

This document must be retained for future reference.

It is the responsibility of the person installing the electrical equipment to ensure that the installation meets the requirements of the IET wiring regulations and is therefore 'fit for purpose'. Factors such as correct selection of components, cable sizing, protective devices and Earth bonding are all critical and should be checked prior to full testing and power-up. Any other regulations applicable to the equipment being installed such as the Machinery Directive and current health and safety legislation must also be adhered to.

All connections (including factory made) must be checked for the correct tightness prior to commissioning of the electrical installation. All connections should also be inspected periodically to ensure correct tightness.

**DO NOT USE POWER TOOLS ON THESE PRODUCTS**



The direct on line reversing starter is designed to switch three phase induction motors. The motor must be stationary before reversing the direction. The contactors are both electrically and mechanically interlocked to ensure independent operation. The thermal overload relay which must be fitted, is supplied as separate item. The full load current (FLC) of the motor rating plate must not exceed the rating of the reversing starter (Maximum 12A for 5.5kW and 25A for 11kW).

**NOTE: OVERLOAD RELAY TO BE ORDERED SEPARATELY**



## IP54 MS-DOLRS Reversing Starter Range 12A(5.5kW), 25A(11kW) with and without Isolator

Part Number	Max. Motor Size kW@415V	Current Rating AC-3	Coil Voltage	Power Terminal Capacity	Control Terminal Capacity	Isolator Terminal Capacity
MS-DOLRS5.5P7MC	5.5kW	12A	230V AC	4mm²	4mm²	-
MS-DOLRS5.5N7MC			415V AC			
MS-DOLRS11P7MC	11kW	25A	230V AC	6mm²		
MS-DOLRS11N7MC			415V AC			
MS-DOLRS5.5P7ISOMC	5.5kW	12A	230V AC	4mm²		10mm²
MS-DOLRS5.5N7ISOMC			415V AC			
MS-DOLRS11P7ISOMC	11kW	25A	230V AC	6mm²		
MS-DOLRS11N7ISOMC			415V AC			

Overload Part Number	Relay Range	Useable with 12A DOL	Useable with 25A DOL
TR2-D09301	0.1-0.16A	✓	✓
TR2-D09302	0.16-0.25A	✓	✓
TR2-D09303	0.25-0.4A	✓	✓
TR2-D09304	0.4-0.63A	✓	✓
TR2-D09305	0.63-1.0A	✓	✓
TR2-D09306	1.0-1.65A	✓	✓
TR2-D09307	1.6-2.5A	✓	✓
TR2-D09308	2.5-4.0A	✓	✓
TR2-D09310	4.0-6.0A	✓	✓
TR2-D09312	5.5-8.0A	✓	✓
TR2-D09314	7.0-10.0A	✓	✓
TR2-D12316	9.0-13.0A	✓	✓
TR2-D18321	12.0-18.0A	-	✓
TR2-D25322	17.0-25.0A	-	✓

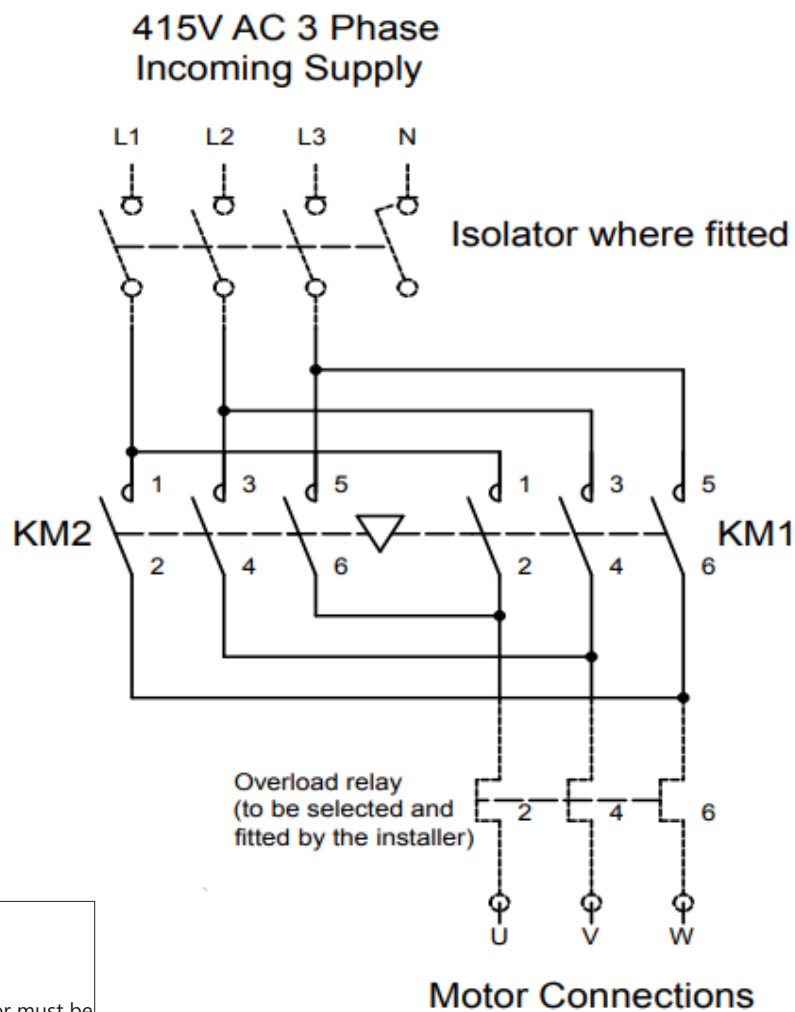
Move pins left or right to fit different contactors

