SIEMENS

Data sheet

3RV2041-4KA10



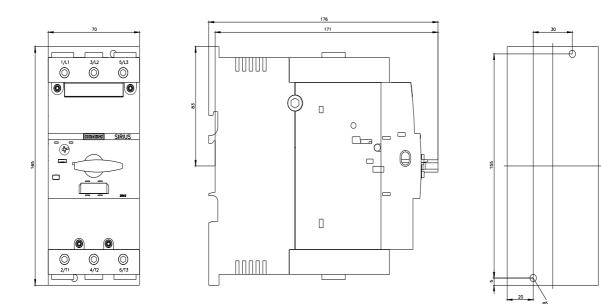
Circuit breaker size S3 for motor protection, CLASS 10 A-release 57...75 A N-release 975 A screw terminal Standard switching capacity

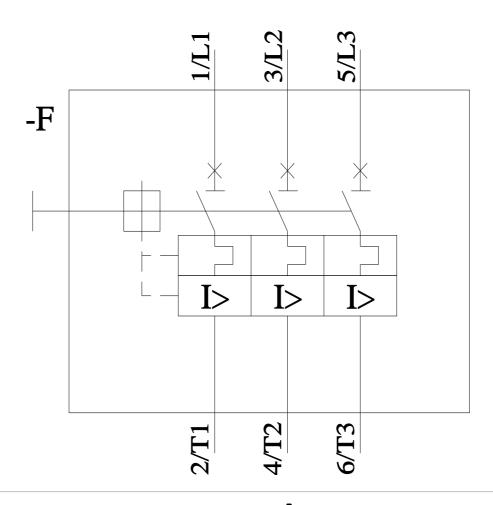
60 - 60	
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S3
size of contactor can be combined company-specific	S3
product extension auxiliary switch	Yes
power loss [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
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
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
adjustable current response value current of the current- dependent overload release	57 75 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	75 A
operational current	

	76 A
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	Yes
trip class	CLASS 10
design of the overload release	thermal
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 hp
-	25 bp
- at 200/208 V rated value	25 hp
- at 220/230 V rated value	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	
— downwards	70 mm
— upwards	70 mm

— at the side		10 mm				
 for live parts at 4 	00 V					
— downwards		70 mm				
— upwards		70 mm				
— at the side		10 mm				
 for grounded par 	ts at 500 V					
— downwards		110 mm				
— upwards		110 mm				
— at the side		10 mm				
 for live parts at 5 	00 V					
— downwards		110 mm				
— upwards		110 mm				
— at the side		10 mm				
 for grounded part 	ts at 690 V					
— downwards		150 mm				
— upwards		150 mm				
— at the side		30 mm				
 for live parts at 6 	90 V					
— downwards		150 mm				
— upwards		150 mm				
— at the side		30 mm				
Connections/ Terminals						
type of electrical conn						
• for main current		screw-type terminals				
circuit	ical connectors for main current	Top and bottom				
type of connectable c	onductor cross-sections					
 for main contacts 	;					
— solid		2x (2.5 16 mm²)				
— solid or stra	nded	2x (2,5 50 mm²), 1x (10 70 mm²)				
 finely strand 	led with core end processing	2x (2.5 35 mm²), 1x (2.5 50 mm²)				
— finely strand	ded 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						
B10 value						
 with high demand 	d rate according to SN 31920	5 000				
proportion of dangero						
• •	rate according to SN 31920	50 %				
	d rate according to SN 31920	50 %				
	nterval or service life according to IEC	10 a				
	the front according to IEC 60529	IP20				
-	the front according to IEC 60529	finger-safe, for vertical contact fro	om the front			
display version for switc	•	Handle				
Certificates/ approvals						
				Eogues in kernel		
General Product App	roval			For use in hazard- ous locations		
	Confirmation	KC				
(MC)	(\!L)		FAL	⟨Łx⟩		
ccc	UL		FUE	ATEX		
For use in hazard-						
ous locations	Declaration of Conformity	Test Certificates		Marine / Shipping		

IECEx	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS		
Marine / Shipping					other		
BUREAU VERITAS		Lloyd's Register us	PRS	RINA	<u>Confirmation</u>		
other	Railway						
DE	<u>Vibration and Shock</u>	<u>Confirmation</u>					
Further information Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).							
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 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=3RV2041-4KA10							
Cax online generator <u>http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2041-4KA10</u> Service&Support (Manuals, Certificates, Characteristics, FAQs,)							
Image database (pro http://www.automation Characteristic: Tripp	y.siemens.com/cs/ww/en/ps duct images, 2D dimensio u.siemens.com/bilddb/cax_d ing characteristics, I ² t, Let y.siemens.com/cs/ww/en/ps	n drawings, 3D models e.aspx?mlfb=3RV2041-4 t-through current		s, EPLAN macros,)			
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2041-4KA10&objecttype=14&gridview=view1							





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