

kW 0.37 → 15

Electronic panel for direct start-up of 2 single or three phase pumps, for applications with clean or waste water

serie **DUPLEX-UP**

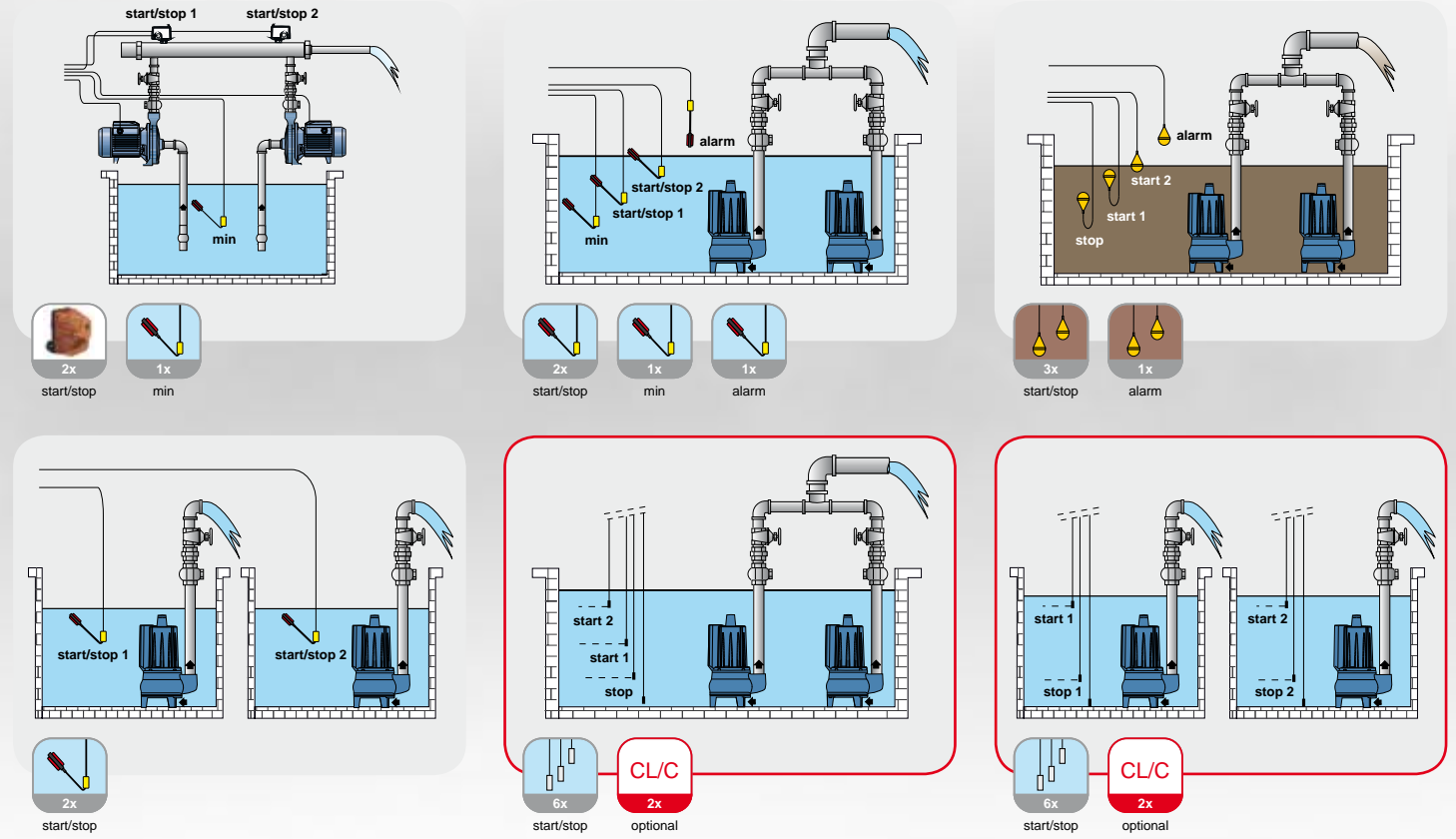


BENEFITS

- ✓ Minimum stock requirements:
 - A single panel for all single phase outputs up to 16A
 - A single panel for all three phase outputs up to 15A
- ✓ Integrated alternation of pumps, with option to disable
- ✓ Operation with floats or pressure switches
- ✓ Minimum and maximum level alarm outputs
- ✓ Provision for Klixon connection
- ✓ Use for waste water or clean water
- ✓ Self-retaining, settable and/or with option to disable
- ✓ Command with level probes (2x cl/c – optional)



STANDARD APPLICATIONS





























MODELS






























V (50/60 Hz)	CODE	MODEL	POWER		MAX CURRENT (A)		DIMENSIONS (mm)			KG
			KW	HP	DA / FROM	A / TO	A	B	P	
1-230V	013.05	DUPLEX-UP-M/3	0,37÷2,2	0,5÷3	2	16	340	240	170	4
	013.08	DUPLEX-UP-T/10	0,55÷7,5	0,75÷10	2	15	340	240	170	6,5
	013.09	DUPLEX-UP-T/15	7,5÷11	10÷15	16	24	420	300	150	6,5
3-400V	013.11	DUPLEX-UP-T/20	11÷15	15÷20	24	42	420	300	150	6,5

LEGEND

COMMON SPECIFICATIONS

	main disconnect switch with door lock
	power supply input 1-50/60Hz 230V ± 10% (single phase versions)
	power supply input 3-50/60Hz 400V ± 10% (three phase versions)
	safety transformer for auxiliary circuits 400+230V / 24V-
	start command input
	minimum level protection input (float switch or general NO voltage-free contact)
	motor protection fuses
	auxiliary circuit protection fuses
	motor start-up power contactor (in AC3)
	thermal relay for overload protection with reset function (automatic/manual)
	UTO - 0 - MAN flip switch (manual self-retaining or spring return on request)
	"power ON" blue indicator light
	"motor running" green indicator light
	"thermal cut-out trip" red indicator light
	ABS enclosure (up to 15Hp)
	metal enclosure (from 20Hp)
	tear-proof cable clamp output (only for ABS enclosures)
	provision for start-up capacitors (single phase versions)
	AUTO - 0 - MAN mode selection buttons (manual spring return)
	safety device reset button (0)
	"selector in automatic mode" green indicator light
	alarm output 5A 250V (voltage free contact)
	IP54 protection rating
	IP55 protection rating (IP54 on models with forced ventilation)
	ambient temperature -5°C / +40°C
	relative humidity 50% at 40 °C (condensate free)

SPECIAL FEATURES

number of motors	
klixon trip indicator voyant	
klixon input	
alternated start-up	
self-holding	
operating hour counter	
pulse counter	
overcurrent calibration	
minimum current calibration	
sensor sensitivity calibration	
over/undervoltage protection	
filling/draining	
clean/waste water operation	
pump shut-down delay (trimmer)	
pump start-up delay	
cosφ calibration	
function setting dip-switch	
input of sensor 4-20mA	
level alarm indicator	
12V buffer battery input entrée	
alarm output 12Vdc 20mA	
level control for sensors	
timed restart (5', 30', 60', 90')	
alarm command input	
exclusion of faulty motor	
voltmeter	
ammeter	
remote control APP	
GSM (SIM not included)	
LCD display: reading of V, A, alarms-parameter set points	