## SIEMENS

## Data sheet

## 3RV2142-4KA10



Circuit breaker size S3 for motor protection CLASS 10 with overload relay function A-release 57...75 A N-release 975 A screw terminal Increased switching capacity 100 kA



product brand name	SIRIUS			
product designation	Circuit breaker			
design of the product	For motor protection with overload relay function			
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				
at AC in hot operating state	38 W			
at AC in hot operating state per pole	12.7 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)				
<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			
Weight	2.301 kg			
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 %			
Environmental footprint				
global warming potential [CO2 eq] total	283.24 kg			
global warming potential [CO2 eq] during manufacturing	18.5 kg			
global warming potential [CO2 eq] during sales	1.24 kg			
global warming potential [CO2 eq] during operation	265 kg			
global warming potential [CO2 eq] after end of life	-1.5 kg			
Siemens Eco Profile (SEP)	Siemens EcoTech			
Main circuit				

	2			
number of poles for main current circuit	3			
adjustable current response value current of the current- dependent overload release	57 75 A			
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	75 A			
operational current				
at AC-3 at 400 V rated value	75 A			
• at AC-3e at 400 V rated value	75 A			
operating power				
• at AC-3				
— at 230 V rated value	22 kW			
— at 400 V rated value	22 KW 37 KW			
— at 500 V rated value	45 kW			
— at 600 V rated value	45 KW			
• at AC-3e	55 KW			
<ul> <li>at AC-Se</li> <li>— at 230 V rated value</li> </ul>	22 kW			
— at 200 V rated value — at 400 V rated value	22 kW 37 kW			
	37 kW 45 kW			
— at 500 V rated value				
— at 690 V rated value	55 kW			
operating frequency				
• at AC-3 maximum	15 1/h			
• at AC-3e maximum	15 1/h			
Auxiliary circuit				
number of NC contacts for auxiliary contacts				
• note	1			
number of NO contacts for auxiliary contacts				
• note	1			
note Protective and monitoring functions	1			
note Protective and monitoring functions product function				
note Protective and monitoring functions product function     ground fault detection	No			
note Protective and monitoring functions product function     ground fault detection     phase failure detection	No Yes			
note Protective and monitoring functions product function     ground fault detection     phase failure detection trip class	No Yes CLASS 10			
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<ul> <li>note</li> <li>Protective and monitoring functions</li> <li>product function <ul> <li>ground fault detection</li> <li>phase failure detection</li> </ul> </li> <li>trip class</li> <li>design of the overload release</li> <li>maximum short-circuit current breaking capacity (Icu) <ul> <li>at AC at 240 V rated value</li> <li>at AC at 400 V rated value</li> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>at AC at 690 V rated value</li> <li>at 4C at 690 V rated value</li> <li>at 4C at 690 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 480 V rated value</li> <li>at 600 V rated value</li> </ul> </li> </ul>	No           Yes           CLASS 10           thermal           100 kA           50 kA           5 kA           3 kA           975 A           75 A           75 A           75 A           75 hp           15 hp           25 hp			
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Short-circuit protection	Vec			
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	90 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			
— 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			
— backwards	0 mm			
— at the side	30 mm			
— forwards	0 mm			
● for live parts at 690 V				
— downwards	150 mm			
— upwards	150 mm			
— backwards	0 mm			
— at the side	30 mm			
— forwards	0 mm			
Connections/ Terminals				
type of electrical connection				
for main current circuit	screw-type terminals			
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals			
arrangement of electrical connectors for main current	Top and bottom			
circuit				
type of connectable conductor cross-sections				
for main contacts				
— solid	2x (2.5 16 mm²)			
— solid or stranded	2x (2,5 50 mm <sup>2</sup> ), 1x (10 70 mm <sup>2</sup> )			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (2.5 35 mm <sup>2</sup> ), 1x (2.5 50 mm <sup>2</sup> )			
<ul> <li>finely stranded without core end processing</li> </ul>	2x (10 35 mm <sup>2</sup> ), 1x (10 50 mm <sup>2</sup> )			
type of connectable conductor cross-sections				
for auxiliary contacts				
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (0.5 1.5 mm <sup>-</sup> ), 2x (0.75 2.5 mm <sup>-</sup> ) 2x (20 16), 2x (18 14)			
tightening torque				
<ul> <li>for main contacts for ring cable lug</li> </ul>	4.5 6 N·m			
outer diameter of the usable ring cable lug maximum	19 mm			
tightening torque				
for main contacts with screw-type terminals	4.5 6 N·m			
<ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m			

