SIEMENS

Data sheet 3RV2341-4RC10



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

SIRIUS product brand name product designation Circuit breaker design of the product For starter combinations product type designation 3RV2 General technical data S3 size of the circuit-breaker 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 11.3 W • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated 1 000 V 8 kV surge voltage resistance rated value 25g / 11 ms Sinus shock resistance according to IEC 60068-2-27 mechanical service life (switching cycles) 25 000 • of the main contacts typical · of auxiliary contacts typical 25 000 electrical endurance (switching cycles) typical 25 000 reference code according to IEC 81346-2 O **Substance Prohibitance (Date)** 03/01/2017 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -20 ... +60 °C • during operation -50 ... +80 °C • during storage · 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 50 ... 60 Hz operating frequency rated value 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 22 kW — at 230 V rated value

— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
• at AC-3e	TORY
— 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	TORY
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
breaking capacity maximum short-circuit current (Icu)	
• at AC at 240 V rated value	100 kA
at AC at 400 V rated value	65 kA
at AC at 400 V rated value at AC at 500 V rated value	8 kA
at AC at 500 V rated value at AC at 690 V rated value	5 kA
breaking capacity operating short-circuit current (Ics)	V IV t
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	1 170 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
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 	
 at 200/208 V rated value 	25 hp
 at 220/230 V rated value 	30 hp
 at 460/480 V rated value 	60 hp
 at 575/600 V rated value 	75 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 standard mounting 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	0 mm
	0 mm 70 mm
 for grounded parts at 400 V 	
for grounded parts at 400 Vdownwards	70 mm
for grounded parts at 400 V— downwards— upwards	70 mm 70 mm
 for grounded parts at 400 V downwards upwards at the side 	70 mm 70 mm
 for grounded parts at 400 V — downwards — upwards — at the side for live parts at 400 V 	70 mm 70 mm 10 mm
 for grounded parts at 400 V downwards upwards at the side for live parts at 400 V downwards 	70 mm 70 mm 10 mm
 for grounded parts at 400 V — downwards — upwards — at the side for live parts at 400 V — downwards — upwards 	70 mm 70 mm 10 mm 70 mm 70 mm
 for grounded parts at 400 V — downwards — upwards — at the side for live parts at 400 V — downwards — upwards — at the side 	70 mm 70 mm 10 mm 70 mm 70 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
proctions/ Torminals	

Connections/ Terminals

type of electrical connection

• for main current circuit arrangement of electrical connectors for main current circuit

type of connectable conductor cross-sections

• for main contacts

— solid

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

screw-type terminals

Top and bottom

2x (2.5 ... 16 mm²)

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

Safety related data

B10 value

with high demand rate according to SN 31920

proportion of dangerous failures

• with low demand rate according to SN 31920

• with high demand rate according to SN 31920

T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 display version for switching status

5 000

50 % 50 %

10 y

IP20

finger-safe, for vertical contact from the front Handle

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping other











Confirmation

other

Railway



Vibration and Shock

Confirmation

Further information

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=3RV2341-4RC10

Cax online generator

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, ...)

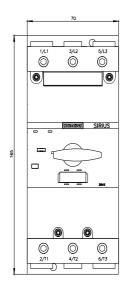
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2341-4RC10&lang=en

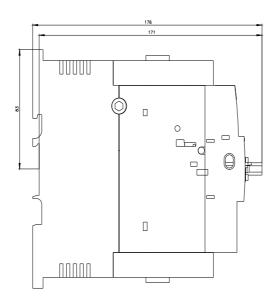
Characteristic: Tripping characteristics, I2t, Let-through current

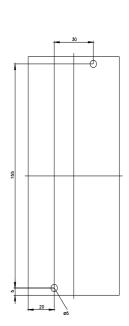
https://support.industry.siemens.com/cs/ww/en/ps/3RV2341-4RC10/char

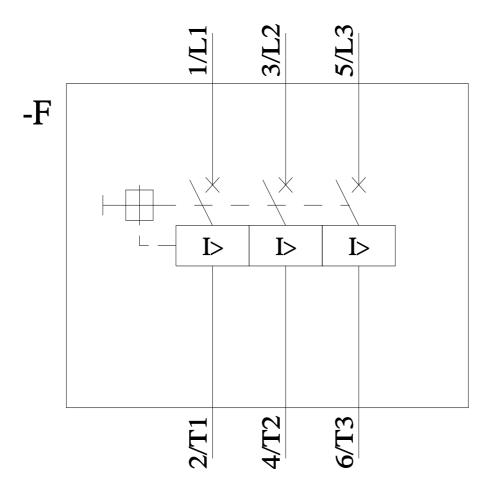
Further characteristics (e.g. electrical endurance, switching frequency)

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









6/25/2022

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