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TDK·Lambda RSEV Series

Single phase 250Vac 6 to 30A EMC Filters with DIN rail option

https://product.tdk.com/en/search/emc/emc/power-line/tec_data/nf_rsev
https://www.emea.lambda.tdk.com/uk/products/r-series



Industrial Test LED COMM Broadcast

The RSEV single-phase EMC filters are enclosed in a compact plastic case and can be either chassis or DIN mounted with an optional bracket. They are rated for 250Vac with five current ratings of 6 to 30A in one package size, enabling the optimum attenuation to match the current rating. The connection terminals are integrated into the case and the screws recessed and captive. This avoids dropped or lost hardware. The RSEV series is UL certified for a short circuit current rating of 14,000A with the appropriate breaker.

Features	Benefits
• Compact Size	• Less System Space Utilized
• 6 to 30A Current Ratings	• Optimizes the Attenuation for the Current Rating
• DIN Rail Bracket Option	• Flexible Mounting
• Recessed Captive Screws	• No Lost Hardware
• Safety Certified	• Global Use

Model Selector

Model	Rated Current (A)	SCCR (kA)(1)	HV Pulse Protection	Maximum DC Resistance (mΩ)	Attenuation frequency range (MHz) at 25dB	
					Common Mode	Differential Mode
RSEV-2006	6	14	N	110	0.1 to 30	0.2 to 30
RSEV-2010	10	14	N	40	0.2 to 30	0.2 to 30
RSEV-2016	16	14	N	20	0.6 to 30	0.3 to 30
RSEV-2020	20	14	N	10	0.8 to 30	0.4 to 30
RSEV-2030	30	14	N	6	2 to 30	0.5 to 30
DIN-RSEV (DIN Bracket)	-	-	-	-	-	-

Part Numbering Scheme

RSEV	-	2	06
Series Name		Rated Voltage 2 = 250Vac	Rated Current 006 = 6A 030 = 30A

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Related Products

Type	Current Rating (A)	Series	Low Leakage	Faston on Terminals	Wire Leads	DIN Rail Mount	Fused	Discharge Resistor	Metal Case
Board mount line filter, HV Pulse	0.5 - 6	RSAG							
Board mount line filter	0.5 - 6	RSEG							
General purpose with faston terminals	6	RSEC							
General purpose	0.5 - 6	RSEL	Y	Y	Y				Y
HV pulse protection	0.5 - 6	RSAL	Y	Y	Y				
Power Entry Module with line filter	3, 6, 10	RPE	Y				Y	Y	
Power Entry Module with line filter, HV Pulse	3, 6, 10	RPA	Y					Y	
Multipurpose	3 - 300	RSEN	Y (Up to 30A)			Y (Up to 30A)			
Multipurpose with HV pulse protection	3 - 60	RSAN	Y (Up to 30A)			Y (Up to 30A)			
High attenuation	3 - 300	RSHN	Y (Up to 30A)			Y (Up to 30A)			
High attenuation with pulse protection	3 - 300	RSMN	Y (Up to 30A)			Y (Up to 30A)			
Wide band, high attenuation	6 - 30	RSKN							

* Separate mounting bracket
Click here for TDK-Lambda three phase filters.

Specification

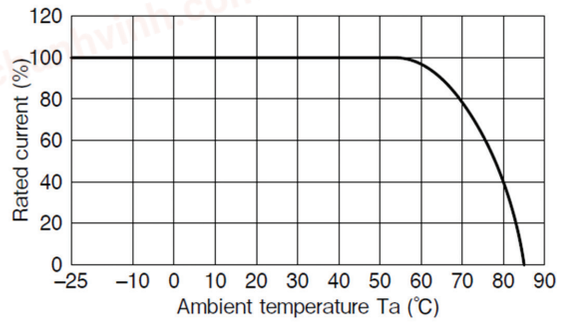
Model		
Input		
Rated Voltage	Vac/Vdc	250 (Safety certified for AC input only)
Input Frequency	Hz	47 - 63
Leakage Current	mA	<1 at 250Vac, 60Hz
Safety Certifications and Markings	-	UL1283, CSA C22.2 No.8 (cUL), EN60939-3 (ENEC15), conforms to RoHS Directive
Environmental		
Operating Temperature	°C	-25 to +85, derating above 55. See derating curve below
Storage Temperature	°C	-25 to +85
Humidity (non condensing)	%RH	Operating and storage 15 - 85
Cooling	-	Convection
Withstand Voltage	Vac	2,500 input to earth
Isolation Resistance (For 1 minute)	MΩ	>100 at 500Vdc
Vibration	-	10-55Hz Amplitude 1.5mm, Sweep for 1 min. X, Y and Z directions for 2 hours each
Other		
Weight (Typ)	g	150
Size (LxWxH)	mm	85 x 39 x 30
Size (LxWxH)	Inches	3.35 x 1.54 x 1.18
Connectors	-	M4 Screw terminals
Warranty	Years	5

