

KEH SERIES

THREE PHASE VERY HIGH PERFORMANCE EMI FILTER

DUAL STAGE DELTA CONFIGURATION

INTRODUCTION

High attenuation and very high performance when used in applications with low Impedance load controlling pulsed, continuous and intermittent interference noise and where high levels of mains borne interference are present.

APPLICATION

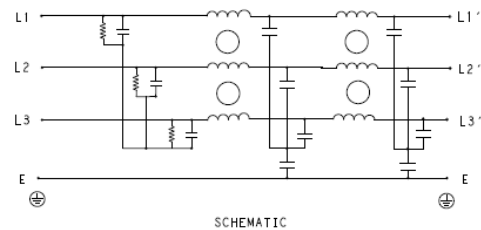
- Computer Server
- Robotics and Automation
- Elevators
- SMPS

FEATURES

- Dual Stage Filter
- Good Attenuation
- Chassis Mounting
- Low Leakage Current
- Very High Performance

APPROVALS AND COMPLIANCE

- UL Recognised
- CSA Certified



Specifications

Electrical Characteristics	
Maximum Continuous Operating Voltage	440/520VAC
Current Ratings	10A to 250A @40°C
Operating Frequency	50/60Hz
High Potential Test Voltage -440VAC	Line to Ground 2632VDC for 1 Minute
	Line to Line 1892VDC for 1 Minute
High Potential Test Voltage -520VAC	Line to Ground 2856VDC for 1 Minute
	Line to Line 2236VDC for 1 Minute
Overload Capability	135% of Rated current for 15 minutes

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Functional Characteristics	
Operating Temperature Range	-25°C to +85°C
Climatic Category	25/85/21
Termination (Depends on Current Rating)	Shock Proof (6-100A), Nut & Bolt (150-250A)
Flammability Corresponding to	UL 94 V-0

Reference Standards	
Design Corresponding to	UL 60939-3 and CSA 22.2 No.8-13

Selection Table - Standard Version

TE Ordering Number	Catalog Number	Rated Current @40°C	Rated Voltage @40°C	Leakage Current (mA)	Weight (Kgs)	Termination	
							
1-1609969-0	10KEHD10AFPD	10A	440 VAC	5	3	4	
1-1609969-1	15KEHD10AFPD	15A	440 VAC	5	3	4	
1-1609969-2	20KEHD10AFPD	20A	440 VAC	5	3	4	
1-1609969-3	40KEHD10AFPD	40A	440 VAC	6	4	10	
1-1609969-4	60KEHD10AFPD	60A	440 VAC	6	4	16	
1-1609969-5	80KEHD10AFPD	80A	440 VAC	10	8	25	
1-1609969-6	100KEHD10AFPD	100A	440 VAC	6	8	25	
1-1609969-7	150KEHD6AFPD	150A	440 VAC	20	9		M10
1-1609969-8	200KEHD6AFPD	200A	440 VAC	20	11		M10
1-1609969-9	250KEHD6AFPD	250A	440 VAC	20	11		M10
4-1609969-0	10KEHD10BFPD	10A	520 VAC	5	3	4	
4-1609969-1	15KEHD10BFPD	15A	520 VAC	5	3	4	
4-1609969-2	20KEHD10BFPD	20A	520 VAC	5	3	4	
4-1609969-3	40KEHD10BFPD	40A	520 VAC	6	4	10	
4-1609969-4	60KEHD10BFPD	60A	520 VAC	6	4	16	
4-1609969-5	80KEHD10BFPD	80A	520 VAC	10	8	25	
4-1609969-6	100KEHD10BFPD	100A	520 VAC	6	8	25	
4-1609969-7	150KEHD6BFPD	150A	520 VAC	20	9		M10
4-1609969-8	200KEHD6BFPD	200A	520 VAC	20	11		M10
4-1609969-9	250KEHD6BFPD	250A	520 VAC	20	11		M10

