SIEMENS

Data sheet 3RV2341-4FC10



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





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			

number of poles for main current circuit	3		
operating voltage	20.000		
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	40 A		
operational current			
 at AC-3 at 400 V rated value 	40 A		
at AC-3e at 400 V rated value	40 A		
operating power			
• at AC-3			
— at 230 V rated value	11 kW		
— at 400 V rated value	18.5 kW		
— at 500 V rated value	22 kW		
— at 690 V rated value	37 kW		
• at AC-3e			
— at 230 V rated value	11 kW		
— at 400 V rated value	18.5 kW		
— at 500 V rated value	22 kW		
— at 690 V rated value	37 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		
maximum short-circuit current breaking capacity (Icu)			
 at AC at 240 V rated value 	100 kA		
 at AC at 400 V rated value 	65 kA		
 at AC at 500 V rated value 	12 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	30 kA		
at 500 V rated value	6 kA		
at 690 V rated value	3 kA		
response 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	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	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	
• for live parts at 690 V		
— downwards	150 mm	
— upwards	150 mm	
— backwards	0 mm	
— at the side— forwards	30 mm 0 mm	
	UIIIII	
Connections/ Terminals		
Connections/ Terminals type of electrical connection	screw-type terminals Top and bottom	
Connections/ Terminals type of electrical connection • for main current circuit	screw-type terminals	
type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	screw-type 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	screw-type terminals Top and bottom	
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	screw-type terminals Top and bottom 2x (2.5 16 mm²)	
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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 Certificate







Marine / Shipping



LRS





Miscellaneous

other

Confirmation



Railway

Environment

Special Test Certificate Confirmation



Siemens EcoTech



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=3RV2341-4FC10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2341-4FC10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2341-4FC10

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

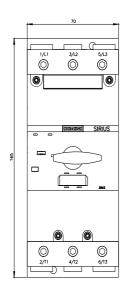
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2341-4FC10\&lang=en}$

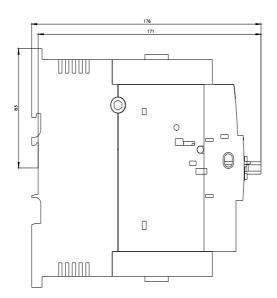
Characteristic: Tripping characteristics, I2t, Let-through current

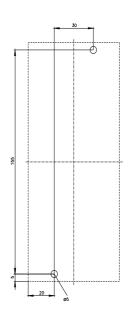
https://support.industry.siemens.com/cs/ww/en/ps/3RV2341-4FC10/char

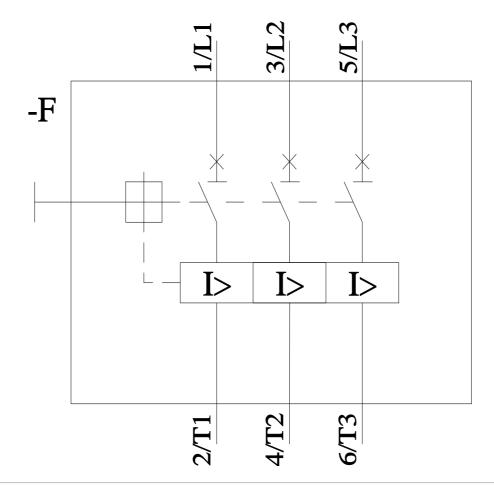
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2341-4FC10&objecttype=14&gridview=view1









last modified:

11/6/2024

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