SIEMENS

Data sheet

3RV2342-4MC10



Circuit breaker size S3 for starter combination Rated current 100 A N-release 1300 A screw terminal Increased switching capacity 100 kA $\,$

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	S3
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	44 W
 at AC in hot operating state per pole 	14.7 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
 of auxiliary contacts typical 	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	
 during operation 	-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	
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	100 A
operational current	
 at AC-3 at 400 V rated value 	100 A
• at AC-3e at 400 V rated value	100 A
operating power	

• at AC-3	
— at 230 V rated value	30 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	90 kW
• at AC-3e	
— at 230 V rated value	30 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	90 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
 phase failure detection 	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	
 at 240 V rated value 	100 kA
 at 400 V rated value 	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	1 300 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	100 A
at 600 V rated value	100 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	7.5 hp
— at 110/120 V rated value — at 230 V rated value	7.5 hp 20 hp
— at 230 V rated value	
— at 230 V rated valuefor 3-phase AC motor	20 hp
 — at 230 V rated value for 3-phase AC motor — at 200/208 V rated value 	20 hp 30 hp
 at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value 	20 hp 30 hp 40 hp
 at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value 	20 hp 30 hp 40 hp 75 hp
 at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value 	20 hp 30 hp 40 hp 75 hp
 at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection	20 hp 30 hp 40 hp 75 hp 100 hp
 at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection product function short circuit protection	20 hp 30 hp 40 hp 75 hp 100 hp Yes
 at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip	20 hp 30 hp 40 hp 75 hp 100 hp Yes
 at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions 	20 hp 30 hp 40 hp 75 hp 100 hp Yes magnetic
 at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position 	20 hp 30 hp 40 hp 75 hp 100 hp Yes magnetic any
 at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method 	20 hp 30 hp 40 hp 75 hp 100 hp Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
 at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height 	20 hp 30 hp 40 hp 75 hp 100 hp Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 165 mm
 at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width 	20 hp 30 hp 40 hp 75 hp 100 hp Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 165 mm 70 mm
 at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth 	20 hp 30 hp 40 hp 75 hp 100 hp Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 165 mm 70 mm
 at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing 	20 hp 30 hp 40 hp 75 hp 100 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
 at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting at the side 	20 hp 30 hp 40 hp 75 hp 100 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
 at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting at the side for grounded parts at 400 V 	20 hp 30 hp 40 hp 75 hp 100 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
 at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting at the side for grounded parts at 400 V downwards 	20 hp 30 hp 40 hp 75 hp 100 hp Yes magnetic 40 mm 70 mm 70 mm 70 mm 70 mm
 at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting at the side for grounded parts at 400 V downwards upwards 	20 hp 30 hp 40 hp 75 hp 100 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
 at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting at the side for grounded parts at 400 V downwards upwards at the side 	20 hp 30 hp 40 hp 75 hp 100 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
 at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting at the side for grounded parts at 400 V downwards upwards at the side for live parts at 400 V 	20 hp 30 hp 40 hp 75 hp 100 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					
— at the side	10 mm				
 for grounded parts at 500 V 					
— downwards	110 mm				
— upwards	110 mm				
— at the side	10 mm				
 for live parts at 500 V 					
— downwards	110 mm				
— upwards	110 mm				
— at the side	10 mm				
 for grounded parts at 690 V 					
— 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				
onnections/ 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 mm ²), 1x (10 70 mm ²)				
 finely stranded with core end processing 	2x (2.5 35 mm ²), 1x (2.5 50 mm ²)				
 finely stranded without core end processing 	2x (10 35 mm ²), 1x (10 50 mm ²)				
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					
 for main contacts with screw-type terminals 	4.5 6 N·m				
afety related data					
proportion of dangerous failures					
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	5 000				
IEC 61508					
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				
· · · · ·	Handle				
display version for switching status					
display version for switching status					
orspiay version for switching status pprovals Certificates General Product Approval					

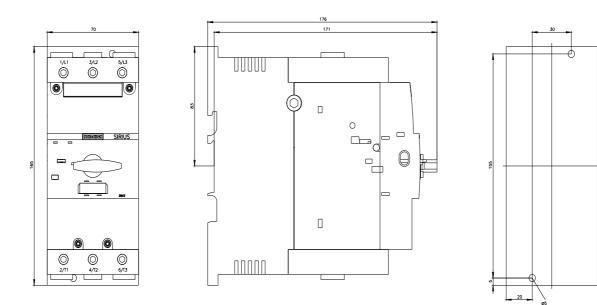
General Product Approval

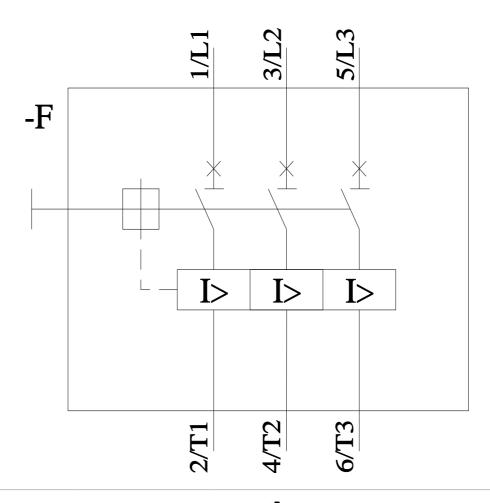
Test Certificates

Marine / Shipping

EHC	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	ABS	BUREAU VERITAS	
Marine / Shipping			other		
Lloyd's Register us	PRS	RINA	<u>Miscellaneous</u>	<u>Confirmation</u>	
Railway	Environment				
<u>Confirmation</u>	EPD Typ II/III (with life cylce assessment)				
Further information					
https://press.siemens.o Siemens is working o	d to exit the Russian mark com/global/en/pressrelease on the renewal of the curr cal Siemens office on the s	siemens-wind-down-rus	sian-business		

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2342-4MC10&objecttype=14&gridview=view1





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