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Connectors Cross Section

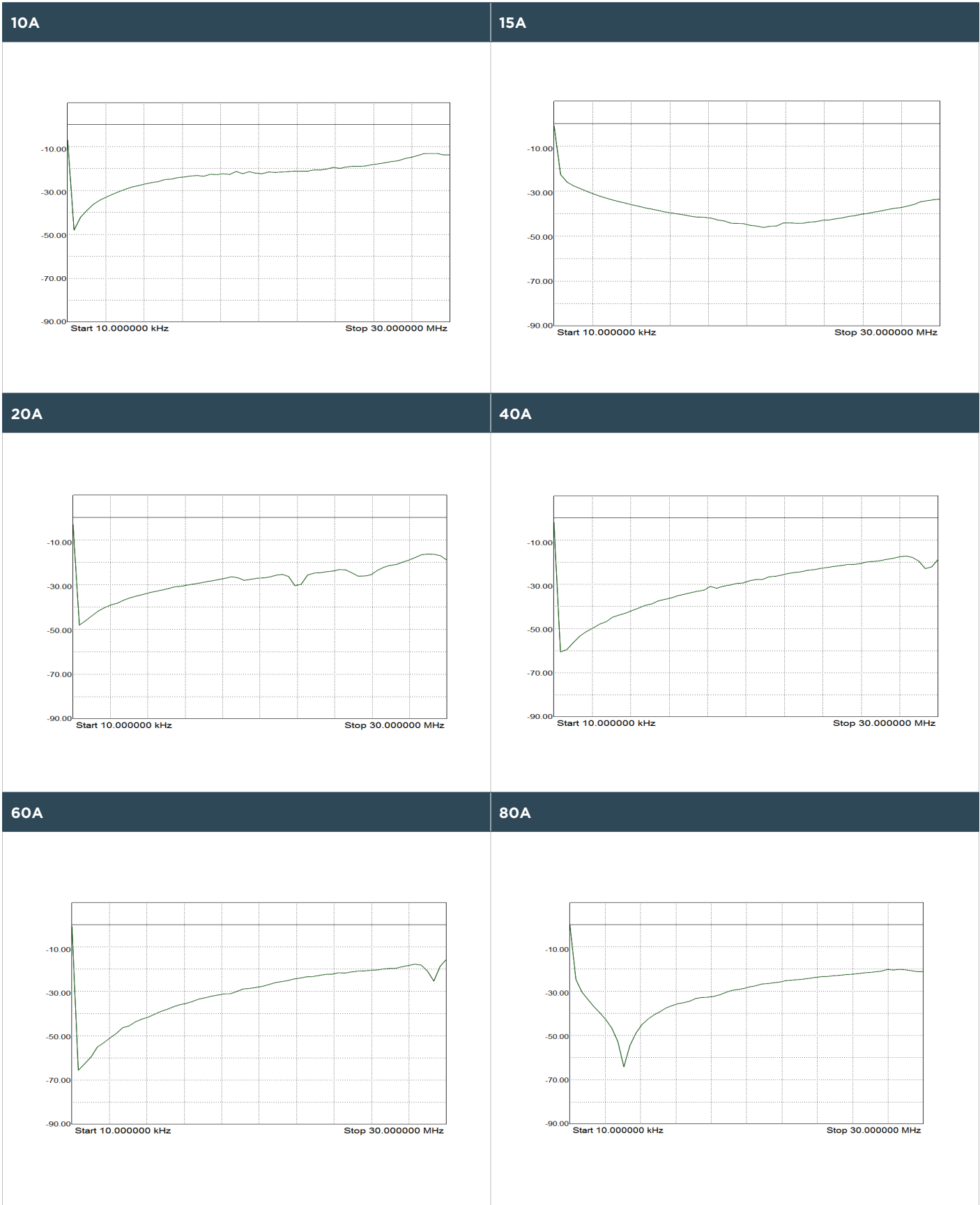
	4	10	16	25	50
Wire Section (mm ²)	4mm ²	10 mm ²	16 mm ²	25 mm ²	50 mm ²
Wire Section (AWG)	12AWG	8 AWG	6 AWG	4 AWG	1/0 AWG
Wire Stripping	max 10mm	max 13.5 mm	max 17 mm	max 17 mm	max 20 mm
Max Recommended Torque	0.5 Nm/4.5 in.lbs	1.2 Nm/10.8 in.lbs	2-2.2 Nm/18-19.8 in.lbs	2 Nm/18 in.lbs	6 Nm/54 in.lbs

