

D, DX, DT Series

General Purpose Power-Line Filters

(1-200A)

Typical application

Electronic equipment and measuring instrument



Features and benefits

- Single phase power line filters for general purposes
- Easy installation

Conformity

C€ EN 60939

- CSA C22,2 | available on request for most types
- UL 1283 | available on request for most types Climatic category 25/085/21 (IEC 60068-1)

Technical specifications

	Symbol	Value	Unit	Remarks
Rated voltage	V _R	250	VAC	
Rated current	I _R	1 200	А	
Ground capacitance		3.3 4.7	nF	
Operating frequency	f_{op}	50/60	Hz	
Insertion loss		up to 80/90	dB	common/differential mode
Leakage current	I _I	≤ 0.8	mA	
Operating temperature	T_{amb}	-25 +85	°C	
Storage temperature	Τ _s	-25 +85	°C	
Test voltage - line to line	V _{test}	1500	VDC	
Test voltage - line to ground	V_{test}	1500	VAC	



Electrical properties

Model		ection	Rated Current	Ground Capacitance	Leakage Current	Discharge Resistance	Circuit Diagram	Package Type	Size (LxBxH)
	Line	Load	[A]	[nF]	[mA]	[MΩ]			[mm]
DL-1D3	F	F	1	4.7	0.8	-	2	В	54x46x22
DL-2D1	F	F	2	3.3	0.5	-	2	A	70x30x21
DL-3D1	F	F	3	3.3	0.5	-	2	A	70x30x21
DL-3D3	F	F	3	3.3	0.5	-	2	В	54x46x22
DL-6D1	F	F	6	3.3	0.5	-	2	A	78x52x38
DL-6D11	F	F	6	3.3	0.5	=)	2	A	70x30x21
DL-6D3	F	F	6	3.3	0.5	-	2	В	54x46x22
DL-10D	F	F	10	3.3	0.5	1.5	2	Α	78x52x38
DL-15D1	F	F	15	3.3	0.5	1.5	2	A	78x52x38
DL-15D3	F	F	15	3.3	0.5	1.5	2	В	74.5x63.5x36
DL-20D11	S	S	20	4.7	0.8	0.44	2	D	max. 102.5x50.5x36
DL-20D3	F	F	20	3.3	0.5	1.5	2	В	74.5x63.5x36
DL-25D1	S	S	25	3.3	0.5	1.5	2	D	max. 102.5x50.5x36
DL-30D1	S	S	30	3.3	0.5	1.5	2	D	max. 102.5x50.5x36
DL-35D3	S	S	35	4.7	0.8	1.5	2	E	max. 161x95.3x84
DL-50D3	S	S	50	4.7	0.8	1.5	2	E	max. 161x95.3x84
DL-60D3	S	S	60	4.7	0.8	1.5	2	E	max. 161x95.3x84
DL-100D3	S	S	100	6.8	1.0	1.5	2	E	max. 180x115x100
DL-120D3	S	S	120	6.8	1.0	1.5	2	E	max. 180x115x100
DL-150D1	S	S	150	6.8	1.0	1.5	2	G	max. 235x112x140
DL-150D3	S	S	150	6.8	1.0	1.5	2	E	max. 180x115x100
DL-200D1	S	S	200	6.8	1.0	1.0	2	G	max. 235x112x140
DL-1DX13	L	L	1	2.2	0.5	-	1	AX	62x32x22
DL-1DX16	L	L	1	5.0	0.8	-	5	AX	48x24x20
DL-1DX31	L	L	1	<mark>4.</mark> 7	0.8	-	2	BX	39x49x20
DL-3DX31	L	L	3	2.2	0.5	-	1	BX	39x49x20
DL-6DX1	L	L	6	2.2	0.5		1	AX	64x32x20
DL-10DX1	L	L	10	2.2	0.5	-	1	AX	64x32x20
DL-20DX1	L	L	20	3.3	0.5	1.5	2	AX	85x50.5x36
DL-3DT	L	L	3	3.3	0.5	1.5	4	I	65x34Ø
DL-6DT	L	L	6	3.3	0.5	1.5	4	I.	65x34Ø
DL-8DT	L	L	8	6.8	1.0	0.15	4	1	92x50Ø
DL-10DT	F	F	10	4.7	0.8	0.47	3	1	84x42Ø
DL-16DT	L	L	16	22	2.0	0.68	3	1	70x38Ø

