SIEMENS

Data sheet

3RV2341-4KC10



Circuit breaker size S3 for starter combination Rated current 75 A N-release 975 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 	38 W
 at AC in hot operating state per pole 	12.7 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
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 %
/ain 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	75 A

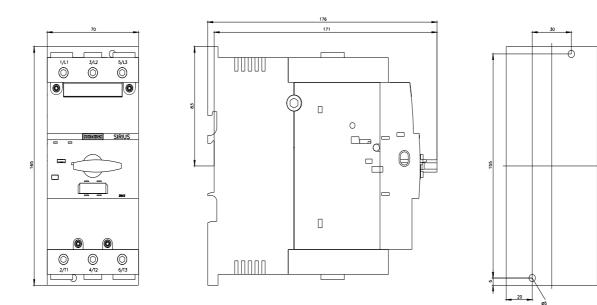
operational current

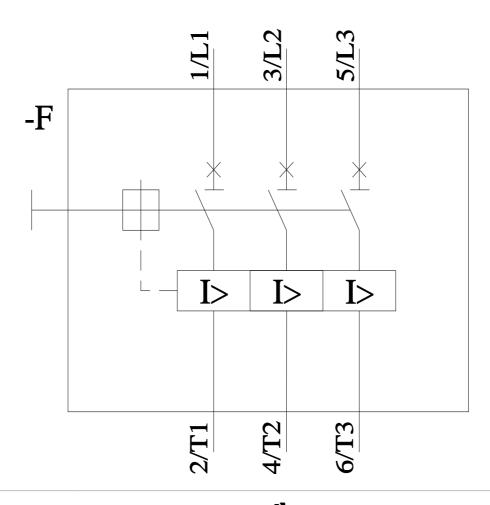
at AC-3 at 400 V rated value	75 A
at AC-3e at 400 V rated value	75 A
operating power	
• at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	45 kW
— at 690 V rated value	55 kW
• at AC-3e	
— at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	45 kW
— at 690 V rated value	55 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 	8 kA
 at AC at 690 V rated value 	5 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	4 kA
at 690 V rated value	3 kA
response value current of instantaneous short-circuit trip unit	975 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	75 A
at 600 V rated value	75 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	7.5 hp
— at 230 V rated value	15 hp
for 3-phase AC motor	10 lip
-	25 hr
— at 200/208 V rated value — at 220/230 V rated value	25 hp
	30 hp
- at 460/480 V rated value	60 hp
- at 575/600 V rated value	75 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 	
 for grounded parts at 400 V — downwards 	70 mm
	70 mm 70 mm
- downwards	
— downwards — upwards	70 mm

— 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	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	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				
with low demand rate according to SN 31920	40 %			
-	40 % 50 %			
with high demand rate according to SN 31920				
B10 value with high demand rate according to SN 31920	5 000			
failure rate [FIT] with low demand rate according to SN 31920	50 FIT			
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	Туре А			
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 I	EC 60529 IP20)				
,			inger-safe, for vertical contact from the front				
Display							
display version for switc	hing status	Han	dle				
Approvals Certificates							
General Product Appr	oval						
CE EG-Konf.	UK CA	<u>Confirmation</u>		(UL) III	KC		
General Product Ap- proval	Test Certificates		Marine / Shipping				
EHC	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS	BUREAU VERITAS			
Marine / Shipping			other				
Lloyd's Register us	PRS	RINA	<u>Miscellaneous</u>	<u>Confirmation</u>			
Railway		Environment					
<u>Special Test Certific-</u> <u>ate</u>	<u>Confirmation</u>	EPD	Siemens EcoTech	Environmental Con- firmations			
Further information							
Information on the pac https://support.industry.s Information- and Down https://www.siemens.co Industry Mall (Online of https://mall.industry.siem Cax online generator http://support.automatio Service&Support (Man https://support.industry.s Image database (produ http://www.automation.s Characteristic: Trippin	siemens.com/cs/ww/en/vi nloadcenter (Catalogs, E m/ic10 ordering system) nens.com/mall/en/en/Cata n.siemens.com/WW/CAX uals, Certificates, Char siemens.com/cs/ww/en/pi	Brochures,) alog/product?mlfb=3RV2 order/default.aspx?lange acteristics, FAQs,) s/3RV2341-4KC10 on drawings, 3D model de.aspx?mlfb=3RV2341- st-through current	en&mlfb=3RV2341-4KC1	-			
Further characteristics	Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.asnx?view=Search&mlth=3RV2341-4KC10&objecttyne=14&oridview=view1						

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2341-4KC10&objecttype=14&gridview=view1





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