

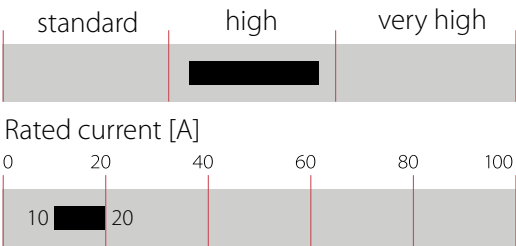
Low Profile - High performance, EMC/EMI IEC inlet filter



- Excellent IEC inlet for robotics, datacenters and other applications
- Terminals available on load side: Fast-on, wire leads, bolt, and clamps
- Voltage rating up to 250 VAC
- Fits within 1 height unit (HU) of a 19" rack application
- 40°C operating temperature



Performance indicators



Technical Specifications

Rated operating voltage	250 VAC
Operating frequency	DC to 60 Hz
Rated currents	10 to 20 A @ 40°C
Overload capability	1.5 x rated current for 1 minute once per hour
Cooling	Natural cooling AN
Climatic category	40/100/21 acc. IEC60068-1
Flammability according to	UL 94 V0
Surge withstand	2 kV Ph-Ph / 4 kV Ph-PE (Level 4)
High potential test voltage	P -> N 1500 VDC for 2 sec* P/N -> PE 2500 VDC for 2 sec*
Altitude	Derating above 2000 m
Certified to	UL 60939-3, GB/T 15287, IEC/EN 60939
MTBF	> 300,000 h
Protection category	IP00 / IP20 for -103 terminal
Pollution degree	2 acc. IEC 60664-1
Vibration and shock	3M12 acc. IEC 60721-3-3
Overvoltage category	II acc. IEC 60664-1
Temperature range (operation and storage)	-40°C to +100°C (with derating >40°C)

Approvals & Compliances



Certifications FN2660 pending

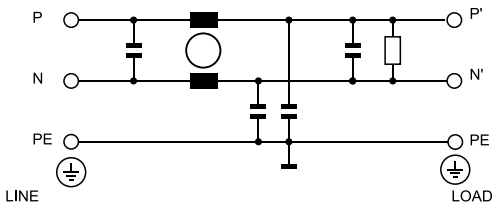
Features and Benefits

- FN2640 series fits perfectly within 1HU height for rack mount
- The filters are built to fit perfectly to datacenter and audio video equipment
- The shape allows convenient and space-saving installation
- Fulfills the requirements in IEC/EN 62040-1 - Uninterruptible power systems (UPS)
- Fulfills the requirements in IEC 62368-1 - Audio/Video, Information and Communication Technology Equipment
- Fulfills the requirements in IEC/EN 60335-1 - Household and similar appliances

Typical Applications

- Robotics, collaborative robots, autonomous machines
- Audio and video equipment
- UPS - Uninterruptible power supplies

Typical electrical schematic



Filter	Rated current	Leakage current*	Power loss	Inductance**	Capacitance**			Resistance**	Connections					Weight max***
	@ 40°C	@ 250 VAC/ 50 Hz	@ 25°C	L1	Cx1	Cx2	Cy1	R	line side	load side				
		(@ 120 VAC/ 60 Hz)												
	[A]	[mA]	[W]	[mH]	[μF]	[μF]	[nF]	[kΩ]	C14 C20					[kg]
Single-stage														
FN2640-10-yy-C11	10	0.37 (0.21)	5.2	8.3	1	0.47	4.7	680		-05	-07	-08	-103	0.3
FN2640-15-yy-C11	15	0.37 (0.21)	6.8	4.0	1	0.47	4.7	680		-05	-07	-08	-103	0.3
FN2640-16-yy-C11	16	0.37 (0.21)	7.6	4.0	1	0.47	4.7	680		-05	-07	-08	-103	0.3
FN2640-20-yy-C11	20	0.37 (0.21)	7.2	2.4	1	0.47	4.7	680		-05	-07	-08	-103	0.3

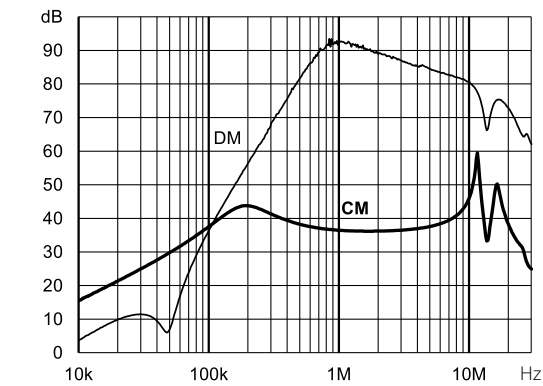
Product selector

11 – Y-capacitor option	
11:	4.7 nF
yy – Load terminal type	
05:	fast-on 6.3 x 0.8 mm
07:	wire leads
08:	M4 screw
103:	push-in terminal
xx – Rated current	
10-20:	10 A – 20 A
tt – Product family	
40:	Single-stage filter L1

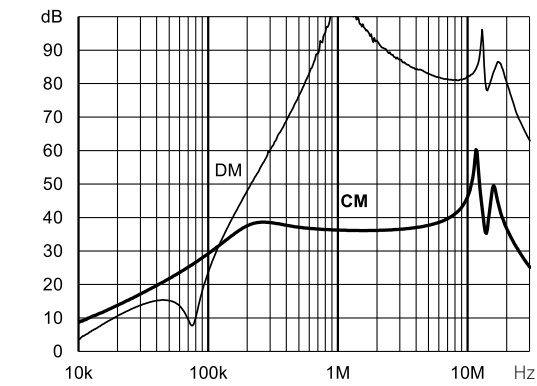
Typical Filter Attenuation

Per CISPR 17: symmetrical 50 Ω/50 Ω -> Differential Mode (DM); asymmetrical 50 Ω/50 Ω -> Common Mode (CM)

