SIEMENS

Data sheet 3RV2742-5QD10



Circuit breaker size S3 for system protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 70 A N-release 910 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

h	2.1.2
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 	23.5 W
 at AC in hot operating state per pole 	7.8 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 (switching cycles)	
 of the main contacts typical 	25 000
 of auxiliary contacts typical 	25 000
electrical endurance (switching 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	20 480 V
 at AC-3 rated value maximum 	400 V
operating frequency rated value	50 60 Hz
operational current rated value	70 A
operational current	
 at AC-3 at 400 V rated value 	70 A
operating power	
• at AC-3	
— at 400 V rated value	37 kW
operating frequency	
at AC-3 maximum	15 1/h

Protective and monitoring functions	
product function	
·	No
-	No
·	
3	thermal
breaking capacity maximum short-circuit current (Icu)	
	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
breaking capacity operating short-circuit current (Ics)	
at AC	
at 240 V rated value	100 kA
at 400 V rated value	50 kA
response value current of instantaneous short-circuit trip	910 A
unit	
Short-circuit protection	
product function short circuit protection	Yes
	magnetic
Installation/ mounting/ dimensions	
• .	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
	according to DIN EN 60715
1101911	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	
	70 mm
	70 mm
The state of the s	10 mm
	10 111111
• for live parts at 400 V	
	70 mm
The state of the s	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	•
type of connectable conductor cross-sections	
for main contacts	
	2x (2.5 16 mm²)
	2x (2,5 50 mm²), 1x (10 70 mm²)
	2x (2.5 35 mm²), 1x (2.5 50 mm²)
	2x (10 35 mm²), 1x (10 50 mm²)
	2x (14 4)
tightening torque	4.5. 0.11
31	4.5 6 N·m
design of the thread of the connection screw	
for main contacts	M8
Safety related data	
B10 value	
	5 000
proportion of dangerous failures	
	F0.0/
3	
3 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 %
failure rate [FIT]	50 %
"" I I I I I I I ON 04000	50 %
3	50 % 50 FIT
T1 value for proof test interval or service life according to	50 %
T1 value for proof test interval or service life according to IEC 61508	50 % 50 FIT 10 y
T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC	50 % 50 FIT
T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529	50 % 50 FIT 10 y

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- 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=3RV2742-5QD10

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2742-5QD10}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2742-5QD10

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

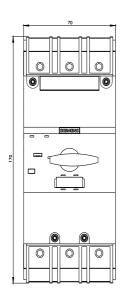
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2742-5QD10&lang=en

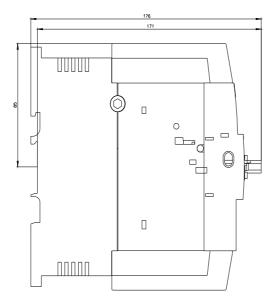
Characteristic: Tripping characteristics, I2t, Let-through current

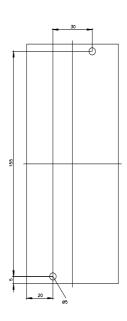
https://support.industry.siemens.com/cs/ww/en/ps/3RV2742-5QD10/char

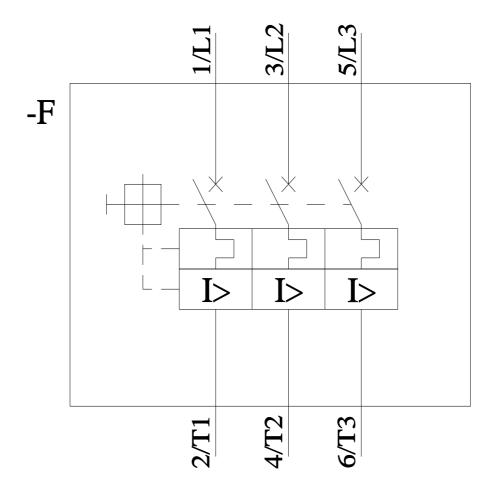
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2742-5QD10&objecttype=14&gridview=view1









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