

# ADF

## P100N, 100 A Active Dynamic Filter



- High Performance and Reliability
- Wall mounted
- 100 A harmonics compensation
- 300 A neutral compensation
- Advanced Digital Control
- Easy Installation
- Insensitive to Network Conditions
- Harmonic Elimination
- Total Power Factor Correction
- Active Load Balancing
- Dynamic VAR compensation
- Non-overloadable
- Available in 208 – 415 V



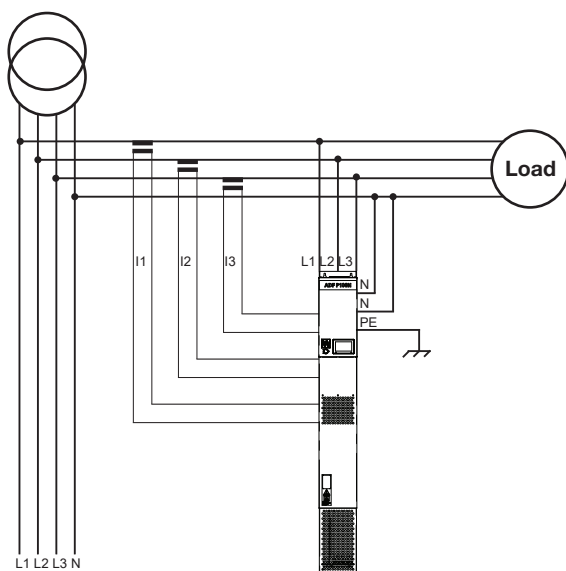
# Technical Specifications

Model	ADF P100N-100/415
Rated power *	70 kVA
Compensation current capacity at 50/60 Hz	100 A <sub>RMS</sub> / 300 A <sub>RMS</sub> Ψ
System voltage	208 – 415 V
Nominal frequency	50/60 Hz ± 2 %
Number of phases	3 phase 4 wire
Connection type	3 phase with neutral (TN, TT)
Harmonic current compensated	individual compensation up to 49 <sup>th</sup> order; 19 <sup>th</sup> order in neutral
Rate of harmonic reduction	better than 98 %
Current compensation of cos φ	up to 1.0
Expandability	ADF P100N units can be used in parallel
Response time	< 1 ms
Power dissipation	< 2235 W
Maximum air flow requirement	600 m <sup>3</sup> /h
Noise level	< 70 dB(A)
Environment	0 to 95 % RH non-condensing, max altitude 1000 m without derating
Operating temperature	0 to 50 °C, up to 40 °C without derating
Dimensions	230 x 1790 x 470 mm (W x H x D)
Weight	170 kg
Enclosure color	RAL 7035 (light grey) RAL 5017 (traffic blue)
Protection class	IP20 according to IEC 529
Environmental conditions	chemical 3C2, mechanical 3S2
Electromagnetic compatibility	EN55011, Class B
Certificates	CE, ABS

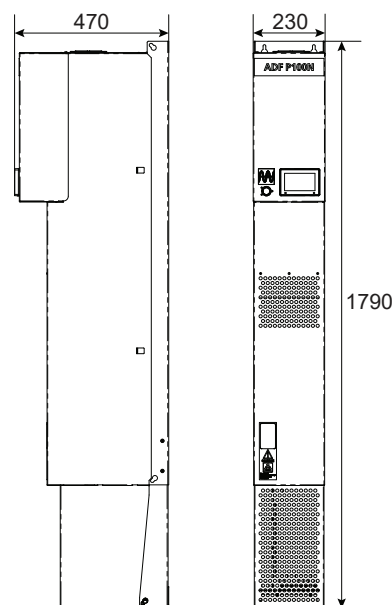
\* Compensation power at 400 V nominal voltage

Ψ Derating applies above 415 V

## Connection Diagram (example)



## Dimensions (mm)



Comsys AB, Fältspatvägen 4, SE-224 78 Lund, Sweden  
 Tel +46 10 209 6800, Fax +46 10 209 6805  
 info@comsys.se www.comsys.se

Partner:

**zeben.**  
 sistemas eletrónicos

Zeben – Sistemas Electrónicos Lda.  
 Trav. de Baixo n°5  
 4935-571 Castelo do Neiva  
 Viana do Castelo (Portugal)  
 Tel: +351 253 818 850  
 Fax: +351 253 818 851  
 info@zeben.pt  
 www.zeben.pt