## SIEMENS

## Data sheet

## 3RV2742-5FD10



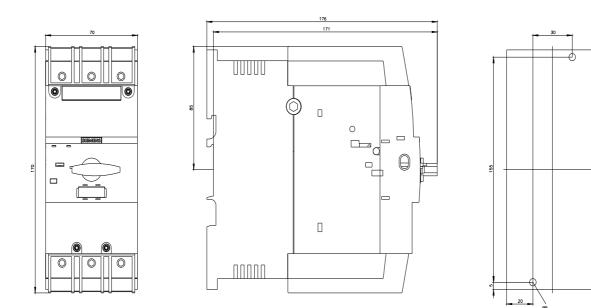
Circuit breaker size S3 for system protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 35 A N-release 455 A screw terminal

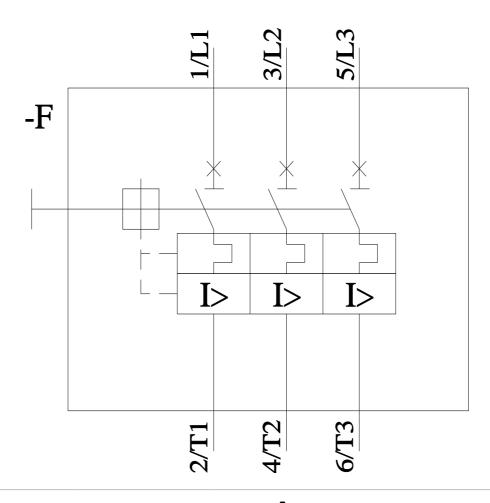


and death and a sure			
product brand name	SIRIUS		
product designation	Circuit breaker		
design of the product	For system protection according to UL 489/CSA C22.2 No. 5		
product type designation	3RV2		
General technical data			
size of the circuit-breaker	S3		
product extension auxiliary switch	Yes		
power loss [W] for rated value of the current			
<ul> <li>at AC in hot operating state</li> </ul>	14 W		
<ul> <li>at AC in hot operating state per pole</li> </ul>	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)			
<ul> <li>of the main contacts typical</li> </ul>	25 000		
<ul> <li>of auxiliary contacts typical</li> </ul>	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		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
<ul> <li>during operation</li> </ul>	-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	35 A		
Protective and monitoring functions			
product function			
<ul> <li>ground fault detection</li> </ul>	No		
<ul> <li>phase failure detection</li> </ul>	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	455 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	
<ul> <li>for grounded parts at 400 V</li> </ul>	
— downwards	90 mm
— upwards	90 mm
— at the side	10 mm
<ul> <li>for live parts at 400 V</li> </ul>	
— downwards	90 mm
— 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 circuit	Top and bottom
type of connectable conductor cross-sections	
<ul> <li>for main contacts</li> </ul>	
— solid	2x (2.5 16 mm²)
— solid or stranded	2x (2,5 50 mm²), 1x (10 70 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (2.5 35 mm²), 1x (2.5 50 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (10 35 mm²), 1x (10 50 mm²)
<ul> <li>for AWG cables for main contacts</li> </ul>	8
<ul> <li>for AWG cables for main contacts for box terminal using</li> </ul>	8
the front clamping point	
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	
<ul> <li>safety-related switching on</li> </ul>	No
safety-related switching OFF	Yes
service life maximum	10 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %
B10 value with high demand rate according to SN 31920	5 000
failure rate [FIT] with low demand rate according to SN 31920	50 FIT
ISO 13849	

device type according	g to ISO 13849-1	3				
overdimensioning acc	cording to ISO 13849-2 n	ecessary Ye	S			
IEC 61508						
safety device type acc	cording to IEC 61508-2	Ту	pe A			
T1 value						
<ul> <li>for proof test interval or service life according to IEC 61508</li> </ul>		ng to IEC 10	10 a			
Electrical Safety						
protection class IP on the front according to IEC 60529		EC 60529 IP2	IP20			
touch protection on the front according to IEC 60529		<b>60529</b> fing	finger-safe, for vertical contact from the front			
Display						
display version for switching status		На	Handle			
Approvals Certificates						
General Product App	roval					
<u>Confirmation</u>		UK CA	CE EG-Konf.		KC	
General Product Approval	Test Certificates		Marine / Shipping	other		
EHC	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	BUREAU VERITAS	<u>Miscellaneous</u>	<u>Confirmation</u>	
other	Environment					
	EPD	Siemens EcoTech	Environmental Con- firmations			
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=3RV2742-5FD10						
Cax online generator						
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2742-5FD10						
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RV2742-5FD10						
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2742-5FD10⟨=en Characteristic: Tripping characteristics, I*t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2742-5FD10/char Further characteristics (e.g. electrical endurance, switching frequency)						
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2742-5FD10&objecttype=14&gridview=view1						





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