

FN2660-20-103-C0909

SAP Code: 821820



- Chassis mount
- 20 A IEC inlet EMC filter with push-in terminals
- 1 Phase

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Family Technical Specifications

Climatic category Surge withstand High potential test voltage P -> N 1500 VDC for 2 sec* P/N -> PE 2500 VDC for 2 sec* P/N ->		DC - 4011
Surge withstand High potential test voltage P -> N 1500 VDC for 2 sec* P/N -> PE 2500 VDC for 2 sec* P/N -> PE 2500 VDC for 2 sec* Rated operating voltage Altitude Derating above 2000 m Certified to UL 60939-3, IEC/EN 60939, GB/T 15287 MTBF Protection category IP00 / IP20 for -103 terminal Protection category 2 acc. IEC 60664-1 Rated currents Vibration and shock 3M12 acc. IEC 60721-3-3 Overvoltage category I lacc. IEC 60664-1 Temperature range (operation and storage) Overload capability 1.5 x rated current for 1 minute once per hour Cooling Flammability corresponding to Plastic Material: UL 94 V0	Operating frequency	DC to 60 Hz
High potential test voltage P -> N 1500 VDC for 2 sec* P/N -> PE 2500 VDC for 2 sec* P/N -> PE 2500 VDC for 2 sec* 250 VAC Altitude Derating above 2000 m Certified to UL 60939-3, IEC/EN 60939, GB/T 15287 MTBF > 300,000 h Protection category IP00 / IP20 for -103 terminal Protection category 2 acc. IEC 60664-1 Rated currents 20 Vibration and shock 3M12 acc. IEC 60721-3-3 Overvoltage category Il acc. IEC 60664-1 Temperature range (operation and storage) Overload capability 1.5 x rated current for 1 minute once per hour Cooling Natural cooling AN Flammability corresponding to Plastic Material: UL 94 V0	Climatic category	40/085/21 acc. IEC60068-1
P/N -> PE 2500 VDC for 2 sec* Rated operating voltage Altitude Derating above 2000 m Certified to UL 60939-3, IEC/EN 60939, GB/T 15287 MTBF Protection category IP00 / IP20 for -103 terminal Protection category 2 acc. IEC 60664-1 Rated currents 20 Vibration and shock 3M12 acc. IEC 60721-3-3 Overvoltage category Il acc. IEC 60664-1 Temperature range (operation and storage) Overload capability 1.5 x rated current for 1 minute once per hour Cooling Natural cooling AN Flammability corresponding to	Surge withstand	2 kV Ph-Ph / 4 kV Ph-PE (Level 4)
Altitude Certified to UL 60939-3, IEC/EN 60939, GB/T 15287 MTBF > 300,000 h Protection category IP00 / IP20 for -103 terminal Protection category 2 acc. IEC 60664-1 Rated currents 20 Vibration and shock Overvoltage category Il acc. IEC 60664-1 Temperature range (operation and storage) Overload capability Cooling Natural cooling AN Flammability corresponding to	High potential test voltage	
Certified to UL 60939-3, IEC/EN 60939, GB/T 15287 MTBF > 300,000 h Protection category IP00 / IP20 for -103 terminal 2 acc. IEC 60664-1 Rated currents 20 Vibration and shock Overvoltage category Il acc. IEC 60721-3-3 Il acc. IEC 60664-1 Temperature range (operation and storage) Overload capability 1.5 x rated current for 1 minute once per hour Natural cooling AN Flammability corresponding to Plastic Material: UL 94 V0	Rated operating voltage	250 VAC
MTBF Protection category Protection category Protection category Protection category Rated currents Vibration and shock Overvoltage category Temperature range (operation and storage) Overload capability Cooling Flammability corresponding to Plastic Material: UL 94 V0	Altitude	Derating above 2000 m
Protection category Protection category 2 acc. IEC 60664-1 Rated currents 20 Vibration and shock 3M12 acc. IEC 60721-3-3 Overvoltage category Il acc. IEC 60664-1 Temperature range (operation and storage) Overload capability 1.5 x rated current for 1 minute once per hour Cooling Natural cooling AN Flammability corresponding to Plastic Material: UL 94 V0	Certified to	UL 60939-3, IEC/EN 60939, GB/T 15287
Protection category Rated currents 20 Vibration and shock Overvoltage category Temperature range (operation and storage) Overload capability Cooling Flammability corresponding to 2 acc. IEC 60664-1 20 3M12 acc. IEC 60721-3-3 Il acc. IEC 60664-1 -40°C to +85°C (with derating >40°C) 1.5 x rated current for 1 minute once per hour Natural cooling AN Plastic Material: UL 94 V0	MTBF	> 300,000 h
Rated currents 20 Vibration and shock Overvoltage category Temperature range (operation and storage) Overload capability Cooling Natural cooling AN Plastic Material: UL 94 V0	Protection category	IP00 / IP20 for -103 terminal
Vibration and shock Overvoltage category Temperature range (operation and storage) Overload capability Cooling Flammability corresponding to AM12 acc. IEC 60721-3-3 Il acc. IEC 60664-1 -40°C to +85°C (with derating >40°C) 1.5 x rated current for 1 minute once per hour Natural cooling AN Flastic Material: UL 94 V0	Protection category	2 acc. IEC 60664-1
Overvoltage category Temperature range (operation and storage) Overload capability Cooling Flammability corresponding to Il acc. IEC 60664-1 -40°C to +85°C (with derating >40°C) 1.5 x rated current for 1 minute once per hour Natural cooling AN Plastic Material: UL 94 V0	Rated currents	20
Temperature range (operation and storage) Overload capability Cooling Flammability corresponding to -40°C to +85°C (with derating >40°C) 1.5 x rated current for 1 minute once per hour Natural cooling AN Plastic Material: UL 94 V0	Vibration and shock	3M12 acc. IEC 60721-3-3
Overload capability Cooling 1.5 x rated current for 1 minute once per hour Natural cooling AN Flammability corresponding to Plastic Material: UL 94 V0	Overvoltage category	II acc. IEC 60664-1
Cooling Natural cooling AN Flammability corresponding to Plastic Material: UL 94 V0	Temperature range (operation and storage)	-40°C to +85°C (with derating >40°C)
Flammability corresponding to Plastic Material: UL 94 V0	Overload capability	1.5 x rated current for 1 minute once per hour
rianimability corresponding to	Cooling	Natural cooling AN
	Flammability corresponding to	

