

Shielded Room Filters

C5 Series

With single, three phase or ground wire



Typical Application

- Electromagnetic shielded room
- Shielded room
- Anechoic chamber
- Electronic shelter
- Shielded cabinet

Conformity

Features and Benefits

- Multi-stage filter for common and differential mode filtering
- · Compact size, low voltage, low leakage current
- Rated current ranges from 16 1000A and higher
- Easy installation, no need to be welded to the shielded facilities
- Nickel plated steel case with high mechanical strength

(ह 🚈	EN 60939, VDE 0565-3
€ ₽	CSA C22,2
71 °	UL 1283
	Climate Category: 25/070/21(IEC 60068-1)

Technical Specifications

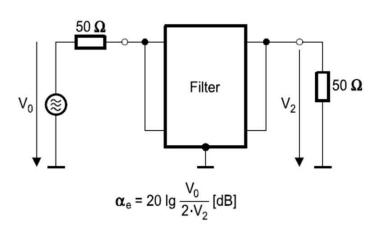
	Symbol	Value	Unit	Remarks
Rated voltage	V _R	440/250	VAC	
		500	VDC	
Rated current	I _R	16 - 1000	А	
Operating frequency	f_{op}	50/60	Hz	Option for 400 Hz available
Insertion loss		≥100	dB	14 kHz 40 GHz
Leakage current	I _I	< 0.2	А	
Voltage drop	V _F	< 1	V	
Operating temperature	T _{amb}	-25 +75	°C	
Storage temperature	Τ _s	-25 +85	°C	
Test voltage - line to line	V _{test}	1000	V	
Test voltage - line to ground	V _{test}	1000	V	



Test Schematic

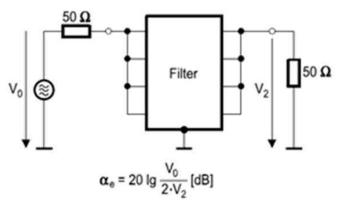
Insertion loss α_e (typical values at Z = 50 Ω)

Measurement circuit



Insertion loss α_e (typical values at Z = 50 Ω)

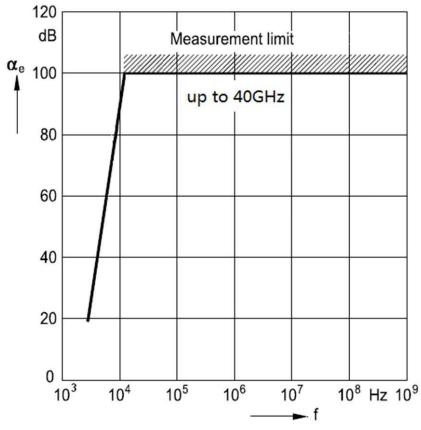
Measurement circuit



Asymmetrical measurement circuit to MIL-STD-220A

Asymmetrical measurement circuit to MIL-STD-220A

Insertion Loss Characteristics



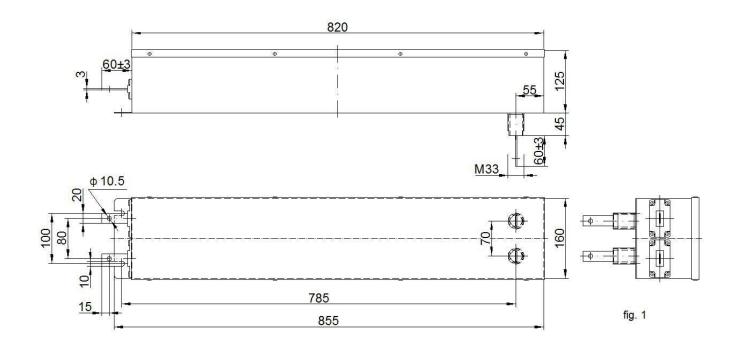
Copyright © 2021, Metralytica GmbH - This document has been carefully compiled and reviewed. Nevertheless no liability can be assumed for errors, inaccuracies or omissions in its content.