Notes
(1) With 100A inverse time circuit breaker. See UL1283 report on website
See website for detailed specifications, test methods and installation manual.
RSEV technical files

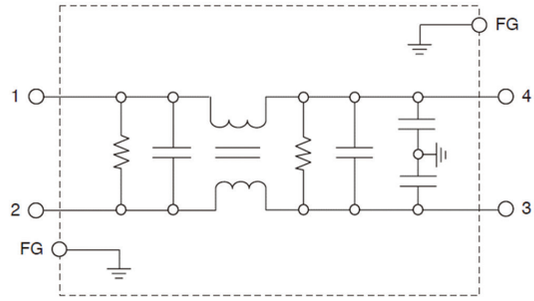
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Mechanical Specification

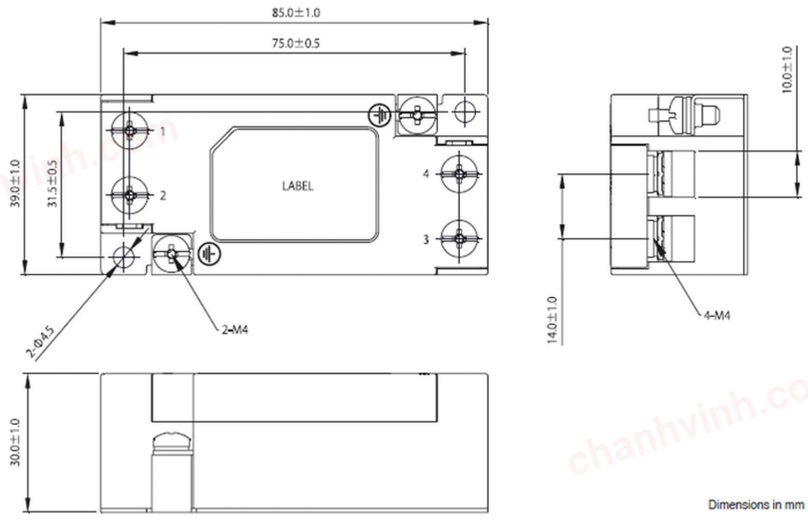
Derating Curve (All models)



