## SIEMENS

## Data sheet

## 3RV2342-4RC10



Circuit breaker size S3 for starter combination Rated current 84 A N-release 1170 A screw terminal Increased switching capacity 100 kA  $\,$ 

0.0 1.00	
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For starter combinations
product type designation	3RV2
General technical data	
size of the circuit-breaker	\$3
size of contactor can be combined company-specific	\$3
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	34 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	11.3 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	Blei - 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
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	84 A
operational current	
• at AC-3 at 400 V rated value	84 A
• at AC-3e at 400 V rated value	84 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	75 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	75 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Protective and monitoring functions	
product function	
<ul> <li>ground fault detection</li> </ul>	No
<ul> <li>phase failure detection</li> </ul>	No
design of the overload release	thermal
maximum short-circuit current breaking capacity (lcu)	
• 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	10 kA
• at AC at 690 V rated value	6 kA
operating short-circuit current breaking capacity (Ics) at AC	
<ul> <li>at 240 V rated value</li> </ul>	100 kA
<ul> <li>at 400 V rated value</li> </ul>	50 kA
• at 500 V rated value	5 kA
• at 690 V rated value	3 kA
response value current of instantaneous short-circuit trip unit	1 170 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul> <li>at 480 V rated value</li> </ul>	84 A
• at 600 V rated value	84 A
yielded mechanical performance [hp]	
for single-phase AC motor	
	7.5 hp
• for single-phase AC motor	7.5 hp 15 hp
• for single-phase AC motor — at 110/120 V rated value	
<ul> <li>for single-phase AC motor</li> <li>— at 110/120 V rated value</li> <li>— at 230 V rated value</li> </ul>	
<ul> <li>for single-phase AC motor</li> <li>— at 110/120 V rated value</li> <li>— at 230 V rated value</li> <li>for 3-phase AC motor</li> </ul>	15 hp
<ul> <li>for single-phase AC motor</li> <li>— at 110/120 V rated value</li> <li>— at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>— at 200/208 V rated value</li> </ul>	15 hp 25 hp
<ul> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> <li>for 3-phase AC motor <ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> </ul> </li> </ul>	15 hp 25 hp 30 hp
<ul> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> <li>for 3-phase AC motor <ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> </ul> </li> </ul>	15 hp 25 hp 30 hp 60 hp
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<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Short-circuit protection         <ul> <li>product function short circuit protection</li> </ul> </li> </ul>	15 hp 25 hp 30 hp 60 hp 75 hp Yes
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Short-circuit protection         <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> </ul> </li> </ul>	15 hp 25 hp 30 hp 60 hp 75 hp Yes
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Short-circuit protection         <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> </ul> </li> <li>Installation/ mounting/ dimensions</li> </ul>	15 hp 25 hp 30 hp 60 hp 75 hp Yes magnetic
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Short-circuit protection         <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> </ul> </li> </ul>	15 hp 25 hp 30 hp 60 hp 75 hp Yes magnetic any
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Short-circuit protection         <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> </ul> </li> <li>Installation/ mounting/ dimensions         <ul> <li>mounting position</li> <li>fastening method</li> </ul> </li> </ul>	15 hp 25 hp 30 hp 60 hp 75 hp Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Short-circuit protection         <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> </ul> </li> <li>Installation/ mounting/ dimensions         <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> </ul> </li> </ul>	15 hp 25 hp 30 hp 60 hp 75 hp Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 165 mm
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Short-circuit protection         <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> </ul> </li> <li>Installation/ mounting/ dimensions         <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> </ul> </li> </ul>	15 hp 25 hp 30 hp 60 hp 75 hp Yes magnetic Any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 165 mm 70 mm
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Short-circuit protection         <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> </ul> </li> <li>Installation/ mounting/ dimensions     <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> </ul> </li> </ul>	15 hp 25 hp 30 hp 60 hp 75 hp Yes magnetic Any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 165 mm 70 mm
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Short-circuit protection         <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> </ul> </li> <li>Installation/ mounting/ dimensions     <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing</li> </ul> </li> </ul>	15 hp 25 hp 30 hp 60 hp 75 hp Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 165 mm 70 mm 176 mm
<ul> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> <li>for 3-phase AC motor <ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Short-circuit protection <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> </ul> </li> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing</li> <li>with side-by-side mounting at the side</li> </ul> </li> </ul>	15 hp 25 hp 30 hp 60 hp 75 hp Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 165 mm 70 mm 176 mm
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Short-circuit protection         <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> </ul> </li> <li>Installation/ mounting/ dimensions         <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing                 <ul> <li>with side-by-side mounting at the side</li> <li>for grounded parts at 400 V</li> </ul> </li> </ul> </li> </ul>	15 hp 25 hp 30 hp 60 hp 75 hp Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 165 mm 70 mm 176 mm 0 mm
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<ul> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> <li>for 3-phase AC motor <ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Short-circuit protection <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> </ul> </li> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing</li> <li>with side-by-side mounting at the side</li> <li>for grounded parts at 400 V</li> <li>downwards</li> <li>upwards</li> <li>at the side</li> </ul> </li> </ul>	15 hp 25 hp 30 hp 60 hp 75 hp Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 165 mm 70 mm 176 mm 70 mm 70 mm
<ul> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> <li>for 3-phase AC motor <ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Short-circuit protection <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> </ul> </li> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> <li>fastening method</li> <li>height <ul> <li>width</li> <li>depth</li> </ul> </li> <li>required spacing <ul> <li>with side-by-side mounting at the side</li> <li>for grounded parts at 400 V <ul> <li>downwards</li> <li>upwards</li> <li>at the side</li> <li>for live parts at 400 V</li> </ul> </li> </ul></li></ul></li></ul>	15 hp 25 hp 30 hp 60 hp 75 hp Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 165 mm 70 mm 176 mm 70 mm 70 mm 70 mm 70 mm 70 mm 70 mm

