



## Active harmonic filter with excellent attenuation of current harmonic distortion

Datasheet 3/2019

**APPROVALS:**

**FINHRMAD.(050 - 150)**
**FEATURES**

- Advanced digital control
- Rack unit or wall mounting installation options
- Modular system
- Remote control RS485 standard (Modbus-Profibus optional)

**BENEFITS**

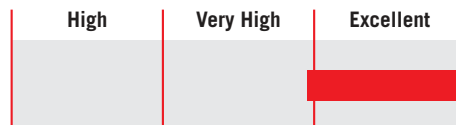
- Complete protection for overvoltage, under voltage, over current and over heating
- Unaffected by network conditions
- Touch screen LCD HMI
- Compensation for inductive and capacitive reactive power

**MARKETS**

- Variable frequency drive
- Commercial building
- Oil and water plant
- Process automation
- End-user plant

**ORDERING CODE**

FINHRMAD .090.		.5	.3F	.R
Model	Current (A)	4 = 400V	3F = 3phase	R = Rack mount
		5 = 480V	4F = 3phase with neutral	W = Wall mount

**ATTENUATION INDICATOR**

**TECHNICAL SPECIFICATIONS**

Nominal voltage	400 / 480 Vac
Frequency	50 – 60 Hz -5 / +3%
Reactive power compensation	50 to 150A
Overall efficiency	>97%
Power grid structure	3-phase, 3-phase plus neutral
Current transformer	150:5 ~ 10,000:5
Harmonic filtering range	2 <sup>nd</sup> to 50th orders
Reaction time	<50 us
Overall response time	<5 ms
Switching frequency	20 KHz
Communication ports	RS485, Ethernet
Communication protocols	Modbus, TCP/IP
Module display interface	4.3 inch color LCD touch screen
Altitude	1500m Over power decreases by 1% every 100m
Operating temperature	-10°C / + 40°C
Protection class	IP 20
Noise level	<56 dB
Color	Ral 7035, Light gray

**ELECTRICAL CHARACTERISTICS**

FINHRMAD	Rated Current (A)	Rated Voltage (Vac)	Power Grid Structure	Cooling Mode	Response Time
.050.4.X.Y.Z	50	400 (-10%+10%)	3P3W ; 3P4W	Air 75L/sec	<5ms
.050.5.X.Y.Z	50	480 (-10%+10%)	3P3W	Air 75L/sec	<5ms
.100.4.X.Y.Z	100	400 (-10%+10%)	3P3W ; 3P4W	Air 75L/sec	<5ms
.100.5.X.Y.Z	100	480 (-10%+10%)	3P3W	Air 75L/sec	<5ms
.150.4.X.Y.Z	150	400 (-10%+10%)	3P3W ; 3P4W	Air 75L/sec	<5ms
.050.5.X.Y.Z	150	480 (-10%+10%)	3P3W	Air 75L/sec	<5ms

X = power grid structure Y = mounting type Z = HMI display

208Vac and 600Vac version available

**MECHANICAL DIMENSIONS mm**

FINHRMAD	A	B	C	D	Weight Kg.
.050.4.X.Y.Z	483	132	653	610	32
.050.5.X.Y.Z	483	132	653	610	32
.100.4.X.Y.Z	483	266	653	610	38
.100.5.X.Y.Z	483	266	653	610	38
.150.4.X.Y.Z	483	266	653	610	40
.050.5.X.Y.Z	483	266	653	610	40

Wall mounted available

**RACK MOUNTED**
