

X10875

Power Line Filter – EMI Filter

EN 328H Series

High-Performance Three-Phase Filter with Neutral
Compact EMI/RFI Line Filter for Machinery,
EV Charging, and Industrial Equipment

CONTACT US:

☎ 0044 (0) 1704-516 501

✉ enquiries@united-automation.com

🌐 www.united-automation.com



KEY FEATURES:

- ✓ **Compact Design:** Slim housing for space-saving chassis installation
- ✓ **Touch-Safe Terminal Block:** Compliant with EN60204-1 for enhanced safety
- ✓ **Exceptional EMC Performance:** Suitable for domestic (Class B) and industrial (Class A) environments
- ✓ **High Load Capability:** Supports up to 200A at 50°C ambient
- ✓ **Robust Electrical Safety:** High dielectric strength and IP20 protection
- ✓ **Overload Support:** 1.5× rated current for 60 seconds/hour
- ✓ **Versatile Applications:** Ideal for complex automation systems with multiple drive axes
- ✓ **Optimised for Long Motor Cables:** Supports 10–20m cable lengths per drive
- ✓ **Reduces Emissions & Increases Immunity:** When installed at mains input

APPLICATIONS:

- Three-phase motor drives and servo systems
- Inverters, converters, and power supply equipment
- EV chargers and charging stations
- Renewable energy systems
- HVAC, elevators, UPS systems
- Industrial machinery with multiple drive axes

The **EN 328H three-phase EMI filter** with neutral offers outstanding electromagnetic interference suppression in demanding environments such as machine tools, EV chargers, and industrial automation systems.

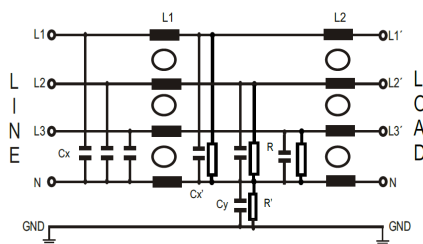
Designed for compact installation, it features touch-safe terminal blocks compliant with EN60204-1, and supports rated currents from 8A to 200A. It helps meet Class A and B EMC limits, even in complex setups with long motor cables or multiple drive axes. With high dielectric strength, overload tolerance, and IP20 protection, the EN 328H is an ideal choice for ensuring reliable, noise-free operation across a wide range of AC and DC applications.

TECHNICAL SPECIFICATIONS

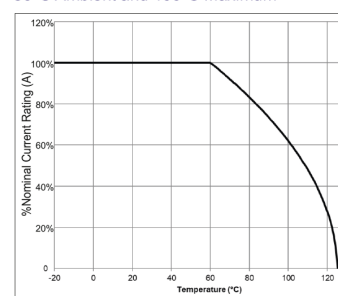
Operating Voltage (max)	3×520/300 VAC, 50/60Hz
Rated Current	8A to 200A @ 50°C
Frequency	50/60Hz
High Potential Test Voltage	L/N–GND: 2800 VDC for 2 sec. L–L: 2250 VDC for 2 sec (EN358H). L–N: 1300 VDC for 2 sec.
Temperature Range	-25°C to +100°C (25/100/21)
Overload Capability	1.5× rated current for 60 sec (once/hour)
Protection Category	IP20
Flammability Rating	UL 94V-2 or better
Compliance Standards	UL 1283, IEC/EN 60939
Terminal Blocks	Safety-type, touch-safe, solid screw terminals

- New solid safety connector blocks available for the whole range
- Exceptional attenuation performance with low Leakage current
- Increase also the immunity if operated directly on mains input
- Most compact and slim filter design in fit with class C1 & C2 limit

Electrical Schematic



Temperature Derating Curve for EMC Filters Rated at 50°C Ambient and 100°C Maximum




YOU MUST READ THIS BEFORE INSTALLATION

ELECTRICAL SAFETY	INSTALLATION REQUIREMENTS	USER RESTRICTIONS	USAGE ENVIRONMENT	HOT SURFACE WARNING
WARNING: RISK OF ELECTRIC SHOCK Always consult the Installation & Maintenance Instructions before connecting this product to the power supply. WARNING: Disconnect Power Before Servicing Ensure the electrical supply is safely disconnected before connecting to any supply, load, or control terminals.	WARNING: Installation by Qualified Personnel Only This product must only be installed or fitted by a competent, qualified installer familiar with the relevant electrical standards and installation practices.	WARNING: Not for Use by Vulnerable Individuals This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are supervised or instructed by a person responsible for their safety.	WARNING: Industrial Use Only This is an industrial-grade product and is not intended for household use.	WARNING: Hot Surfaces On certain models, surfaces marked with this symbol become hot during use. Avoid direct contact and follow all thermal safety precautions.