Insertion Loss (Typical) - Measured in Closed 50Ω System

		Common Mode 50Ω/50Ω								
		Frequency in MHz								
		0.01	0.05	0.15	0.5	1	3	5	10	30
Current Rating	10A	70	71	75	86	81	63	54	40	38
	15A	65	65	75	80	81	64	55	40	36
	20A	41	44	55	72	67	58	51	38	21
	40A	11	20	72	75	77	66	62	51	32
	60A	27	26	41	78	72	70	65	43	24
	80A	10	8	37	75	65	57	50	44	28
	100A	3	8	35	77	68	57	51	42	28
	150A	18	24	54	58	53	44	40	35	32
	200A	19	22	52	56	54	42	40	35	32
	250A	18	24	50	55	51	42	38	33	32

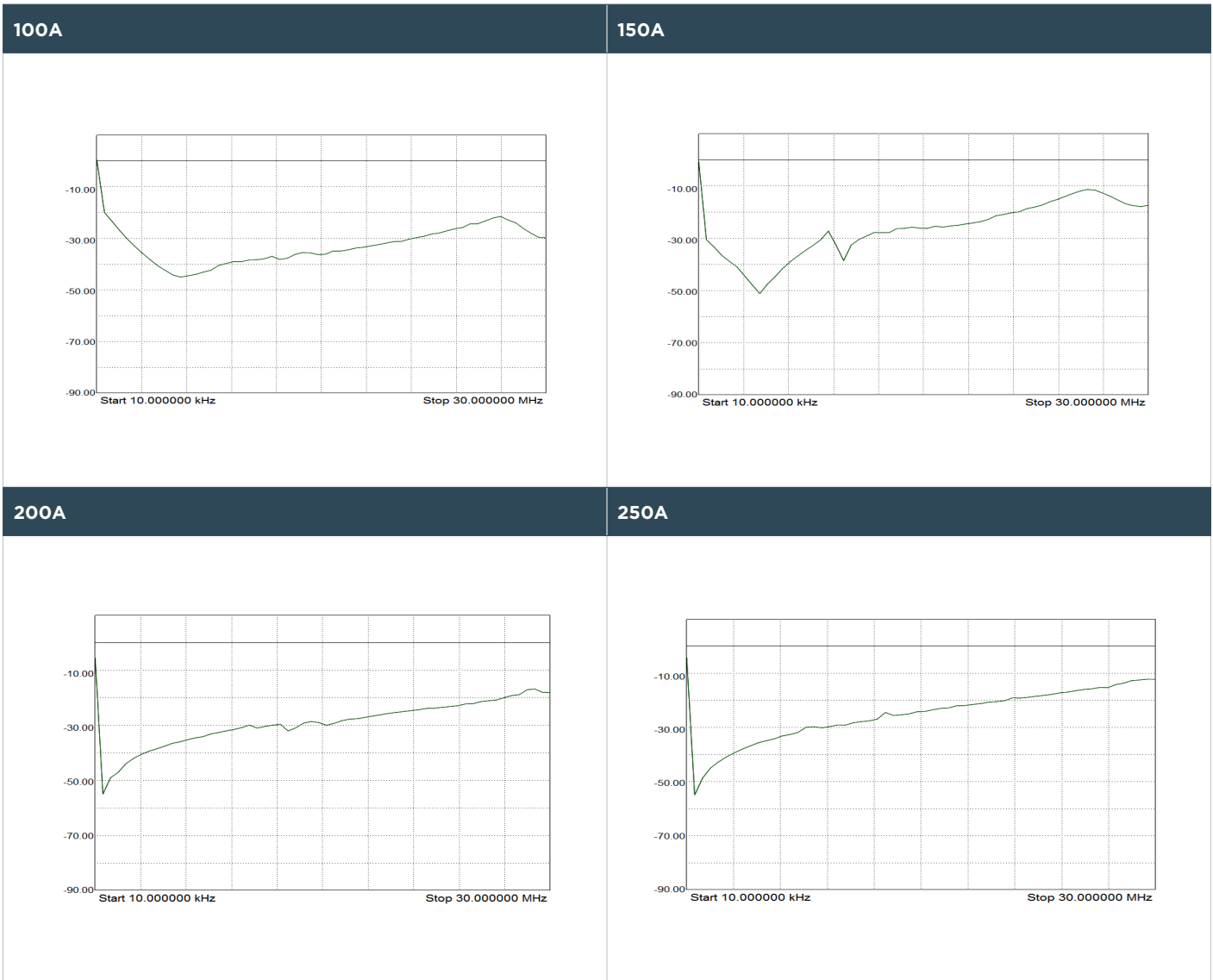
		Common Mode 50Ω/50Ω								
		Frequency in MHz								
		0.01	0.05	0.15	0.5	1	3	5	10	30
Current Rating	10A	51	53	64	82	84	63	48	19	22
	15A	50	51	65	82	85	68	50	20	23
	20A	48	46	60	79	79	59	45	20	26
	40A	29	36	76	78	79	64	48	23	26
	60A	17	20	24	50	61	60	50	46	72
	80A	28	29	32	72	66	46	36	27	22
	100A	28	29	32	75	66	46	37	27	25
	150A	38	41	55	51	47	40	37	30	25
	200A	38	41	55	50	45	40	35	30	22
	250A	38	41	55	52	45	39	35	29	27

