

Three Phase General Purpose EMI Filter – Single Stage WYE Configuration

DATASHEET

Three phase General Purpose Filters designed to be used in wide range of applications.



Approvals & Compliance

UL Recognised*

CSA Certified **

*31st July 2020

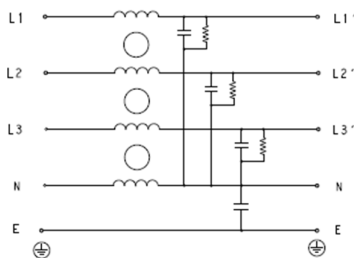
**31st August 2020



Features

- General Purpose 3 Phase with neutral
- Standard Attenuation Performance
- Chassis mounting

Typical Circuit Diagram



Applications

- Industrial Automation
- HVAC
- CNC Machines

Specifications

Electrical Characteristics

Maximum Continuous Operating Voltage	440/520VAC
Current Ratings	1A to 150A @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)	Quick Connect (1-10A)/ Bolt & Nut (15-150A) / Shock Proof (75-100A)
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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KES SERIES



Selection Table

TE Ordering Number	Catalog Number	Rated Current @40°C	Rated Voltage @40°C	Leakage Current (mA)	Termination			Weight (Kgs)
								
1-1609966-0	1KES1AFPW	1A	440 VAC	3	6.3 x 0.8			0.26
1-1609966-1	3KES1AFPW	3A	440 VAC	3	6.3 x 0.8			0.26
1-1609966-2	6KES1AFPW	6A	440 VAC	3	6.3 x 0.8			0.26
1-1609966-3	10KES1AFPW	10A	440 VAC	3	6.3 x 0.8			0.26
1-1609966-4	15KES6AFPW	15A	440 VAC	3		M5		0.7
1-1609966-5	20KES6AFPW	16A	440 VAC	3		M5		0.7
1-1609966-6	25KES6AFPW	20A	440 VAC	5		M5		0.7
1-1609966-7	30KES6AFPW	25A	440 VAC	5		M5		0.7
1-1609966-8	40KES6AFPW	30A	440 VAC	5		M5		0.7
1-1609966-9	50KES6AFPW	52A	440 VAC	5		M6		1.2
2-1609966-0	60KES6AFPW	60A	440 VAC	5		M6		1.2
2-1609966-1	75KES6AFPW	75A	440 VAC	6		M8		9
2-1609966-2	80KES6AFPW	80A	440 VAC	6		M8		9
2-1609966-3	100KES6AFPW	100A	440 VAC	6		M10		9
2-1609966-4	125KES6AFPW	125A	440 VAC	8		M10		9
2-1609966-5	150KES6AFPW	150A	440 VAC	8		M10		9
2-1609966-6	75KES10AFPW	75A	440 VAC	6			16	9
2-1609966-7	80KES10AFPW	80A	440 VAC	6			25	9
2-1609966-8	100KES10AFPW	100A	440 VAC	6			25	9
4-1609966-0	1KES1BFPW	1A	520 VAC	3	6.3 x 0.8			0.26
4-1609966-1	3KES1BFPW	3A	520 VAC	3	6.3 x 0.8			0.26
4-1609966-2	6KES1BFPW	6A	520 VAC	3	6.3 x 0.8			0.26
4-1609966-3	10KES1BFPW	10A	520 VAC	3	6.3 x 0.8			0.26
4-1609966-4	15KES6BFPW	15A	520 VAC	3		M5		0.7
4-1609966-5	20KES6BFPW	16A	520 VAC	3		M5		0.7
4-1609966-6	25KES6BFPW	20A	520 VAC	5		M5		0.7
4-1609966-7	30KES6BFPW	25A	520 VAC	5		M5		0.7
4-1609966-8	40KES6BFPW	30A	520 VAC	5		M5		0.7
4-1609966-9	50KES6BFPW	52A	520 VAC	5		M6		1.2
5-1609966-0	60KES6BFPW	60A	520 VAC	5		M6		1.2
5-1609966-1	75KES6BFPW	75A	520 VAC	6		M8		9
5-1609966-2	80KES6BFPW	80A	520 VAC	6		M8		9
5-1609966-3	100KES6BFPW	100A	520 VAC	6		M10		9
5-1609966-4	125KES6BFPW	125A	520 VAC	8		M10		9
5-1609966-5	150KES6BFPW	150A	520 VAC	8		M10		9
5-1609966-6	75KES10BFPW	75A	520 VAC	6			16	9
5-1609966-7	80KES10BFPW	80A	520 VAC	6			25	9
5-1609966-8	100KES10BFPW	100A	520 VAC	6			25	9