**Note:** The copper pins of the overload relay need to be correctly positioned to suit the contactor that it is to be mounted to

Replacement Parts	Contactor	Coil	Auxiliary Contact Block	Mechanical Interlock	Isolator	Isolator Neutral Pole
MS-DOLRS5.5P7MC	TC1-D1801P7	TX1D2P7	TA1-DN20	LA9-D09978	-	-
MS-DOLRS5.5N7MC	TC1-D1801N7	TX1D2N7			-	-
MS-DOLRS11P7MC	TC1-D2501P7	TX1D4P7			-	-
MS-DOLRS11N7MC	TC1-D2501N7	TX1D4N7			-	-
MS-DOLRS5.5P7ISOMC	TC1-D1801P7	TX1D2P7			LBDI253P	LB263AUXEM
MS-DOLRS5.5N7ISOMC	TC1-D1801N7	TX1D2N7			-	
MS-DOLRS11P7ISOMC	TC1-D2501P7	TX1D4P7			LBDI323P	
MS-DOLRS11N7ISOMC	TC1-D2501N7	TX1D4N7			-	-

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### Wiring Diagram



#### Important

The starter, cabling and the motor must be protected against short circuit conditions by adequately rated fuses or circuit breakers.



#### Important

##### Not suitable for single phase motors

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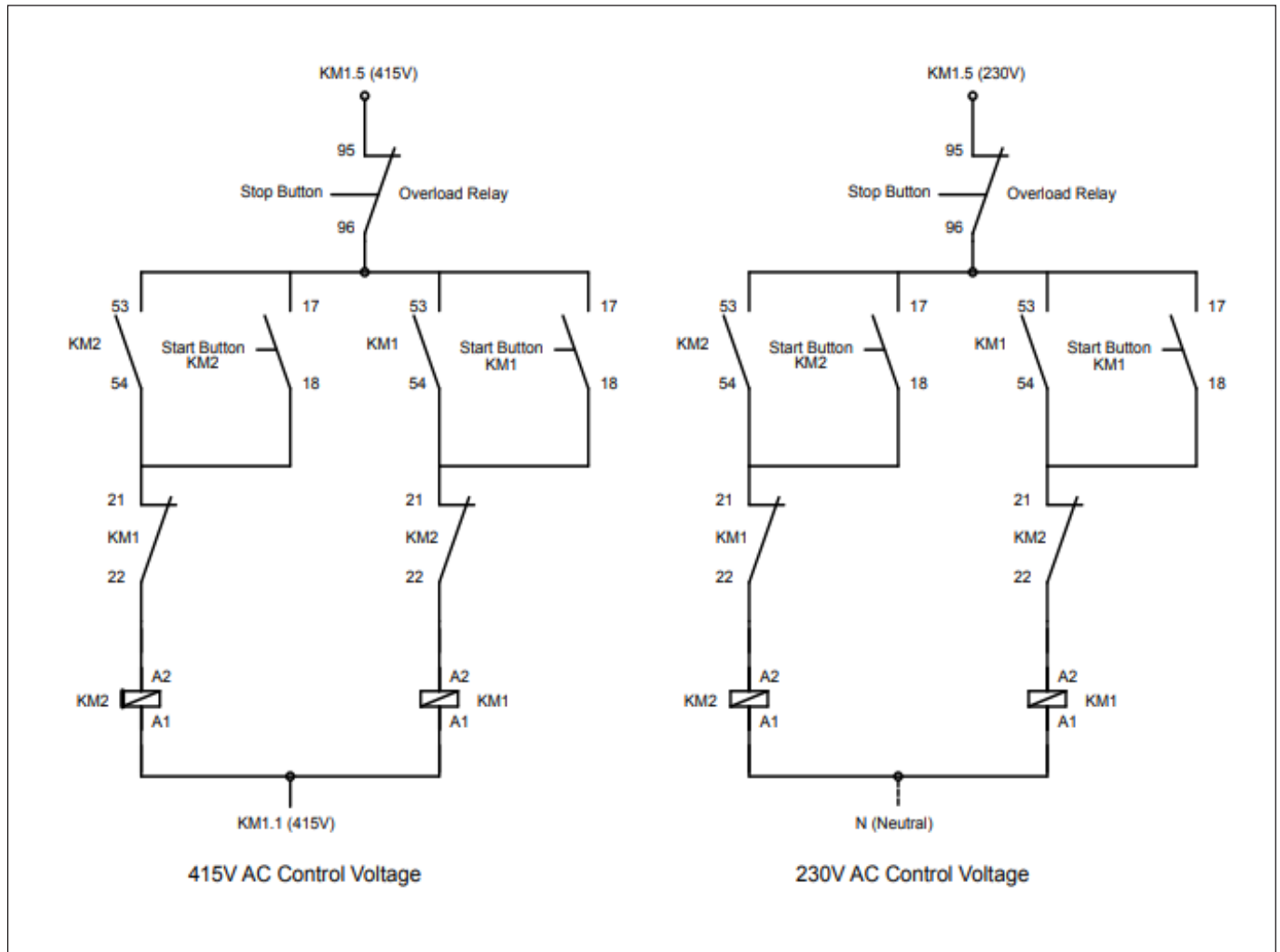
**Do not use power tools on these products**

