SIEMENS

Data sheet 3RV2342-4FC10



Circuit breaker size S3 for starter combination Rated current 40 A N-release 520 A screw terminal Increased switching capacity 100 kA



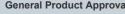


product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For starter combinations
product type designation	3RV2
General technical data	
size of the circuit-breaker	S3
size of contactor can be combined company-specific	S3
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	23 W
 at AC in hot operating state per pole 	7.7 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	2.175 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	

operating voltage	number of pales for main current circuit	3
and AC-3er anded value maximum	-	
* at AC-3 erated value maximum		20 690 V
### AC-3e rated value maximum operational current rated value operational current rated value operational current rated value ### AC-3e at 400 V rated valu		
Operational current rated value		
Operational current rated value		
Special Current		
# at AC-3 at 400 V rated value	· ·	40 A
## AIA-G-3e at 400 V rated value 11 kW		40.4
• al AC-3		40 A
		44 144
→ at AQ-3e		
— at 230 V rated value		37 KVV
		44 130
— at 660 V rated value 51 km		
operating frequency		
• at AC-3 maximum 15 1/h 15 1/h 16 1/h 17 16 1		3/ KVV
• at AC-3e maximum Protective and monitoring functions product function • ground fault detection • ponable failure		4E 4/h
Protective and monitoring functions product function • ground fault detection • prase failure detection No design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 600 V rated value • at AC at 600 V rated value • at AC at 600 V rated value • at 240 V rated value • at 800 V rated value • at 200 X rated value • at 300 V rated value • at 300 V rated value • at 575/500 V rated value • at 800 V		
product function		13 1/11
ground fault detection phase failure detection maximum short-circuit current breaking capacity (icu) at AC at 240 V rated value at AC at 400 V rated value bat AC at 4500 V rated value at AC at 690 V rated value bat AC at 690 V rated value at AC at 690 V rated value bat AC at 400 V rated value bat 400 V rated value bat 500 V rated value bat 600 V rated value b		
• phase failure detection No	•	
maximum short-circuit current breaking capacity (Icu) at AC at 240 V rated value at AC at 340 V rated value at AC at 3500 V rated value berating short-circuit current breaking capacity (Ics) at AC at 240 V rated value at 340 V rated value at 3500 V rated value at 3600 V rated value	-	
maximum short-circuit current breaking capacity (Icu) at AC at 240 V rated value at AC at 400 V rated value 100 kA at AC at 680 V rated value 118 kA at AC at 690 V rated value 218 kA operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 50 kA at 400 V rated value 50 kA at 400 V rated value 50 kA at 500 V rated value 6 kA at 690 V rated value 6 kA at 690 V rated value 6 kA at 690 V rated value 9 kA 6 kA response value current of instantaneous short-circuit trip unit 250 A WUCSA ratins full-load current (FLA) for 3-phase AC motor at 480 V rated value 40 A 40 A 41 100 V rated value 9 for single-phase AC motor - at 110/120 V rated value 5 for single-phase AC motor - at 110/120 V rated value 5 for 3-phase AC motor - at 200/208 V rated value 5 for 3-phase AC motor - at 200/208 V rated value 5 for 3-phase AC motor - at 200/208 V rated value 6 for 3-phase AC motor - at 200/208 V rated value 7.5 hp - at 200/208 V rated value 15 hp - at 200/208 V rated value 16 hp - at 575/600 V rated value 30 hp - at 575/600 V rated value 40 hp Short-circuit protection product function short circuit protection 4 vec design of the short-circuit trip mounting position 5 any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	·	
at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value 100 kA at AC at 500 V rated value 12 kA operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 100 kA at 240 V rated value 50 kA at 500 V rated value 9 kA at 690 V rated value 6 kA response value current of instantaneous short-circuit trip unit 100 kA st 480 V rated value 40 kA at 690 V rated value 40 kA at 690 V rated value 9 kA 40 A at 690 V rated value 40 A 40 A yielded mechanical performance [hp] 6 for single-phase AC motor - at 110/120 V rated value 9 for 3-phase AC motor - at 230 V rated value 15 hp - at 220/230 V rated value 15 hp - at 480 V rated value 9 to 3 hp - at 480480 V rated value 9 to 40 hp Short-circuit protection product function short circuit protection yes design of the short-circuit trip mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		thermal
at AC at 400 V rated value at AC at 500 V rated value braining short-circuit current breaking capacity (Ics) at AC at AC at 690 V rated value braining short-circuit current breaking capacity (Ics) at AC at 240 V rated value at 400 V rated value braining short-circuit current breaking capacity (Ics) at AC at 400 V rated value braining short-circuit current breaking capacity (Ics) at AC at 500 V rated value braining short-circuit current braining short-circuit trip unit braining short-circuit current of instantaneous		40014
at AC at 500 V rated value at AC at 690 V rated value 12 kA operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 50 kA at 400 V rated value 50 kA at 690 V rated value 6 kA response value current of instantaneous short-circuit trip unit UICSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 40 A at 690 V rated value 40 A yielded mechanical performance [hp] 6 for single-phase AC motor —at 110/120 V rated value 7.5 hp 6 for 3-phase AC motor —at 2200/230 V rated value 7.5 hp 6 for 3-phase AC motor —at 2200/230 V rated value 7.5 hp 6 for 3-phase AC motor —at 460/480 V rated value 7.5 hp 6 for 3-phase AC motor —at 575/600 V rated value 15 hp —at 460/480 V rated value 40 hp Short-circuit protection product function short circuit protection product function short circuit trip magnetic munting position any fastening method 100 kA 10		
• at AC at 690 V rated value operating short-circuit current breaking capacity (Ics) at AC • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 800 V rated value • at 800 V rated value • at 480 V rated value • at 480 V rated value • at 480 V rated value • at 1800 V rated value • at 690 V rated value • at 110/120 V rated value • for single-phase AC motor — at 290 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 260/480 V rated value • 15 hp — at 460/480 V rated value • 30 hp — at 575/600 V rated value 40 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		
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at 400 V rated value at 500 V rated value bat 600 V rated value cresponse value current of instantaneous short-circuit trip unit bul/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value bat 600 V rated value bat 7.5 hp for single-phase AC motor at 110/120 V rated value bat 7.5 hp for 3-phase AC motor at 230 V rated value bat 7.5 hp for 3-phase AC motor at 200/208 V rated value bat 60/480 V rated value		10011
at 500 V rated value at 690 V rated value be at 690 V rated value cresponse value current of instantaneous short-circuit trip unit 520 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value be of single-phase AC motor - at 110/120 V rated value - at 230 V rated value for 3-phase AC motor - at 1200/208 V rated value - at 220/230 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value		
• at 690 V rated value response value current of instantaneous short-circuit trip unit ### S20 A ##		
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor		
### Company of the Short-circuit protection ### Company of the Short-circuit protection ### Provided Manager of the Short-circuit protection ### Provided Manager of the Short-circuit protection ### Provided Manager of the Short-circuit protection ### Provided County of the Short of the Short-circuit protection ### Provided County of the Short-circuit protection of the		
full-load current (FLA) for 3-phase AC motor • at 480 V rated value 40 A • at 600 V rated value 40 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 3 hp — at 230 V rated value 7.5 hp • for 3-phase AC motor — at 200/208 V rated value 15 hp — at 220/230 V rated value 15 hp — at 460/480 V rated value 30 hp — at 575/600 V rated value 40 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	· · · · · · · · · · · · · · · · · · ·	520 A
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yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 57.5 hp • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method		
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- at 110/120 V rated value 3 hp - at 230 V rated value 7.5 hp • for 3-phase AC motor - at 200/208 V rated value 15 hp - at 220/230 V rated value 30 hp - at 460/480 V rated value 30 hp - at 575/600 V rated value 40 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		
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- at 220/230 V rated value 15 hp - at 460/480 V rated value 30 hp - at 575/600 V rated value 40 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	·	
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product function short circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method Yes magnetic magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		40 hp
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		
Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	<u> </u>	Yes
mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	<u> </u>	magnetic
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	Installation/ mounting/ dimensions	
	mounting position	any
height 165 mm	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	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



