SIEMENS

Data sheet

3RV2742-5DD10



Circuit breaker size S3 for system protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 25 A N-release 325 A screw terminal

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	S3	
product extension auxiliary switch	Yes	
power loss [W] for rated value of the current		
 at AC in hot operating state 	14 W	
 at AC in hot operating state per pole 	4.7 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	25 g / 11 ms (rectangular impulse and sine pulse)	
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	Blei - 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 %	
Main circuit		
number of poles for main current circuit	3	
operating voltage		
rated value	20 600 V	
operating frequency rated value	50 60 Hz	
operational current rated value	25 A	
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	



touch protection on the front according to IEC 60529 display version for switching status Approvals Certificates	finger-safe, for vertical contact from the front Handle	
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touch protection on the front according to IEC 60529	tinger-sate, for vertical contact from the front	
-	for any set of the second set of the set of the second	
protection class IP on the front according to IEC 60529	IP20	
T1 value for proof test interval or service life according to IEC 61508	10 a	
with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC	50 FIT	
failure rate [FIT]		
with high demand rate according to SN 31920	50 %	
with low demand rate according to SN 31920	50 %	
proportion of dangerous failures	50.04	
with high demand rate according to SN 31920	5 000	
B10 value	5 000	
afety related data		
for main contacts	M8	
design of the thread of the connection screw		
size of the screwdriver tip	4 mm	
design of screwdriver shaft	Hexagonal socket	
for main contacts with screw-type terminals	4.5 6 N·m	
tightening torque		
the front clamping point		
• for AWG cables for main contacts for box terminal using	10 only front clamping point	
for AWG cables for main contacts	10 only front clamping point	
— finely stranded without core end processing	2x (10 35 mm ²), 1x (10 50 mm ²)	
— finely stranded with core end processing	2x (2.5 35 mm ²), 1x (2.5 50 mm ²)	
— solid or stranded	2x (2,5 50 mm ²), 1x (10 70 mm ²)	
— solid	2x (2.5 16 mm²)	
for main contacts		
type of connectable conductor cross-sections		
arrangement of electrical connectors for main current circuit	Top and bottom	
for main current circuit	screw-type terminals	
type of electrical connection	corou tupo terminolo	
onnections/ Terminals		
- at the side	10 mm	
— upwards	90 mm	
— downwards	90 mm	
	90 mm	
for live parts at 400 V	10 11111	
— upwards — at the side	10 mm	
— upwards	90 mm	
- downwards	90 mm	
for grounded parts at 400 V		
required spacing		
depth	176 mm	
width	70 mm	
fastening method height	screw and snap-on mounting onto 35 mm DIN rail acc 170 mm	
mounting position	any	ording to DIN EN 60716
design of the short-circuit trip nstallation/ mounting/ dimensions	magnetic	
product function short circuit protection	Yes	
hort-circuit protection	Vec	
response value current of instantaneous short-circuit trip unit	325 A	
at 400 V rated value	50 kA	
at 240 V rated value	100 kA	
operating short-circuit current breaking capacity (Ics) at AC		
at 480 V AC according to UL 489 rated value	65 kA	
 at 480 AC Y/277 V according to UL 489 rated value 	65 kA	
at AC at 400 V rated value	100 kA	



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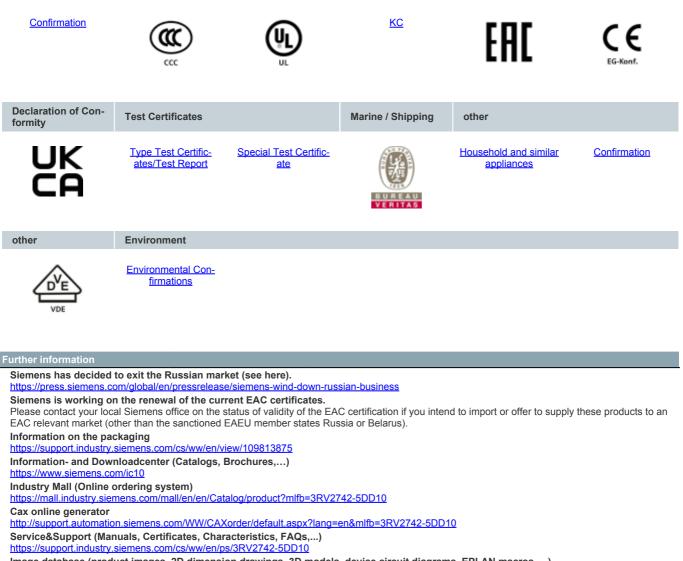


Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

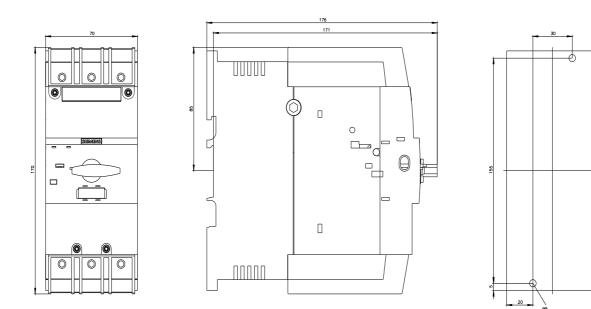
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2742-5DD10&lang=en

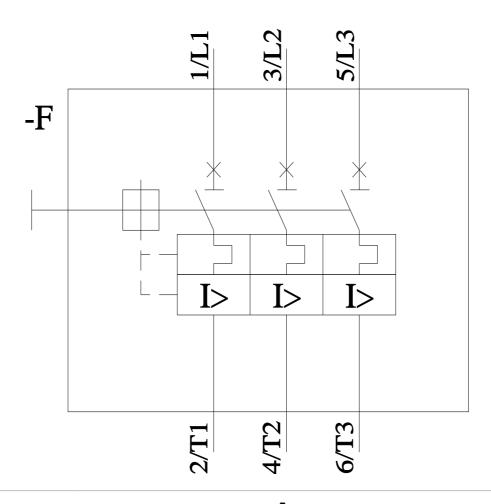
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2742-5DD10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2742-5DD10&objecttype=14&gridview=view1







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