


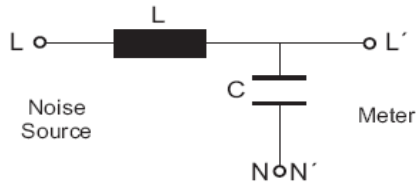
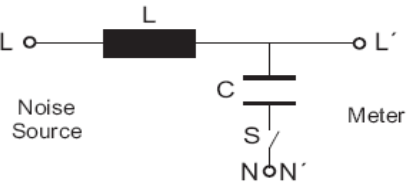
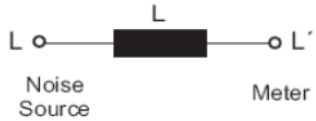


BF (PLC BLOCKING FILTERS-SINGLE PHASE)

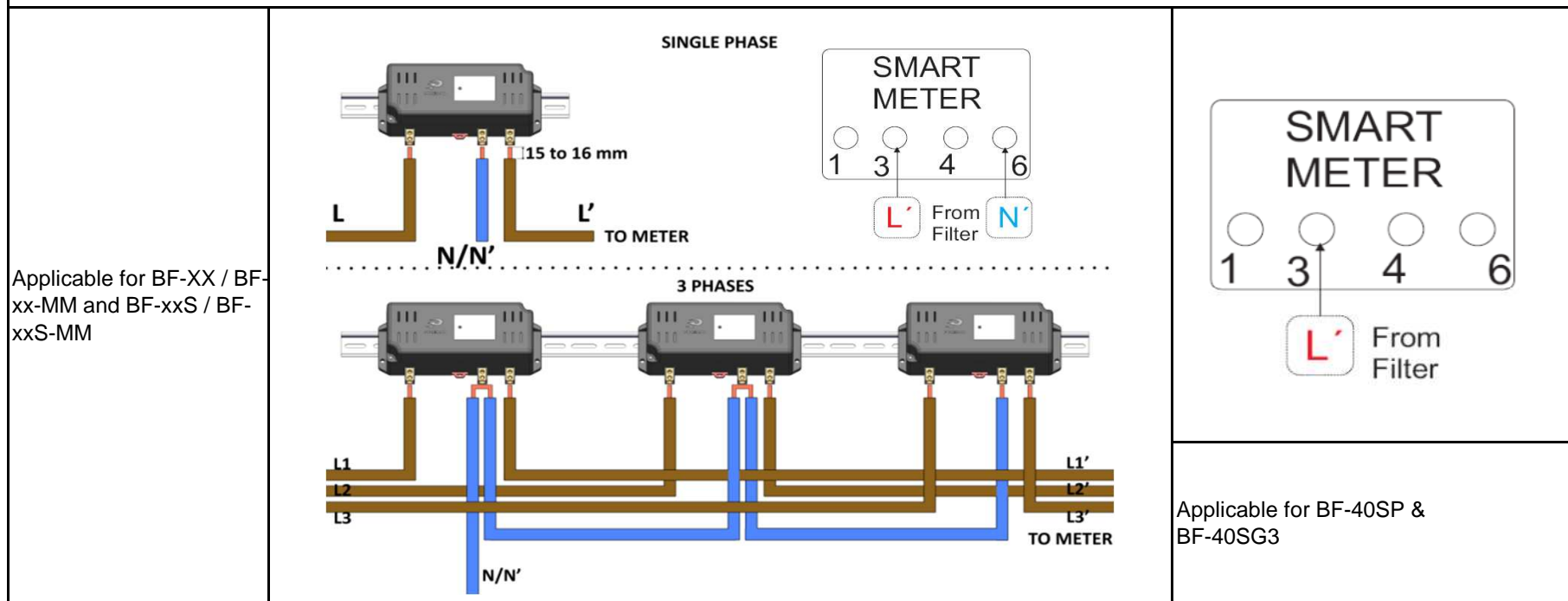
Features & Application

- Specially designed for Smart meters which comply with PLC G3 , PRIME & CENELEC Band A technology
- Designed to meet according to EN 50065-1 regulations
- -MM models Support Smart meters with Re-connection Mechanism.
- Safe terminal with double screws connection
- Good attenuation level without GROUND or PE system and designed with 3 different level of attenuation
- Patent Pending for BF-xx-MM series