design of the thread of the connection screw						
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3					
Safety related data						
product function suitable for safety function	Yes					
suitability for use						
<ul> <li>safety-related switching on</li> </ul>	No					
safety-related switching OFF Ye		Yes				
service life maximum						
test wear-related service life necessary						
proportion of dangerous failures						
• with low demand rate according to SN 31920 40 %		40 %				
• with high demand rate according to SN 31920 50 °		50 %				
		5 000				
		50 FIT				
31920						
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	A				
T1 value						
<ul> <li>for proof test interval or service life according to IEC 61508</li> </ul>	10 a	0 a				
Electrical Safety						
protection class IP on the front according to IEC 60529	IP20					
touch protection on the front according to IEC 60529	finger	finger-safe, for vertical contact from the front				
Display						
display version for switching status	Handl	e				
Approvals Certificates						
General Product Approval						
Confirmation CCC	E nf.	UK CA		<u>KC</u>		
General Product Approval Test Certificates		Marine / Shipping				
Type Test Certific-     Special Test       ates/Test Report     ate		ABS	B U REAU VERITAS			
Marine / Shipping		other				
Lis Prs Rind		<u>Miscellaneous</u>	<u>Confirmation</u>			
Railway Environme	nt					
Special Test Certific- ate	D	Siemens EcoTech	Environmental Con- firmations			
Further information						
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875	5					
11120.//300001.inuu31/9.31011013.0011/03/WW/01/VICW/1030130/3	<u>,</u>					

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=3RV2142-4KA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2142-4KA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2142-4KA10

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

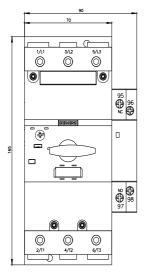
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2142-4KA10&lang=en

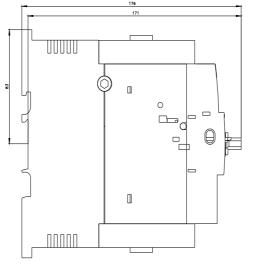
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

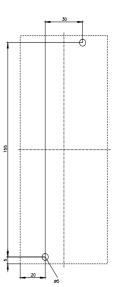
https://support.industry.siemens.com/cs/ww/en/ps/3RV2142-4KA10/char

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

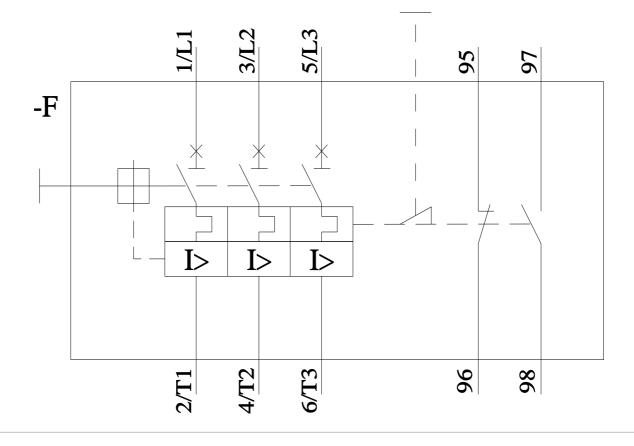
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2142-4KA10&objecttype=14&gridview=view1







TEST



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11/6/2024 🖸