CDIM AND CDIT ELECTROMECHANICAL DIRECT-ON-LINE STARTER BOX

E01-CDI-FT-001

Product data sheet · Direct-on-line starter panels

Electromechanical direct-on-line starter box for one motor, in an IP55 thermoplastic enclosure. Single-phase 230 V (CDIM) or three-phase 400 V (CDIT) version, automatic control by pressure switch or float, or manual control.



Technical data

Operating voltage	230 Vac ± 10%, 50/60 Hz (CDIM, single-phase); 400 Vac ± 10%, 50/60 Hz (CDIT, three-phase)
Number of motors	1
Control	Auto-off-manual selector switch, with stable positions
Indicators	Run indicator light, overload indicator light
Switchgear	Motor protection fuses, contactor, thermal overload relay with internal reset, connection terminal block
Input	1 input for pressure switch or float
Protection	Overcurrent, with alarm
Enclosure	Thermoplastic, with cable glands
Protection rating	IP55
Operating temperature	-5 to +40 °C
Level probe option	OP-SONDES, 24/230 Vac probe management kit

Description

The CDIM or CDIT box provides direct-on-line starting for one motor, by means of a contactor. It protects the motor with fuses and a thermal overload relay, and two indicator lights show run and overload status.

The selector switch on the front panel sets the operating mode:

- automatic: operation controlled by a pressure switch or a float connected to the box input;
- 0: off;
- manual.

Two versions are available: CDIM for a 230 V single-phase motor, CDIT for a 400 V three-phase motor.

Performance

Models, power ratings and current ranges

Code	Min. motor power (kW)	Max. motor power (kW)	Min. current (A)	Max. current (A)
CDIM – single-phase 230 V				

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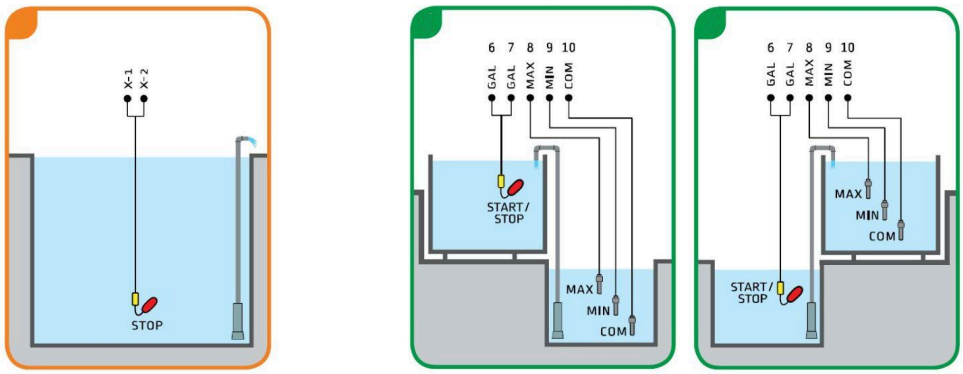
Code	Min. motor power (kW)	Max. motor power (kW)	Min. current (A)	Max. current (A)
CDIM-4.5/6.3	0.37	0.55	4.5	6.3
CDIM-7/10		0.75	7	10
CDIM-9/12.5		1.1	9	12.5
CDIM-11/16		1.5	11	16
CDIM-14/20		2.2	14	20
CDIT – three-phase 400 V				
CDIT-0,9/1,25			0.9	1.25
CDIT-1,1/1,6			1.1	1.6
CDIT-1,4/2		0.37	1.4	2
CDIT-1,8/2,5		0.55	1.8	2.5
CDIT-2,2/3,2		0.75	2.2	3.2
CDIT-2,8/4		1.1	2.8	4
CDIT-4,5/6,3		1.5	4.5	6.3
CDIT-5,5/8	1.8	2.2	5.5	8
CDIT-7/10	3	3.7	7	10
CDIT-9/12,5		4	9	12.5
CDIT-11/16		5.5	11	16
CDIT-14/20		7.5	14	20

Installation



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

1. General use, standard box: one float (STOP) connected to terminals X-1 and X-2.
2. Clean water, emptying, box with options: START/STOP float on terminals 6 and 7 (GAL), MAX, MIN and COM level probes on terminals 8, 9 and 10.
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 : E01-CEV-FT-001

Product codes : CDIM-4.5/6.3, CDIM-7/10, CDIM-9/12.5, CDIM-11/16, CDIM-14/20, CDIT-0,9/1,25, CDIT-1,1/1,6, CDIT-1,4/2, CDIT-1,8/2,5, CDIT-2,2/3,2, CDIT-2,8/4, CDIT-4,5/6,3, CDIT-5,5/8, CDIT-7/10, CDIT-9/12,5, CDIT-11/16, CDIT-14/20