A
• at 400 V rated value	30 000 kA
<ul> <li>at 500 V rated value</li> </ul>	6 000 kA
response value current of instantaneous short-circuit trip unit	520 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	40 A
at 600 V rated value	40 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp
• for 3-phase AC motor	
— at 200/208 V rated value	15 hp
— at 220/230 V rated value	15 hp
— at 460/480 V rated value	30 hp
— at 575/600 V rated value	40 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
Installation/ mounting/ dimensions	
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	
<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	70 mm
— upwards	70 mm

with screw-type terminals rate according to SN 31920 us failures rate according to SN 31920 rate according to SN 31920 rate according to SN 31920 rate according to IEC e front according to IEC 60529 hing status roval	5 000 50 % 50 % 10 a IP20 finger-safe, for vertical contact from the front Handle KC EFFC	For use in hazard- ous locations
rate according to SN 31920 us failures rate according to SN 31920 rate according to SN 31920 iterval or service life according to the front according to IEC e front according to IEC 60529 hing status	5 000 50 % 50 % 10 a IP20 finger-safe, for vertical contact from the front	
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rate according to SN 31920 us failures rate according to SN 31920 rate according to SN 31920	5 000 50 % 50 %	
rate according to SN 31920 us failures rate according to SN 31920	5 000 50 %	
rate according to SN 31920 us failures	5 000	
rate according to SN 31920		
with screw-type terminals	4.5 6 N°III	
with screw-type terminals	4.5 0 19/11	
	4.5 6 N·m	
sable ring cable lug maximum	19 11/11	
ed without core end processing	2x (10 35 mm²), 1x (10 50 mm²)	
ed with core end processing	2x (2.5 35 mm²), 1x (2.5 50 mm²)	
ded		
	$2x (2.5 - 16 \text{ mm}^2)$	
onductor cross-sections		
ection		
	30 mm	
	150 mm	
υv	150 mm	
0.1/	30 mm	
	150 mm	
	150 mm	
s at 690 V		
	110 mm	
0 V		
	10 mm	
	110 mm	
5 at 500 V	110 mm	
	10 mm	
	70 mm	
	70 mm	
0 V	10 mm	
	ection rcuit cal connectors for main current nductor cross-sections ded d with core end processing d without core end processing for ring cable lug sable ring cable lug maximum	70 mm         70 mm         70 mm         70 mm         70 mm         10 mm         110 mm         110 mm         10 mm         0 V         110 mm         10 mm         0 V         110 mm         10 mm         30 mm         0 V         150 mm         30 mm         0 V         150 mm         30 mm         0 V         150 mm         150 mm         30 mm         0 V         150 mm         150 mm         30 mm         0 mm         10 mm         10 mm         10 mm         150 mm         150 mm         10 mm     <

IECEx	
IECEx	





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

Type Test Certificates/Test Report



Marine / Shipping





LRS





other

Railway

**Confirmation** 

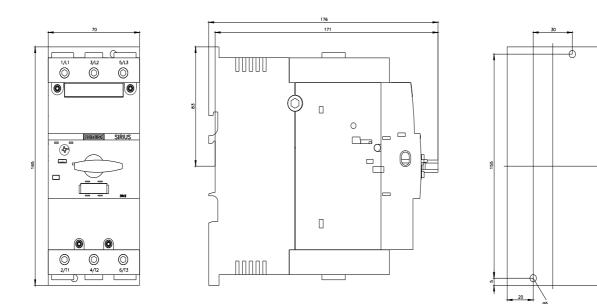


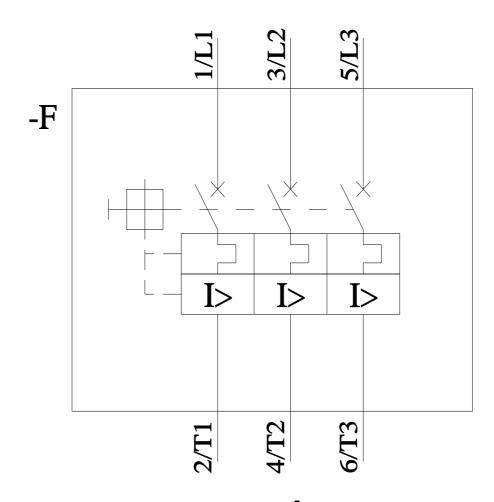
Vibration and Shock

**Confirmation** 

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=3RV2041-4FA10
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2041-4FA10
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3RV2041-4FA10
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2041-4FA10⟨=en
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3RV2041-4FA10/char
Further characteristics (e.g. electrical endurance, switching frequency)

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2041-4FA10&objecttype=14&gridview=view1





## last modified:

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