



# MD100G Series, Low Voltage Variable Frequency Drive

**Quick Start Manual** 





A Regal Brand



www.regalaustralia.com.au

## **MD100G Quick Start Up Instructions**

This is for use by persons familiar with vfds and is intended to highlight details specfic to this model for the purpose of commissioning.

## Page 1 of 2

It is assumed personnel using this document are familiar with local code requirements for wire size & circuit protection,

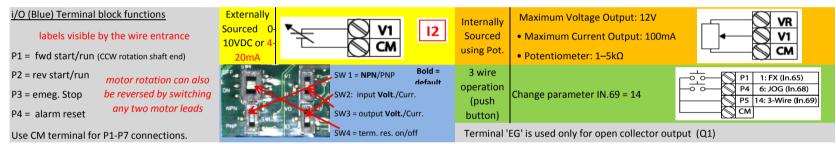
## Wiring

the dangers associated with high voltage, and are capable of safely mechanically mounting the VFD.

- 1 Motor FLA can never exceed VFD output rating. Check VFD nameplate to ensure compatibility. Confirm the line voltage is within the VFD input range.
- Mounting clearances: 4" above and 2" from the sides of the enclosure. VFD must be mounted vertically to ensure adequate cooling.

  For side by side installation remove top covers (n/a on 4KW and below) using flat blade screwdriver.
- Remove front cover (one bolt), and control circuit cover (both hinge at the top).

  Remove cable guide in the power section by pressing in both edges and pulling out at the same time (5.5 KW and above)
- 4 Identify motor connections U,V,W, and Connect motor leads at this time. Do not connect anything to P1, P2, or N(-).
- 5 Ground the inverter properly using the provided ground lugs. Do not daisy chain grounds. Never power a VFD that is undgrounded.
- 6 Control wiring is shown below for the most common dry contact start / analog speed refrence configurations.



- 7 With control wiring complete, connect de-engerized line side power cabling to R(L1), S(L2), T(L3). These terminals are located are on the lower left side.
- 8 Re-install cable guide, control circuit and power covers before energizing branch circuit protection feeding the VFD.

Double check at this time to ensure the ground circuit is firmly connected to both the inverter and earth ground.

Anytime after mains power is disconnected from VFD input terminals wait 10 minutes before removing any covers.

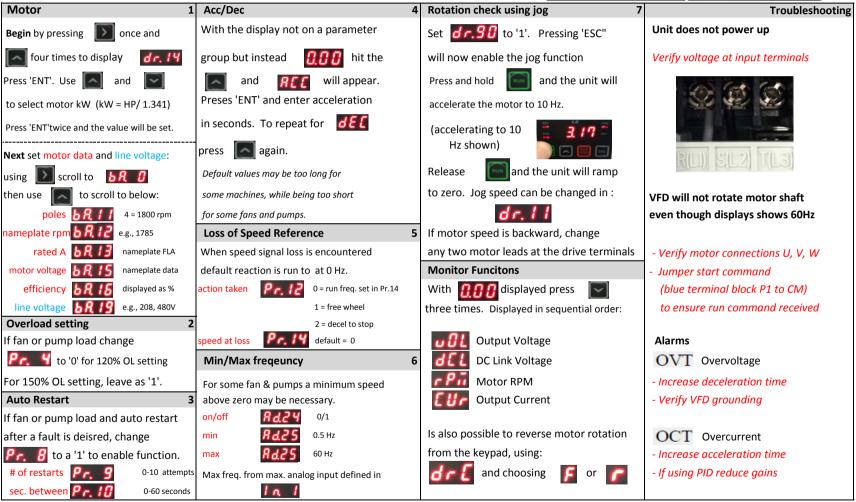
## **S100 Start Up Instructions**

Page 2 of 2
Parmeters

**Test Run** 

Failure to set the motor parameters correctly can cause permanent motor damage. Confirm shaft rotation before coupling load to motor to avoid equipment damage.

Up/Down
changes field value
Left/Right
scrolls to parameter group or
moves cursor when editing
ESC
return to 0.00 or cancel
parameter setting



## **HEAD OFFICE**

19 Corporate Ave / PO Box 2340 Rowville VIC 3178 AUSTRALIA

Tel: +61 (0)3 9237 4000 Fax:+61 (0)3 9237 4010

#### **AUSTRALIA**

National Sales 1300 888 853 Drives Technical Support 1800 724 149 www.regalaustralia.com.au www.regalbeloit.com

REGAL BELOIT AUSTRALIA Pty Ltd ABN 61 122 303 084

#### **VICTORIA**

MELBOURNE 19 Corporate Avenue Rowville VIC 3178 Tel: +61 (0)3 9237 4040 Fax:+61 (0)3 9237 4050

### **NEW SOUTH WALES**

SYDNEY 6-7 Bushells Place Wetherill Park NSW 2164 Tel: +61 (0)2 8781 3100 Fax:+61 (0)2 8781 3131

## **TASMANIA**

DEVONPORT 115 Don Road Devonport TAS 7310 Tel: +61 (0)3 6424 8574 Fax:+61 (0)3 6424 9393

#### **NEW ZEALAND**

CMG Electric Motors (NZ) Ltd 18 Jomac Place Avondale Auckland NEW ZEALAND Tel: +64 9820 3550 Fax: +64 9820 8504

#### **SINGAPORE**

CMG Electric Motors (Asia Pacific) Pte Ltd 12 Tuas Loop 637346 SINGAPORE Tel: +65 6863 3473

Fax: +65 6863 3476

## **QUEENSLAND**

BRISBANE 7 Mahogany Court Willawong QLD 4110 Tel: +61 (0)7 3246 3246 Fax:+61 (0)7 3246 3210

CAIRNS ("Service - Repairs - Sales") 2/159-161 Newell Street Bungalow QLD 4870 Tel: +61 (0)7 4033 1109 Fax:+61 (0)7 4033 5553

MACKAY Paget Mackay QLD 4740 Tel: +61 (0)7 4952 6244 Fax:+61 (0)7 4952 6277

#### **THAILAND**

FASCO Motors (Thailand) Limited 29/7-8 Bangkruay-Sainoi Road Bangkrang, Muang Nonthaburi District Nonthaburi 11000 THAILAND

Tel: +66 2447 3300 Fax: +66 2447 3500

#### **MALAYSIA**

Torin Industries SND BHD (MALAYSIA) No. 6536A Jalan Bukit Kemuning Batu 6 Seksyen 34 40470 Shah Alam Selangor

Tel: +60 3 51246157 Fax: +60 3 51211467

## **SOUTH AUSTRALIA**

ADELAIDE 47 Research Road Pooraka SA 5095 Tel: +61 (0)8 8359 1321 Fax: +61 (0)8 8359 5675

#### **WESTERN AUSTRALIA**

PERTH 21 Colin Jamieson Drive Welshpool WA 6106 Tel: +61 (0)8 6253 3700 Fax:+61 (0)8 6253 3710

© Regal Beloit Australia Pty Ltd
All information supplied in this publication is accurante at time of printing, Subject to change at any time without prior notice