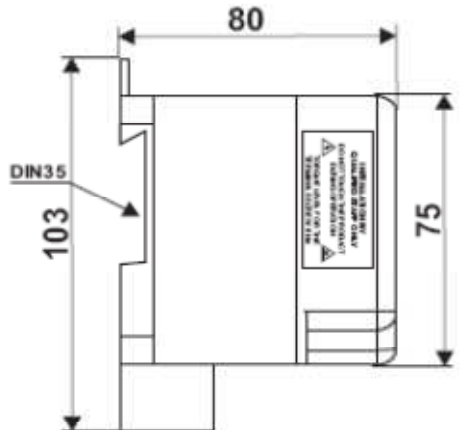
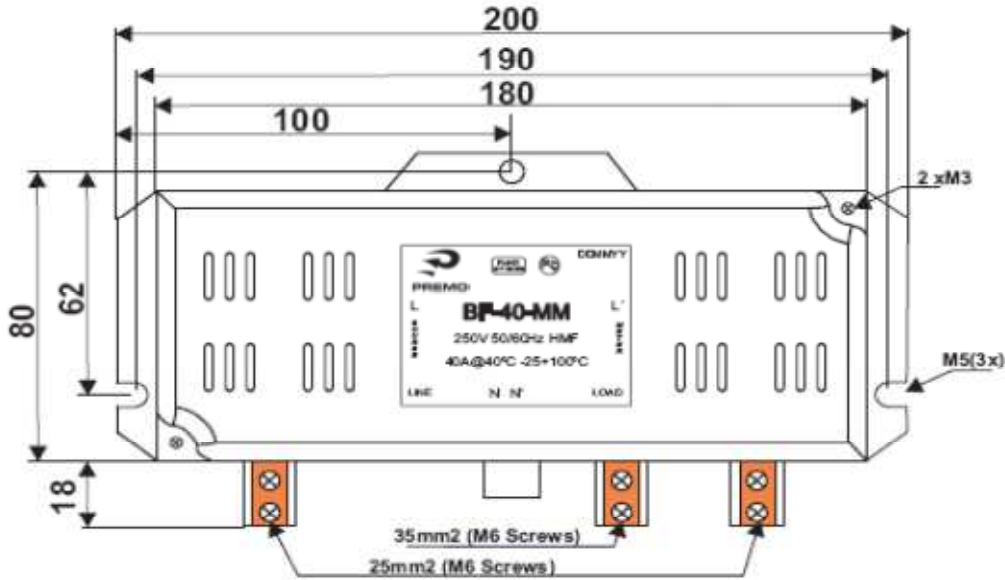
Parameters	Very High performance Type	High performance Type	General Type
Product View			
Equivalent electrical schematic			
Operating Voltage (Max)	250Vac (275Vac)	250Vac (275Vac)	250Vac (275Vac)
Operating Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Operating Current at ambient	40A @ 40°C	40A @ 40°C	40A @ 40°C
Supporting current for Hours & Min's	45A and 63A	45A and 63A	45A and 63A
PREMO Part Number	BF-40 & BF-40-MM	BF-40S & BF-40S-MM	BF-40SP & BF-40SG3
Available Other current models	20A & 30A	20A & 30A	Nil
Operating Temperature Range	(-25°C to +100°C)	(-25°C to +100°C)	(-25°C to +100°C)
Storage Temperature Range	(-25°C to +85°C)	(-25°C to +85°C)	(-25°C to +85°C)

Filter Characteristics (CENELEC Band)	9 to 150KHz (Band A,B,C,D)	9 to 150KHz (Band A,B,C,D)	35 to 90KHz (Band A)
Attenuation Level	> 40 dB (mainly 35-90KHz)	> 30dB (mainly 35-90KHz)	>20 dB
High Surge Protection (Phase-Neu.)	10000 A, 8/ 20µs	10000 A, 8/ 20µs	NA
MTBF at 25°C, 230Vac, 40A (ref.)	Minimum 20 years	Minimum 20 years	Minimum 20 years
Dielectric strength for 60 sec`s	Phase-Housing = 2.5KVac	Phase-Housing = 2.5KVac	Phase-Housing = 2.5KVac
without surge protection	Phase-Neutral = 1.7KVdc	Phase-Neutral = 1.7KVdc	Phase-Neutral = 1.7KVdc
Leakage Current	Nil (no PE insisted)		
Installing in 3 Phase system	Max. Voltage P-P = 480Vac	Max. Voltage P-P = 480Vac	NA
Dimensions in mm	200L x 103W x 80H	160L x 85W x 60H	85L x 85W x 60H
Weight Approx. In Kg +/-	< 2.2 Kg	< 1.3Kg	< 0.5Kg
Ingress Protection	IP 20	IP20	IP20
Mounting Style	Din-Rail 35 + Panel	Panel	Panel
Safety Regulation Followed	EMC Directive 2004/108/EC, UL1283, EN60939-2, IEC 60950-1 & RoHS 2011/65/EU		
Suitable for Compliance	EN 50065-1		

