SIEMENS

Data sheet

3RV2342-4YC10



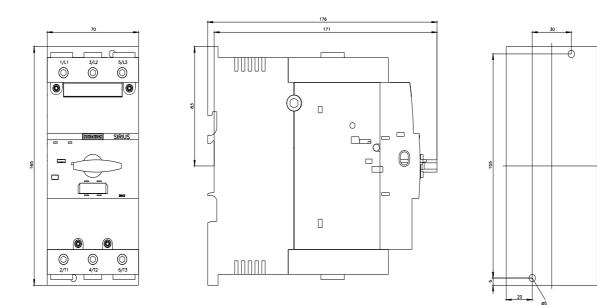
Circuit breaker size S3 for starter combination Rated current 93 A N-release 1300 A screw terminal Increased switching capacity 100 kA

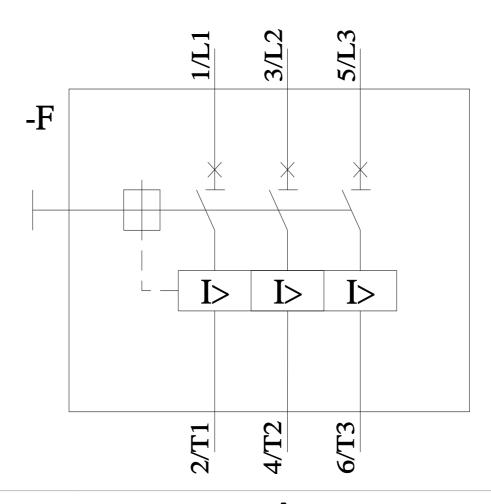
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For starter combinations
product type designation	3RV2
General technical data	
size of the circuit-breaker	S3
size of contactor can be combined company-specific	S3
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	39 W
 at AC in hot operating state per pole 	13 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	93 A
operational current	

 at AC-3 at 400 V rated value 	93 A
• at AC-3e at 400 V rated value	93 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	90 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	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
	ulennai
maximum short-circuit current breaking capacity (Icu)	400.14
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	93 A
• at 600 V rated value	93 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	7.5 hp
— at 230 V rated value	20 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	30 hp
— at 220/230 V rated value	40 hp
— at 460/480 V rated value	75 hp
— at 575/600 V rated value	100 hp
Short-circuit protection	· · · · · · · · ·
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	70 mm
depth	176 mm
required spacing	
 with side-by-side mounting at the side 	0 mm
 for grounded parts at 400 V 	
— downwards	70 mm
— upwards	70 mm
— at the side	10 mm

