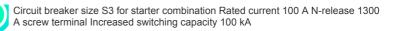
SIEMENS

Data sheet

3RV2342-4MC10



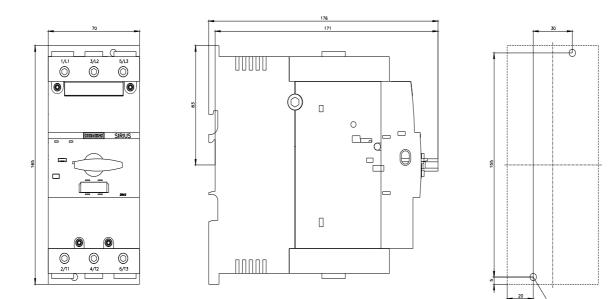


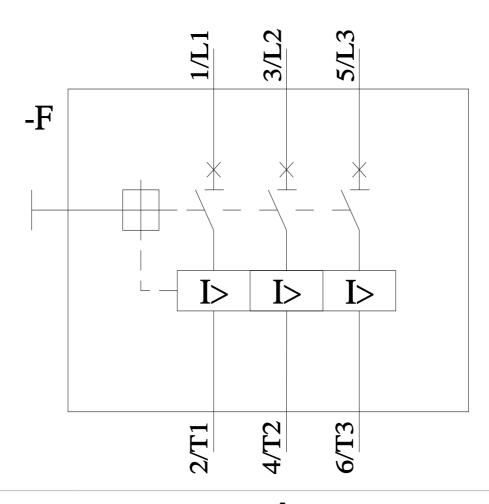
- 401 etg - 600	
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For starter combinations
product type designation	3RV2
General technical data	
size of the circuit-breaker	S3
size of contactor can be combined company-specific	S3
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	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	Lead - 7439-92-1
Weight	2.252 kg
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 %
Environmental footprint	
global warming potential [CO2 eq] total	283.24 kg
global warming potential [CO2 eq] during manufacturing	18.5 kg
global warming potential [CO2 eq] during sales	1.24 kg
global warming potential [CO2 eq] during operation	265 kg
global warming potential [CO2 eq] after end of life	-1.5 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
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)	urema
at AC at 240 V rated value	100 kA
at AC at 240 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 (lcs) at AC	
	100 kA
 at 240 V rated value at 400 V rated value 	100 kA 50 kA
	50 KA 5 kA
at 500 V rated value	
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	400.4
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 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	
depth	
required spacing	0
• with side-by-side mounting at the side	0 mm
• for grounded parts at 400 V	70
— 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
• 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	0 mm
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 with core end processing finely stranded without core end processing 	2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²)
- finely stranded without core end processing	2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 35 mm²), 1x (10 50 mm²)
finely stranded without core end processing tightening torque	2x (10 35 mm²), 1x (10 50 mm²)
 finely stranded without core end processing tightening torque for main contacts for ring cable lug 	2x (10 35 mm²), 1x (10 50 mm²) 4.5 6 N⋅m
 finely stranded without core end processing tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum 	2x (10 35 mm²), 1x (10 50 mm²)
	2x (10 35 mm²), 1x (10 50 mm²) 4.5 6 N·m 19 mm
 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 (10 35 mm²), 1x (10 50 mm²) 4.5 6 N⋅m
	2x (10 35 mm²), 1x (10 50 mm²) 4.5 6 N·m 19 mm 4.5 6 N·m
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 (10 35 mm²), 1x (10 50 mm²) 4.5 6 N·m 19 mm
 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 (10 35 mm²), 1x (10 50 mm²) 4.5 6 N·m 19 mm 4.5 6 N·m Yes
 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 	2x (10 35 mm²), 1x (10 50 mm²) 4.5 6 N·m 19 mm 4.5 6 N·m Yes No
 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 (10 35 mm²), 1x (10 50 mm²) 4.5 6 N·m 19 mm 4.5 6 N·m Yes
 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 	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
 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 	2x (10 35 mm²), 1x (10 50 mm²) 4.5 6 N·m 19 mm 4.5 6 N·m Yes
 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 (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
 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 	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 %
 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 (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
 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 	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 %
 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 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 (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 %

10.0 10015						
ISO 13849						
device type according to ISO 13849-1 3						
		ecessary Yes	Yes			
IEC 61508		_				
		Туре	уре А			
 T1 value for proof test interval or service life according to IEC 61508 		ng to IEC 10 a	10 a			
Electrical Safety						
protection class IP on the front according to IEC 60529 IP20			20			
· · · · · · · · · · · · · · · · · · ·			nger-safe, for vertical contact from the front			
Display						
display version for swite	hing status	Han	dlo			
Approvals Certificates		Tian				
General Product App	rovai					
	CE EG-Konf.	UK CA	<u>Confirmation</u>	U	KC	
General Product Approval	Test Certificates		Marine / Shipping			
EHC	Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS	BUREAU VERITAS		
Marine / Shipping			other			
Llovdis Register urs	PRS	RINA	<u>Miscellaneous</u>	<u>Confirmation</u>	UDE VDE	
Railway		Environment				
Special Test Certific- ate	<u>Confirmation</u>	EPD	Siemens EcoTech	Environmental Con- firmations		
Further information						
Information on the pac https://support.industry. Information- and Down https://www.siemens.co Industry Mall (Online of https://mall.industry.sier Cax online generator http://support.automatio Service&Support (Mar https://support.industry.	siemens.com/cs/ww/en/vie nloadcenter (Catalogs, E om/ic10 ordering system) mens.com/mall/en/en/Cata nu.siemens.com/WW/CAX nuals, Certificates, Chara siemens.com/cs/ww/en/ps	Brochures,) alog/product?mlfb=3RV2 order/default.aspx?lang= acteristics, FAQs,) s/3RV2342-4MC10	en&mlfb=3RV2342-4MC1	_		
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