

Direct-On-Line (DOL) Motor Starter



Description

The Direct on Line motor starter (DOL) is designed to switch a single or three phase induction motor at rated voltage. It comprises an enclosure in steel or plastic, a contactor, start contact, link wires and stop / start buttons. The Thermal overload is supplied as a separate item.

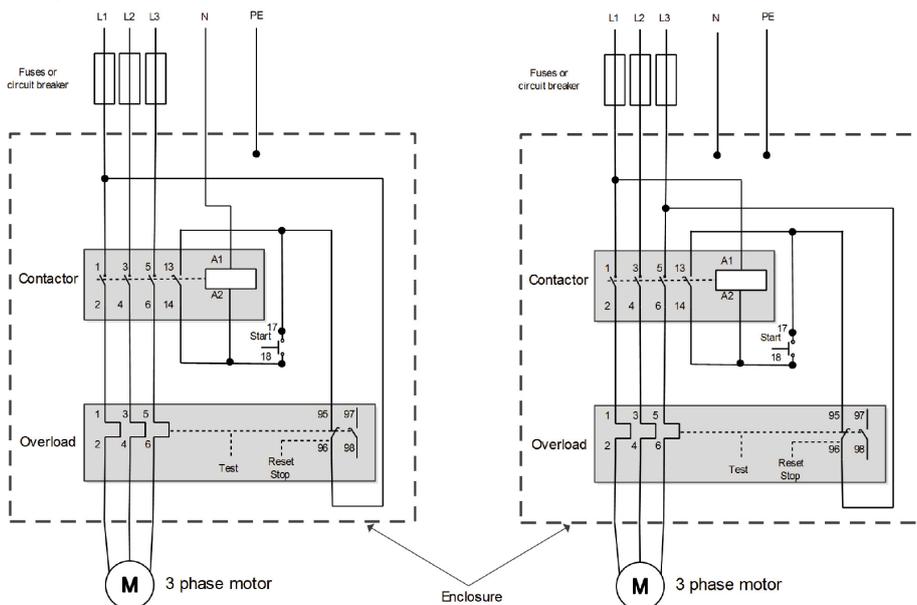
Part Number	Enclosure Type	Coil Voltage	Current Rating	Max. Motor Size kW @ 415V
MCBE1-D123U7	Steel	230V	12 Amps AC3	5.5 kW
MCBE1-D253U7		230V	25 Amps AC3	11 kW
MCBE1-D123N7		415V	12 Amps AC3	5.5 kW
MCBE1-D253N7		415V	25 Amps AC3	11 kW

Wiring of the Direct-On-Line (DOL) Motor Starter

- 1) Three Phase Supply 230Volt Coil - see wiring diagram. **(1)** The following links are pre-fitted to the starter; 13 - 17 with a flying lead to be connected to Overload terminal 95; A2 - 14 - 18. All other control and power connections have to be made by the installer.
- 2) Three Phase supply 415 Volt Coil - see wiring diagram. **(2)** The following links are pre-fitted to the starter; 13 - 17 with a flying lead to be connected to Overload terminal 95; A2 - 14 - 18; Contactor terminal 1 - A1; Contactor terminal 5 via flying lead to Overload terminal 96. All other control and power connections have to be made by the installer.
- 3) Single Phase supply 230 Volt Coil - see wiring diagram. **(3)** The following links are pre-fitted to the starter; 13 - 17 with a flying lead to be connected to Overload terminal 95; A2 - 14 - 18; Contactor terminal 5 - A1; Contactor terminal 5 via flying lead to Overload terminal 96. All other control and power connections have to be made by the installer.

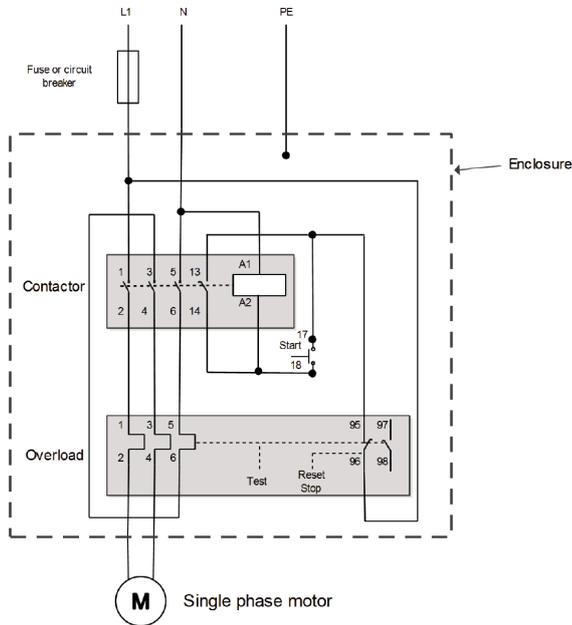
(1) Wiring of DOL devices for 400V 3 phase with 230V coil