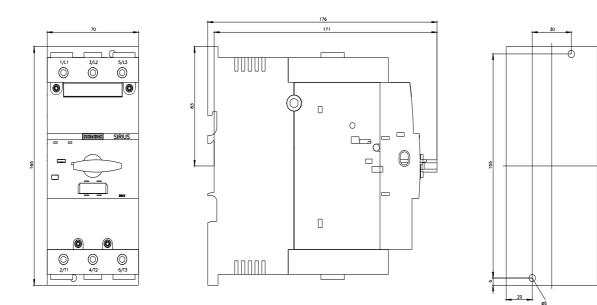
— at the side	10 mm			
<ul> <li>for grounded parts at 500 V</li> </ul>				
— downwards	110 mm			
— upwards	110 mm			
— at the side	10 mm			
<ul> <li>for live parts at 500 V</li> </ul>				
— downwards	110 mm			
— upwards	110 mm			
— at the side	10 mm			
<ul> <li>for grounded parts at 690 V</li> </ul>				
— 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			
arrangement of electrical connectors for main current circuit	Top and bottom			
type of connectable conductor cross-sections				
for main contacts				
— solid	2x (2.5 16 mm²)			
— solid or stranded	2x (2,5 50 mm²), 1x (10 70 mm²)			
<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 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			
tightening torque				
<ul> <li>for main contacts with screw-type terminals</li> </ul>	4.5 6 N·m			
Safety related data				
proportion of dangerous failures	50.9/			
with low demand rate according to SN 31920	50 %			
with high demand rate according to SN 31920	50 %			
B10 value with high demand rate according to SN 31920 IEC 61508	5 000			
T1 value for proof test interval or service life according to IEC 61508	10 a			
Electrical Safety				
protection class IP on the front according to IEC 60529	IP20			
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front			
display version for switching status	Handle			
Approvals Certificates				

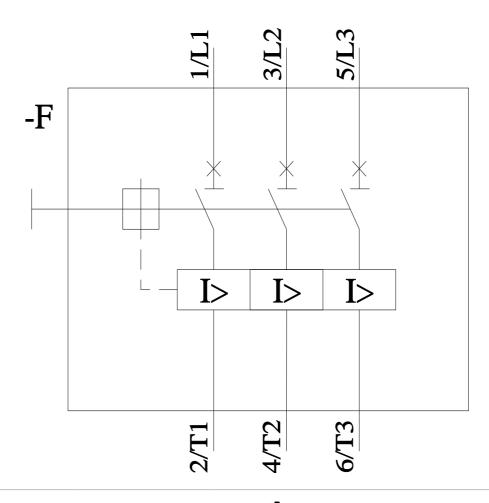
 General Product Approval
 Test Certificates
 Marine / Shipping

UL

EHC	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS	BUREAU VERITAS	
Marine / Shipping			other		
Lloyd's Register us	PRS	RINA	<u>Miscellaneous</u>	<u>Confirmation</u>	DE VDE
Railway	Environment				
<u>Confirmation</u>	EPD Typ II/III (with life cylce assessment)				
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