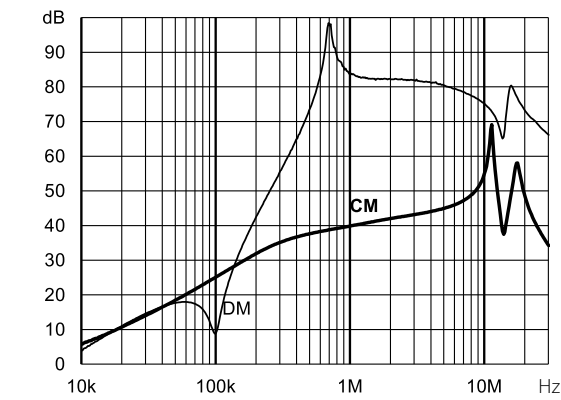
FN2640 - Single-stage filter



FN2640-10-yy-C11



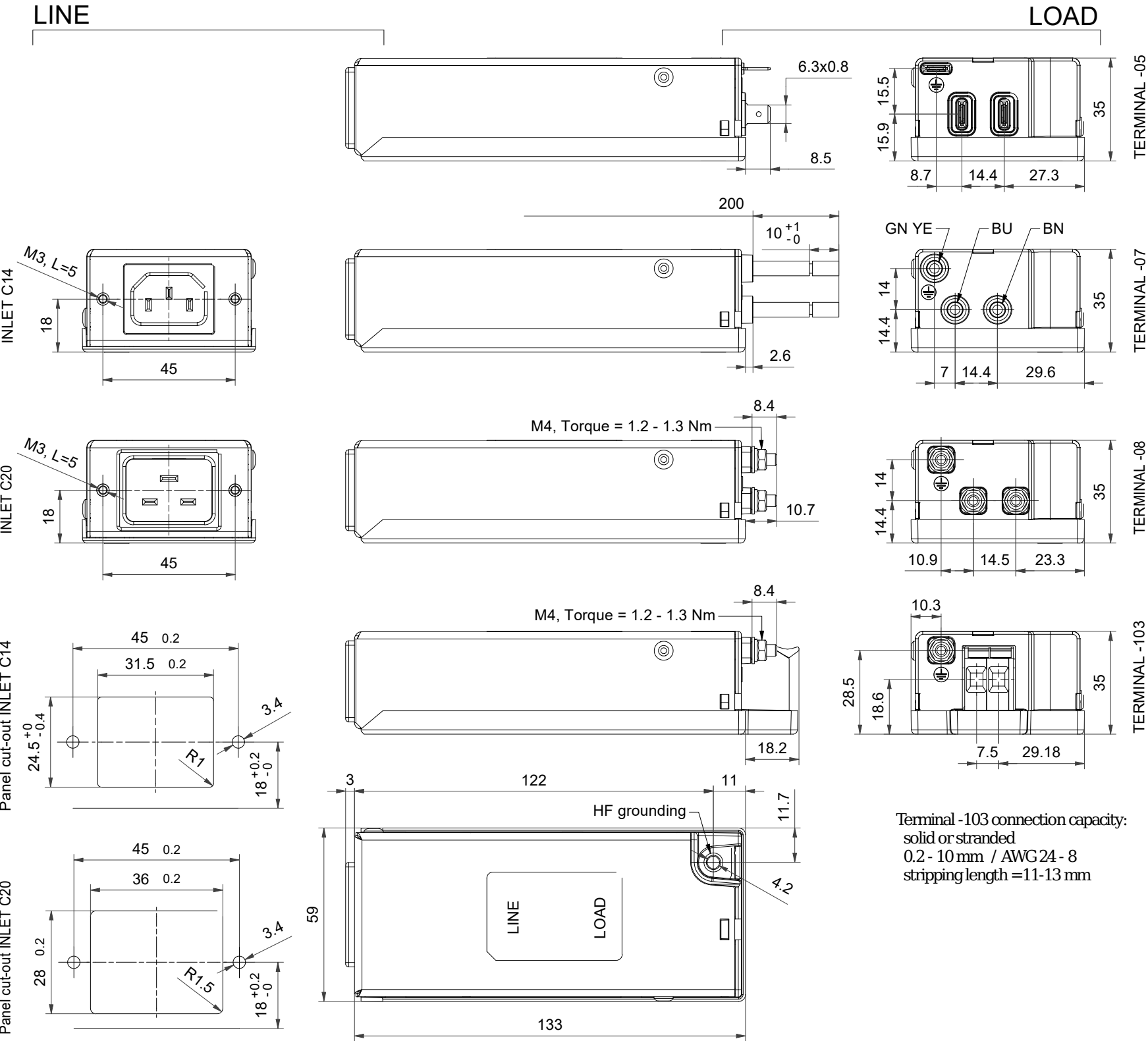
FN2640-15-yy-C11 & FN2640-16-yy-C11



FN2640-20-yy-C11

Dimensions FN2640 - Single-stage Filter

For dimensions [mm] without tolerances: ISO2768-cL/EN22768-cL applies



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