SIEMENS

Data sheet 3RV2341-4YC10

Circuit breaker size S3 for starter combination Rated current 93 A N-release 1300 A screw terminal Standard switching capacity



Figure similar

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] total typical	34 W
Insulation voltage with degree of pollution 3 rated	1 000 V
value	
Surge voltage resistance rated value	8 kV
maximum permissible voltage for safe isolation	
 in networks with grounded star point between 	400 V
main and auxiliary circuit	
• in networks with grounded star point between	400 V
main and auxiliary circuit	

Protection class IP	
• on the front	IP20
of the terminal	IP00
Shock resistance	
• acc. to IEC 60068-2-27	25g / 11 ms Sinus
Mechanical service life (switching cycles)	
of the main contacts typical	25 000
 of auxiliary contacts typical 	25 000
Electrical endurance (switching cycles)	
• typical	25 000
Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529
Reference code acc. to DIN EN 81346-2	Q
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 %
Main circuit	
Number of poles for main current circuit	3
Operating voltage	
• rated value	690 V
• at AC-3 rated value maximum	690 V
Operating frequency rated value	50 60 Hz
Operating current rated value	93 A
Operating current	
• at AC-3	
— at 400 V rated value	93 A
Operating power	
• at AC-3	
— at 400 V rated value	45 000 W
— at 500 V rated value	55 000 W
— at 690 V rated value	90 000 W
Operating frequency	
• at AC-3 maximum	15 1/h
Protective and monitoring functions	
Product function	
Ground fault detection	No
Phase failure detection	No

Operational short-circuit current breaking capacity (Ics) at AC	
• at 240 V rated value	100 000 A
● at 400 V rated value	30 000 A
● at 500 V rated value	4 000 A
● at 690 V rated value	3 000 A
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	8 kA
• at AC at 690 V rated value	5 kA
Response value current	
• of instantaneous short-circuit trip unit	1 300 A
UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
● at 480 V rated value	93 A
at 600 V rated value	93 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 three-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
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
Height	165 mm
Width	70 mm
Depth	97 mm
Required spacing	
• with side-by-side mounting	
with side-by-side mountingforwards	0 mm
	0 mm 0 mm 150 mm

— downwards	150 mm
— at the side	0 mm
for grounded parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	150 mm
— at the side	30 mm
— downwards	150 mm
• for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	150 mm
— downwards	150 mm
— at the side	30 mm

Connections/Terminals				
Product function				
 removable terminal for auxiliary and control 	No			
circuit				
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)			
— single or multi-stranded	2x (2,5 50 mm²), 1x (10 70 mm²)			
— finely stranded with core end processing	2x (2.5 35 mm²), 2.5 50 mm²			
Tightening torque				
• for ring cable lug				
— for main contacts	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	
B10 value	
 with high demand rate acc. to SN 31920 	5 000
Proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	50 %
 with high demand rate acc. to SN 31920 	50 %
T1 value for proof test interval or service life acc. to IEC 61508	10 y

Display version

• for switching status

Handle

General Product Approval

Declaration of Conformity

Test Certificates











Special Test Certificate

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Marine / Shipping

other

Certificates

Declaration of the Compliance with the order





Confirmation



Miscellaneous

Railway

Vibration and Shock

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2341-4YC10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2341-4YC10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2341-4YC10

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2341-4YC10&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2341-4YC10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2341-4YC10&objecttype=14&gridview=view1







