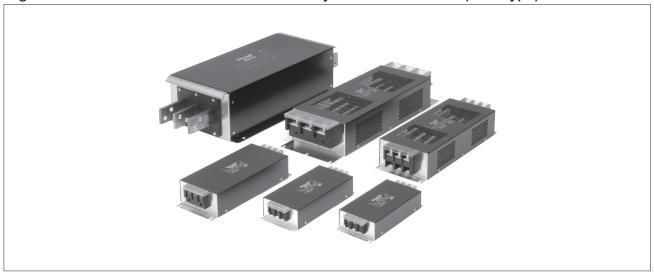
# **RTHN** SERIES

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



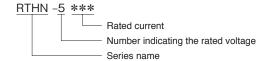
### **■ FEATURES**

- 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.

### **■ SAFETY STANDARDS**

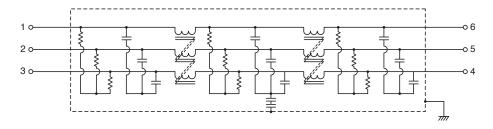
UL 1283 UL File No. E62388 (Up to 150A) EN60939-1/-2 (ENEC14) Licence Ref. No. SE/07115-4

### **■ PRODUCT IDENTIFICATION**



### **■ CONFORMITY TO RoHS Directive**

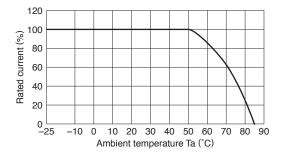
### **■ CIRCUIT DIAGRAM**



# **■ ELECTRICAL CHARACTERISTICS**

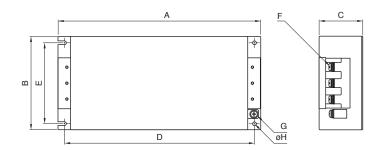
Part No.	Rated voltage (AC/DC)	Rated current (AC/DC)	Withstand voltage	Insulation resistance	Leakage current	Operating temperature range	With derating over	DC resistance (mΩ)	Attenuation frequency range (MHz)		Weight
									Common mode	Differential mode	(kg)
									at 25dB	at 25dB	
RTHN-5006		6A	- AC.2500V - 60s - [Between line - to ground]	100MΩ min. [DC.500V/ 1min]		-25 to +85°C	50°C	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						50 max.	0.1 to 10	0.2 to 30	1.0
RTHN-5030		30A			2.5mA			26 max.	0.2 to 10	0.2 to 30	1.0
RTHN-5040		40A			max.			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						10 max.	0.2 to 10	0.2 to 30	2.0
RTHN-5080		80A			5mA max. [500V/60Hz]			10 max.	0.1 to 10	0.2 to 30	7.0
RTHN-5100		100A						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 10	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

# **■** DERATING GRAPH

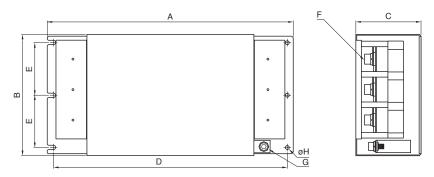


# **■ MECHANICAL**

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



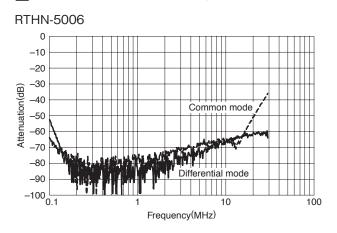
### RTHN-5200/5250/5300

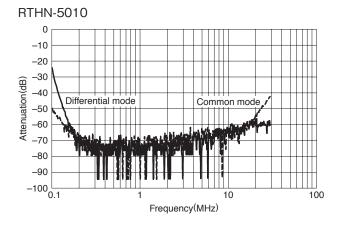


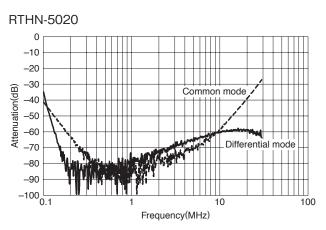
Dimensions in mm

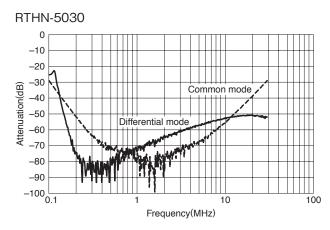
Part No.	Α	В	С	D	Е	F	G	φН	Recommended clamping torque		
RTHN-5006	210	95	50	195	78	M4	M4	4.5			
RTHN-5010	210										
RTHN-5020	240	105	55	225	85	M4	M4				
RTHN-5030	240								M4 : 1.27N · m M5 : 2.5N · m		
RTHN-5040		128	68	280	102	M5	M4	5.5			
RTHN-5050	300								WIS : 2.514 III		
RTHN-5060									M6: 4.8N • m		
RTHN-5080	430	161	85	410	135 164	M8	M6	6.5	M8:7.64N·m		
RTHN-5100	430								WIO - 7.0414 III		
RTHN-5150	473	190	88	453		M8			M10:11.8N • m		
RTHN-5200		195	103	573	84.5	M10	M8				
RTHN-5250	593										
RTHN-5300											

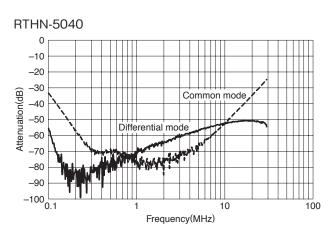
### ■ ATTENUATION vs. FREQUENCY CHARACTERISTICS

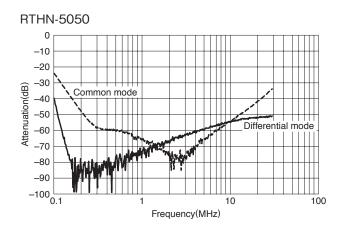


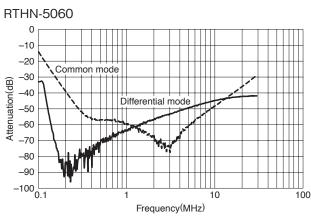


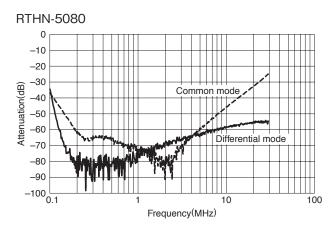




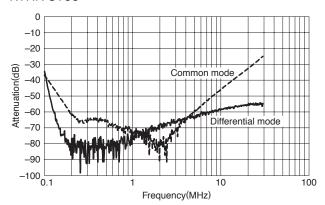




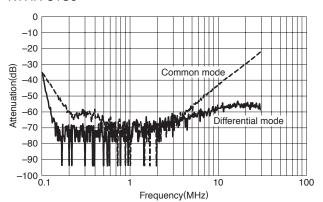




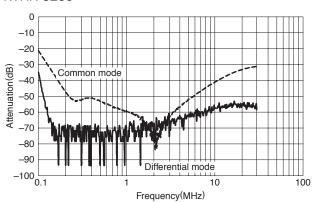
### RTHN-5100



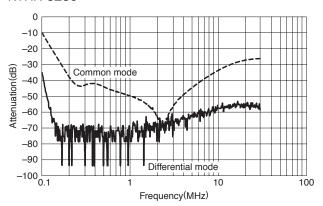
### RTHN-5150



### RTHN-5200



### RTHN-5250



### RTHN-5300

