SIEMENS

Data sheet

3RV2341-4MC10



Circuit breaker size S3 for starter combination Rated current 100 A N-release 1300 A screw terminal Standard switching capacity

69 19		
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 	44 W	
 at AC in hot operating state per pole 	14.7 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 (switching cycles)		
 of the main contacts typical 	25 000	
 of auxiliary contacts typical 	25 000	
electrical endurance (switching cycles) typical	25 000	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	03/01/2017	
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 	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	100 A	
operational current		
 at AC-3 at 400 V rated value 	100 A	
 at AC-3e at 400 V rated value 	100 A	
operating power		
• at AC-3		
— at 230 V rated value	30 kW	

— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	90 kW
• at AC-3e	
— at 230 V rated value	30 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	90 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
breaking capacity maximum short-circuit current (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
breaking capacity operating short-circuit current (lcs)	
at AC	
at 240 V rated value	100 kA
• at 400 V rated value	30 kA
• at 500 V rated value	4 kA
at 690 V rated value	3 kA
response value current of instantaneous short-circuit trip	1 300 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	100 A
at 600 V rated value	100 A
	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 3-phase AC motor at 200/200 V reted value	20 hz
- 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
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
fastening method	according to DIN EN 60715
fastening method height	
-	according to DIN EN 60715
height	according to DIN EN 60715 165 mm
height width	according to DIN EN 60715 165 mm 70 mm
height width depth	according to DIN EN 60715 165 mm 70 mm
height width depth required spacing	according to DIN EN 60715 165 mm 70 mm 176 mm
height width depth required spacing • with side-by-side mounting at the side	according to DIN EN 60715 165 mm 70 mm 176 mm
height width depth required spacing • with side-by-side mounting at the side • for grounded parts at 400 V	according to DIN EN 60715 165 mm 70 mm 176 mm 0 mm
height width depth required spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards	according to DIN EN 60715 165 mm 70 mm 176 mm 0 mm 70 mm
height width depth required spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards	according to DIN EN 60715 165 mm 70 mm 176 mm 70 mm 70 mm 70 mm
height width depth required spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards — at the side	according to DIN EN 60715 165 mm 70 mm 176 mm 70 mm 70 mm 70 mm
height width depth required spacing • with side-by-side mounting at the side • for grounded parts at 400 V	according to DIN EN 60715 165 mm 70 mm 176 mm 70 mm 70 mm 70 mm 10 mm
height width depth required spacing • with side-by-side mounting at the side • for grounded parts at 400 V	according to DIN EN 60715 165 mm 70 mm 0 mm 70 mm 70 mm 10 mm 70 mm
height width depth required spacing • with side-by-side mounting at the side • for grounded parts at 400 V downwards upwards at the side • for live parts at 400 V downwards upwards upwards upwards upwards upwards at the side	according to DIN EN 60715 165 mm 70 mm 0 mm 70 mm 70 mm 10 mm 70 mm 70 mm 70 mm 70 mm
height width depth required spacing • with side-by-side mounting at the side • for grounded parts at 400 V downwards upwards at the side • for live parts at 400 V downwards upwards upwards upwards upwards	according to DIN EN 60715 165 mm 70 mm 0 mm 70 mm 70 mm 10 mm 70 mm 70 mm 70 mm 70 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	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 mm ²), 1x (10 70 mm ²)
 finely stranded with core end processing 	2x (2.5 35 mm ²), 1x (2.5 50 mm ²)
— finely stranded without core end processing	2x (10 35 mm ²), 1x (10 50 mm ²)
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	
B10 value	
	E 000
with high demand rate according to SN 31920	5 000
proportion of dangerous failures	F0.0/
with low demand rate according to SN 31920	50 %
with high demand rate according to SN 31920	50 %
T1 value for proof test interval or service life according to IEC 61508	10 у
protection class IP on the front according to IEC	IP20
60529	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
display version for switching status	Handle
Certificates/ approvals	
General Product Approval	
Confirmation	
CSA CCC	UL
Declaration of Conformity Test Certifica	ates Marine / Shipping
Special Test C	
	ates/Test Report
EG-Konf.	ABS BUREAU
	VERITAS



Further information

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=3RV2341-4MC10

Cax online generator

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, ...)

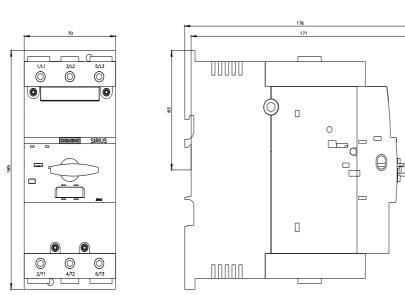
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2341-4MC10&lang=en

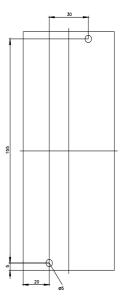
Characteristic: Tripping characteristics, I²t, Let-through current

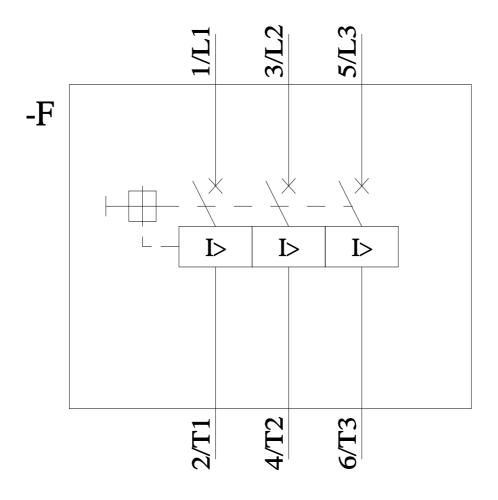
https://support.industry.siemens.com/cs/ww/en/ps/3RV2341-4MC10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2341-4MC10&objecttype=14&gridview=view1







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