SIEMENS

Data sheet 3RV2742-5BD10



Circuit breaker size S3 for system protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 15 A N-release 225 A screw terminal

product brand name product designation design of the product product type designation SIRIUS Circuit breaker

For system protection according to UL 489/CSA C22.2 No. 5 $\,$

3RV2

product type designation	SRV2
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 	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	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
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
 at AC-3 rated value maximum 	400 V
operating frequency rated value	50 60 Hz
operational current rated value	15 A
operational current	
 at AC-3 at 400 V rated value 	15 A
operating power	
• at AC-3	
— at 400 V rated value	5.5 kW
operating frequency	
• at AC-3 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)	Commun
• at AC at 240 V rated value	100 kA
at AC at 400 V rated value	100 kA
at 480 AC Y/277 V according to UL 489 rated value	65 kA
• at 480 V AC according to UL 489 rated value	65 kA
operating short-circuit current breaking capacity (Ics)	05 KA
at AC	
at 240 V rated value	100 kA
at 400 V rated value	50 kA
response value current of instantaneous short-circuit trip	225 A
unit	
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	170 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 400 V	
— downwards	70 mm
— upwards	70 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	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 with screw-type terminals	4.5 6 N·m
design of the thread of the connection screw	
• for main contacts	M8
Safety related data	
B10 value	
	5 000
with high demand rate according to SN 31920 proportion of dangerous failures.	0 000
proportion of dangerous failures	50 %
with low demand rate according to SN 31920 with high demand rate according to SN 31920	
with high demand rate according to SN 31920 failure rate [EIT]	50 %
failure rate [FIT]	EO FIT
with low demand rate according to SN 31920 The proof for proof text interval or continue life according to	50 FIT
T1 value for proof test interval or service life according to IEC 61508	10 a
protection class IP on the front according to IEC	IP20
60529	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front

Certificates/ approvals

General Product Approval



Confirmation





KC



Declaration of Conformity

Test Certificates

Marine / Shipping

other





Special Test Certificate

Type Test Certificates/Test Report



Confirmation

other



Further information

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=3RV2742-5BD10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2742-5BD10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2742-5BD10

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

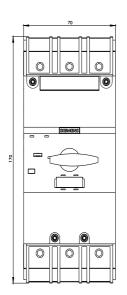
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2742-5BD10&lang=en

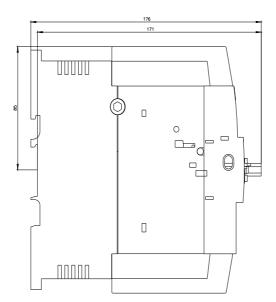
Characteristic: Tripping characteristics, I²t, Let-through current

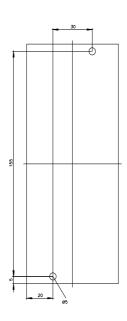
https://support.industry.siemens.com/cs/ww/en/ps/3RV2742-5BD10/char

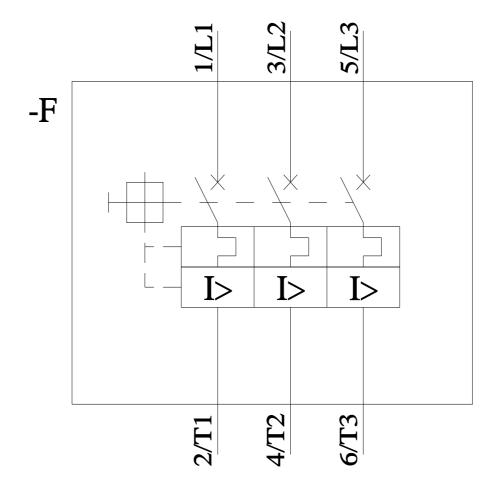
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2742-5BD10&objecttype=14&gridview=view1









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