Characteristics - Single Phase

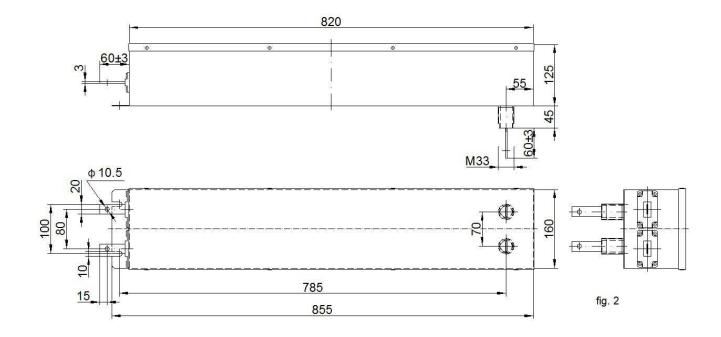
Model	Rated Current	Connection	Packaging	10			Size (MM)			
	[A]	(mm²)	(fig.)	A	В	C	D	E	F	G	H
DL-2x16C5-M	2x16	4	1								
DL-2x30C5-M	2x30	6	1	550	120	90	545	585	60	25	_
DL-2x50C5-M	2x50	10	1	550	120	90	545	202	00	25	-
DL-2x70C5-M	2x70	16	1								
DL-2x100C5-M	2x100	25	1	770	160	125	755	805	100	35	
DL-2x150C5/60-M	2x150	bus bar	2	820	160	125	785	855	100	55	70
DL-2x200C5/60-M	2x200	bus bar	2	820	100	125	105	655	100	55	70
DL-2x250C5/60	2x250	bus bar	3	1000	260	140	800	290	320	75	100
DL-2x300C5/60	2x300	bus bar	3	1000	200	140	800	290	520	/5	100
DL-2x600C5/60	2x600	bus bar	3	1100	200	200	800	210	240	75	120
DL-2x800C5/60	2x800	bus bar	3	1100	280	240	800	310	340	75	120
DL-2x1000C5/60	2x1000	bus bar	4	1200	320	240	800	350	380	80	160

Legend: 60 = bus bar, M = clinch-bolt

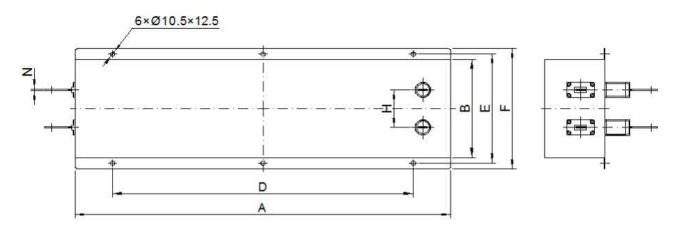


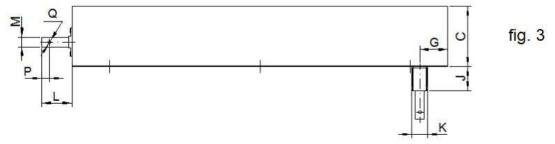
Copyright © 2021, Metralytica GmbH - This document has been carefully compiled and reviewed. Nevertheless no liability can be assumed for errors, naccuracies or omissions in its content .

