SIEMENS

Data sheet

3RV2721-4BD10



Circuit breaker size S0 for system protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 20 A N-release 260 A screw terminal Standard switching capacity

product brand name	SIRIUS		
product designation	Circuit breaker		
design of the product	For system protection according to UL 489/CSA C22.2 No. 5		
product type designation	3RV2		
General technical data			
size of the circuit-breaker	S0		
product extension auxiliary switch	Yes		
power loss [W] for rated value of the current			
at AC in hot operating state	10.5 W		
at AC in hot operating state per pole	3.5 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	25 g / 11 ms (rectangular impulse and sine pulse)		
mechanical service life (operating cycles)			
of the main contacts typical	100 000		
 of auxiliary contacts typical 	100 000		
electrical endurance (operating cycles) typical	100 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	10/01/2009		
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	20 A		
operational current			
• at AC-3 at 400 V rated value	20 A		
• at AC-3e at 400 V rated value	20 A		
operating power			
• at AC-3			
— at 230 V rated value	5.5 kW		

— at 400 V rated value	7.5 kW			
— at 500 V rated value	11 kW			
— at 690 V rated value	15 kW			
• at AC-3e				
— at 230 V rated value	5.5 kW			
— at 400 V rated value	7.5 kW			
— at 500 V rated value	11 kW			
— at 690 V rated value	15 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			
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	55 kA			
at AC at 500 V rated value	10 kA			
at AC at 690 V rated value	4 kA			
 at 480 AC Y/277 V according to UL 489 rated value 	50 kA			
operating short-circuit current breaking capacity (Ics) at AC				
at 240 V rated value	100 kA			
at 400 V rated value	25 kA			
at 500 V rated value	5 kA			
	2 kA			
at 690 V rated value				
response value current of instantaneous short-circuit trip unit	260 A			
Short-circuit protection				
product function short circuit protection	Yes			
design of the short-circuit trip	magnetic			
design of the fuse link for IT network for short-circuit protection of the main circuit				
• at 400 V	gG 63 A			
• at 500 V	gG 50 A			
• at 690 V	gG 50 A			
Installation/ mounting/ dimensions				
mounting position	any			
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
height	144 mm			
width	45 mm			
depth	97 mm			
required spacing				
• for grounded parts at 400 V				
— downwards	30 mm			
— upwards	30 mm			
— at the side	30 mm			
• for live parts at 400 V				
— downwards	30 mm			
— upwards	30 mm			
— at the side	30 mm			
 at the side for grounded parts at 500 V 				
-	30 mm			
— downwards				
— upwards	30 mm			
— at the side	30 mm			
• for live parts at 500 V				
— downwards	30 mm			
— upwards	30 mm			
— at the side	30 mm			
 for grounded parts at 690 V 				
— downwards	70 mm			

— upwards			70 mm			
— backwards			0 mm			
— at the side			30 mm			
— forwards		0 mm	1			
 for live parts at 690) V					
— downwards		70 m	m			
— upwards		70 m	m			
- backwards		0 mm	0 mm			
— at the side		30 m	30 mm			
- forwards		0 mm	0 mm			
Connections/ Terminals						
type of electrical conne	ction					
 for main current cir 	cuit	screv	screw-type terminals			
arrangement of electrica	al connectors for main current	Тор а	and bottom			
type of connectable cor	nductor cross-sections					
 for main contacts 						
— solid or strand	ded	1 1	10 mm², max. 2x 10 mm²			
— finely strande	— finely stranded with core end processing		1 16 mm², max. 6 + 16 mm²			
 for AWG cables for 	main contacts	2x (1	4 10)			
tightening torque						
	o for main contacts with screw-type terminals		2.5 3 N·m			
design of screwdriver s		Diam	Diameter 5 to 6 mm			
	size of the screwdriver tip		Pozidriv size 2			
design of the thread of the connection screw						
 for main contacts 		M4				
Safety related data						
B10 value						
	rate according to SN 31920	5 000)			
proportion of dangerous failures						
with low 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		50 EI	50 FIT			
	erval or service life according to IEC	10 a				
61508		.0 0	iu a			
protection class IP on the front according to IEC 60529		IP20	IP20			
touch protection on the front according to IEC 60529		finge	finger-safe, for vertical contact from the front			
display version for switching status		Hand	Handle			
Certificates/ approvals						
Conoral Broduct Annua	val				Declaration of Con-	
General Product Appro	vai				formity	
m	Confirmation		<u>KC</u>	FUL	UK	
(\mathbf{u})	(ŸL)			EHC	UK	
ccc	UL UL			LIIL	LH	
Declaration of Con-	Test Certificates		Marine / Shipping		other	
formity	rest certificates		marine / Shipping		outer	
	Time Test Contract on the test	and file	AN VA		October 11	
((<u>Type Test Certific-</u> <u>ates/Test Report</u> <u>ate</u>	<u>ertitiC-</u>	14. E	Lloyds	<u>Confirmation</u>	
	<u></u>			Kegister		
EG-Konf.			BUREAU	LRS		
			VERITAS			
other	Railway					





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=3RV2721-4BD10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2721-4BD10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2721-4BD10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2721-4BD10&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2721-4BD10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2721-4BD10&objecttype=14&gridview=view1









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