EMV / RFI Filter

EMV / RFI Filter for Inverters and
Power Drive Systems.

- 16A current rating
- 480V/50°C ratings for world compatibility and simple specification
- slim book-style housing
- designed for long cable lengths (50m/54yds+)

UL / CSA: FN 258 up to 180 A (ex. -180-07)

UL / CSA: HV and HVIT up to 600VAC

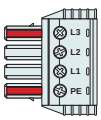
3-Phase Filter	NF01-FN258-16-07
Maximum continuous operating voltage:	480VAC @ 50°C
Operating frequency:	DC up to 60Hz
High potential test voltage:	P → E 2650VDC for 2 sec P → P 2100VDC for 2 sec
Protection category:	IP20
Overload capability:	4x current rating at switch on 1.5x current rating for 1 Minute → Einmal pro Stunde
Temperature range (operation and storage):	-25°C to +100°C (25/100/21)
Flammability corresponding to:	UL 94V-2 or better
Design corresponding to:	UL 1283, CSA 22.2 No.8 1986, IEC/EN 60939
MTBF @ 50°C/400V (Mil-HB-217F):	220'000 h
current rating @ 50°C (40°C):	16A (17.5A)
Typical drive power rating [1]	7.5kW
Leakage current @ 440VAC / 50Hz [2]	18.3mA
Power loss @ 25°C / 50Hz:	20W
Weight:	1.4k g

FILTER INPUT / OUTPUT CONNECTOR:

Input Connector

Solid wire	6 mm²
Flex wire	4 mm²
AWG Type Wire	AWG 10
Recommended torque	0.6 – 0.8 Nm

Output Connector

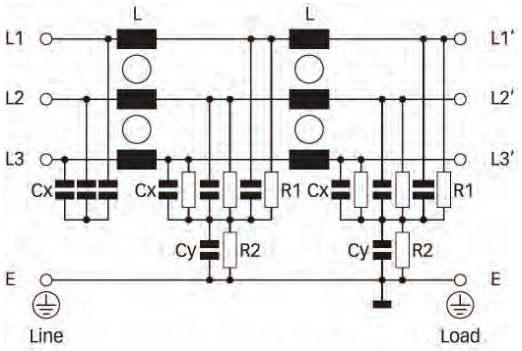


Leitungslänge	300mm ±10mm
LinMot-connector type:	X30 Stromversorgung for E1400

1) Calculated at rated current, 440VAC and cos phi = 0.8. The exact value depends upon the efficiency of the drive, the motor and the entire application.

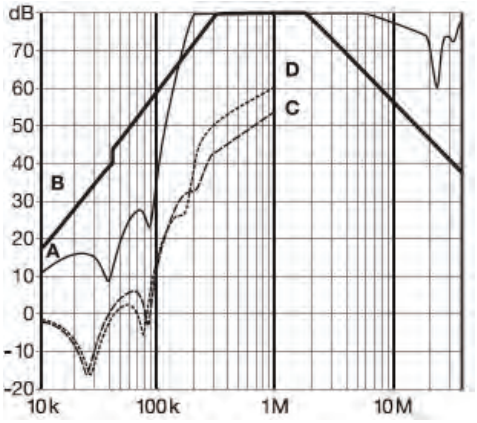
2) Maximum leakage under normal operating conditions at 440VAC. **Note**: if two phases are interrupted, worst case leakage could reach 5.7 times higher levels.

ELECTRICAL SCHEMATIC



Note: HVIT versions without discharge resistor to ground.

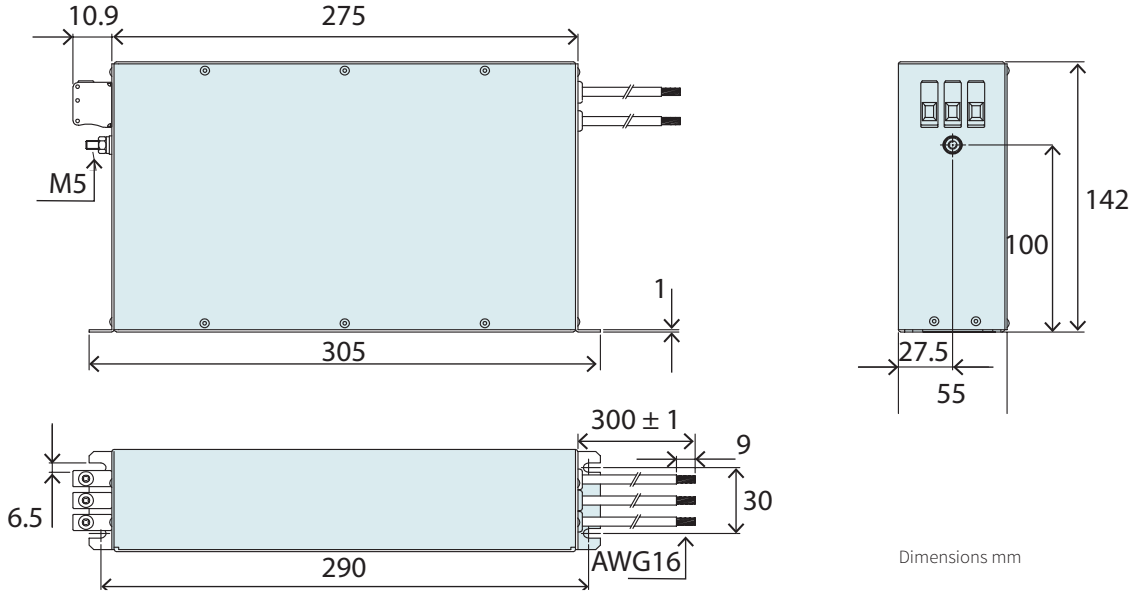
TYPICAL FILTER ATTENUATION



Per CISPAR 17

- A = 50Ω/50Ω sym
- B = 50Ω/50Ω asym
- C = 0.1Ω/100Ω sym
- D = 100Ω/0.1Ω sym

DIMENSIONS



Dimensions mm

Item	Description	Item-No.
NF01-FN258-16-07	Filter for E1400 Drives (Motor cable up to 50m)	0150-2359