metralytica

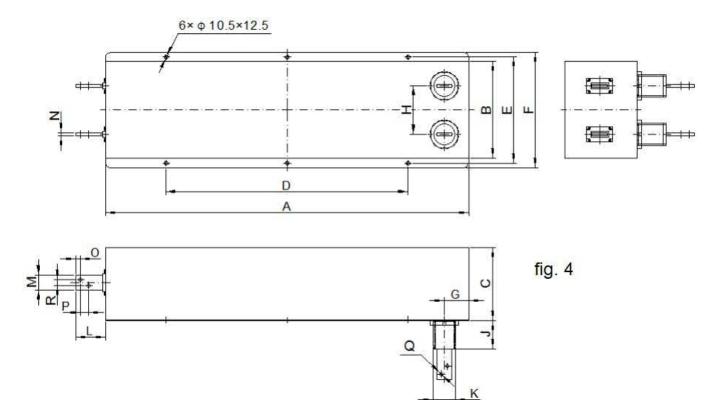


0









Connection Dimensions - Single Phase

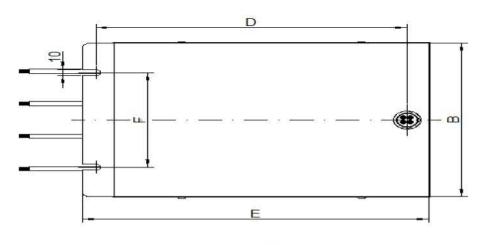
Model	Size (MM)									
Iviouei	J	K	Ĺ	Μ	N	0	.	Q	R	
DL-2x16C5-M										
DL-2x30C5-M										
DL-2x50C5-M	45	M33				-				
DL-2x70C5-M	-									
DL-2x100C5-M										
DL-2x150C5/60-M	45	45	2xM33							
DL-2x200C5/60-M		2210122								
DL-2x250C5/60	65	2xM42	80	25	4		20	Ø10.5	-	
DL-2x300C5/60	65	2xM42	80	25	6		20	Ø10.5	141	
DL-2x600C5/60	65	2xM48	80	30	8		20	Ø11	-	
DL-2x800C5/60	65	2xM48	80	30	10	141	20	Ø11		
DL-2x1000C5/60	95	2xM72	100	50	10	17	26	Ø13	20	

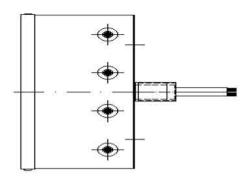


Characteristics - Three Phase

Model	Rated Current	Connection	Packaging		15		Size (MM)			
	[A]	(mm²)	(fig.)	A	В	C	D	E	F	G	H
DL-4x16C5-M	4x16	4	1	550	240	90	545	585	150	25	
DL-4x30C5-M	4x30	6	1	550	240	90	545	202	150	25	-
DL-4x50C5-M	4x50	10	1								
DL-4x70C5-M	4x70	16	1	700	260	125	685	735	160	35	-
DL-4x100C5-M	4x100	25	2								130
DL-4x150C5/60-M	4x150	bus bar	3	930	320	155	895	965	180	55	80
DL-4x200C5/60-M	4x200	bus bar	3	930	520	100	895	905	180	55	80
DL-4x250C5/60	4x250	bus bar	4	1200	460	160	800	430	460	75	100
DL-4x300C5/60	4x300	bus bar	4	1200	400	200	800	450	460	75	100
DL-4x600C5/60	4x600	bus bar	4	1200	400	200	200	420	400	75	100
DL-4x800C5/60	4x800	bus bar	4	1200	400	240	800	430	460	75	100
DL-4x1000C5/60	4x1000	bus bar	5	1200	320	240	800	350	380	80	160