(2) Wiring of DOL devices for 400V 3 phase with 415V coil

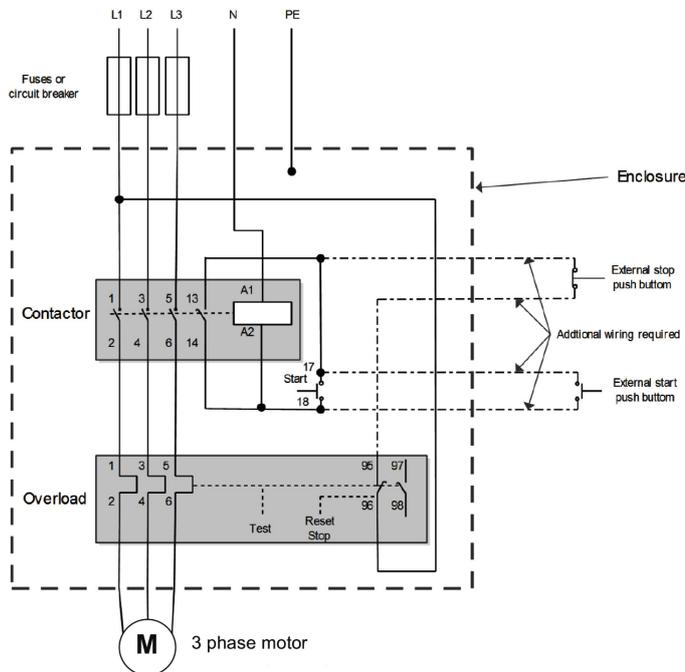


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(3) Wiring of DOL devices for 230V single phase with 230V coil



Wiring of additional start stop devices on DOL devices for 400V 3 phase with 230V coil

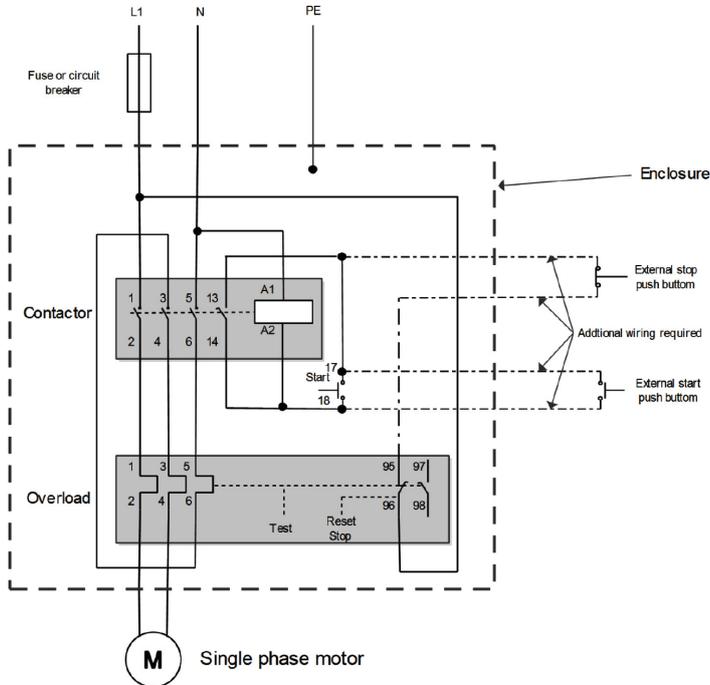


Additional start and stop stations can be wired to the DOL control circuit. In principle, the start buttons should be momentary normally open device and wired in parallel with terminals 17 & 18.

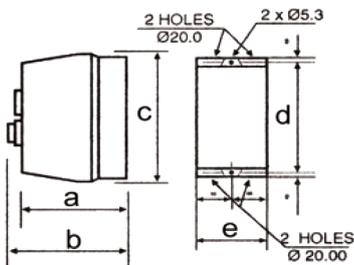
The wire between terminals 95 and 13 must be removed and the stop buttons must be wired in the circuit between terminals 95 & 13 in series with the internal stop contact 95-96

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Wiring of additional start stop devices on DOL devices for 230V single phase with 230V coil



DOL Dimensions



Dimension	Metal Clad 12A	Metal Clad 25A
a	116mm	135mm
b	128mm	147mm
c	214mm	252mm
d	134mm	162mm
e	123mm	156mm

Part Number Table

Description	Part Number
Direct On Line Motor Starter (IP54), 12A, 230V AC, 5.5kW	MCBE1-D123U7
Direct On Line Motor Starter (IP54), 25A, 230V AC, 11kW	MCBE1-D253U7
Direct On Line Motor Starter (IP54), 12A, 415V AC, 5.5kW	MCBE1-D123N7
Direct On Line Motor Starter (IP54), 25A, 415V AC, 11kW	MCBE1-D253N7

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