Common Mode Insertion Loss (Typical in dB - Refer to table above)



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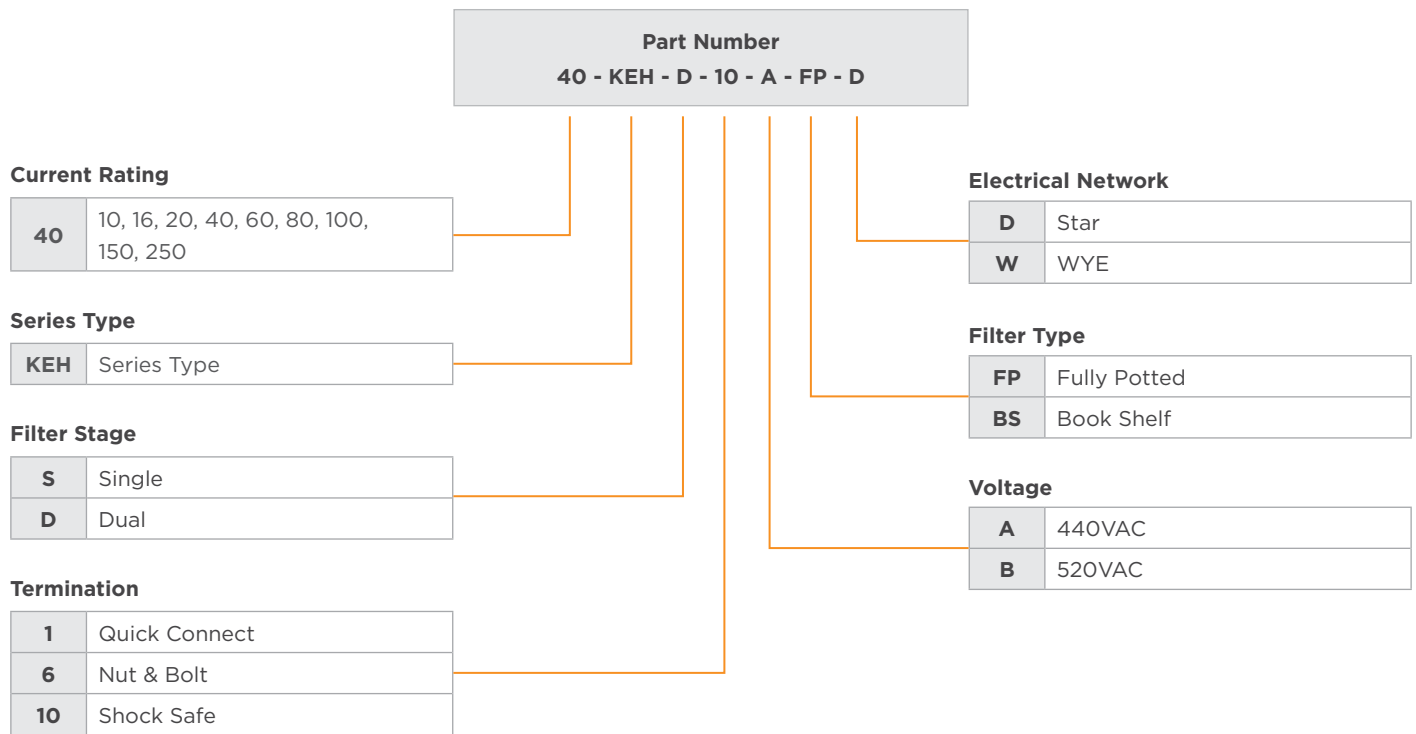


