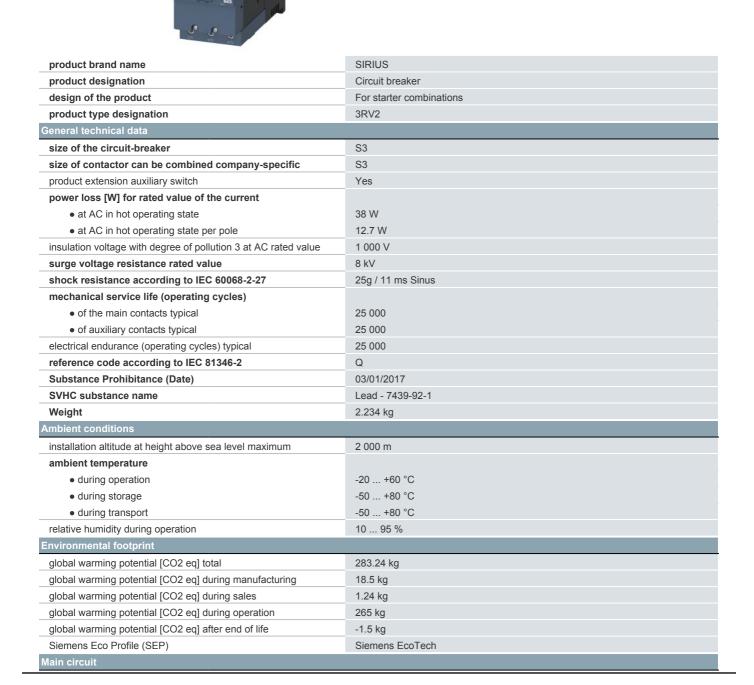
SIEMENS

Data sheet 3RV2342-4KC10



Circuit breaker size S3 for starter combination Rated current 75 A N-release 975 A screw terminal Increased switching capacity 100 kA





number of poles for main current circuit 3	
rated value	
at AC-3 rated value maximum begin value frequency rated value begin at AC-3e rated value maximum begin at AC-3e rated value at AC-3e at 400 V rated value at AC-3e at 400 V rated value at AC-3 at 400 V rated value at 500 V rated value at 690 V at AC-3 at 400 V rated value at 690 V at AC-3e at 690 V rated value at AC-3e at 400 V rated value at AC-3e at AC-3e at AC-3e at 400 V rated value at 500 V rated value at AC-3 maximum begin at AC-3 maximum at AC-3 maximum at AC-3 maximum begin at AC-3 maximum at AC-3 maximum begin at AC-3 maximum at AC-3 maximum begin at AC-3 maximum	
at AC-3e rated value maximum begon V operating frequency rated value operational current rated value operational current at AC-3 at 400 V rated value operating power at AC-3e at 400 V rated value operating power at AC-3 at 230 V rated value - at 230 V rated value - at 500 V rated value - at 690 V rated value at AC-3e - at 230 V rated value - at 690 V rated	
operating frequency rated value operational current rated value operational current • at AC-3 at 400 V rated value • at AC-3 eat 400 V rated value operating power • at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value • at AC-3e — at 230 V rated value — at 690 V rated value • at AC-3e — at 230 V rated value • at AC-3e — at 230 V rated value • at AC-3e — at 690 V rated value — at 400 V rated value — at 4500 V rated value — at 690	
operational current rated value 75 A operational current • at AC-3 at 400 V rated value 75 A • at AC-3e at 400 V rated value 75 A operating power • at AC-3 — at 230 V rated value 22 kW — at 400 V rated value 37 kW — at 500 V rated value 45 kW — at 690 V rated value 55 kW • at AC-3e — at 230 V rated value 55 kW • at AC-3e — at 230 V rated value 45 kW — at 690 V rated value 55 kW • at AC-3e — at 230 V rated value 55 kW operating frequency • at AC-3 maximum 15 1/h • at AC-3 maximum 15 1/h Protective and monitoring functions product function • ground fault detection No	
operational current	
• at AC-3e at 400 V rated value operating power • at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value • at AC-3e — at 230 V rated value — at 690 V rated value • at AC-3e — at 230 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value — at AC-3e maximum • at AC-3e maximum 15 1/h Protective and monitoring functions product function • ground fault detection No	
operating power	
■ at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value ● at AC-3e — at 230 V rated value ● at AC-3e — at 230 V rated value — at 500 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at AC-3 maximum ■ at AC-3 maximum ■ at AC-3 maximum ● ground fault detection ● ground fault detection No	
- at 400 V rated value 37 kW - at 500 V rated value 45 kW - at 690 V rated value 55 kW • at AC-3e - at 230 V rated value 22 kW - at 400 V rated value 37 kW - at 500 V rated value 45 kW - at 690 V rated value 55 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	
- at 500 V rated value	
- at 690 V rated value 55 kW ■ at AC-3e - at 230 V rated value 22 kW - at 400 V rated value 37 kW - at 500 V rated value 45 kW - at 690 V rated value 55 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	
at AC-3e — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at AC-3 maximum — at AC-3 maximum — at AC-3e maximum — at AC-3e maximum — at AC-3e maximum — at AC-3e maximum — b ground fault detection No	
- at 230 V rated value 22 kW - at 400 V rated value 37 kW - at 500 V rated value 45 kW - at 690 V rated value 55 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	
- at 400 V rated value 37 kW - at 500 V rated value 45 kW - at 690 V rated value 55 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	
- at 500 V rated value 45 kW - at 690 V rated value 55 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	
- at 690 V rated value 55 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	
operating frequency • at AC-3 maximum • at AC-3e maximum 15 1/h Protective and monitoring functions product function • ground fault detection No	
at AC-3 maximum at AC-3e maximum 15 1/h Protective and monitoring functions product function ground fault detection No	
• at AC-3e maximum Protective and monitoring functions product function • ground fault detection No	
Protective and monitoring functions product function • ground fault detection No	
product function • ground fault detection No	
• ground fault detection No	
design of the overload release thermal	
maximum short-circuit current breaking capacity (Icu)	
• 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 975 A	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value 75 A	
• at 600 V rated value 75 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 DIN rail according to DIN	
height 165 mm	EN 60715