#### Recommended Tightening Torque

	Power Terminals	Control Terminals
5.5kW	1.2Nm	1.2Nm
11kW	1.8Nm	
22kW	2.5Nm	
Isolator	1.7Nm	-

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### Wiring Diagram



### Remote Start/Stop Buttons

The two start buttons must be momentary with a normally open contact and are to be connected in parallel across terminals 17 & 18 on each contactor.

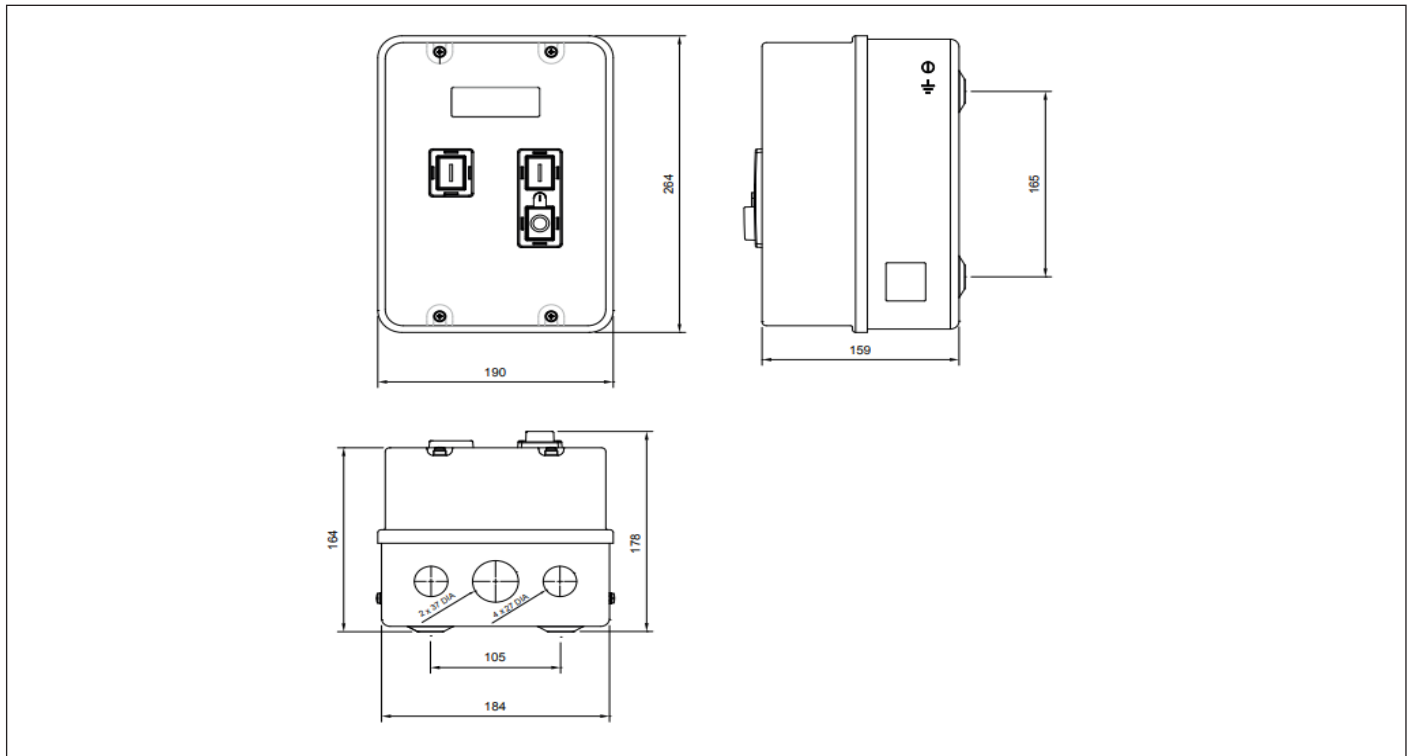
The stop button must be momentary with a normally closed contact. The cable between KM1.5 on the contactor and 95 on the thermal overload is to be removed. The stop button must be wire between KM1.5 and 95 in series with the internal stop button 95-96.

### Independant 415V AC Control Supply

The cable between KM1.5 and 95 on the thermal overload is to be removed. The 415V AC live supply is connected to 95 and the neutral connection to A1 on KM1.

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### Dimensions Without Isolator:



### Dimensions With Isolator:

