

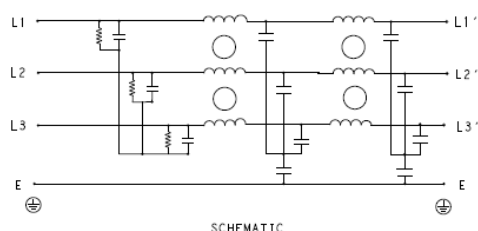
Three Phase Superior Performance EMI Filter – Dual Stage DELTA Configuration

DATASHEET

High attenuation and superior 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.



Typical Circuit Diagram



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

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
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Approvals & Compliance

UL Recognised

CSA Certified



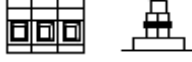
Features

- Dual Stage Filter
- Good Attenuation
- Chassis mounting
- Low Leakage current
- Superior Performance

Applications

- Computer Server
- Robotics and Automation
- Elevators
- SMPS

Selection Table

TE Ordering Number	Catalog Number	Rated Current @40°C	Rated Voltage @40°C	Leakage Current (mA)	Termination 		Weight (Kgs)
1-1609969-0	10KEHD10AFPD	10A	440 VAC	5	41		3
1-1609969-1	15KEHD10AFPD	15A	440 VAC	5	41		3
1-1609969-2	20KEHD10AFPD	20A	440 VAC	5	41		3
1-1609969-3	40KEHD10AFPD	40A	440 VAC	6	10		4
1-1609969-4	60KEHD10AFPD	60A	440 VAC	6	16		4
1-1609969-5	80KEHD10AFPD	80A	440 VAC	10	25		8
1-1609969-6	100KEHD10AFPD	100A	440 VAC	6	25		8
1-1609969-7	150KEHD10AFPD	150A	440 VAC	20		M10	9
1-1609969-8	200KEHD10AFPD	200A	440 VAC	20		M10	11
1-1609969-9	250KEHD10AFPD	250A	440 VAC	20		M10	11
4-1609969-0	10KEHD10BFPD	10A	520 VAC	5	41		3
4-1609969-1	15KEHD10BFPD	15A	520 VAC	5	41		3
4-1609969-2	20KEHD10BFPD	20A	520 VAC	5	41		3
4-1609969-3	40KEHD10BFPD	40A	520 VAC	6	10		4
4-1609969-4	60KEHD10BFPD	60A	520 VAC	6	16		4
4-1609969-5	80KEHD10BFPD	80A	520 VAC	10	25		8
4-1609969-6	100KEHD10BFPD	100A	520 VAC	6	25		8
4-1609969-7	150KEHD10BFPD	150A	520 VAC	20		M10	9
4-1609969-8	200KEHD10BFPD	200A	520 VAC	20		M10	11
4-1609969-9	250KEHD10BFPD	250A	520 VAC	20		M10	11

Connectors Cross Section

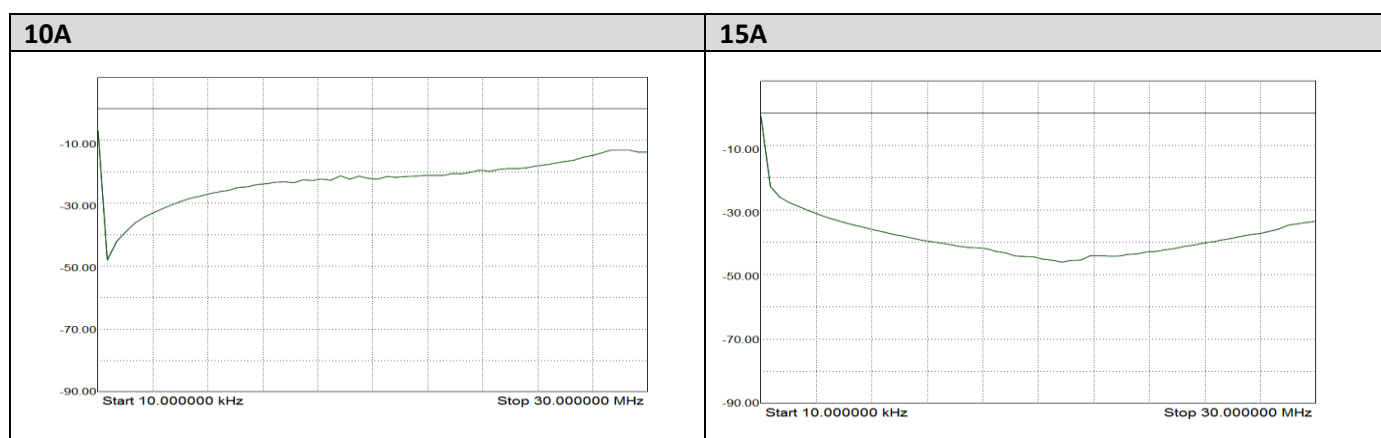
	41	10	16	25	50
Wire Section (mm ²)	4mm ²	10 mm ²	16 mm ²	25 mm ²	50 mm ²
Wire Section (AWG)	12AWG	8 AWG	6 AWG	4 AWG	1/0 AWG
Wire Stripping	Max 10mm	max 13.5 mm	max 17 mm	max 17 mm	max 20 mm
Max Recommended Torque	0.5 Nm / 4.5 in.lbs	1.2 Nm / 10.8 in.lbs	2÷2.2 Nm / 18÷19.8 in.lbs	2 Nm / 18 in.lbs	6 Nm / 54 in.lbs

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

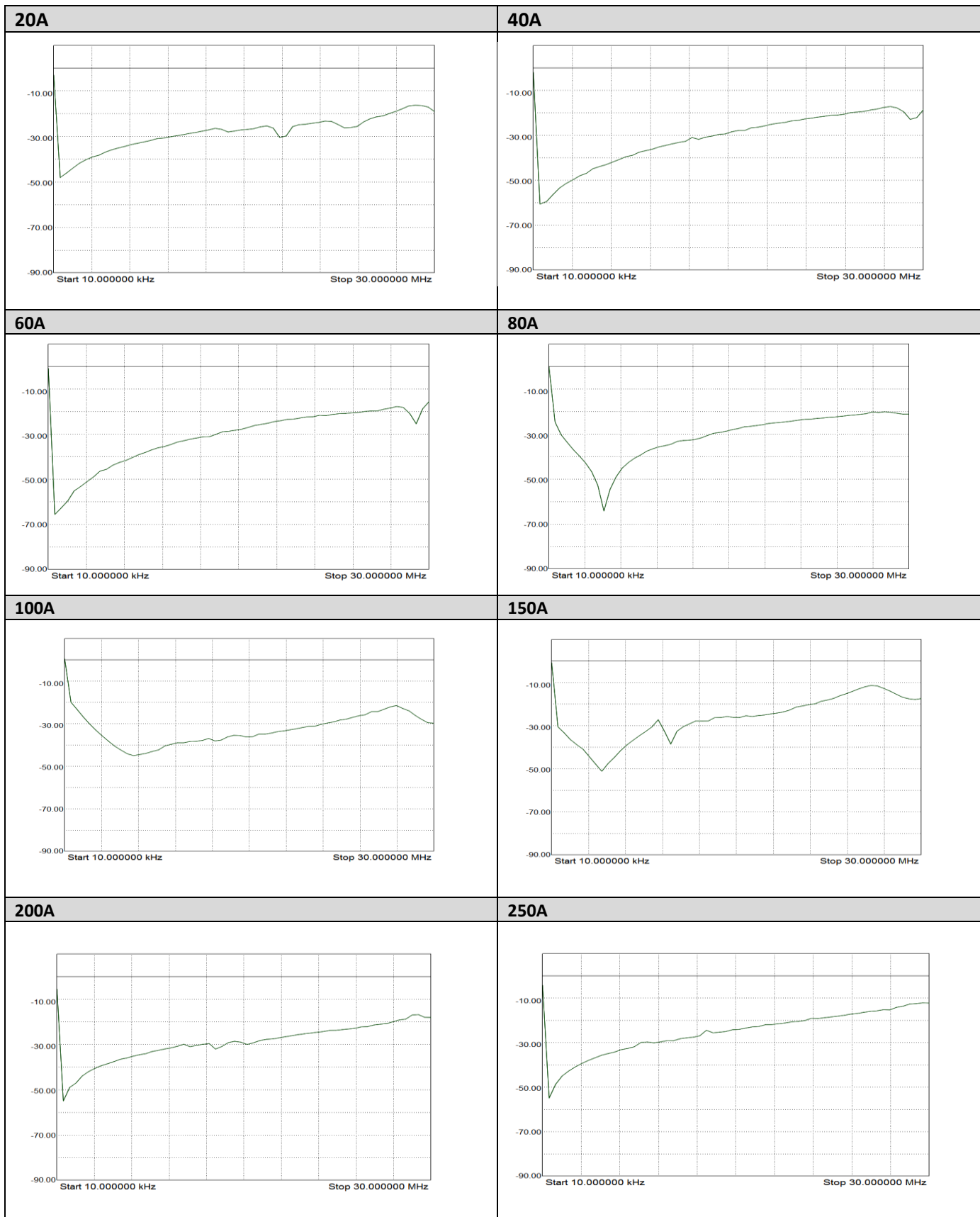
		Common Mode 50Ω / 50Ω								
		Frequency in MHz								
		0.01	0.05	0.15	0.5	1	3	5	10	30
Current Rating	10A	70	71	75	86	81	63	54	40	38
	15A	65	65	75	80	81	64	55	40	36
	20A	41	44	55	72	67	58	51	38	21
	40A	11	20	72	75	77	66	62	51	32
	60A	27	26	41	78	72	70	65	43	24
	80A	10	8	37	75	65	57	50	44	28
	100A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