Case Dimensions

10A to 60A Shock Proof Types	80A to 100A Shock Proof Types
Technical drawing of 10A to 60A Shock Proof Types EMI filter. The drawing includes three views: top, side, and front. The top view shows a rectangular unit with dimensions: width 255 ± 0.3 mm, height 106 ± 0.3 mm, and a central square cutout. The side view shows a depth of 240 ± 0.50 mm. The front view shows a width of 140 ± 0.50 mm, a height of 60 ± 0.50 mm, and a central square cutout. The mounting holes are spaced 11.3 REF mm apart. The total width of the mounting holes is 270 mm.	Technical drawing of 80A to 100A Shock Proof Types EMI filter. The drawing includes three views: top, side, and front. The top view shows a rectangular unit with dimensions: width 328 ± 0.3 mm, height 120 ± 0.3 mm, and a central square cutout. The side view shows a depth of 300 ± 0.50 mm. The front view shows a width of 160 ± 0.50 mm, a height of 92 ± 0.50 mm, and a central square cutout. The mounting holes are spaced 18.8 REF mm apart. The total width of the mounting holes is 350 mm.
150A Nut & Bolt Type	200A to 250A Nut & Bolt Types
Technical drawing of 150A Nut & Bolt Type EMI filter. The drawing includes three views: top, side, and front. The top view shows a rectangular unit with dimensions: width 328 ± 0.3 mm, height 120 ± 0.3 mm, and a central square cutout. The side view shows a depth of 300 ± 0.50 mm. The front view shows a width of 160 ± 0.50 mm, a height of 92 ± 0.50 mm, and a central square cutout. The mounting holes are spaced 32 REF mm apart. The total width of the mounting holes is 350 mm.	Technical drawing of 200A to 250A Nut & Bolt Types EMI filter. The drawing includes three views: top, side, and front. The top view shows a rectangular unit with dimensions: width 340 mm, height 170 mm, and a central square cutout. The side view shows a depth of 323 mm. The front view shows a width of 220 mm, a height of 121.5 mm, and a central square cutout. The mounting holes are spaced 35 REF mm apart. The total width of the mounting holes is 373 mm.

All dimensions in mm; Tolerances according: ISO2768-m

HOW TO ORDER



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