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

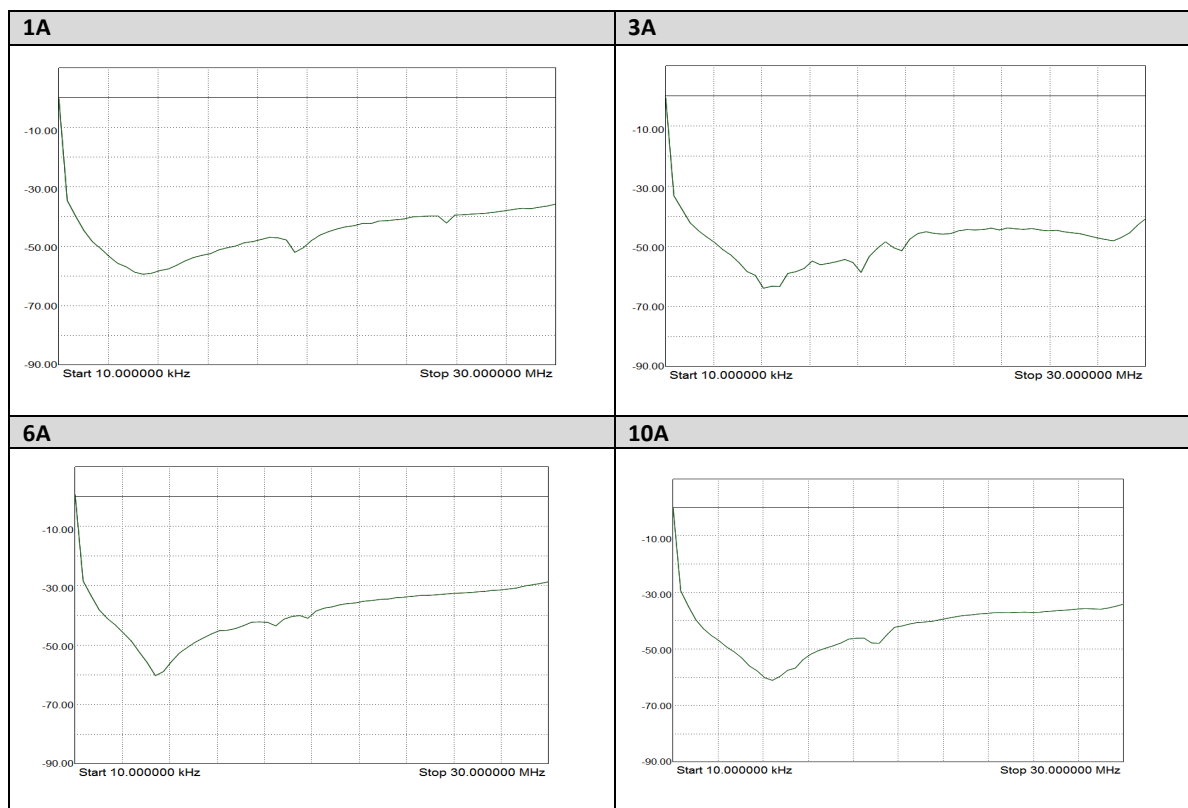
Insertion Loss (Typical) – Measured in Closed 50Ω System