EN 328H Series

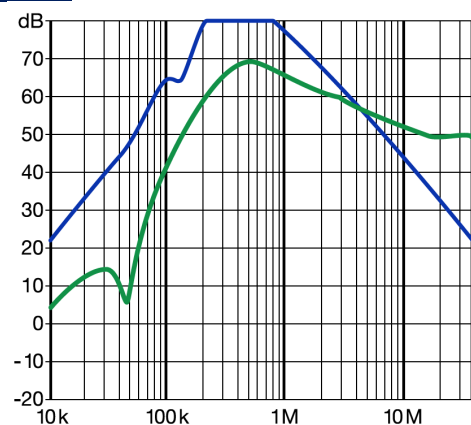
High-Performance Three-Phase Filter with Neutral

FILTER SELECTION TABLE

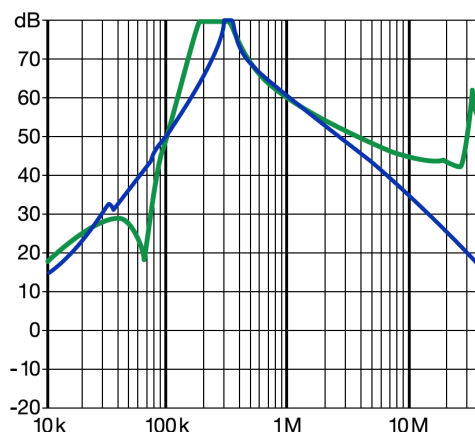
Filters**	Rated current @50°C (40°C) A	Leakage current @480VAC/50Hz mA	Typical drive Power Rating kW	Power Loss @25°C/50Hz W	Connection type Input/Output 	Weight Kg
EN328H-8-T	8(8.8)	10.7	4	2.7	T	0.8
EN328H-16-T	16(17.5)	10.7	8	6	T	0.8
EN328H-25-T	25(27)	10.7	13	11.6	T	1.3
EN328H-36-T	36(39)	10.7	18.5	14.8	T	1.6
EN328H-64-T	64(70)	10.7	33	18.4	T	2.7
EN328H-80-T	80(88)	10.7	41	18.9	T	4.1
EN328H-120-T	120(131)	10.7	62.4	28.5	T	5.9
EN328H-160-T	160(175)	10.7	83	30.7	T	7.9
EN328H-200-T	200(219)	10.7	100	46.8	T	8.5