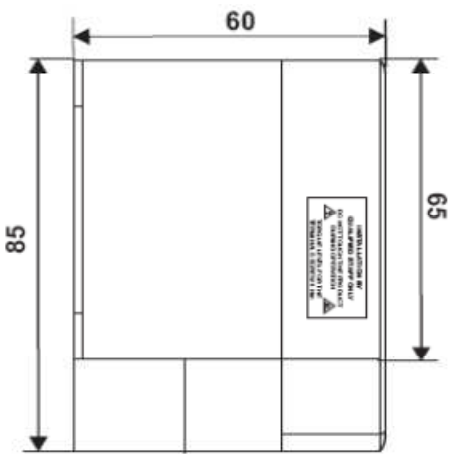
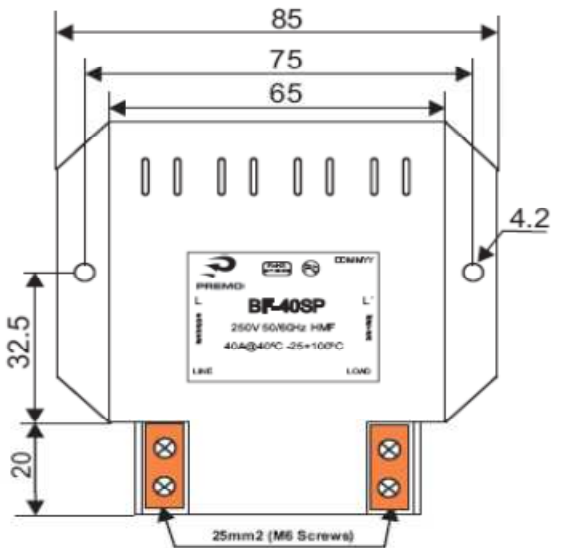
Connection Diagram