Legend: 60 = bus bar, M = clinch-bolt





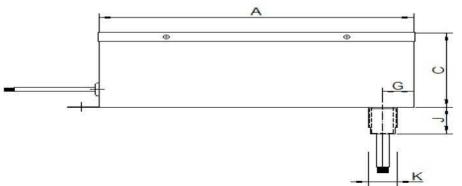
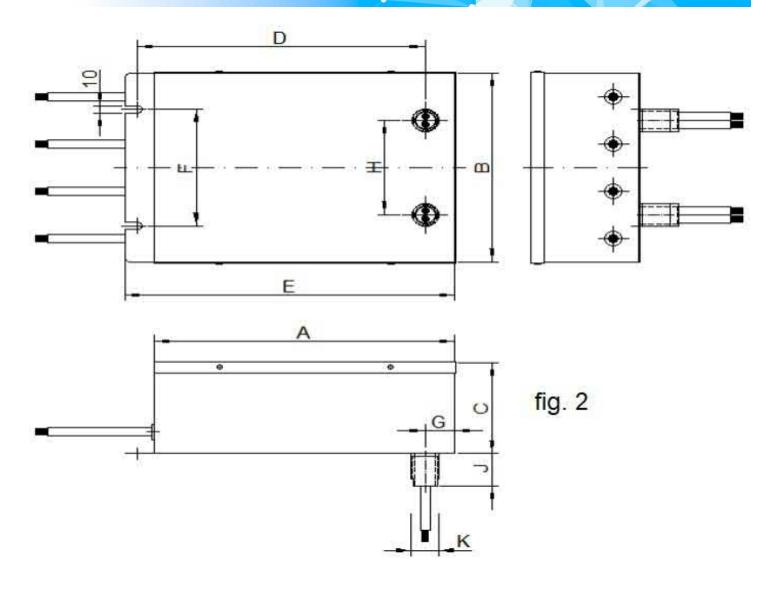
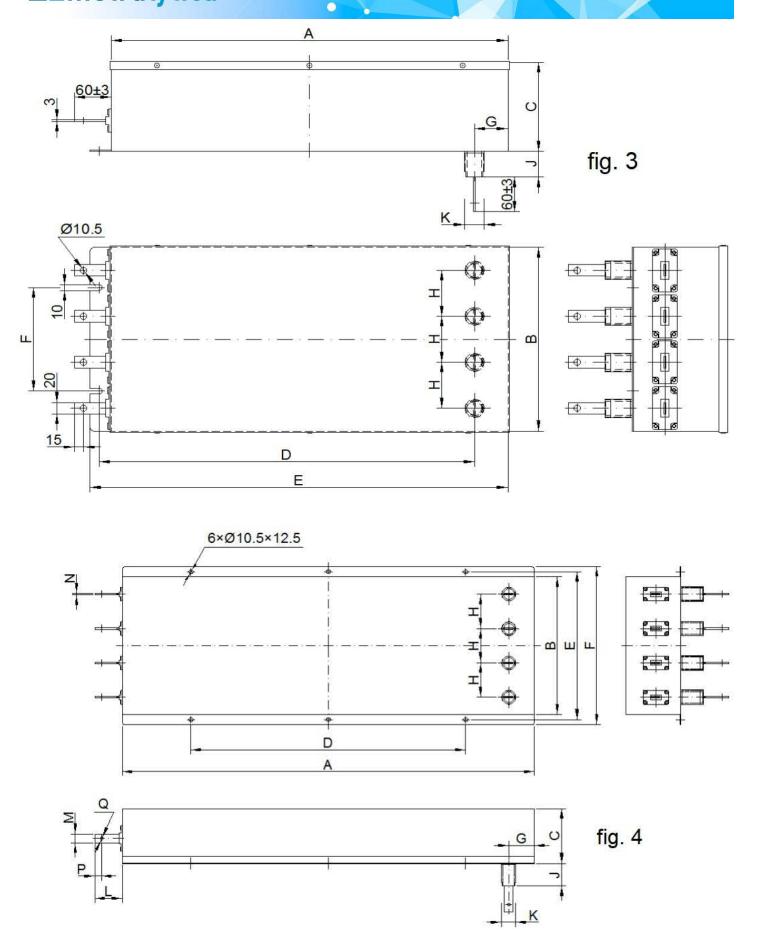


fig. 1

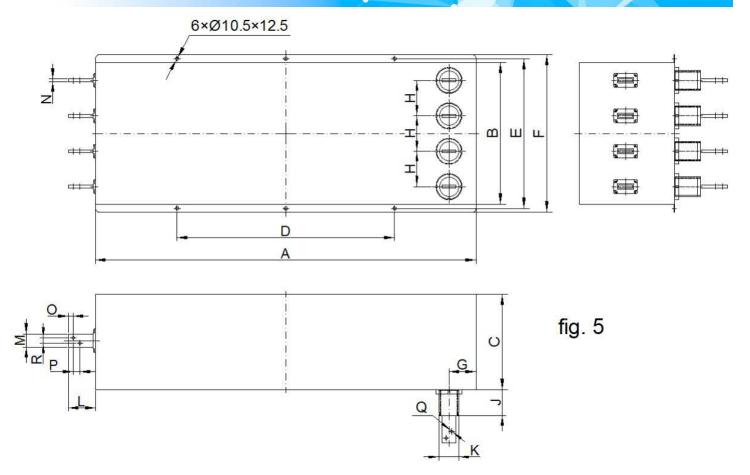




metralytica®







Connection Dimensions - Three Phase

Model	Size (MM)														
Widdel	J	К	1	M	N	0	P	Q	R						
DL-4x16C5-M															
DL-4x30C5-M															
DL-4x50C5-M	45	45 M33				and a second sec									
DL-4x70C5-M															
DL-4x100C5-M															
DL-4x150C5/60-M	45	AF	4xM33												
DL-4x200C5/60-M		4810155				1									
DL-4x250C5/60	65	4xM42	80	25	4	-	20	Ø10.5	-						
DL-4x300C5/60	65	4xM42	80	25	6)=	20	Ø10.5) 4						
DL-4x600C5/60	65	4xM48	80	30	8		20	Ø11	- 1						
DL-4x800C5/60	65	4xM48	80	30	10	1	20	Ø11	1						
DL-4x1000C5/60	95	4xM72	100	50	10	17	26	Ø13	20						