** Standardised calculated leakage current acc. IEC60939 under normal operating conditions (EN328H at 520 VAC).

TYPICAL INSERTION LOSS, dB (50/50 Ohm) 8 to 16 A types

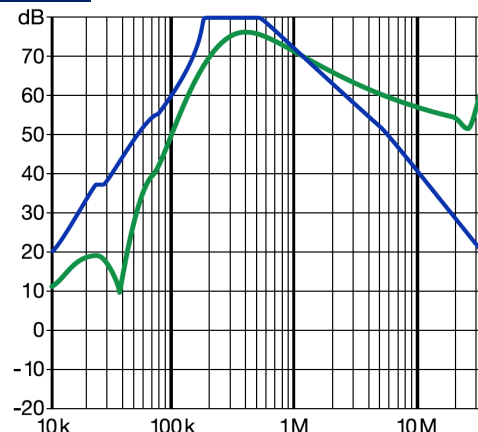


64 to 120 A types

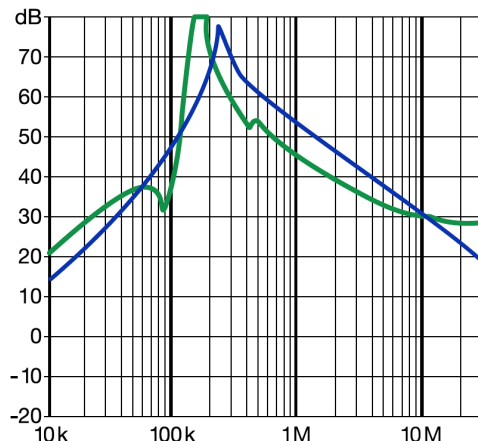


Insertion Loss: Common mode - —
Differential mode - —

25 and 36 A types



160 and 200 A types

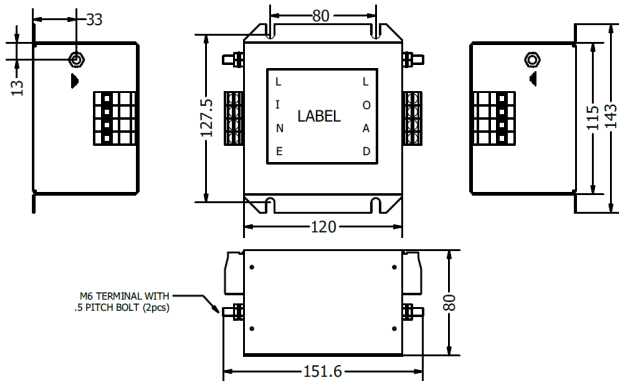


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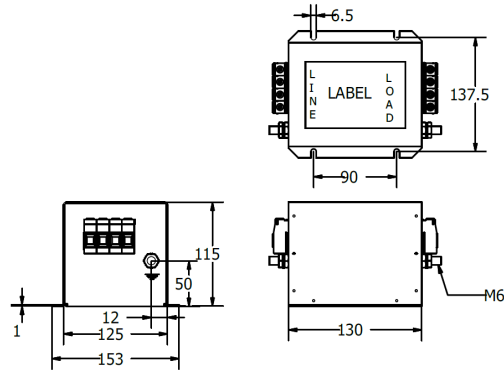
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Mechanical Details

