

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 <sub>R</sub>	250	VAC	
Rated current	I <sub>R</sub>	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 <sub>I</sub>	≤ 0.8	mA	
Operating temperature	$T_{amb}$	-25 +85	°C	
Storage temperature	Τ <sub>s</sub>	-25 +85	°C	
Test voltage - line to line	V <sub>test</sub>	1500	VDC	
Test voltage - line to ground	$V_{\text{test}}$	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:

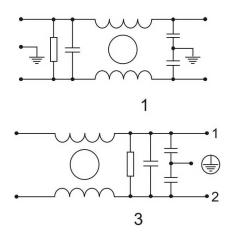
F = FASTON 6.3 S = screw terminal L = lead

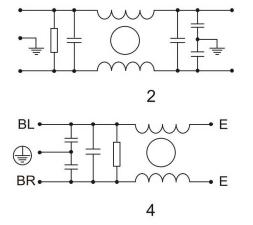
Copyright © 2021, Metralytica GmbH - This document has been carefully compiled and reviewed. Nevertheless no liability can be assumed for errors, naccuracies or omissions in its content.

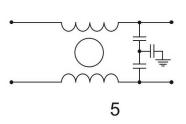
The information provided in this document may be subject to changes without prior notice. Suitability for specific applications must be verified by customers.



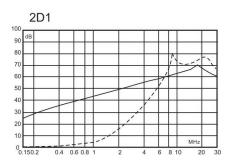
# **Circuit schematic**

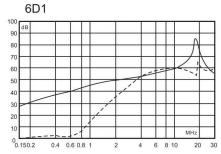




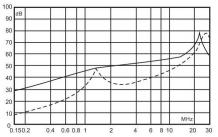


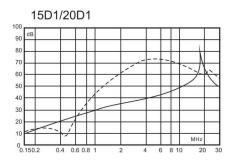
## **Insertion loss characteristics**



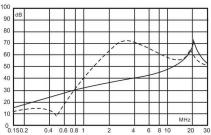


6D3/6D11

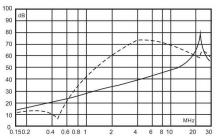








20D32

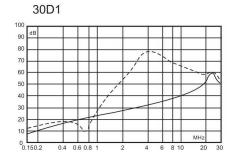


\_\_\_\_\_ Common Mode

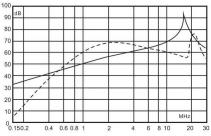
Copyright © 2021, Metralytica GmbH - This document has been carefully compiled and reviewed. Nevertheless no liability can be assumed for errors, naccuracies or omissions in its content .

The information provided in this document may be subject to changes without prior notice. Suitability for specific applications must be verified by customers

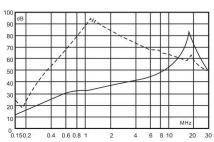
metralytica



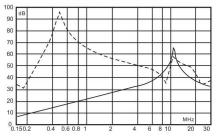
1D3



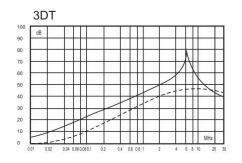
35D3/50D3/60D3

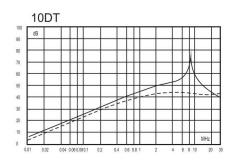


100D3/120D3/150D3/200D1

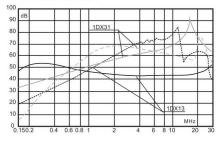


6DX1 100 90 80 70 60 50 40 30 20 10 MH: 0.4 0.6 0.8 1 6 8 10 20 30

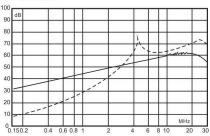


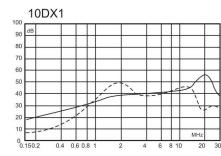


1DX13/1DX31

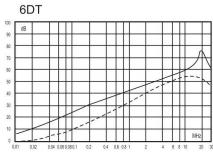


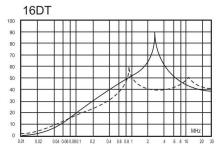
3DX31

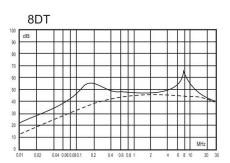




20DX1 100 dE 90 80 70 60 50 7 40 30 20 10 MHz 0.150.2 0.4 0.6 0.8 1 6 8 10 20 30 2





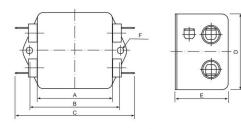


oyright © 2021 Metralytica GmbH - This document has been carefully compiled and reviewed. Nevertheless no liability can be assumed for errors, inaccur omissions in its content .

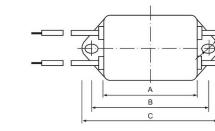
The information provided in this document may be subject to changes without prior notice. Suitability for specific applications must be verified by custome



# **Mechanical packaging**

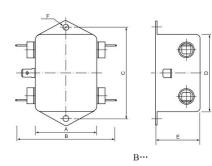


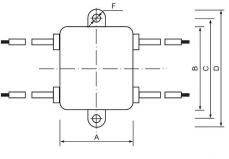
A...





Ax…



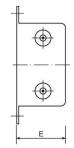


Ф

φ

-

F##

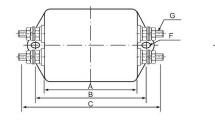


Bx…

٢

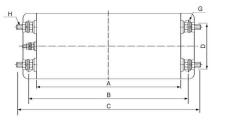
۲

۲

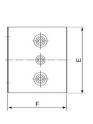


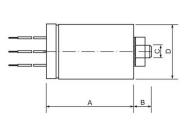
D...

 $( \bullet )$ 









**6**7

φ

E····







Metralytica GmbH Oehleckerring 13 22419 Hamburg Germany

www.metralytica.eu

+49 40 5936175-00 sales@metralytica.eu

Copyright © 2021, Metralytica GmbH - This document has been carefully compiled and reviewed. Nevertheless no liability can be assumed for errors, inaccuracies or omissions in its content .

The information provided in this document may be subject to changes without prior notice. Suitability for specific applications must be verified by customers.