

# ADF

## P100, 70 – 130 A Active Dynamic Filter



- High Performance and Reliability
- Wall mounted
- Advanced Digital Control
- Easy Installation
- Insensitive to Network Conditions
- Harmonic Elimination
- Total Power Factor Correction
- Active Load Balancing
- Dynamic VAR compensation
- Sensorless operation
- Non-overloadable
- Available in 208 – 480 V and 480 – 690 V version



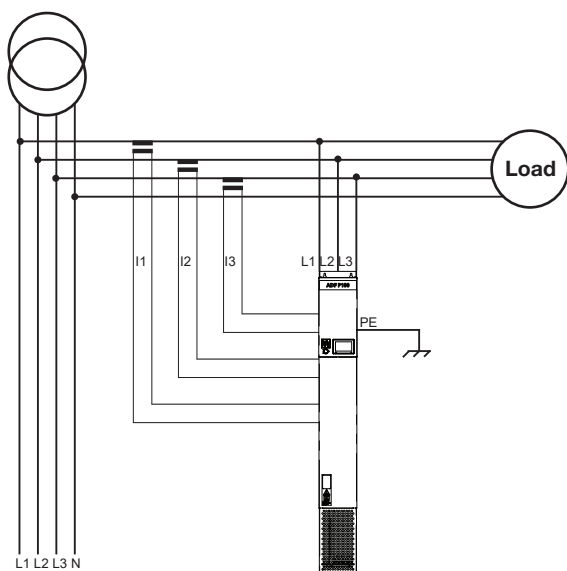
# Technical Specifications

Model	ADF P100-70/480	ADF P100-100/480	ADF P100-130/480	ADF P100-90/690
Rated power *	49 / 59 kVA	70 / 84 kVA	91 / 109 kVA	94 / 108 kVA
Compensation current capacity at 50/60 Hz	70 A <sub>RMS</sub>	100 A <sub>RMS</sub>	130 A <sub>RMS</sub>	90 A <sub>RMS</sub>
System voltage	480 V (208 – 480 V)		690 V (480 – 690 V)	
Nominal frequency	50/60 Hz ± 2 %			
Number of phases	3 phase 3 wire			
Connection type	3 phase without neutral (TN, TT, IT**)			
Harmonic current compensated	individual compensation up to 49 <sup>th</sup> order			
Rate of harmonic reduction	better than 98 %			
Current compensation of cos φ	up to 1.0			
Expandability	up to 15 ADF P100 units can be used in parallel			
Response time	< 1 ms			
Power dissipation	< 1500 W	< 2235 W	< 2970 W	< 2969 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	145 kg		155 kg	
Enclosure color	RAL 7035 (light grey) RAL 5017 (traffic blue)			
Protection class	IP20, IP21** according to IEC 529, other ratings upon request			
Environmental conditions	chemical 3C2, mechanical 3S2			
Electromagnetic compatibility	EN55011, Class B			
Certificates	CE, ABS			

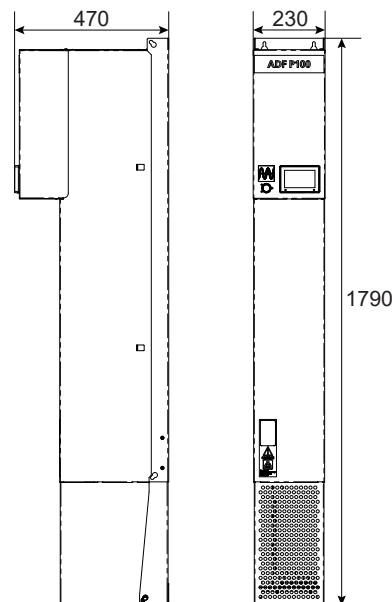
\* Compensation power at 400 V / 480 V (600 V / 690 V) nominal voltage

\*\* Option

## Connection Diagram (example)



## Dimensions (mm)



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