# **DOL Reversing Starters Type NLRVM\*\*\*C**

Metal Enclosure to IP55 IEC947-4-1 Issue 1 Installation Instructions



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Newlec REV Rev

#### Safety - Important.

All electrical equipment for operating on low voltages contain devices which are capable of causing serious or fatal injuries.

Only skilled & qualified personnel should carry out installation or maintenance work on this equipment and must adhere to all appropriate international, regional & local standards applicable.

#### Installation

1. Remove cover from starter by releasing the 4 captive lid screws with screwdriver.

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- 2. Check that the separately supplied Thermal Overload current range is suitable for the motor involved. Fit the overload and assemble the pre-wired Start Contact as shown below.
- 3. Connect the leads provided in the Starter to the Thermal Overload Violet wire from Contactor terminal 14 to Overload terminal 95 and Red wire from Contactor terminal 1 to Overload terminal 96.
- 4. Check the Contactor operating coil Voltage & Frequency is suitable for the intended supply and motor.
- 5. Remove appropriate top/bottom knockouts and mount the Starter base on a vertical surface, free from any vibrations.
- 6. Attach required conduits and/or cable glands.
- 7. Connect the supply and motor cables and ensure ALL terminals are tight.
- 8. Ensure that all Earth connections are fitted and tight, including the base to lid lead supplied as standard.
- 9. Once installed, adjust the Thermal Overload setting lever to match the Full Load Current of the motor to be protected.
- 10. Replace the cover, ensuring that the base mounted seal is in continuous contact with the lid and that the 4 off fixing screws are tight.

	Thermal Overload Selection Chart								
	Approximate Motor Rating						Current Ra	nge - Amps	Recommended Fuse
400V/3	400V/3PH AC-3		230V/1PH AC-3		Approx				
kW	hp	FLC Amps	kW	hp	FLC Amps	Reference	Min	Max	Amps Maximum
0.37	0.55	1.1	0.07	0.09	1	NLOLC1	1	1.6	4A
0.55	0.75	1.5	0.1	0.125	1.5	NLOLC1	1	1.6	<b>4</b> A
0.75	1	1.9	0.18	0.25	2.1	NLOLC2	1.6	2.5	6A
1.1	1.5	2.6	0.25	0.33	2.6	NLOLC3	2.5	4	10A
1.5	2	3.5	0.37	0.5	3.5	NLOLC3	2.5	4	10A
1.8	2.5	4.1	0.55	0.75	4.7	NLOLC4	4	6	16A
2.2	3	5	0.55	0.75	4.7	NLOLC4	4	6	16A
3	4	6.3	0.75	1	6	NLOLC5	5.5	8	20A
3.7	5	7.8	0.75	1	6	NLOLC5	5.5	8	20A
4	5.5	8.5	1.1	1.5	8.8	NLOLC6	7	10	20A
5.5	7.5	11.3	1.5	2	11.7	NLOLC7	10	13	25A
7.5	10	15.2	2.2	3	17.1	NLOLC8	13	18	32A

## Enclosure Dimensions : 184h x 184w x 149d (fixing centres 4 x M4 140w x 140h)

# Note: This product is not suitable for DC applications.

The start contact is clipped into position adjacent to terminal 96 on the overload relay.

ASSEMBLY: Locate contact on lower right hand corner of overload relay moulding and rotate anti clockwise until firmly clipped into place



REMOVAL: Place small screwdrier blade under leading edge of clip and lever off

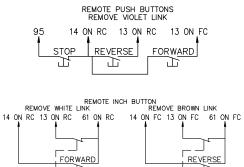
ASSEMBLY / REMOVAL OF START CONTACT



## **Terminal capacity**

	Main	Auxiliary
Contactor	2 x 1 - 4mm <sup>2</sup>	2 x 1 - 2.5mm²
Overload	2 x 1 - 4mm <sup>2</sup>	2 x 1 - 2.5mm <sup>2</sup>

# **Connection Data**



### Summary

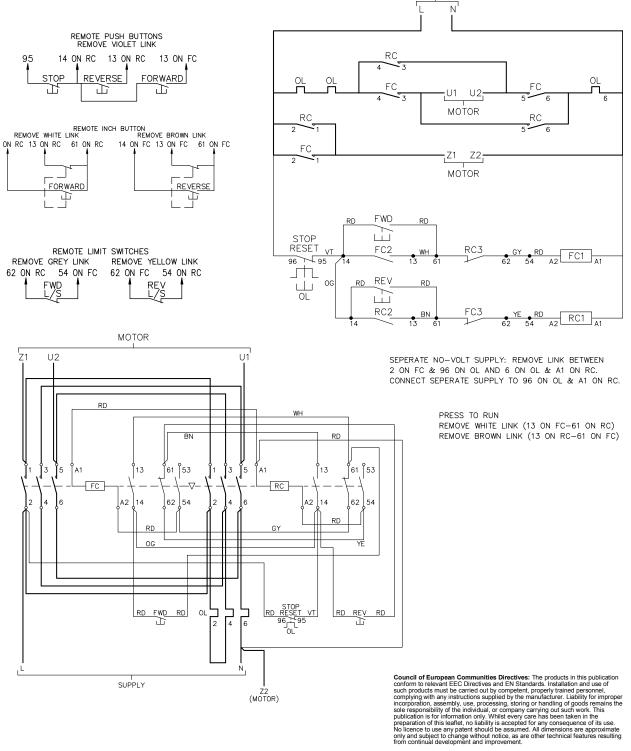
NOTE: FLC = Full load current

A direct-on-line motor starter with ingress protection to IP55. Painted steel enclosure.

Trip class 10 requirements IEC 947-4-1

SUPPLY

1.05 x FLC	No tripping		
1.2 x FLC	Trip within 2 hours		
1.5 x FLC	Trip within 4 minutes		
7.2 x FLC	Trip between 4s and 10s		



For further information please contact your local Rexel branch or Manufacturers Technical Helpline 01924 368251