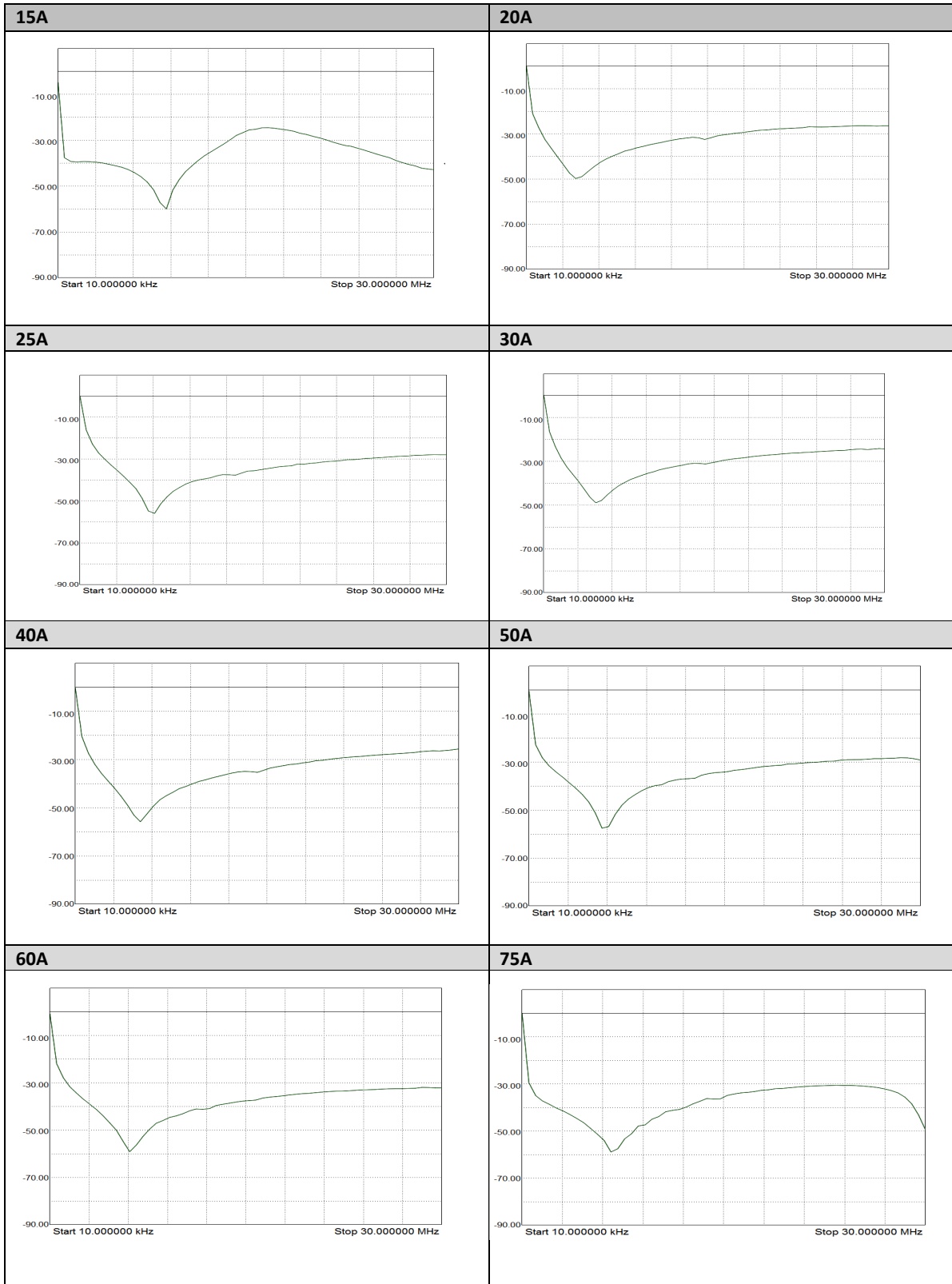
		Common Mode 50Ω / 50Ω								
		Frequency in MHz								
		0.01	0.05	0.15	0.5	1	3	5	10	30
Current Rating	1A	3	3	4	11	22	40	35	36	43
	3A	2	2	19	22	40	38	45	47	32
	6A	4	5	13	19	28	35	40	45	31
	10A	3	4	15	25	29	32	30	35	29
	15A	4	4	9	20	38	36	46	30	23
	20A	4	5	15	25	45	48	42	40	29
	25A	5	5	5	18	23	35	40	44	24
	30A	4	4	9	21	28	42	58	39	20
	40A	4	5	11	29	34	42	56	39	23
	50A	4	4	11	24	32	42	48	34	20
	60A	4	5	10	25	30	39	50	38	24
	75A	2	3	7	22	29	44	43	30	16
	80A	5	5	8	15	20	22	35	42	45
	100A	3	4	3	17	23	25	20	32	38
	125A	2	2	5	15	18	25	30	40	46
150A	3	4	11	25	35	34	28	22	11	