Legend:

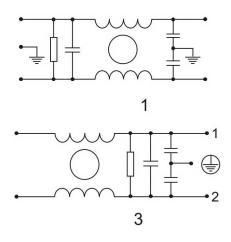
F = FASTON 6.3 S = screw terminal L = lead

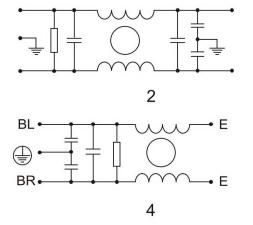
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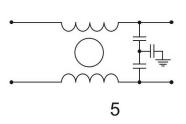
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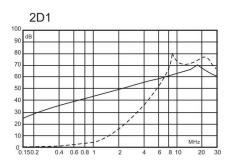
Circuit schematic

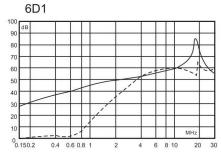




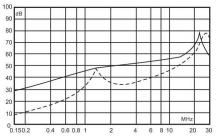


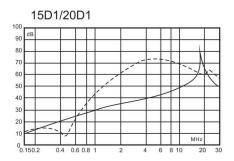
Insertion loss characteristics



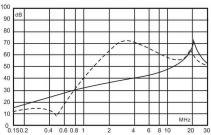


6D3/6D11

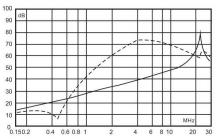








20D32

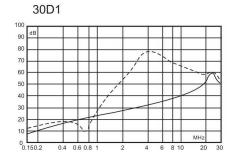


_____ Common Mode

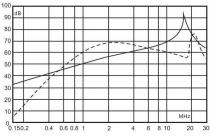
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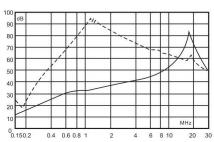
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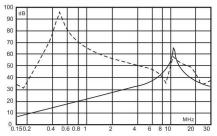
1D3



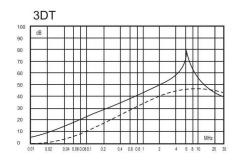
35D3/50D3/60D3

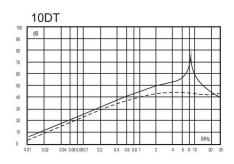


100D3/120D3/150D3/200D1

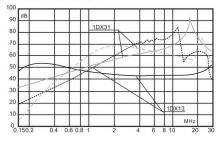


6DX1 100 90 80 70 60 50 40 30 20 10 MH: 0.4 0.6 0.8 1 6 8 10 20 30

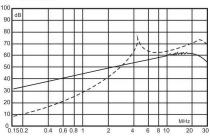


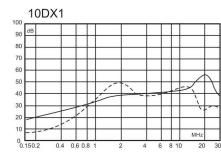


1DX13/1DX31

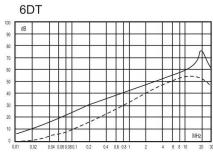


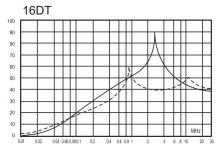
3DX31

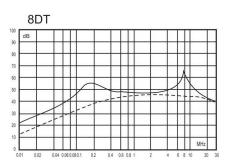




20DX1 100 dE 90 80 70 60 50 7 40 30 20 10 MHz 0.150.2 0.4 0.6 0.8 1 6 8 10 20 30 2





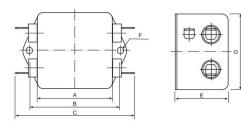


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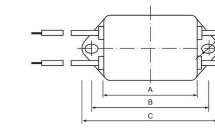
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Mechanical packaging

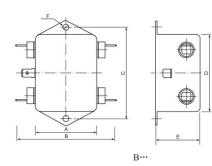


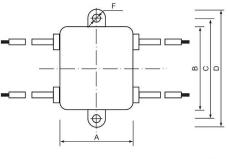
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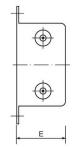


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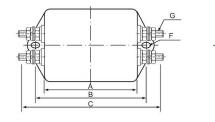


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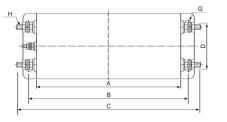
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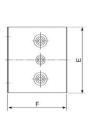


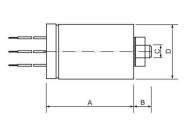
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