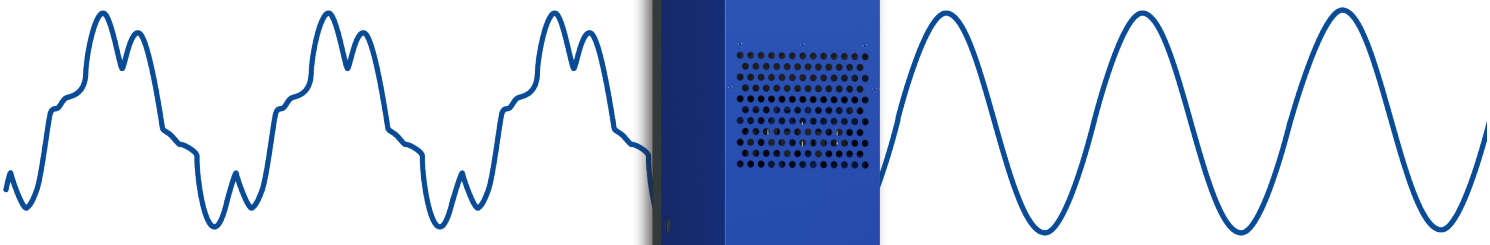
ACTIVE DYNAMIC FILTER

ADF P100N

415 V CE: 100 A

HARMONIC ELIMINATION & LOAD BALANCING

SUITABLE FOR 4 WIRE LOADS



NON OVERLOADABLE

DYNAMIC VAR COMPENSATION

FLOATING GRID FREQUENCY SUPPORT

EASY INSTALLATION

COMSYS

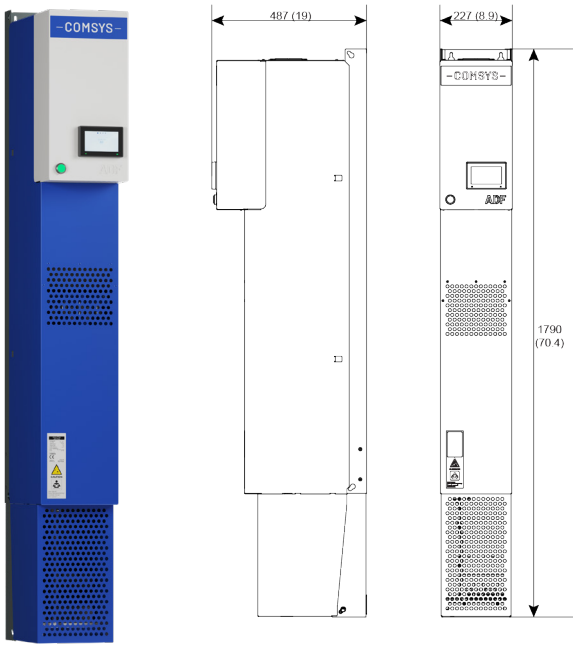
comsys.se

TECHNICAL SPECIFICATION ADF P100N

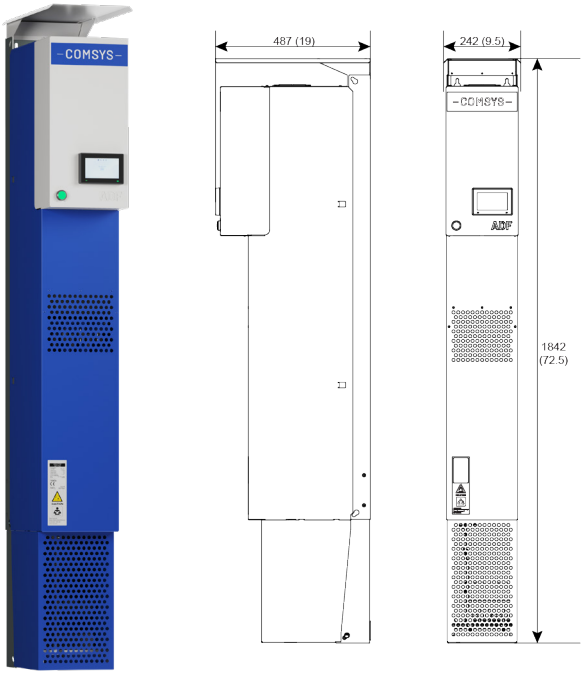
MODEL	ADF P100N-100/415
COMPENSATION CURRENT CAPACITY AT 50/60 HZ	100 A_{RMS}
COMPENSATION CURRENT CAPACITY AT 50/60 HZ NEUTRAL	300 A_{RMS}
SYSTEM VOLTAGE	208 - 415 V
NOMINAL FREQUENCY	45 – 65 Hz (Including floating frequency)
NUMBER OF PHASES	3 phase 4 wire
CONNECTION TYPE	3 phase with neutral (TN, TT)
HARMONIC CURRENT COMPENSATED	Individual compensation up to 49th order
RATE OF HARMONIC REDUCTION	Better than 98%
CURRENT COMPENSATION OF COS φ	Up to 1.0
EXPANDABILITY	ADF P100 units can be used in parallel
RESPONSE TIME	< 1 ms
HEAT DISSIPATION	< 2235 W
MAXIMUM AIR FLOW	< 600 m^3/h / 353 CFM
NOISE LEVEL	< 70 dB(A)
ENVIRONMENT	0 to 95% RH non-condensing, max. altitude 1000 m / 3281 ft. without derating
OPERATING TEMPERATURE	0 to 50° C, up to 40° C without derating 32 to 122 °F, up to 104 °F without derating
DIMENSIONS (W × H × D)	487 × 1790 × 227 mm 19 x 70.4 x 8.9 inch
WEIGHT	160 kg / 353 lbs
CABINET COLOR	Cabinet RAL 7035 (light grey), base RAL 5017 (traffic blue)
PROTECTION CLASS	IP20, IP21 according to IEC 60529
ELECTROMAGNETIC COMPATIBILITY	EN 61000-6-2, EN 61000-6-4. Conducted emission EN 55011 class A1
ENVIRONMENTAL CONDITIONS	Chemical 3C2, Mechanical 3S3
CERTIFICATES	CE

DIMENSIONS & CONNECTION

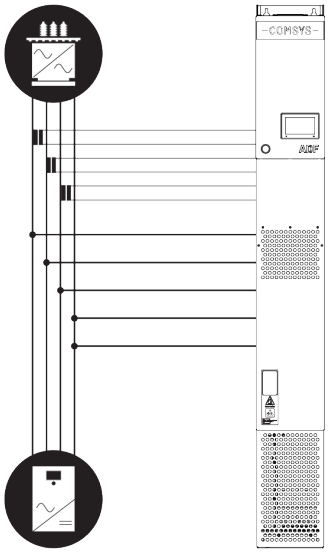
mm (inches) IP20



mm (inches) IP21



Example connection diagram



Customer interface

THE ADF PRODUCT RANGE

The ADF product range consists of versatile tools to address your unique power quality challenges in a way that is cost efficient.

For extreme resonances and interharmonics, to a powerful solution for a compact space, each ADF product targets different power levels in commercial and industrial applications in the low and medium voltage segments.