Type Test Certificates/Test Report

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







Marine / Shipping







Miscellaneous

other

Confirmation



Railway

Environment

Special Test Certificate

Confirmation





Environmental Confirmations

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=3RV2342-4FC10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2342-4FC10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2342-4FC10

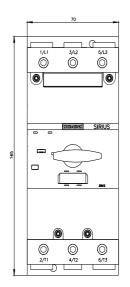
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

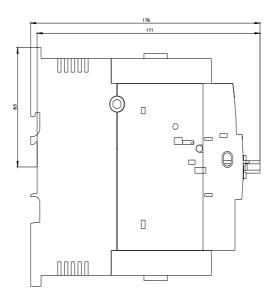
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2342-4FC10&lang=en

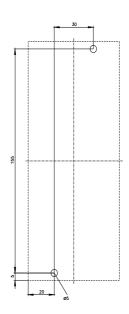
Characteristic: Tripping characteristics, I2t, Let-through current

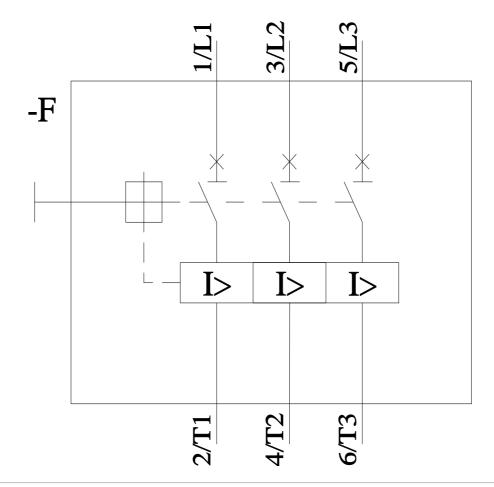
https://support.industry.siemens.com/cs/ww/en/ps/3RV2342-4FC10/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2342-4FC10&objecttype=14&gridview=view1









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