 $^{^{\}ast}$ High potential test voltage: Repetition with max. 80% of specified values

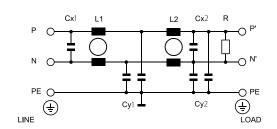
Features and Benefits

- FN2640 / FN2660 series fits perfectly within 1HU height for rack mount applications
- 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



General Specification

Voltage AC	250 (Volt)
Nominal Frequency	50
Rated Current @ambient	20
Ambient temperature [°C]	40

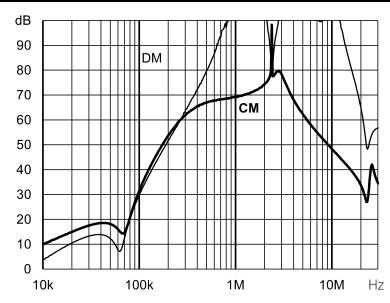
Electric Specification

Leakage current (IEC60939) [mA]	0.35
Input terminal	27 - IEC-plug
Output terminal	103 - push-in terminal
Resistance	680 (Kiloohm)

Attenuation Specification

CM attenuation @ 150kHz [dB]	41 (Decibels)
DM attenuation @ 150kHz [dB]	34 (Decibels)
Inductance L1 [µH]	2.4 (Millihenry)
Inductance L2 [µH]	2.4 (Millihenry)
Capacitance Cx1 [µF]	1 (Microfarad)
Capacitance Cx2 [µF]	0.47 (Microfarad)
Capacitance Cyl [nF]	2.2 (Nanofarad)
Capacitance Cy2 [nF]	2.2 (Nanofarad)

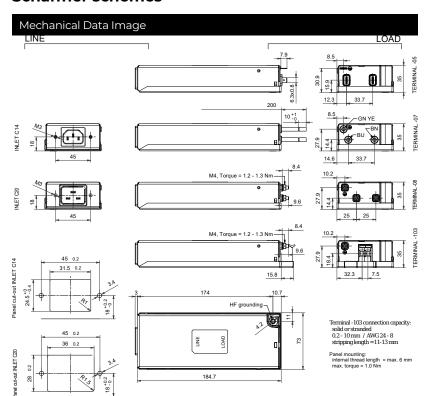




Mechanic Specification

Length [mm]	184.7
Width [mm]	73
Height [mm]	35
Volume [cm3]	472 (Cubic Centimeter)
NetWeight [g]	493 (Gram)
Power Loss [W]	10.6 (Watt)

Schaffner schemes



Dimensions