ADP SOFT STARTER BOX

E02-ADP-FT-001

Product data sheet · Soft-start and variable-speed starter panels

Soft starter box for 1, 2 or 3 three-phase 400 V motors (ADP1, ADP2, ADP3), from 2.2 to 150 kW depending on the version, in an IP55 metal enclosure. Soft starter with bypass contacts, voltmeter and ammeter on the front panel, protection against phase loss and phase imbalance.



Technical data

Operating voltage	400 Vac ± 10%, 50/60 Hz
Number of motors	1 (ADP1, 2.2 to 150 kW), 2 (ADP2, 2.2 to 92 kW) or 3 (ADP3, 2.2 to 45 kW)
Isolator	Main isolator with door interlock
Control	Auto-off-manual selector switch; start/stop button for manual operation
Indicators	LED run indicator light, LED overload indicator light
Metering	72 × 72 mm analogue voltmeter with voltmeter selector switch, 72 × 72 mm analogue ammeter
Starting	Soft starter with bypass contacts
Settings	Acceleration and deceleration ramps and starting voltage adjustable by potentiometers
Switchgear	Transformer and auxiliary circuit protection fuse, motor protection fuses, connection terminal block
Ventilation	Forced ventilation with filters and thermostat, from 18.5 kW (25 HP, ADP1-018)
Inputs	2 extra-low voltage inputs for a pressure switch or floats (minimum level and maximum level)
Protection	Overcurrent with phase imbalance and alarm; phase loss and no-load condition
Enclosure	Metal
Protection rating	IP55
Operating temperature	-5 to +40 °C
Level probe option	OP-SONDES, 24/230 Vac probe management kit

Description

The ADP box starts a 400 V three-phase motor using a soft starter fitted with bypass contacts. The acceleration and deceleration ramps and the starting voltage are adjusted by potentiometers.

The front panel carries a voltmeter with voltmeter selector switch, an ammeter, the run and overload indicator lights, the mode selector switch and the start/stop button.

The selector switch sets the operating mode:

- automatic: operation controlled by a pressure switch or floats connected to the extra-low voltage inputs;
- 0: off;
- manual: start and stop with the start/stop button.

The box protects the motor against overcurrent, phase imbalance, phase loss and no-load condition.

The box is available for 1, 2 or 3 motors: ADP1 (2.2 to 150 kW), ADP2 (2.2 to 92 kW) and ADP3 (2.2 to 45 kW). Apart from the number of motors and the OP-SONDES option, the specifications above are those of the 1-motor box.

Performance

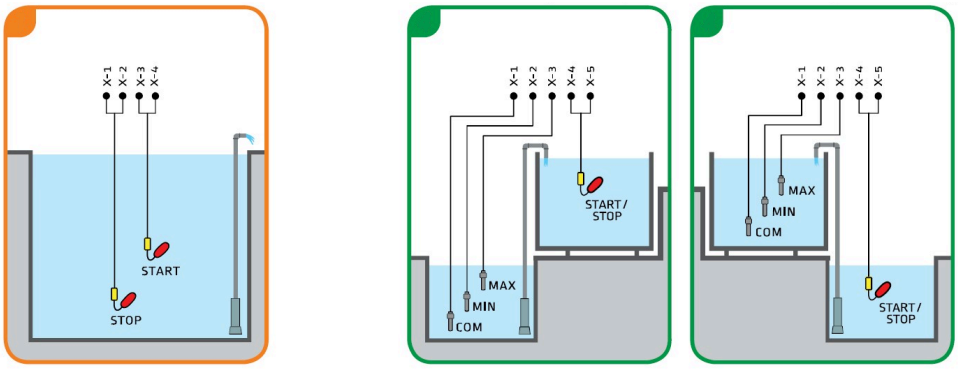
Models, power ratings and current ranges

Code	Min. motor power (kW)	Max. motor power (kW)	Min. current (A)	Max. current (A)
ADP1 – 1 motor				
ADP1-002	2.2	4	5	12.5
ADP1-005	5.5	9.2	10	25
ADP1-011	11	13	17	32
ADP1-015		15	23	38
ADP1-018		18.5	22.5	45
ADP1-022	22	26	25.5	63
ADP1-030		30	34.5	72
ADP1-037		37	42.5	80
ADP1-037/2		37	46	106
ADP1-045		45	46	106
ADP1-051		51.5	46	106
ADP1-060		60	59	134
ADP1-066		66	59	134
ADP1-075		75	87	162
ADP1-092		92	130	230
ADP1-110		110	130	230
ADP1-132		132	130	280
ADP1-150		150	130	356
ADP2 – 2 motors				
ADP2-002	2.2	4	5	12.5
ADP2-005	5.5	9.2	10	25
ADP2-011	11	13	17	32
ADP2-015		15	23	38
ADP2-018		18.5	22.5	45

Code	Min. motor power (kW)	Max. motor power (kW)	Min. current (A)	Max. current (A)
ADP2-022	22	26	25.5	63
ADP2-030		30	34.5	72
ADP2-037		37	42.5	80
ADP2-037/2		37	46	106
ADP2-045		45	46	106
ADP2-051		51.5	46	106
ADP2-060		60	59	134
ADP2-066		66	59	134
ADP2-075		75	87	162
ADP2-092		92	130	230
ADP3 – 3 motors				
ADP3-002	2.2	4	5	12.5
ADP3-005	5.5	9.2	10	25
ADP3-011	11	13	17	32
ADP3-015		15	23	38
ADP3-018		18.5	22.5	45
ADP3-022	22	26	25.5	63
ADP3-030		30	34.5	72
ADP3-037		37	42.5	80
ADP3-037/2		37	46	106
ADP3-045		45	46	106

For 37 kW motors, two current ratings are available: 42.5/80 A (ADP1-037, ADP2-037, ADP3-037) and 46/106 A (ADP1-037/2, ADP2-037/2, ADP3-037/2). Choose the rating according to the motor current.

Installation



Connection examples: standard box (1) and boxes with options (2, 3)

1. General use, standard box: STOP float on terminals X-1 and X-2, START float on terminals X-3 and X-4.

2. Clean water, emptying, box with options: COM, MIN and MAX level probes on terminals X-1, X-2 and X-3, START/STOP float on terminals X-4 and X-5.
3. Clean water, filling, box with options: same terminals; the START/STOP float and the level probes are placed the opposite way round to diagram 2.

In the diagrams, the float is shown in yellow and red, the level probes in grey.

The level probes in diagrams 2 and 3 are connected using the OP-SONDES option, a 24/230 Vac probe management kit.

Related documents : E02-AET-FT-001, E01-CEV-FT-001

Product codes : ADP1-002, ADP1-005, ADP1-011, ADP1-015, ADP1-018, ADP1-022, ADP1-030, ADP1-037, ADP1-037/2, ADP1-045, ADP1-051, ADP1-060, ADP1-066, ADP1-075, ADP1-092, ADP1-110, ADP1-132, ADP1-150, ADP2-002, ADP2-005, ADP2-011, ADP2-015, ADP2-018, ADP2-022, ADP2-030, ADP2-037, ADP2-037/2, ADP2-045, ADP2-051, ADP2-060, ADP2-066, ADP2-075, ADP2-092, ADP3-002, ADP3-005, ADP3-011, ADP3-015, ADP3-018, ADP3-022, ADP3-030, ADP3-037, ADP3-037/2, ADP3-045