OPDE*plus BF3*

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In@nominal overload [Arms]	From 310 [A] to 510 [A]			
Heavy: 200% x 3s + 150% x 30s [kW]	160	200	250	315
Light: 120% x 30s [kW]	180	224	284	354
Standard: 150% x 30s [kW]	160	200	250	315
Strong: 200% x 30s [kW]	130	162	205	255

DIMENSIONS	
H - mm	978
L - mm	484
P/D - mm	315
Kg	85

TECHNICAL DATA SHEET | OPDE*plus BF3*	
Supply voltage	• 230±10% Vac single-phase • 3 x 230±10% Vac • 3 x 400±10% Vac
PC programming and device interfacing	Modbus RTU RS485, Modbus TCP-IP
Fieldbus	CANbus, PROFINET/EtherCAT, Profibus
Digital/analog I/O	• n° 2 configurable digital output • n° 3 configurable digital input • S.T.O. safety function / additional 2 digital input • n°1 configurable analog input • Potentiometer Supply
Sensor feedback	Resolver feedback + Multifeedback

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OPDE*plus BF3*

Permanent Magnet Synchronous motors (PMSM)	Closed loop with each of the fbk1 and fbk2 sensors	**Synchronous Reluctance Motors (Synk & AsynRM)**	Closed loop with each of fbk1 and fbk2
	Built in features for anisotropic motors (PMSM-IPM as MTPA and d-axis phasing @ standstill)		Optimized closed loop and sensorless control with flux linkage curves
	Sensorless (wide range) optimized for low speed high torque and high speed spindle motors		Motor control over a wide range of flux weakening
		PWM	~ Max 18 [KHz]*
Asynchronous molors (IM)	Closed loop FOC with each of the fbk1 and fbk2 sensors	**Control loop bandwidth**	Current loop: 1400~2000 [Hz] Max
	VF control, Modified VF control and optimized VF control with torque compensation		Speed loop: Max 200 [Hz]
	Sensorless (wide range) optimized for low speed high torque and high speed spindle motors		The max-min range depends of the overall computational effort
		* For switching frequency out of range, contact the technical office	

MAIN CONTROL FEATURES

- Update cycle internal loop: speed, current, positioning and speed task
- PLC task synchronized with the main PWM loop
- Flying Start for IM/PMSM/SynRM
- Two memory banks
- Mechanical System Identification
- Non linear electrical motor parameters identification

CERTIFICATIONS

Our **OPDE***plus BF3* servo drive 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, such as EC (Europe), UL and CSA (USA and Canada)

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