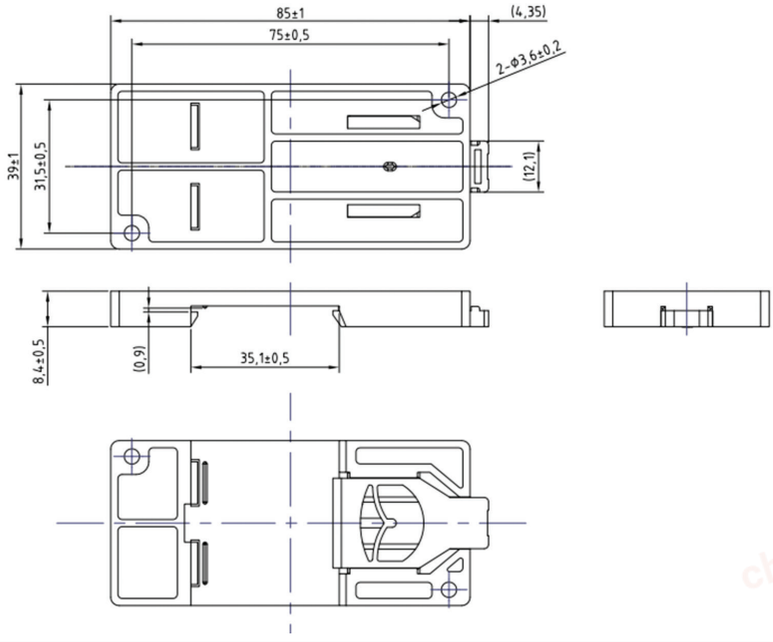
Schematic



RSEV Outline Drawing & Pin Out



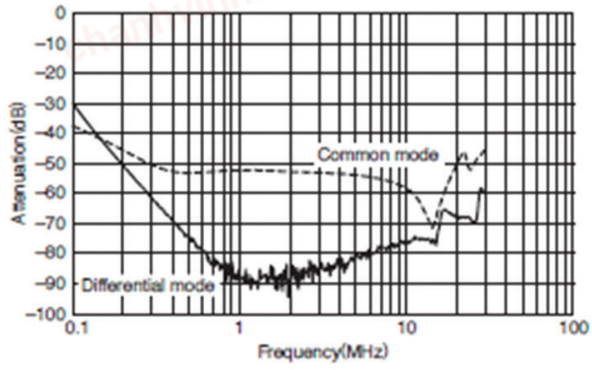
DIN-RSEV Outline Drawing



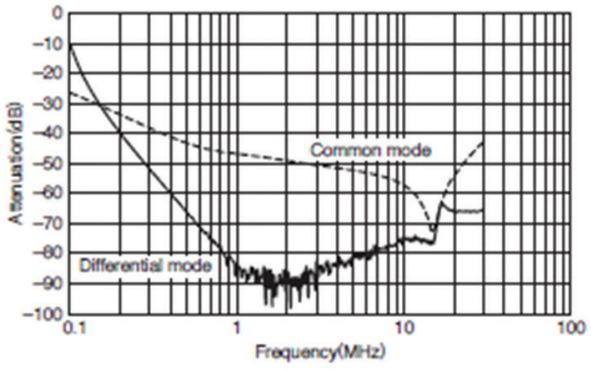
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RSEV Attenuation vs. Frequency

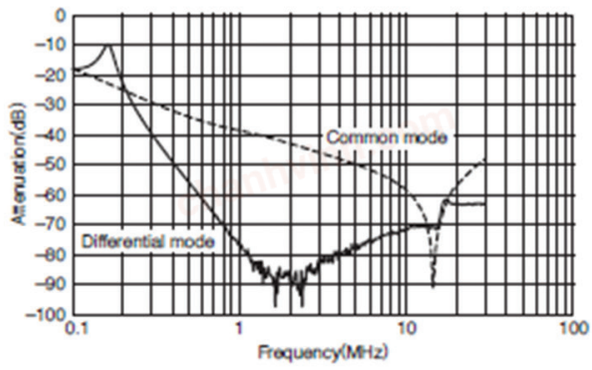
RSEV-2006



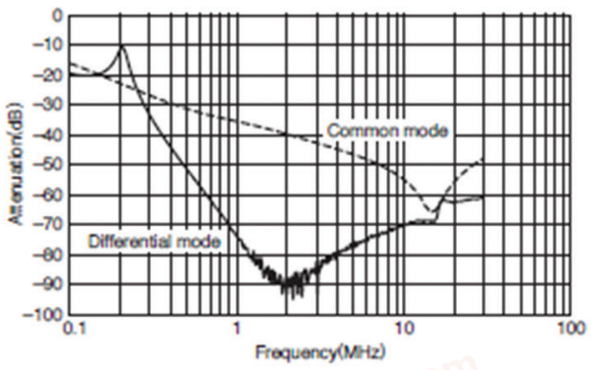
RSEV-2010



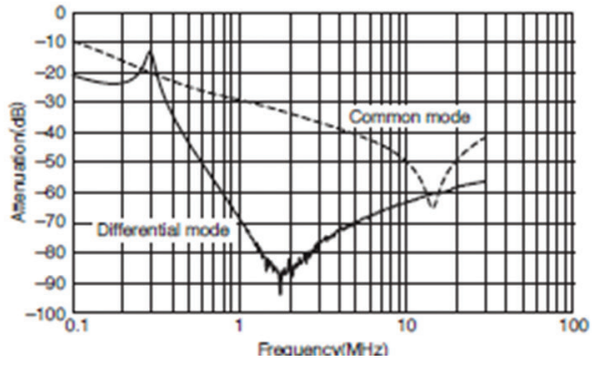
RSEV-2016



RSEV-2020



RSEV-2030



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