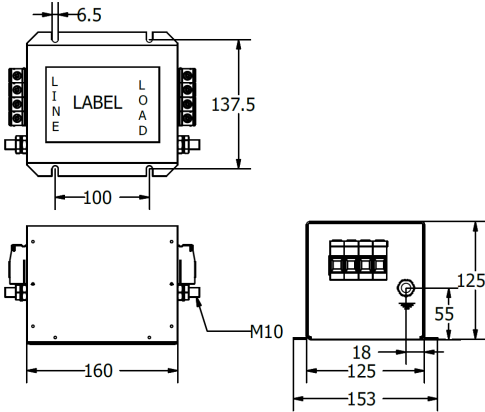
8 & 16 Amp Terminal block



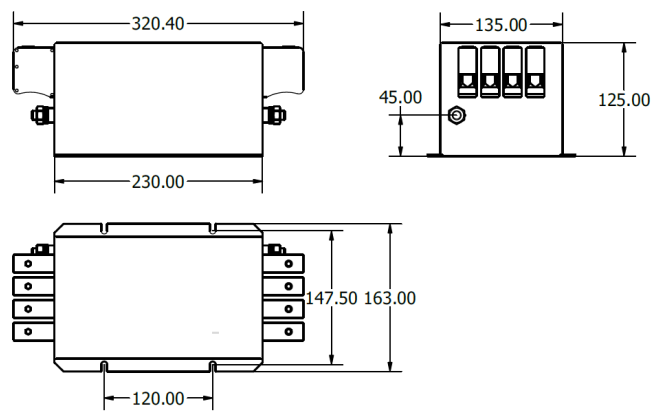
25 & 36 Amp Terminal block



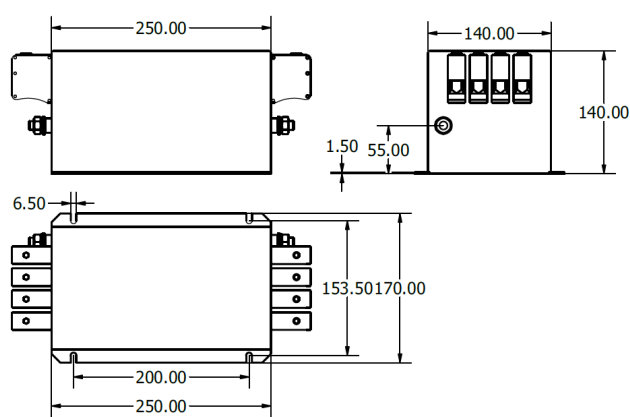
64 Amp Terminal block



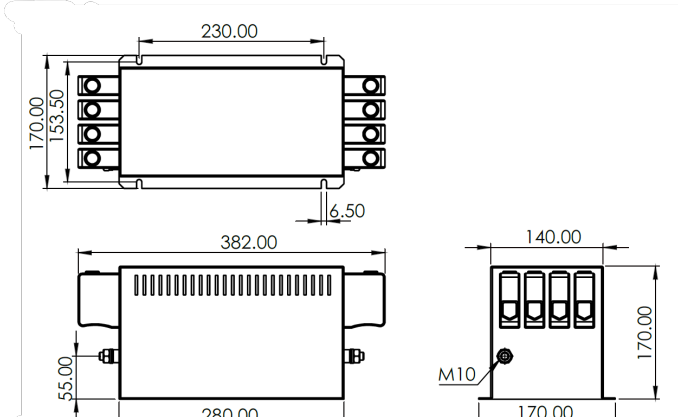
80 Amp Terminal block



120 Amp Terminal block



160 & 200 Amp Terminal block



****All Dimension are in mm**

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RECOMMENDATIONS

FUSING

It is recommended to use semiconductor (fast acting) type fuses or circuit breakers (Semiconductor - MCB) for unit protection. On initial switch on some loads may need an increased Factor of Safety (F of S) for unit and/or device protection. See SRA datasheet for information.

DOCUMENTS

Other documents available on request, which may be appropriate for your application:

Code	Identity	Description
X10229	RFI	Filter recommendations: Addressing the EMC Directive
X10213	ITA	Interaction: Uses for phase angle and for burst fire control
X10255	SRA	Safety Requirements: Addressing the Low Voltage Directive (LVD) including, Thermal Data/Cooling, Live Parts Warning, Earthing Requirements and Fusing Recommendations

It is recommended that installation and maintenance of this equipment should be done with reference to the current edition of the I.E.T. regulations (BS7671) by suitably qualified/trained personnel. The regulations contain important requirements regarding the safety of electrical equipment. For International standards refer STANDARDS on D of C.

PRODUCT CODE AND RELATED PRODUCT CODE

Product Code	Product Description
A-EN328H-36-T	Three phase Chassis Mount EMC/RFI filter, 328 series, 36A, Terminal Block
A-EN328H-64-T	Three phase Chassis Mount EMC/RFI filter, 328 series, 64A, Terminal Block

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FILTERS RECOMMENDATIONS



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APPLICATION AND BASIC DIFFERENCE OF ALL EN20XX SERIES

Sn	Series	Type	Rated Current (A)	Stage	Performance	Circuit details	Application	Medical Version	Low Leakage	Surge Protection
1	EN2010	Single Phase	1, 3, 6, 10, 12, 13, 16, 20, 30	Single	General Attenuation		General Purpose Application, Household equipment, medical equipment office automation & Electrical and Electronics equipment	Available	Available	
2	EN2020	Single Phase	1, 3, 6, 10, 12, 16, 20, 30	Single	High differential Mode Attenuation		General Purpose Application, Household equipment, medical Equipment office automation, datacom application & Electrical and Electronics equipment	Available	Available	
3	EN2030	Single Phase	1, 3, 4, 6, 8, 10, 12, 16, 20, 30	Single	High differential Mode Attenuation		General Purpose Applications, Household equipment, medical Equipment office automation & Electrical and Electronics equipment, high noise application	Available	Available	**Available, 2KV IEC 61000-4-5
4	EN2060	Single Phase	1, 3, 6, 10, 12, 16, 20, 30	Dual	High differential & Common Mode attenuation		Industrial Applications, Building Automation, Household equipment, medical equipment office automation, Electronics data processing equipment & Various Noisy applications, Motor drives and applications.	Available	Available	
5	EN2070	Single Phase	1, 3, 6, 10, 12, 16, 25, 36	Dual	High differential & Common Mode attenuation		Industrial Applications, Building Automation, Household equipment, Medical Equipment office automation, Electronics data processing equipment & Various Noisy applications, Motor drives and applications.	Available	Available	
6	EN2080	Single Phase	1, 3, 6, 10, 12, 16	Dual	High differential & Common Mode attenuation		Industrial Applications, Building Automation, Household equipment, medical equipment, office automation, Electronics data processing equipment & Various Noisy applications, Motor drives and applications.	Available	Available	
7	EN2090	Single Phase	1, 3, 4, 6, 8, 10, 12, 16, 20, 30	Dual	Very high differential & Common Mode attenuation		Industrial applications, Building Automation, Household equipment, Medical Equipment, office automation, Electronics data processing equipment & Various Noisy applications, Motor drives and applications.	Available	Available	**Available, 2KV IEC 61000-4-5

Note: ** Surge protection Filter is only CE and ROHS Approved



BMF House - Wight Moss Way,
Southport Business Park
Southport PR8 4HQ
ENGLAND

unitedautomationltd UA_Limited