Smetralytica®

Ground Filter

Typical application: TN-S power supply system

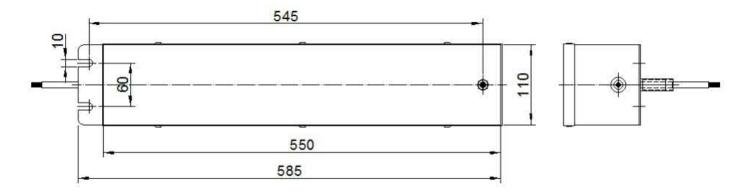
	Symbol	Value	Unit	Remarks
Rated voltage	V _R	220	VAC	
		500	VDC	
Rated current	I _R	10 - 200	А	
Operating frequency	f _{op}	0 - 60	Hz	
Insertion loss		≥100	dB	14 kHz 40 GHz

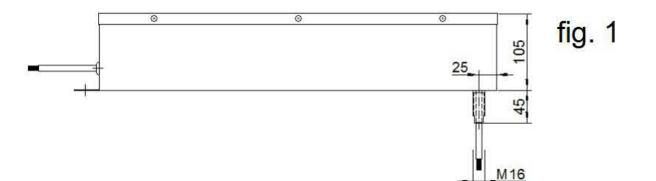
Characteristics

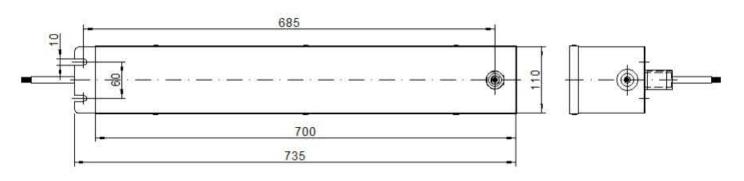
Model	Rated Current [A]	Connection (mm²)	Packaging (fig.)
DL-10C5-G-M	2x10	4	1
DL-16C5-G-M	2x16	4	1
DL-30C5-G-M	2x30	6	1
DL-50C5-G-M	2x50	10	1
DL-70C5-G-M	2x70	16	1
DL-100C5-G-M	2x100	25	2
DL-150C5-G/60-M	2x150	bus bar	3
DL-200C5-G/60-M	2x200	bus bar	3

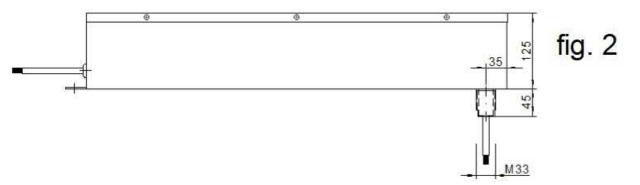
Legend: 60 = bus bar, M = clinch-bolt



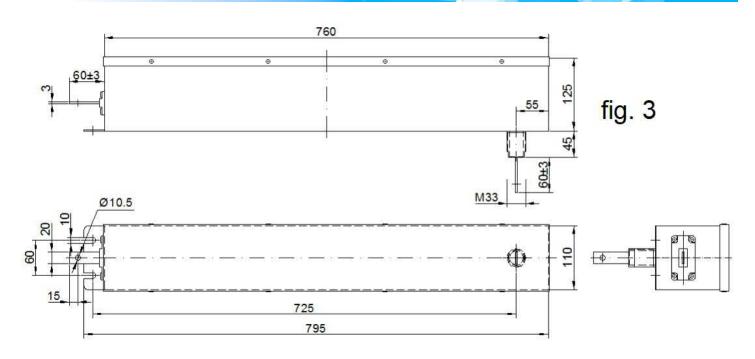




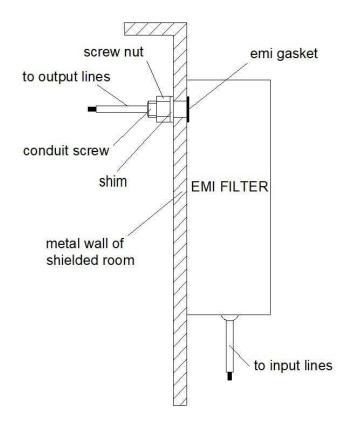




metralytica



Typical Installation



Assembly Parts List

Pos.	Qty.	Description
1	1	conduit screw
2	1	shim
3	1	screw nut
4	2	EMI gasket

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.



Metralytica GmbH Oehleckerring 13 22419 Hamburg Germany

www.metralytica.eu

+49 40 5936175-00 sales@metralytica.eu