

DALMATIC V7E SR M100 INVERTER Door Controller 1X230V/3X230V -0,75KW SUPPLEMENTARY MANUAL



PRELIMINARY MANUAL!



It is important to follow this installation guide during the installation to insure correct installation.

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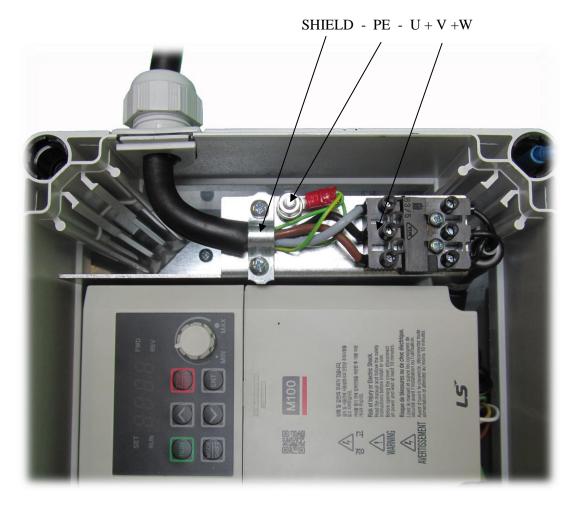




PRELIMINARY MANUAL!

Motor connections

Motor cable mounting in box:





Quick setup of inverter parameters

The inverter is prepared with some parameters already for your easy setup.

For normal setup only mains groups "Operation group" and "Basic functions group (Ba)" are used. For more information regards the display and keys and groups - see page 4-5.

Quick setup:

1	When mains and motor are connected – turn on	Inverter always power up in group – Operation.
	power and ensure that the inverter display light is on.	
2	Push – MODE – wanted group	If you can't select new group, you must go to OGr
		code in operation group and set this to "1".

	Inverter motor settings						
	Description	Adjustment group	Display symbol	Range	Factory set.		
3	Rated motor power	Operation	MkW 급받말	0.1 to 0.75 kW	0.4		
4	Rated motor current	Operation	MrC II-[0.1 – 150.0 A	2.6		
5	Rated motor frequency (max)	Operation	FrM Fai	40.0 – 400.0 Hz	100		
6	Rated motor voltage	Operation	loV 🗓 u	0, 170-264 V	230		
7	Number of motor poles	Basic function	BA.11	2 – 12 poles	4		
8	Rated motor slip frequency	Basic function	BA.12	0.0-10.0 Hz *	4.0		

fs = fr - (rated motor rpm x p/120) = 50 - (1380 x 4/120) = 4.0 Hzfr = rated motor frequency, fs = frequency slip (calculated), p = pole counts in motor.

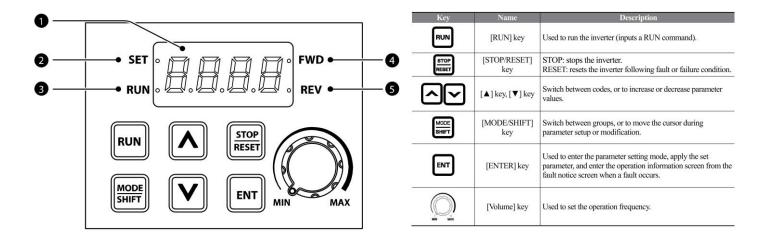
	Inverter settings OPEN direction					
	Description	Adjustment group	Display symbol	Range	Factory set.	
9	Freq. High OPEN	Operation	0.00	0.0 to Max(FrM) Hz	60	
10	Freq. Low OPEN	Basic function	BA.50	0.0 to Max(FrM) Hz	25	
11	Acc. Time OPEN	Operation	ACC	0.0 - 6000.0 Sec.	1.0	
12	Dec. Time High to Low, Opening	Basic function	BA.71	0.0 - 6000.0 Sec.	3.0	
13	Dec. Time to stop	Operation	dEC	0.0 - 6000.0 Sec.	0.3	
14	Low speed setp. before open limit	See door control settings below parameter 91 20%			20%	

