

# AFEplus ENERGY BF1



The Active Front End is a controllable rectifier with several advantages, including the bidirectional exchange of energy between the DC and AC supply, by controlling the DC Bus voltage. With an intelligent conversion system, based on IGBT technology, the AFEplus Energy provides a power exchange with the active power line only ( $\cos\Phi$  close to one) maintaining sinusoidal line currents. The Active Front End is used to return excess energy to the grid and also reduce the harmonics of the grid current.

## Model @400 Vac

In @ Light Overload 120% x 30 sec.  
(Arms)

In @ Standard Overload 150% x 30 sec.  
(Arms)

Maximum Output Continuous Current  
(kW)

AFEplus ENERGY BF1				
	70	90	110	150
In @ Light Overload 120% x 30 sec. (Arms)	79,3	103	118,4	165,8
In @ Standard Overload 150% x 30 sec. (Arms)	70,6	91,7	105,4	147,6
Maximum Output Continuous Current (kW)	55	71	82	115

## DIMENSIONS

H - mm	556
L - mm	248
P/D - mm	300
Kg	25



## TECHNICAL DATA SHEET | AFEplus ENERGY BF1

Supply voltage	3 x 400-10% ÷ 440+10% Vac
PC programming and device interfacing	Modbus RTU RS485, Modbus TCP-IP
Fieldbus	CANbus, PROFINET/EtherCAT, Profibus
Harmonic content	Sinusoidal line current with THD $\leq$ 3%

## CERTIFICATIONS

Our AFEplus ENERGY BF1 converter guarantees the best performance and simple use and can be used with many of the applications sought after on the market, in compliance with approved international Standards EC (Europe).



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