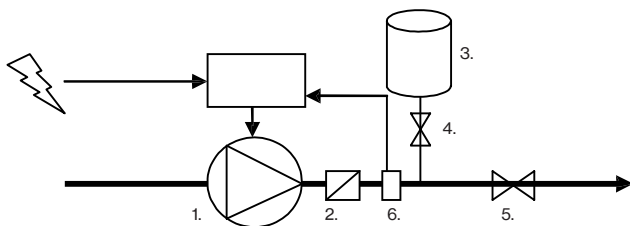


VARIABLE SPEED DRIVE



Frequency 48-62 Hz
 Max ambient temperature 40°C (104°F)
 Max humidity 50% a 40°C
 Max altitude 1000 m
 PWM configurable 2,5; 8 KHz
 Complies with the electromagnetic conformity directive

V in (±15%)	V out	I line max	I out max	P2	Kg
1-230 V	3-230 V	11 A	7,5 A	2,5 HP	2,5



1. Pump
2. Non return valve
3. Pressure tank
Pressure tank volume suggested: 10% of the capacity of the system
4. Valve-Tap
5. Valve
6. Pressure sensor

VSD Variable Speed Drive	TYPE	up to	
		P2	
		HP	kW
EPIC	JA/JR	2	1,5
	JA 150-300	2	1,5
	JXF	1,5	1,1
	JXM	1,2	0,88
	KBJ	2	1,5
	KM	1,5	1,1
	RA	1	0,74
	SD 2"	2	1,5
	SE	1,5	1,1
	KB	1,5	1,1
	PLUS 3	2,5	1,85
	PLUS 5	2,5	1,85
	PLUS 7	2,5	1,85
PLUS 9	2,5	1,85	
PLUS 18	2,5	1,85	



VARIABLE SPEED DRIVE



It's a frequency changer (inverter); specifically studied for 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.

The advantages of the use of IPFC:

- 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.

TYPE	IPFC 109	IPFC 114	IPFC 306	IPFC 309	IPFC 311	IPFC 314	IPFC 318	IPFC 325	IPFC 330	IPFC 338	IPFC 348	IPFC 365	IPFC 375	IPFC 385
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	9 A 1- 7 A 3-	9 A 1- 11 A 3-	6 A 3-	9 A 3-	11 A 3-	14 A 3-	18 A 3-	25 A 3-	30 A 3-	38 A 3-	48 A 3-	65 A 3-	75 A 3-	85 A 3-
Output rated power	1,1 kW 1- 1,5 kW 3-	1,1 kW 1- 3 kW 3-	2,2 kW 3-	4 kW 3-	4 kW 3-	5,5 kW 3-	7,5 kW 3-	11 kW 3-	15 kW 3-	18,5 kW 3-	22 kW 3-	30 kW 3-	37 kW 3-	45 kW 3-
Max motor current	7,2 A 1- 6,3 A 3-	7,2 A 1- 9,9 A 3-	5,4 A 3-	8,1 A 3-	9,9 A 3-	12,6 A 3-	16,2 A 3-	22,5 A 3-	27 A 3-	34,2 A 3-	43,2 A 3-	58,5 A 3-	67,5 A 3-	76,5 A 3-
Input frequency	50 - 60 Hz													
PWM frequency	2,5 - 4 - 6 - 8 - 10 - 12 kHz settable													
Control panel	backlight LCD with 2 x 16 characters and buzzer / Bluetooth® SMART 4,0													
Input analogical signals	4 x 4 - 20 mA													
Input digital signals	2													
Communication	RS485 / Bluetooth SMART 4,0													
2 DOL Auxiliary pump contacts	clean, NO, 230 V, I _{max} , 6 A													
Cooling	Auxiliar built-in cooling fan / mot fan													
Protection degree	IP55 (IP54 for IPFC 338 < > IPFC 385)													
Assembly	on motor fan cover with kit / hang on wall with kit							on motor feet / wall with kit						
Max ambient temperature	40° C													
Max ambient altitude	1000 m slm / de-rate 2% each 100 m													
Input / Output feeding cable	2 x PG 13,5 + 3 x PG 9													
Dimension	181 x 181 x 228 mm					260 x 260 x 180 mm					410 x 680 x 260 mm			



PRESSURE TRANSDUCER

TYPE	Output signal	Input voltage	Working pressure	Maximum pressure
SPD	4... 20 mA	9... 28 V	0 - 25 bar	32 bar