	Inverter settings CLOSE direction					
	Description	Adjustment group	Display symbol	Range	Factory set.	
15	Freq. High CLOSE	Basic function	BA.51	0.0 to Max(FrM) Hz	50	
16	Freq. Low CLOSE	Basic function	BA.52	0.0 to Max(FrM) Hz	25	
17	Acc. Time CLOSE	Basic function	BA.72	0.0 - 6000.0 Sec.	1.0	
18	Dec. Time High to Low, closing	Basic function	BA.75	0.0 - 6000.0 Sec.	3.0	
19	Dec. Time to stop	Same as in OPEN direction 0.3			0.3	
20	Low speed setp. before close limit	See door control settings parameter 92 20%			20%	

Opening low s	speed set point parameter 91	Closing low speed set point parameter 92		
91:00 91:01 91:02 91:03	5% before open limit 10% before open limit 15% before open limit 20% before open limit	92:00 92:01 92:02 92:03	5% before close limit 10% before close limit 15% before close limit 20% before close limit	



		Additional settings - for reference only					
	Description	Adjustment group	Display symbol	Range	Factory set.		
Ī	Carrier freq.	Control function	Cn.04	1 to 15 kHz	6		
	Forward boost	Operation	FtB	0.0 – 20 %	10.0		



No.	Name	Function
0	7-Segment Display	Displays current operational status and parameter information.
0	SET Indicator	LED flashes during parameter configuration.
8	RUN Indicator	LED turns on (steady) during an operation, and flashes during acceleration or deceleration.
4 FWD Indicator		LED turns on (steady) during forward operation.
6	REV Indicator	LED turns on (steady) during reverse operation.

The table below lists the way that the keypad displays characters (letters and numbers).

Display	Number/ character	Display	Number/ character	Display	Number/ character	Display	Number/ character
O	0	R	A	Ä	K	Ц	U
1	1	Ь	В	L	L	ñ	V
2	2	[C	13	М) (-	W
3	3	d	D	c	N	٦	X
Ч	4	E	Е	0	0	4	Y
5	5	F	F	Þ	P	=	Z
5	6	<u>L</u>	G	9	Q	*	0 (bit)
7	7	H	Н	ŗ	R	\$	1 (bit)
8	8	1	I	5	S	-	-
9	9	1	J	Ŀ	Т	- 7	8 = 8



Group	Display	Description
Operation	-	Configures basic parameters for inverter operation.
Drive (Drive)	dr	Configures parameters for basic operations. These include jog operation, torque boost, and other parameters.
Basic (Basic)	ЬR	Configures basic parameters, including motor-related parameters and multi-step frequencies.
Advanced (Advanced)	Ad	Configure acceleration or deceleration patterns and to setup frequency limits.
Control (Control)	En	Configures functions such as carrier frequency or speed search.
Input Terminal (Input)	l n	Configures input terminal—related features, including digital multi—functional inputs and analog inputs.
Output Terminal (Output)	០ប	Configures output terminal—related features such as relays and analog outputs.
Communication (Communication)	Eñ	Configures communication features for RS-485 or other communication options. **Available only for models equipped with advanced I/O.
Application (Application)	AP	Configures PID control—related sequences and operations.
Protection (Protection)	Pr	Configures motor or inverter protection features.
Secondary Motor (2 nd Motor)	ñΖ	Configures secondary motor related features. **The secondary motor (M2) group appears on the keypad only when one of the multi-function input terminals (standard I/O model: In65-67, advanced I/O model: In65-69) has been set to 12 (Secondary motor).
Configuration (Configuration)	<u>E</u> F	Configures various features such as parameter setting,

SAFETY RELAY TURN OFF

Note: The control is lock for electrical driving, if the door is moved manual, when the control is powered. The display will then show "SER" in display.

This safety is made for a second motor turn off, in case of inverter failure.

Clearing this lock can be done in 2 ways:

- 1. Move the door away from door limits and make a new power-up.
- 2. Turn DIL switch no. 1 ON and OFF again.