## **SIEMENS**

Data sheet 3RV2041-4KA10



Circuit breaker size S3 for motor protection, CLASS 10 A-release 57...75 A N-release 975 A screw terminal Standard 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	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>	38 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	12.7 W
insulation voltage with degree of pollution 3 at AC rated value	1 000 V
surge voltage resistance rated value	8 kV
maximum permissible voltage for safe isolation in networks with grounded star point	
<ul> <li>between main and auxiliary circuit</li> </ul>	400 V
<ul> <li>between main and auxiliary circuit</li> </ul>	400 V
shock resistance acc. to IEC 60068-2-27	25g / 11 ms Sinus
mechanical service life (switching cycles)	
<ul> <li>of the main contacts typical</li> </ul>	25 000
of auxiliary contacts typical	25 000
electrical endurance (switching 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 acc. to IEC 81346-2	Q
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
<ul> <li>ambient temperature during operation</li> </ul>	-20 +60 °C
<ul> <li>ambient temperature during storage</li> </ul>	-50 +80 °C
<ul> <li>ambient temperature during transport</li> </ul>	-50 +80 °C
temperature compensation	-20 +60 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
number of poles for main current circuit	

690 V		
690 V		
50 60 Hz		
75 A		
75 A		
22 000 W		
37 000 W		
45 000 W		
55 000 W		
15 1/h		
No		
Yes		
CLASS 10		
thermal		
100 kA		
30 kA		
4 kA		
3 kA		
100 kA		
65 kA		
8 kA		
5 kA		
975 A		
75 A		
75 A		
7.5 hp		
15 hp		
25 hp		
30 hp		
60 hp		
75 hp		
Yes		
magnetic		
any		
screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715		
165 mm		
70 mm		
176 mm		
70 mm		



— at the side	10 mm	
• for live parts at 400 V		
— 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	
— backwards	0 mm	
— at the side	30 mm	
— forwards	0 mm	
<ul> <li>for live parts at 690 V</li> </ul>		
— downwards	150 mm	
— upwards	150 mm	
— backwards	0 mm	
— at the side	30 mm	
— forwards	0 mm	
Connections/ Terminals		
product function removable terminal for auxiliary and control circuit	No	
type of electrical connection		
for main current circuit	screw-type terminals	
arrangement of electrical connectors for main current	Top and bottom	
circuit	·	
type of connectable conductor cross-sections		
<ul> <li>for main contacts</li> </ul>		
— solid	2x (2.5 16 mm²)	
<ul><li>— solid or stranded</li></ul>	2x (2,5 50 mm²), 1x (10 70 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (2.5 35 mm²), 1x (2.5 50 mm²)	
— finely stranded without core end processing	2x (10 35 mm²), 1x (10 50 mm²)	
tightening torque		
— for main contacts for ring cable lug	4.5 6 N·m	
outer diameter of the usable ring cable lug maximum	19 mm	
<ul> <li>tightening torque for main contacts with screw-type terminals</li> </ul>	4.5 6 N·m	
Safety related data		
B10 value		
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	5 000	
proportion of dangerous failures		
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	50 %	
with high demand rate acc. to SN 31920	50 %	
T1 value for proof test interval or service life acc. to IEC 61508	10 y	
protection class IP on the front acc. to IEC 60529	IP20	
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front	
display version for switching status	Handle	
Certificates/ approvals		
General Product Approval		For use in hazardous locations













For use in
hazardous
locations

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





**Miscellaneous** 

**Special Test** <u>Certificate</u>

**Type Test** Certificates/Test Report



## Marine / Shipping













other

Railway

Confirmation

Confirmation



Vibration and Shock

Confirmation

## Further information

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=3RV2041-4KA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2041-4KA10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RV2041-4KA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2041-4KA10&lang=en

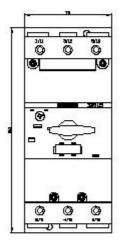
Characteristic: Tripping characteristics, I2t, Let-through current

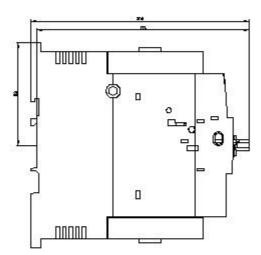
https://support.industry.siemens.com/cs/ww/en/ps/3RV2041-4KA10/char

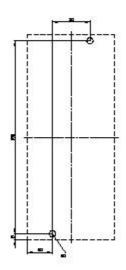
Further characteristics (e.g. electrical endurance, switching frequency)

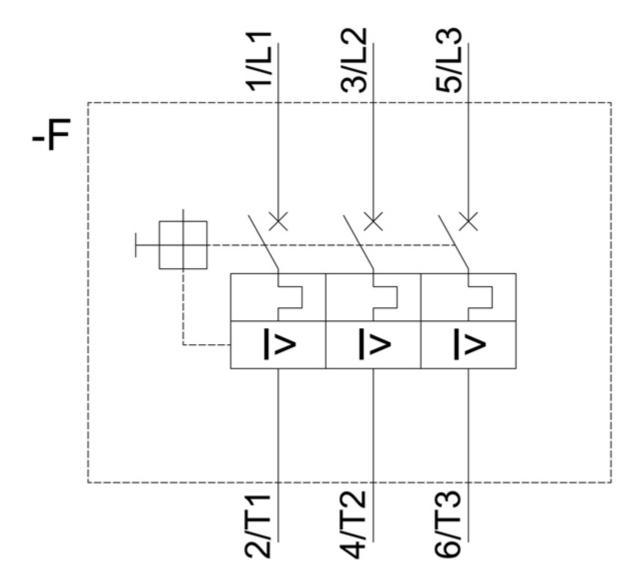
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2041-4KA10&objecttype=14&gridview=view1











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