## SIEMENS

## Data sheet

## 3RV2042-4FA10



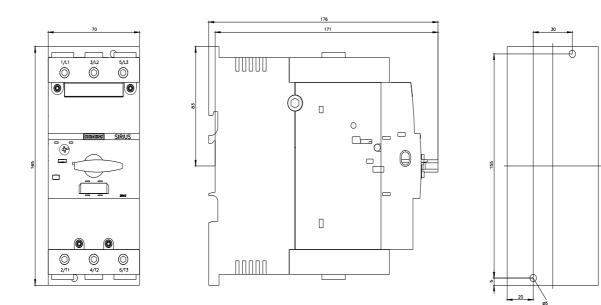
Circuit breaker size S3 for motor protection, CLASS 10 A-release 28...40 A N-release 520 A screw terminal Increased switching capacity 100 kA  $\,$ 

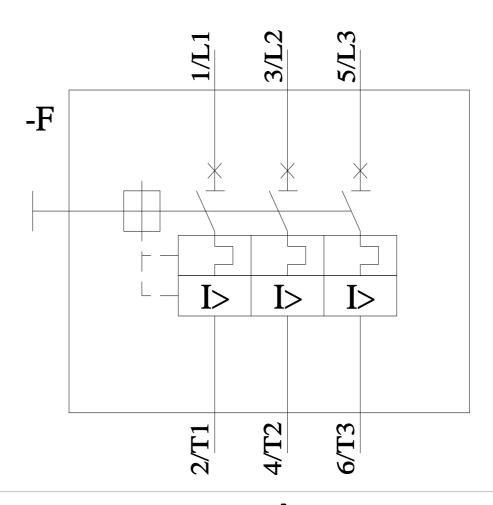
product brand name	SIRIUS		
product designation	Circuit breaker		
design of the product	For motor protection		
product type designation	3RV2		
General technical data			
size of the circuit-breaker	S3		
size of contactor can be combined company-specific	S3		
product extension auxiliary switch	Yes		
power 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)			
<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			
<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	28 40 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	40 A
operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	40 A
<ul> <li>at AC-3e at 400 V rated value</li> </ul>	40 A
operating power	
• 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	
	Νο
ground fault detection	Yes
phase failure detection	
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	400   4
• at AC at 240 V rated value	100 kA
• at AC at 400 V rated value	100 kA
at AC at 500 V rated value	18 kA
at AC at 690 V rated value	12 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	9 kA
• at 690 V rated value	6 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]	
<ul> <li>for single-phase AC motor</li> </ul>	
— 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	
	201/
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			
— 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> )			
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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> <li>safety related data</li></ul></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> ) 4.5 6 N·m 19 mm 4.5 6 N·m Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT			
<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> <li>safety-related data</li> <li>product function suitable for safety function</li> <li>safety-related switching on                     <ul> <li>safety-related switching OFF</li></ul></li></ul></li></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			
<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			

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