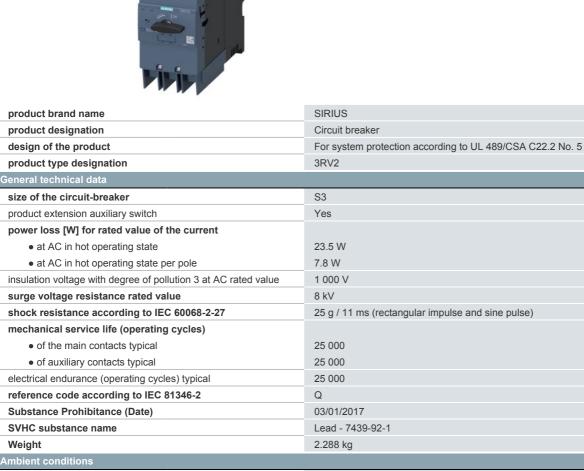
SIEMENS

Data sheet

3RV2742-5QD10



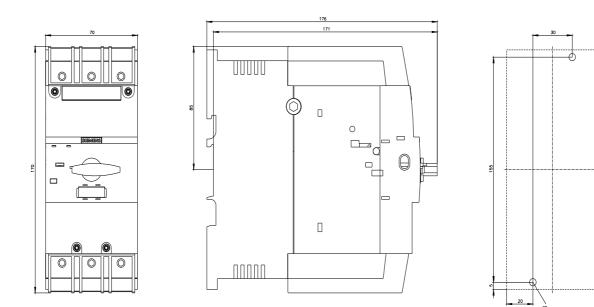
Circuit breaker size S3 for system protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 70 A N-release 910 A screw terminal

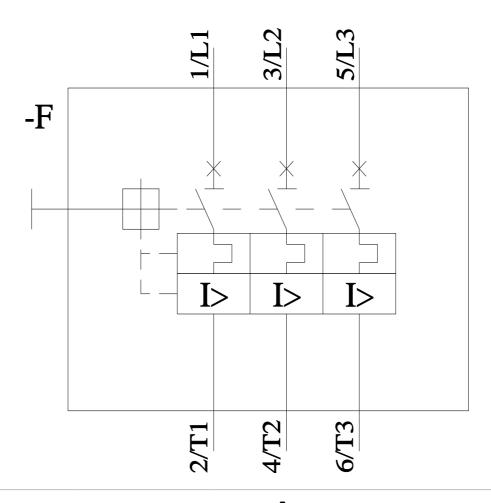


Surge voltage resistance rated value	0 KV
shock resistance according to IEC 60068-2-27	25 g / 11 ms (rectangular impulse and sine pulse)
mechanical service life (operating cycles)	
 of the main contacts typical 	25 000
 of auxiliary contacts typical 	25 000
electrical endurance (operating cycles) typical	25 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
SVHC substance name	Lead - 7439-92-1
Weight	2.288 kg
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 %
Environmental footprint	
global warming potential [CO2 eq] total	283.24 kg
global warming potential [CO2 eq] during manufacturing	18.5 kg
global warming potential [CO2 eq] during sales	1.24 kg
global warming potential [CO2 eq] during operation	265 kg
global warming potential [CO2 eq] after end of life	-1.5 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
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	70 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
• at AC at 400 V rated value	100 kA
 at 480 AC Y/277 V according to UL 489 rated value 	65 kA
operating short-circuit current breaking capacity (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 unit	910 A
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	
for grounded parts at 400 V	00 mm
— downwards	90 mm
— upwards	90 mm
— at the side	10 mm
for live parts at 400 V	90 mm
— downwards — upwards	90 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	
— 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)
 for AWG cables for main contacts 	4
 for AWG cables for main contacts for box terminal using the front clamping point 	4
tightening torque	
 for main contacts with screw-type terminals 	4.5 6 N·m
design of screwdriver shaft	Hexagonal socket
size of the screwdriver tip	4 mm
design of the thread of the connection screw	
• for main contacts	M8
Safety related data	
product function suitable for safety function	Yes
suitability for use	
 safety-related switching on 	No
 safety-related switching OFF 	Yes
service life maximum	10 a

test wear-related serv	vice life necessary	Ye	es			
proportion of dangero	ous failures					
 with low demand 	d rate according to SN 3192	20 40	0 %			
 with high deman 	d rate according to SN 319	920 50	1 %			
B10 value with high d	lemand rate according to	SN 31920 5	000			
failure rate [FIT] with low demand rate according to SN 31920		ng to SN 50	50 FIT			
ISO 13849						
device type according	g to ISO 13849-1	3				
overdimensioning acc	cording to ISO 13849-2 ne	ecessary Ye	es			
EC 61508						
safety device type acc	cording to IEC 61508-2	Ту	vpe A			
■ for proof test inte 61508	erval or service life accordir	ng to IEC 10	a			
Electrical Safety						
protection class IP on	n the front according to IE	EC 60529 IP	20			
touch protection on tl	he front according to IEC	60529 fin	ger-safe, for vertical contac	t from the front		
splay	-					
display version for swite	ching status	Ha	andle			
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