

U.S.A.
SSD Drives Inc
 9225 Forsyth Park Drive
 Charlotte
 North Carolina 28273
 Tel: +1 (704) 588 3246
 Fax: +1 (704) 588 3249

CANADA
SSD Drives Inc
 880 Laurentian Drive
 Burlington
 Ontario L7N 3V6
 Tel: +1 (905) 333 7787
 Fax: +1 (905) 632 0107

CHINA
SSD Drives Ltd
 Room 1603, Hua Teng Edifice
 302# Jin Song San Qu
 Chaoyang District, Beijing 100021
 P.R. China

DENMARK
SSD Drives AB
 Enghavevej 11
 DK-7100
 Vejle
 Tel: +45 (0)70 201311
 Fax: +45 (0)70 201312

FRANCE
SSD DIRVES SAS
 15 Avenue de Norvège
 Villebon/Yvette
 91953 Courtaboeuf Cedex, Paris
 Tel: +33 1 (69) 185151
 Fax: +33 1 (69) 185159

GERMANY
SSD DRIVES GmbH
 Von-Humboldt-Strasse 10
 64646 Heppenheim
 Tel: +49 (6252) 798200
 Fax: +49 (6252) 798205

ITALY
SSD Drives SPA
 Via Gran Sasso 9
 20030 Lentate Sul Seveso
 Milano
 Tel: +39 (0362) 557308
 Fax: +39 (0362) 557312

SWEDEN
SSD DRIVES AB
 Montörögaten 7, SE 302 60
 Halmstad
 Tel: +46 (35) 177300
 Fax: +46 (35) 108407

UK
SSD Drives Ltd
 New Courtwick Lane
 Littlehampton
 West Sussex BN17 7RZ
 Tel: +44 (0)1903 737000
 Fax: +44 (0)1903 737100

Local availability and service support also in:

ARGENTINA • AUSTRALIA • AUSTRIA • BANGLADESH • BELGIUM • BRAZIL • CHILE • COLOMBIA • COSTA RICA • CROATIA
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Local Address



AC650 Inverter Series

AC INVERTERS 0.3 - 150HP



FANS ■ PUMPS ■ CONVEYORS ■ MATERIAL HANDLING
 CENTRIFUGES ■ TEXTILES ■ HVAC ■ MIXERS ■ HOISTS



www.SSDdrives.com

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650 Series AC Inverters

- Pre-programmed applications
- EMC filter option
- DIN rail mount up to 10Hp
- Sensorless vector
- Isolated thermistor input
- Selectable standard or heavy duty ratings
- 230V ratings to 75Hp
- 460V ratings to 150Hp

The 650 Series inverters have been specifically designed to provide simple, no-fuss speed control of standard three phase ac induction motors from 0.3 to 150Hp. They are positively crammed full of useful features including pre-programmed applications, integral EMC filters and options for local or remote mountable operator controls - all designed to simplify set-up, installation and operation.

With the 650 Series you are in control of your application immediately - no complicated set-up procedures, no confusing menu navigation; just quick and easy operation straight from the box.



EASY-TO-USE KEYPAD CONTROLS



The keypad control Module can be locally mounted (and removable for non-tamper security) or as an option remotely mounted.

POWER SUPPLY

Single phase units;
220-240Vac ± 10%, 50-60Hz ± 5%

Three phase units;
380-460Vac ± 10%, 50-60Hz ± 5%

AMBIENT
0-40°C (derate to 50°C)
Up to 1000m ASL (derate > 1000m)
IP20 protected

OVERLOAD
150% Heavy Duty ratings
115% Standard Duty "fan torque" ratings

OUTPUT FREQUENCY

0-240Hz

INPUTS/OUTPUTS

Analog Inputs

2; Speed Control.
0-10V, 0-10V/4-20mA (summing)

Analog Outputs

1; User configurable output frequency/load. 0-10V

Digital Inputs

2; User configurable start/stop/direction/pre-set speeds (8)

Digital Input/Outputs

2; User configurable as inputs or outputs

Digital Relay Outputs

1; Relay output 1A @ 240V

All digital outputs configurable for; at speed/at zero speed/running/healthy/tripped

Motor Thermistor Input

Power Supply Outputs

Digital I/O supply - 24V dc (50mA)
Analogue reference supply - 10V dc (10mA)

STANDARDS

The 650 Series meets European and North American standards when installed in accordance with the relevant product manual.