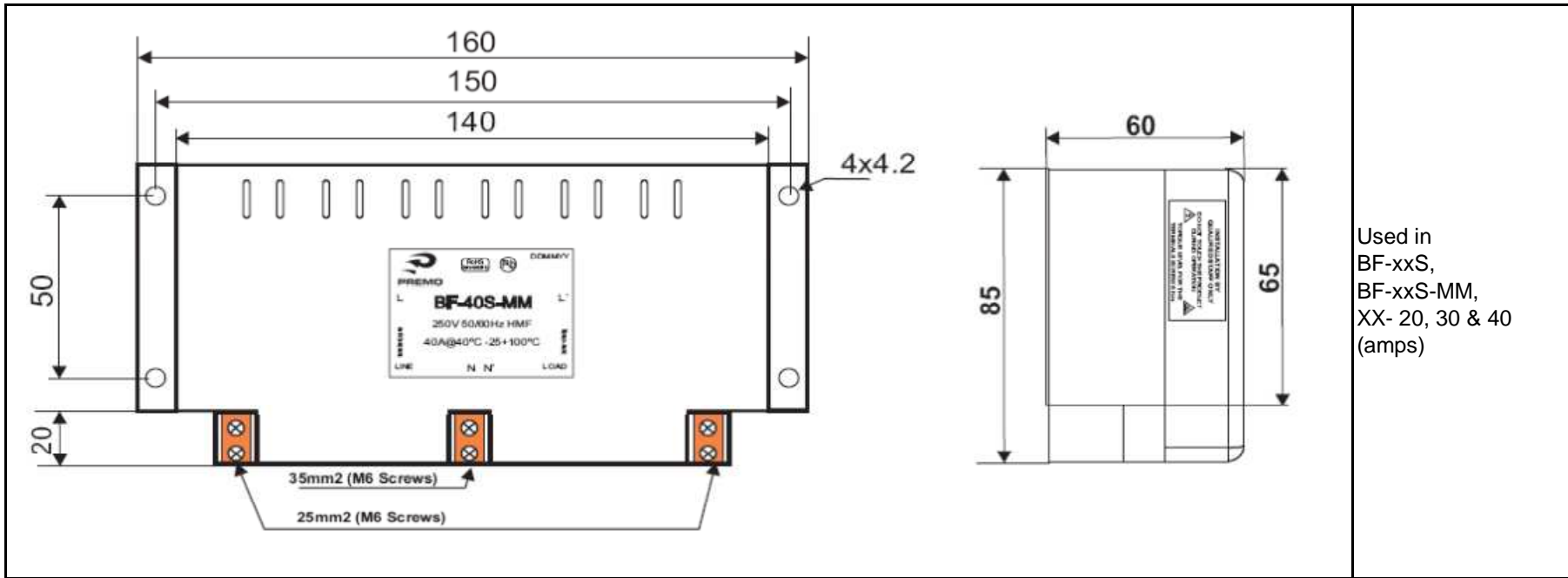
Detail Dimensions



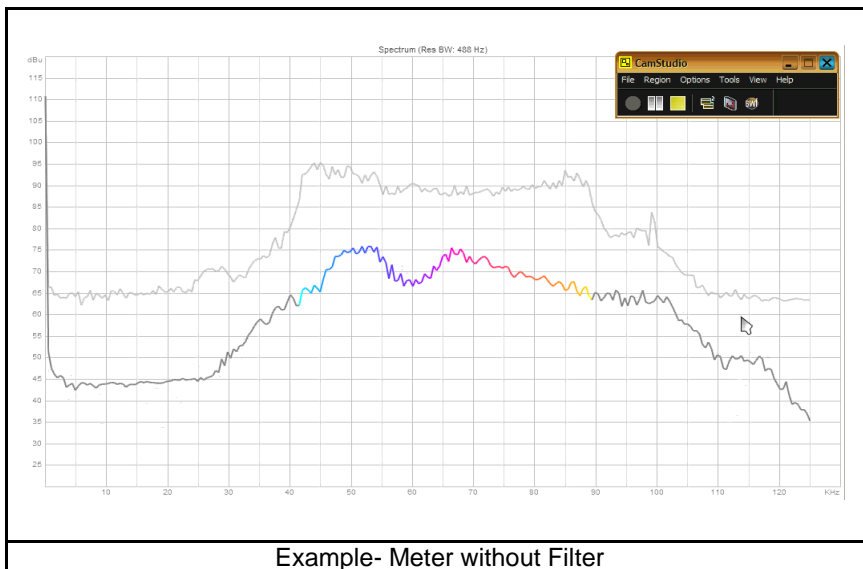
Used in
BF-xx,
BF-xx-MM,
XX- 20, 30 & 40
(Amps)



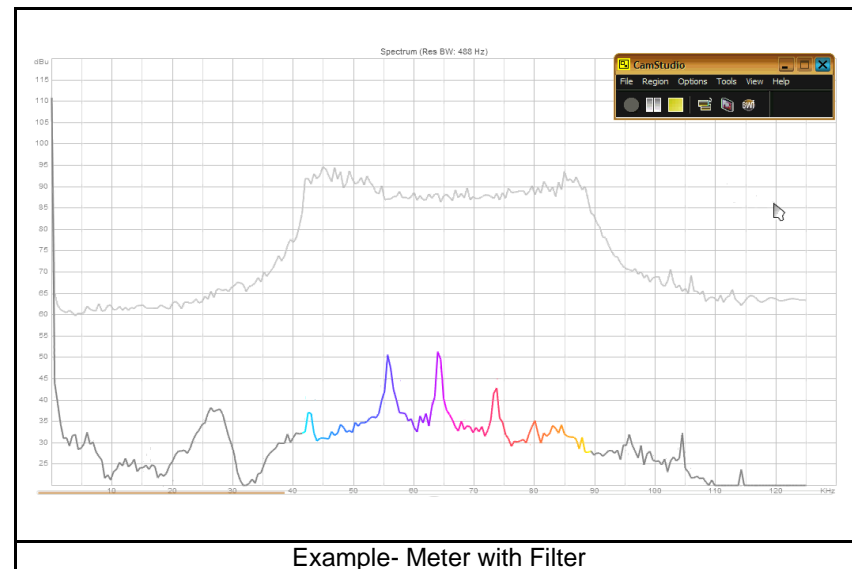
Used in
BF-40SP,
BF-40SG3



Note: PREMIO BF Series developed with IP20, because our products designed to fit inside of Meter cabinets. In this case, Meter cabinet has better Ingress Protection (IP54 to IP67), so Filter is not necessary to have better Ingress Protection thus avoid high cost for the filter.



Example- Meter without Filter



Example- Meter with Filter