 for live parts at 400 V 	
— 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
	0 mm
• for live parts at 690 V	150 mm
— 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 mm ²), 1x (10 70 mm ²)
— solid or stranded	2x (2,5 50 mm²), 1x (10 70 mm²)
 — solid or stranded — finely stranded with core end processing 	2x (2,5 50 mm²), 1x (10 70 mm²) 2x (2.5 35 mm²), 1x (2.5 50 mm²)
 — solid or stranded — finely stranded with core end processing — finely stranded without core end processing 	2x (2,5 50 mm²), 1x (10 70 mm²) 2x (2.5 35 mm²), 1x (2.5 50 mm²)
— solid or stranded — finely stranded with core end processing — finely stranded without core end processing tightening torque	2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²)
 — solid or stranded — finely stranded with core end processing — finely stranded without core end processing tightening torque for main contacts for ring cable lug 	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
 — solid or stranded — finely stranded with core end processing — finely stranded without core end processing tightening torque • for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque 	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
 — solid or stranded — finely stranded with core end processing — finely stranded without core end processing tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals 	2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 4.5 6 N·m 19 mm
 solid or stranded finely stranded with core end processing finely stranded without core end processing tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals Safety related data 	2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 4.5 6 N·m 19 mm 4.5 6 N·m
 solid or stranded finely stranded with core end processing finely stranded without core end processing tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals Safety related data product function suitable for safety function 	2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 4.5 6 N·m 19 mm
 solid or stranded finely stranded with core end processing finely stranded without core end processing tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals Safety related data product function suitable for safety function suitability for use 	2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 4.5 6 N·m 19 mm 4.5 6 N·m
 — solid or stranded — finely stranded with core end processing — finely stranded without core end processing tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals Safety related data	2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 4.5 6 N·m 19 mm 4.5 6 N·m Yes No
 — solid or stranded — finely stranded with core end processing — finely stranded without core end processing tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals Safety related data product function suitable for safety function safety-related switching on safety-related switching OFF 	2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 4.5 6 N·m 19 mm 4.5 6 N·m Yes
 solid or stranded finely stranded with core end processing finely stranded without core end processing tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals Safety related data product function suitable for safety function safety-related switching on safety-related switching OFF service life maximum 	2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 4.5 6 N·m 4.5 6 N·m Yes No Yes 10 a
 solid or stranded finely stranded with core end processing finely stranded without core end processing tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals Safety related data product function suitable for safety function safety-related switching on safety-related switching OFF service life maximum test wear-related service life necessary 	2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 4.5 6 N·m 19 mm 4.5 6 N·m Yes
 solid or stranded finely stranded with core end processing finely stranded without core end processing tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals Safety related data product function suitable for safety function suitability for use safety-related switching on safety-related service life necessary proportion of dangerous failures 	2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 4.5 6 N·m 19 mm 4.5 6 N·m Yes No Yes 10 a Yes
 solid or stranded finely stranded with core end processing finely stranded without core end processing tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals Safety related data	2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 4.5 6 N·m 19 mm 4.5 6 N·m Yes No Yes 10 a Yes 40 %
 solid or stranded finely stranded with core end processing finely stranded without core end processing tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals Safety related data product function suitable for safety function safety-related switching on safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 	2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 4.5 6 N·m 19 mm 4.5 6 N·m Yes No Yes 10 a Yes 40 % 50 %
 — solid or stranded — finely stranded with core end processing — finely stranded without core end processing tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals Safety related data product function suitable for safety function suitability for use safety-related switching OFF	2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 4.5 6 N·m 19 mm 4.5 6 N·m Yes No Yes 10 a Yes 40 % 50 % 5 000
 solid or stranded finely stranded with core end processing finely stranded without core end processing tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals Safety related data product function suitable for safety function safety-related switching on safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures 	2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 4.5 6 N·m 19 mm 4.5 6 N·m Yes No Yes 10 a Yes 40 % 50 %
 solid or stranded finely stranded with core end processing finely stranded without core end processing tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals Safety related data product function suitable for safety function suitability for use safety-related switching on safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures with high demand rate according to SN 31920	2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 4.5 6 N·m 19 mm 4.5 6 N·m Yes No Yes 10 a Yes 40 % 50 % 5 000
 solid or stranded finely stranded with core end processing finely stranded without core end processing tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals safety related data	2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 4.5 6 N·m 19 mm 4.5 6 N·m Yes No Yes 10 a Yes 40 % 50 % 50 00 50 FIT
 solid or stranded finely stranded with core end processing finely stranded without core end processing tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals safety related data	2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2,5 35 mm ²), 1x (2,5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 4.5 6 N·m 19 mm 4.5 6 N·m Yes No Yes 10 a Yes 40 % 50 % 50 00 50 FIT 3
 solid or stranded finely stranded with core end processing finely stranded without core end processing tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals safety related data	2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 4.5 6 N·m 19 mm 4.5 6 N·m Yes No Yes 10 a Yes 40 % 50 % 50 00 50 FIT
 solid or stranded finely stranded with core end processing finely stranded without core end processing tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals Safety related data product function suitable for safety function safety-related switching on safety-related switching OFF	2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 4.5 6 N·m 19 mm 4.5 6 N·m Yes No Yes 10 a Yes 40 % 50 % 50 00 50 FIT 3 Yes
 solid or stranded finely stranded with core end processing finely stranded without core end processing tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals Safety related data product function suitable for safety function safety-related switching on safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures 	2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2,5 35 mm ²), 1x (2,5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 4.5 6 N·m 19 mm 4.5 6 N·m Yes No Yes 10 a Yes 40 % 50 % 50 00 50 FIT 3
 solid or stranded finely stranded with core end processing finely stranded without core end processing tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals Safety related data product function suitable for safety function safety-related switching on safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures 	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 % 50 00 50 FIT 3 Yes Type A
 solid or stranded finely stranded with core end processing finely stranded without core end processing tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals Safety related data product function suitable for safety function safety-related switching on safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures 	2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 4.5 6 N·m 19 mm 4.5 6 N·m Yes No Yes 10 a Yes 40 % 50 % 50 00 50 FIT 3 Yes

Electrical Safety						
,		IP20	-safe, for vertical contact	from the front		
touch protection on the front according to IEC 60529 Display		inger				
		Hand	le			
Approvals Certificates						
General Product Appro	oval					
CE EG-Konf.	UK CA	<u>Confirmati</u>	ion			KC
General Product Approval	Test Certificates			Marine / Shipping		
EHC	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate		ABS	BUREAU VERITAS	
Marine / Shipping				other		
Lloyd's Register urs	PRS	RINA		<u>Miscellaneous</u>	<u>Confirmation</u>	
Railway		Environment				
Special Test Certific- ate	<u>Confirmation</u>	EPD		Siemens EcoTech		
urther information						
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 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=3RV2342-4YC10						
Cax online generator	.siemens.com/WW/CA) Jals, Certificates, Chai	Korder/default.asp	ox?lang=∈ }s ,)	en&mlfb=3RV2342-4YC10	1	
Image database (produ http://www.automation.si Characteristic: Tripping	emens.com/bilddb/cax_	de.aspx?mlfb=3R	<u>RV2342-4</u>	, <mark>device circuit diagrams</mark> <u>YC10⟨=en</u>	s, EPLAN macros,)	
https://support.industry.s	iemens.com/cs/ww/en/p	s/3RV2342-4YC1	10/char			
Further characteristics	(e.g. electrical endura			()		





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