220-240V Single/Three-Phase Controllers

Type**	Heavy (Standard) Duty		Frame Size
	Power (Hp)	Current (A)	
650V/00F3/230/SNN*	0.3	1.5	1
650V/00F5/230/SNN*	0.5	2.2	1
650V/00F7/230/SNN*	0.75	3	1
650V/0001/230/SNN*	1	4	1
650V/0002/230/SNN*	2	7	2
650V/0003/230/SBN	3	9.6	3
650V/0005/230/SBN	5	16.4	3
650V/0007/230/1BN	7.5 (10)	22 (28)	C
650V/0010/230/1BN	10 (15)	28 (42)	C
650V/0015/230/1BN	15 (20)	42 (54)	D
650V/0020/230/1BN	20 (25)	54 (68)	D
650V/0025/230/1BN	25 (-)	68 (-)	D
650V/0030/230/1BN	30 (40)	80 (104)	E
650V/0040/230/CBN	40 (50)	104 (130)	F
650V/0050/230/CBN	50 (60)	130 (154)	F
650V/0060/230/CBN	60 (75)	154 (192)	F

* Single-phase supply only and no brake switch.
** (V) - Include the 'V' in the part number to select the sensorless vector option

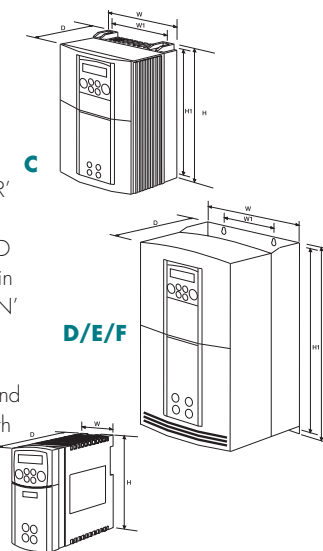
380-460V Three-Phase Controllers

Type**	Heavy (Standard) Duty		Frame Size
	Power (Hp)	Current (A)	
650V/00F5/460/SBN	0.5	1.5	2
650V/00F7/460/SBN	0.75	2	2
650V/0001/460/SBN	1	2.5	2
650V/0002/460/SBN	2	4.5	2
650V/0003/460/SBN	3	5.5	2
650V/0005/460/SBN	5	9	3
650V/0007/460/SBN	7.5	12	3
650V/0010/460/SBN	10	16	3
650V/0015/460/1BN	15 (20)	23 (27)	C
650V/0020C/460/1BN	20 (25)	27 (34)	C
650V/0025/460/1BN	25 (30)	38 (45)	D
650V/0030/460/1BN	30 (40)	45 (52)	D
650V/0040D/460/1BN	40 (50)	52 (65)	D
650V/0050/460/1BN	50 (60)	73 (87)	E
650V/0060/460/1BN	60 (75)	87 (105)	E
650V/0075/460/CBN	75 (100)	100 (125)	F
650V/0100/460/CBN	100 (125)	130 (156)	F
650V/0125/460/CBN	125 (150)	156 (180)	F
650V/0150/460/CBN	150 (-)	180 (-)	F

** (V) - Include the 'V' in the part number to select the sensorless vector option

Options

- Remote Mountable Keypad (Included in all 650V's) Replace the 'S' in the part number with an 'R' to select
- Brake Switch (for frames D & Larger) Replace the 'B' in the part number with an 'N' to remove
- Internal EMC Filter (for frames 1-3) Replace the end 'N' in the part number with an 'F' to add



DIMENSIONS

Frame Size	Size			Weight Kg/Lbs
	Height	Width	Depth	
1	143 (5.6)	73 (2.9)	142 (5.6)	0.85 (2)
2	201 (7.9)	73 (2.9)	173 (6.8)	1.4 (3.0)
3	260 (10.2)	96 (3.8)	200 (7.9)	2.7 (6.0)
C	348 (13.7)	201 (7.9)	208 (8.1)	9.3 (20)
D	453 (17.8)	252 (9.9)	245 (9.6)	17.4 (38)
E	668 (26.3)	257 (10.1)	312 (12.2)	32.5 (72)
F	720 (28.9)	257 (10.1)	355 (14.0)	41 (90.4)

All dimensions in millimeters (inches)

USER SELECTABLE PRE-PROGRAMMED APPLICATIONS

Simply select your relevant application and the drives inputs/outputs and parameter list is automatically configured for you.

- **BASIC SPEED CONTROL** - voltage or current source speed demand with digital start/stop and direction.
- **MANUAL/AUTO CONTROL** - switch between a local or remote speed demand signal.
- **PRESET SPEEDS** - select up to 8 pre-programmed speeds selected by digital inputs.
- **RAISE/LOWER** - increase and decrease speed from raise/lower digital inputs.
- **PID CONTROL** - control pressure, flow, temperature or other variable by monitoring transducer feedback.