		Differential 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)



KEH SERIES



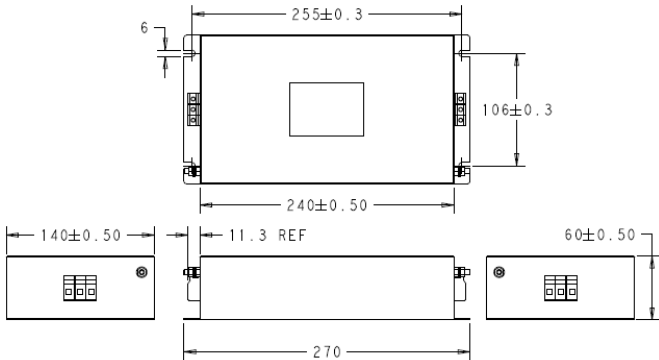
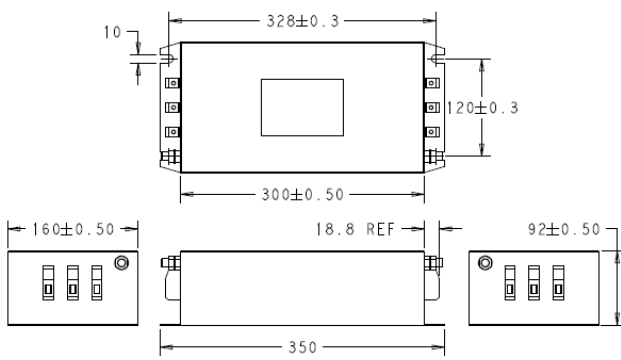
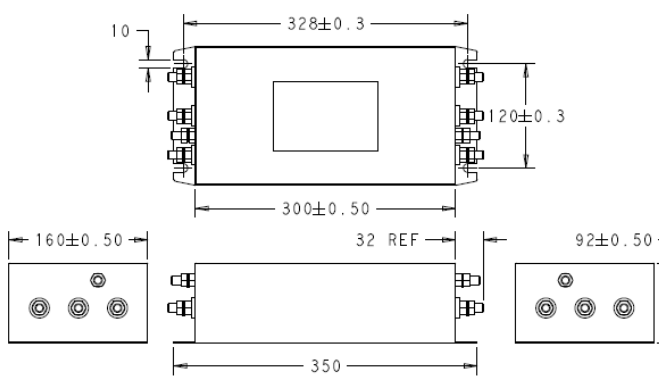
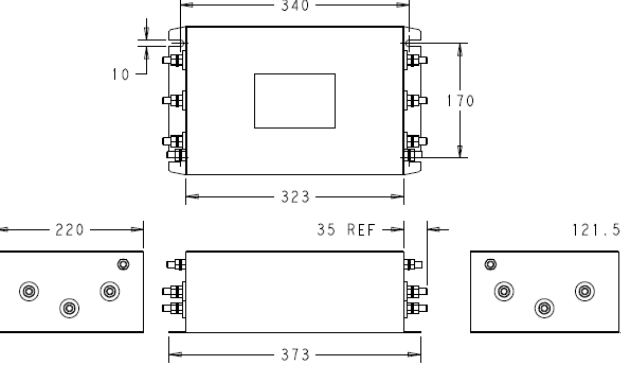
2376467-1
Rev B
Date: 2-Dec-2021

