SIEMENS

Data sheet

3RV2031-4TB15



Circuit breaker size S2 for motor protection class 20 A-release 12...17 A N-release 260 A screw terminal Standard switching capacity with transverse auxiliary switch 1 NO+1 NC

9/13			
product brand name	SIRIUS		
product designation	Circuit breaker		
design of the product	For motor protection		
product type designation	3RV2		
General technical data			
size of the circuit-breaker	S2		
size of contactor can be combined company-specific	S2		
product extension auxiliary switch	Yes		
power loss [W] for rated value of the current			
 at AC in hot operating state 	14.5 W		
 at AC in hot operating state per pole 	4.8 W		
insulation voltage with degree of pollution 3 at AC rated value	690 V		
surge voltage resistance rated value	6 kV		
shock resistance according to IEC 60068-2-27	25g / 11 ms Sinus		
mechanical service life (operating cycles)			
 of the main contacts typical 	50 000		
 of auxiliary contacts typical 	50 000		
electrical endurance (operating cycles) typical	50 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	10/15/2014		
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		
adjustable current response value current of the current- dependent overload release	12 17 A		
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	17 A		
operational current			
• at AC-3 at 400 V rated value	17 A		
• at AC-3e at 400 V rated value	17 A		

operating power	
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	15 kW
• at AC-3e	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	15 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1A
• at 60 V	0.15 A
• at 110 V	0 A
• at 125 V	0 A
• at 220 V	0 A
Protective and monitoring functions	
product function	No
ground fault detection	Yes
phase failure detection	CLASS 20
trip class	
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	100 //
• 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	5 kA
operating short-circuit current breaking capacity (Ics) at AC	400.14
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	260 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	17 A
at 600 V rated value	17 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	1.5 hp
— at 230 V rated value	3 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	5 hp
— at 220/230 V rated value	7.5 hp
— at 460/480 V rated value	15 hp
— at 575/600 V rated value	15 hp
contact rating of auxiliary contacts according to UL	C300 / R300
Short-circuit protection	
product function short circuit protection	Yes

design of the short-circuit trip	magnetic				
design of the fuse link					
 for short-circuit protection of the auxiliary switch required 	fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)				
design of the fuse link for IT network for short-circuit protection of the main circuit					
• at 240 V	none required				
• at 400 V	100				
• at 500 V	80				
● at 690 V	63				
Installation/ mounting/ dimensions					
mounting position	any				
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715				
height	140 mm				
width	55 mm				
depth	149 mm				
required spacing					
with side-by-side mounting at the side	0 mm				
 for grounded parts at 400 V 					
— downwards	50 mm				
— upwards	50 mm				
— at the side	10 mm				
• for live parts at 400 V					
— downwards	50 mm				
— upwards	50 mm				
— at the side	10 mm				
 for grounded parts at 500 V 					
— downwards	50 mm				
— upwards	50 mm				
— at the side	10 mm				
• for live parts at 500 V	10 mm				
- downwards	50 mm				
— upwards	50 mm				
— upwards — at the side	10 mm				
 for grounded parts at 690 V — downwards 	50 mm				
	50 mm				
— upwards	50 mm				
— at the side	10 mm				
• for live parts at 690 V	50 mm				
— downwards	50 mm				
— upwards	50 mm				
— at the side	10 mm				
Connections/ Terminals					
type of electrical connection					
• for main current circuit	screw-type terminals				
for auxiliary and control 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 or stranded	2x (1 25 mm²), 1x (1 35 mm²)				
 — finely stranded with core end processing 	2x (1 16 mm²), 1x (1 35 mm²)				
 for AWG cables for main contacts 	2x (18 3), 1x (18 2)				
type of connectable conductor cross-sections	$2 \wedge (10 \dots 0), 1 \wedge (10 \dots 2)$				
for auxiliary contacts					
-	$2x (0.5 \pm 1.5 \text{ mm}^2) 2x (0.75 \pm 2.5 \text{ mm}^2)$				
 — solid or stranded finally stranded with core and processing 	$2x (0.5 \dots 1.5 \text{ mm}^2), 2x (0.75 \dots 2.5 \text{ mm}^2)$				
— finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)				
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)				
tightening torque	0.45 No.				
for main contacts with screw-type terminals	3 4.5 N·m				
for auxiliary contacts with screw-type terminals	0.8 1.2 N·m				
design of screwdriver shaft	Diameter 5 to 6 mm				

size of the screwdrive	size of the screwdriver tip				Pozidriv size 2			
design of the thread of	of the connection screw							
 for main contacts 	3		M6					
 of the auxiliary and control contacts 			M3					
afety related data								
B10 value								
	d rate according to SN 31	920	5 000)				
with high demand rate according to SN 31920				·				
proportion of dangerous failures			50 %					
with low demand rate according to SN 31920 with high demand rate according to SN 31920			50 % 50 %					
with high demand rate according to SN 31920			50 %					
failure rate [FIT]								
with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC			50 FIT 10 a					
61508								
-	the front according to		IP20					
touch protection on th	ne front according to IE	C 60529	finger-safe, for vertical contact from the front					
display version for swite	ching status		Handle					
ertificates/ approvals								
General Product App	roval					Declaration of Con- formity		
<u>Confirmation</u>		(UL)		KC	EAC	UK CA		
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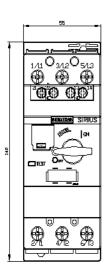
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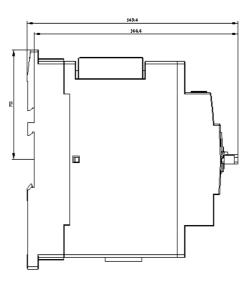
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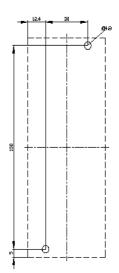
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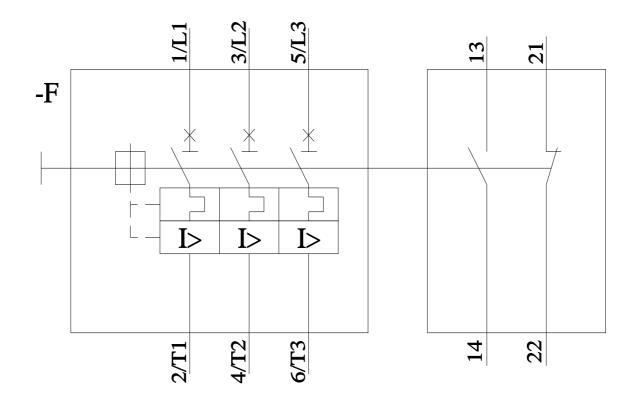
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2031-4TB15&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4TB15/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4TB15&objecttype=14&gridview=view1









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