SIEMENS

Data sheet

3RV2341-4RC10



Circuit breaker size S3 for starter combination Rated current 84 A N-release 1170 A screw terminal Standard switching capacity



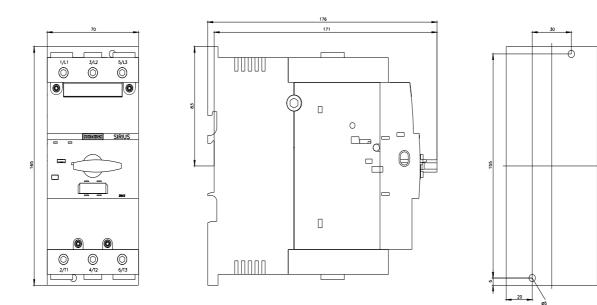
product brand name	SIRIUS				
product designation	Circuit breaker				
design of the product	For starter combinations				
product type designation	3RV2				
General technical data					
size of the circuit-breaker	\$3				
size of contactor can be combined company-specific	S3				
product extension auxiliary switch	Yes				
power loss [W] for rated value of the current					
 at AC in hot operating state 	34 W				
 at AC in hot operating state per pole 	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)					
 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	Lead - 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	84 A				
operational current					

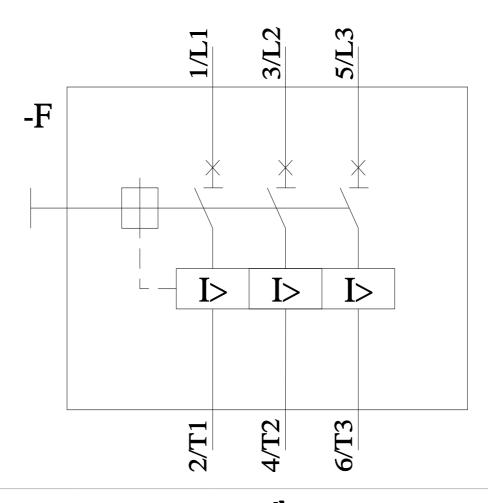
• at AC-3 at 400 V rated value	84 A
at AC-3e at 400 V rated value	84 A
operating power	
• at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
• at AC-3e	
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated 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	
ground fault detection	No
phase failure detection	No
maximum short-circuit current breaking capacity (Icu)	
at AC at 240 V rated value	100 kA
at AC at 400 V rated value	65 kA
at AC at 500 V rated value	8 kA
at AC at 690 V rated value	5 kA
operating short-circuit current breaking capacity (Ics) at AC	
at 240 V rated value	100 kA
at 400 V rated value	30 kA
at 500 V rated value	4 kA
• at 690 V rated value	3 kA
response value current of instantaneous short-circuit trip unit UL/CSA ratings	1 170 A
full-load current (FLA) for 3-phase AC motor	24.4
• at 480 V rated value	84 A
at 600 V rated value	84 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	7.5 hp
— at 230 V rated value	15 hp
• for 3-phase AC motor	15 hp
• for 3-phase AC motor	15 hp 25 hp 30 hp
 for 3-phase AC motor — at 200/208 V rated value 	15 hp 25 hp
 for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value 	15 hp 25 hp 30 hp
 for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value 	15 hp 25 hp 30 hp 60 hp
 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 	15 hp 25 hp 30 hp 60 hp
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	15 hp 25 hp 30 hp 60 hp 75 hp
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	15 hp 25 hp 30 hp 60 hp 75 hp Yes
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	15 hp 25 hp 30 hp 60 hp 75 hp Yes
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	15 hp 25 hp 30 hp 60 hp 75 hp Yes magnetic
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	15 hp 25 hp 30 hp 60 hp 75 hp Yes magnetic any
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 	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
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 	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
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 	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
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 	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
 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 	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
 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 design of the 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 	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
 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 design of the 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	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
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 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 design of the 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 	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

— downwards	70 mm			
— upwards	70 mm			
— 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			
Connections/ Terminals				
type of electrical connection				
for main current circuit	screw-type terminals			
arrangement of electrical connectors for main current	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)			
 — finely stranded with core end processing 	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			
tightening torque				
 for main contacts with screw-type terminals 	4.5 6 N·m			
Safety related data				
product function suitable for safety function	Yes			
suitability for use				
 safety-related switching on 	No			
 safety-related switching OFF 	Yes			
service life maximum	10 a			
test wear-related service life necessary	Yes			
proportion of dangerous failures				
with low demand rate according to SN 31920	40 %			
-	40 % 50 %			
with high demand rate according to SN 31920				
B10 value with high demand rate according to SN 31920	5 000			
failure rate [FIT] with low demand rate according to SN 31920	50 FIT			
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 А			
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						
display version for switc	hing status	Hand	lle			
Approvals Certificates						
General Product Appr	oval					
C E EG-Konf.	UK CA	<u>Confirmation</u>		(U) u	KC	
General Product Approval	Test Certificates		Marine / Shipping			
EHC	Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS	BUREAU VERITAS		
Marine / Shipping			other			
Lloyds Register us	PRS	RINA	<u>Miscellaneous</u>	<u>Confirmation</u>		
Railway		Environment				
<u>Special Test Certific-</u> <u>ate</u>	<u>Confirmation</u>	EPD	Siemens EcoTech	Environmental Con- firmations		
Further information						
Information on the pac https://support.industry.s Information- and Dowr https://www.siemens.com Industry Mall (Online on https://mall.industry.siem Cax online generator	siemens.com/cs/ww/en/v nloadcenter (Catalogs, <u>m/ic10</u> rdering system) nens.com/mall/en/en/Ca	Brochures,) talog/product?mlfb=3RV23				
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2341-4RC10 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RV2341-4RC10						
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2341-4RC10⟨=en						
Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2341-4RC10/char						
Further characteristics	(e.g. electrical endura	ance, switching frequency	y)			

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2341-4RC10&objecttype=14&gridview=view1





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