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	10 11111
— downwards	110 mm
— upwards	110 mm
— at the side	10 mm
• for live parts at 500 V	10 111111
— downwards	110 mm
— upwards	110 mm
·	10 mm
— at the sidefor grounded parts at 690 V	TO THILL
	450
— 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 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 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	
p. sperior or dangerous fallates	40.0/
 with low demand rate according to SN 31020 	
with low demand rate according to SN 31920 with high demand rate according to SN 31920	40 % 50 %
with high demand rate according to SN 31920	50 %
-	

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	Type A
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 switching status	Handle
Approvals Certificates	
General Product Approval	









Confirmation



<u>KC</u>

General Product Approval

Test Certificates

Marine / Shipping



Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report







Marine / Shipping







Miscellaneous

other

Confirmation



Railway

Environment

Special Test Certificate

Confirmation







Further 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=3RV2342-4KC10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2342-4KC10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RV2342-4KC10

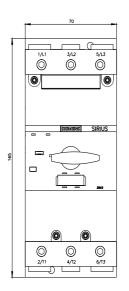
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

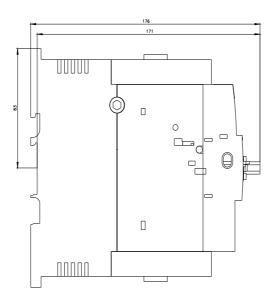
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2342-4KC10&lang=en

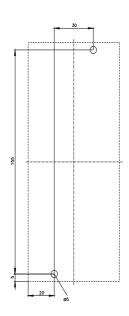
Characteristic: Tripping characteristics, I2t, Let-through current

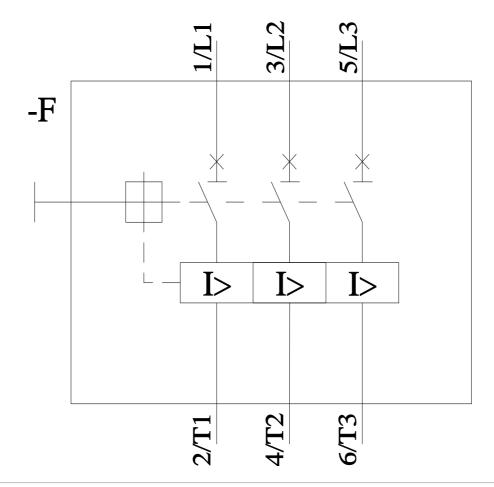
https://support.industry.siemens.com/cs/ww/en/ps/3RV2342-4KC10/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2342-4KC10&objecttype=14&gridview=view1









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11/6/2024

