SIEMENS

Data sheet 3RV2341-4MC10

CIRCUIT-BREAKER SIZE S3, FOR STARTER COMBINATION, RATED CURRENT 100A, N-REL.1300A SCREW TERMINAL, STANDARD BREAKING 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	38 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		
Equipment marking 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	100 A		
Operating current			
• at AC-3			
— at 400 V rated value	100 A		
Operating power			
• at AC-3			
— at 230 V rated value	30 000 W		
— at 400 V rated value	45 000 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		
. Hada tahara dataahan			

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	400.4		
• at 480 V rated value	100 A		
• at 600 V rated value	100 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	176 mm		
Required spacing			
with side-by-side mounting			
— forwards	0 mm		
— Backwards	0 mm		
— upwards	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 circuit 	No
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)
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

Certificates/approvals

General Product Approval

Declaration of Conformity

Test

Certificates











Special Test Certificate

Test	other		Railway
Certificates			
Declaration of the Compliance with the order	Confirmation	Miscellaneous	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=3RV2341-4MC10

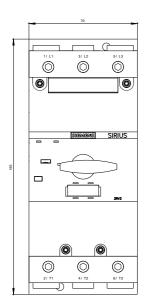
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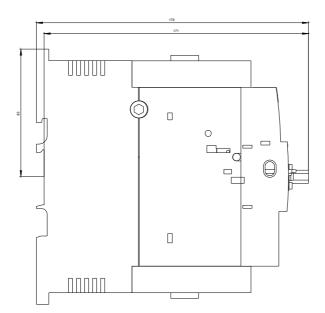
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2341-4MC10

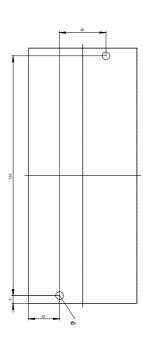
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

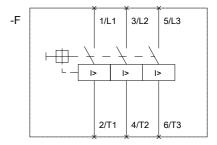
https://support.industry.siemens.com/cs/ww/en/ps/3RV2341-4MC10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2341-4MC10&lang=en











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