

E Series

Pump Controllers | VSD Controllers



E109-385 VSD Controller

Is a frequency changer (Inverter); specifically studied for the control and protection of electric pumps.

Connected to any electric pumps regulates the motor speed in order to manage the pumps performance in relation to the operating conditions and requests of the system. Consists in compact electronic units equipped with microprocessor contained in an aluminium structure that grants compactness, cooling ease, lightness and versatility.

Advantages of the use of E Series VSD with any pump:

- Energy saving
- Simple Installation
- Overload protection
- Dry running protection
- Noise reduction
- Soft Start & Stop
- Protection of a second pump, without Inverter, from dry running and overload
- Installation options: directly on the motor cover of the pump or wall installation



Pressure Transducer - Technical Data

Model	Output Signal	Input Signal	Working Pressure	Maximum Pressure
SPD	4.. 20 mA	9.. 28V	0 - 25 Bar	32 Bar

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Technical Data

Type	E109	E114	E306	E309	E311	E314	E318	E325	E330	E338	E348	E365	E375	E385
Input Rated Voltage	1 x 230 V ± 15%		3 x 400 V ± 15%											
Output Rated Voltage	1 x 230 V 3 x 230 V		3 x 400 V											
Output Rated Current	9A 1-7A 3-	9A 1-11A 3-	6A 3-	9A 3-	11A 3-	14A 3-	18A 3-	25A 3-	30A 3-	38A 3-	48A 3-	65A 3-	75A 3-	85A 3-
Output Rated Power	1.1kW 1-1.5kW 3-	1.1kW 1-3kW 3-	2.2kW 3-	4kW 3-	4kW 3-	5.5kW 3-	7.5kW 3-	11kW 3-	15kW 3-	18.5kW 3-	22kW 3-	30kW 3-	37kW 3-	45kW 3-
Max. Motor Current	7.2A 1-6.3A 3-	7.2A 1-9.9A 3-	5.4A 3-	8.1A 3-	9.9A 3-	12.6A 3-	16.2A 3-	22.5A 3-	27A 3-	34.2A 3-	43.2A 3-	58.5A 3-	67.5A 3-	76.5A 3-
Input Frequency	50-60 Hz													
PWM Frequency	2.5 - 4 - 6 - 8 - 10 - 12kHz Settable													
Control Panel	Backlight LCD with 2 x 16 Characters and Buzzer / Bluetooth® SMART 4.0													
Input Analogical Signals	4 X 4 - 20mA													
Input Digital Signals	2													
Communication	RS485 / Bluetooth® SMART 4.0													
2 DOL Auxiliary Pump Contacts	Clean, NO, 230V, I _{max} 6A													
Cooling	Auxiliary built-in cooling fan / motor fan													
Protection Degree	IP55 (IP54 for E 338 ↔ E 385)													
Assembly	On motor fan cover with kit / hang on wall with Kit													
Max Ambient Temperature	40°C													
Max Ambient Altitude	100 m slm / de-rate 2% each 100m													
Input / Output Feeding Cable	2 x PG 13.5 + 3 x PG 9													
Dimensions	181 x 181 x 228mm					260 x 260 x 180mm				410 x 680 x 260mm				

Site Address

6A Kelly Court,
Springvale, VIC 3171

Postal Address

6A Kelly Court,
Springvale, VIC 3171

Contact Details

P: 03 9791 7500
E: sale@cpfs.net.au

