

ADF

P300, 80 – 300 A Active Dynamic Filter



- High Performance and Reliability
- Modular and Scalable Design 80 – 300 A
- 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 – 480 V and 480 – 690 V versions



COMSYS
Creating Value through Power Quality™

Technical Specifications

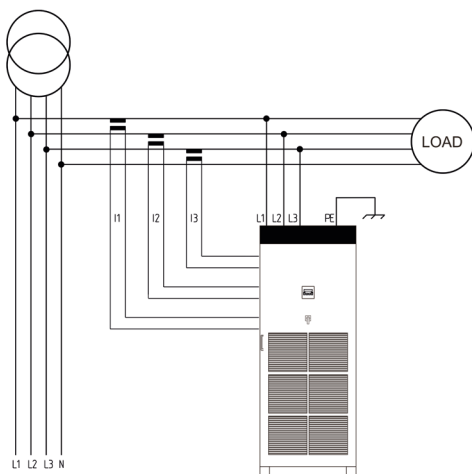
Model	ADF P300-100/480 (ADF P300-80/690)	ADF P300-200/480 (ADF P300-160/690)	ADF P300-300/480 (ADF P300-240/690)
Rated power *	70 / 84 / 84 / 96 kVA	139 / 167 / 167 / 192 kVA	208 / 250 / 250 / 287 kVA
Compensation current capacity at 50/60 Hz	100 A _{RMS} (80 A _{RMS})	200 A _{RMS} (160 A _{RMS})	300 A _{RMS} (240 A _{RMS})
System voltage **	480 V (208 – 480 V), 690 V (480 – 690 V)		
Nominal frequency **	50/60 Hz ± 2 %		
Number of phases	3		
Connection type	3 phase without neutral (TN, TT, IT)		
Harmonic current compensated	individual compensation up to 49 th order		
Rate of harmonic reduction	better than 98 %		
Current compensation of cos φ	up to 1.0		
Expandability	ADF P300 units can be used in parallel		
Response time	< 1 ms		
Power dissipation 480 V (690 V)	< 1900 W (< 2050 W)	< 3800 W (< 4100 W)	< 5700 W (< 6150 W)
Maximum air flow requirement	600 m ³ /h	1200 m ³ /h	1800 m ³ /h
Noise level	< 60 dB		
Environment	0 to 95 % RH non-condensing, max altitude 1000 m		
Operating temperature	0 to 40 °C, < 25 °C recommended		
Dimensions	800 x 2155 x 610 mm (W x H x D)		
Weight 480 V (690 V)	324 kg (338 kg)	450 kg (469 kg)	576 kg (600 kg)
Cabinet color	cabinet RAL 7035 (gray), base RAL 7022 (dark gray)		
Protection class	IP 20 according to IEC 529		
Environmental conditions	chemical 3C3, mechanical 3S3		
Electromagnetic compatibility	EN 61000-6-2, EN 61000-6-4		
Certificates	CE, UL***, cUL***		
Art no 480 V (690 V)	400 043-CE (400 048-CE) 400 043-NA (400 048-NA) 400 043-AM (400 048-AM)	400 044-CE (400 049-CE) 400 044-NA (400 049-NA) 400 044-AM (400 049-AM)	400 045-CE (400 050-CE) 400 045-NA (400 050-NA) 400 045-AM (400 050-AM)

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

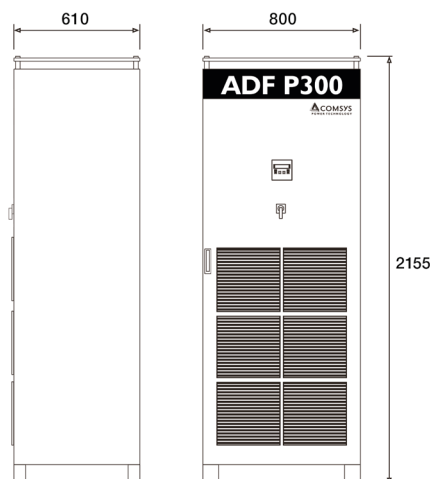
** Please state your system voltage and line frequency when ordering

*** Available Q2 2013

Connection Diagram (example)



Dimensions (in mm)



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