Dimensions in
millimetres

Dimensions Shown for
reference purposes only.
Specifications subject to
change

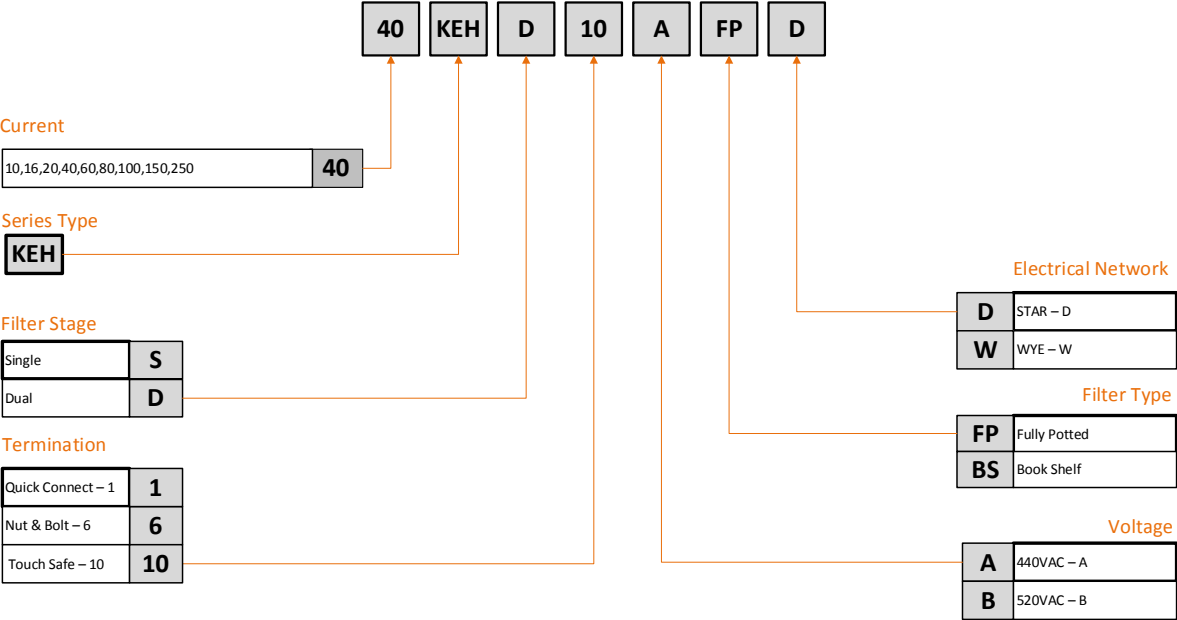
For Email, phone or live chat,
go to: www.te.com/help

Case Dimensions

10A to 60A Shock Proof Types	80A to 100A Shock Proof Types
 Top view dimensions: 255±0.3 (width), 106±0.3 (height), 240±0.50 (inner width), 11.3 REF (inner height), 6 (mounting hole offset). Bottom view dimensions: 140±0.50 (left terminal block width), 270 (total width), 60±0.50 (right terminal block width).	 Top view dimensions: 328±0.3 (width), 120±0.3 (height), 300±0.50 (inner width), 18.8 REF (inner height), 10 (mounting hole offset). Bottom view dimensions: 160±0.50 (left terminal block width), 350 (total width), 92±0.50 (right terminal block width).
150A Nut & Bolt Type	200A to 250A Nut & Bolt Types
 Top view dimensions: 328±0.3 (width), 120±0.3 (height), 300±0.50 (inner width), 32 REF (inner height), 10 (mounting hole offset). Bottom view dimensions: 160±0.50 (left terminal block width), 350 (total width), 92±0.50 (right terminal block width).	 Top view dimensions: 340 (width), 170 (height), 323 (inner width), 35 REF (inner height), 10 (mounting hole offset). Bottom view dimensions: 220 (left terminal block width), 373 (total width), 121.5 (right terminal block width).

All dimensions in mm; Tolerances according: ISO2768-m

How to Order



Mouser Electronics

Authorized Distributor

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[80KEHD10AFPD](#)