Differential Mode 50Ω / 50Ω

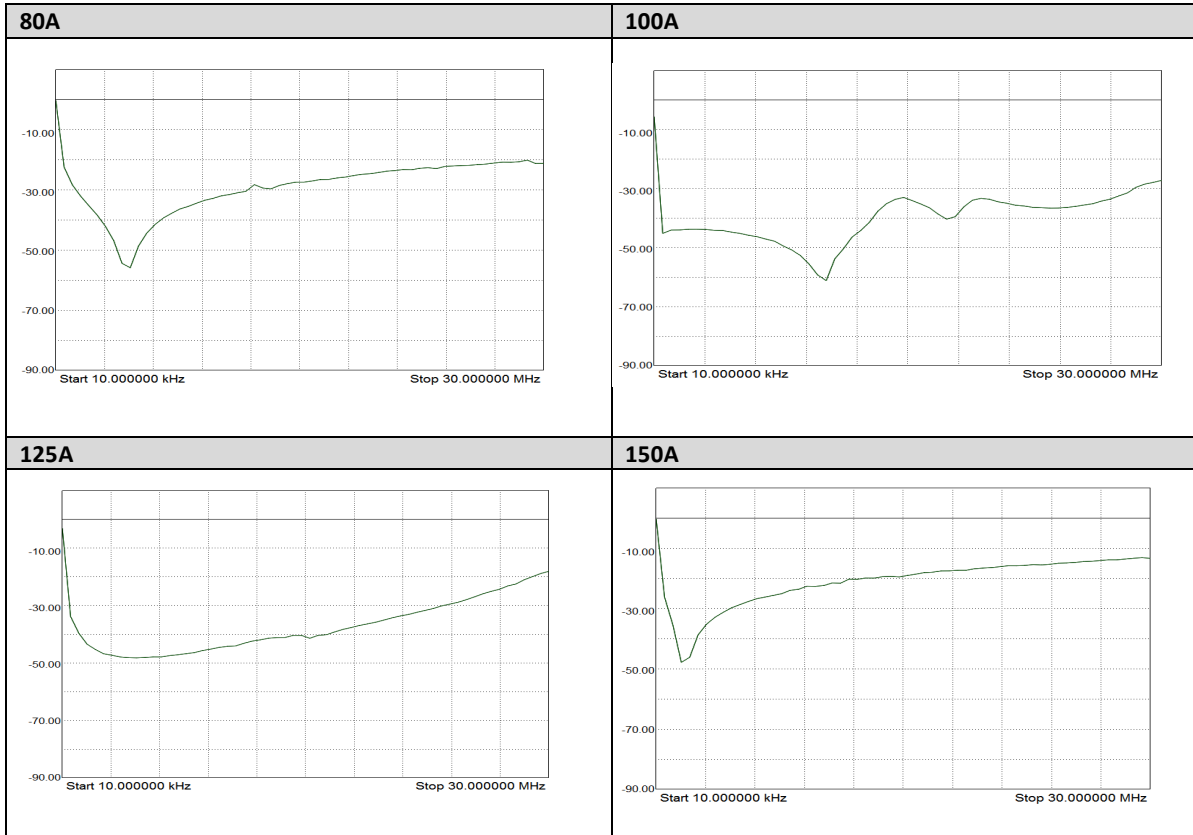
		Frequency in MHz								
		0.01	0.05	0.15	0.5	1	3	5	10	30
Current Rating	1A	3	4	6	19	27	30	36	38	49
	3A	4	5	26	32	29	35	37	46	44
	6A	4	3	15	25	30	38	45	51	49
	10A	4	5	17	26	30	31	32	36	40
	15A	6	8	12	16	30	33	40	38	47
	20A	3	5	10	20	28	36	29	23	19
	25A	4	4	19	22	26	32	48	50	52
	30A	17	18	22	39	46	29	26	20	16
	40A	17	18	21	34	43	40	29	19	33
	50A	14	20	28	42	50	30	26	20	22
	60A	11	18	22	39	45	28	24	17	15
	75A	37	39	46	53	41	31	27	19	17
	80A	5	6	10	20	24	30	36	38	42
	100A	8	9	14	37	40	44	35	30	40
	125A	3	3	9	17	19	31	35	42	42
150A	34	39	57	40	33	24	20	15	10	

Common Mode Insertion Loss (Typical in dB – refer to Table above)





KES SERIES



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Case Dimensions

1 to 10A Quick Connect (6.35 mm) Types	15A to 40A Nut & Bolt Types
50A to 60A Nut & Bolt Types	75A to 150A Nut & Bolt Types
75A to 150A Shock Proof Types	

All dimensions in mm; Tolerances according: ISO2768-m

How to Order

