RTHN SERIES

High-Attenuation Three-Phase Filter with Many Current Variations (Thin Type)



FEATURES

- 6 to 300A wide range lineup.
- High attenuation, thin type with L2.
- Low-profile design.
- Self-tightening screws and an open/close type cover make wiring work easier.
- Terminal block cover included for safety.
- Compliant with RoHS directives.

SAFETY STANDARDS

UL1283	F
EN60939	1

File No. E62388 (Up to 150A) Licence Ref. No. SE/07115-4 (Up to 300A)

PRODUCT IDENTIFICATION

<u>RTHN</u> -<u>5</u> <u>***</u>

Rated current
Number indicating the rated voltage
Series name

CIRCUIT DIAGRAMS



• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

Rat Part No. volta (AC/	Bated	Rated Rated voltage current AC/DC) (AC/DC)	Withstand voltage	Insulation resistance	Leakage current	Operating temperature range	With derating over	DC resistance (mΩ)	Attenuation frequency range (MHz)		Weight	
	voltage								Common mode	Differential mode	Weight	
	(AC/DC)								at 25dB	at 25dB	(kg)	
RTHN-5006		6A						290 max.	0.1 to 10	0.2 to 30	0.7	
RTHN-5010	10A						120 max.	0.1 to 10	0.2 to 30	0.7		
RTHN-5020		20A		100MΩ min. [DC.500V/ 1min]	2.5mA max.			50 max.	0.1 to 10	0.2 to 30	1.0	
RTHN-5030		30A						26 max.	0.2 to 10	0.2 to 30	1.0	
RTHN-5040		40A	AC.2500V 60s [Between line					20 max.	0.2 to 10	0.2 to 30	2.1	
RTHN-5050		50A				[250V/60Hz]			14 max.	0.2 to 10	0.2 to 30	2.0
RTHN-5060	500V	60A			5mA max. [500V/60Hz]	-25 to +85℃	50°C	10 max.	0.2 to 10	0.2 to 30	2.0	
RTHN-5080		80A						10 max.	0.1 to 10	0.2 to 30	7.0	
RTHN-5100		100A	to grounaj					8 max.	0.1 to 10	0.2 to 30	7.5	
RTHN-5150		150A						6 max.	0.1 to 10	0.2 to 30	11.6	
RTHN-5200		200A						4 max.	0.3 to 20	0.2 to 30	15.8	
RTHN-5250		250A						3 max.	0.3 to 10	0.2 to 30	15.0	
RTHN-5300		300A						2 max.	0.5 to 6	0.2 to 30	14.3	

ELECTRICAL CHARACTERISTICS



SHAPES AND DIMENSIONS

RTHN-5006/5010/5020/5030/5040/5050/5060/5080/5100/5150



RTHN-5200/5250/5300



Dimensions in mm

Part No.	Α	В	С	D	E	F	G	φH	Recommended clamping torque		
RTHN-5006	210	95	50	195	78	M4	M4	4.5			
RTHN-5010	210										
RTHN-5020	040	240	040	105	55	005	05	MA		4.5	
RTHN-5030	240	105	55	225	60	1014	1014	1014		M4∶1.27N • m	
RTHN-5040	300								M5 : 2 5N • m		
RTHN-5050		128	68	280	102	M5	M4	5.5			
RTHN-5060									M6∶4.8N • m		
RTHN-5080	400	420	161	95	410	125	MO	Me		M8:7 64N・m	
RTHN-5100	430	101	1 00	410	135	IVIO	IVIO				
RTHN-5150	473	190	88	453	164	M8	M6	6.5	M10∶11.8N • m		
RTHN-5200									0.5		
RTHN-5250	593	195	103	573	84.5	M10	M8				
RTHN-5300											
	1		1		1	1	1	1	1		

ATTENUATION vs. FREQUENCY CHARACTERISTICS















RTHN-5050 0 -10 -20 -30 Attenuation(dB) Common mode -40 -50 Differential mode -60 -70 -80 -90 10 100 Frequency(MHz)





RTHN-5300

