

1600i/3200i KEY FEATURES

For DC motors up to 16 Amps

Fully isolated control electronics

On-board relay indicates zero speed and/or motor overload

Features Sprint Electric micro analog processor

Numerous inputs and outputs for complex system applications

PRODUCT NAME

1600i/3200i

Fully Isolated

1600i

2.2kw

3200i

2.2kw to 11.0kw

DESCRIPTION

Designed to give the customer the choice.

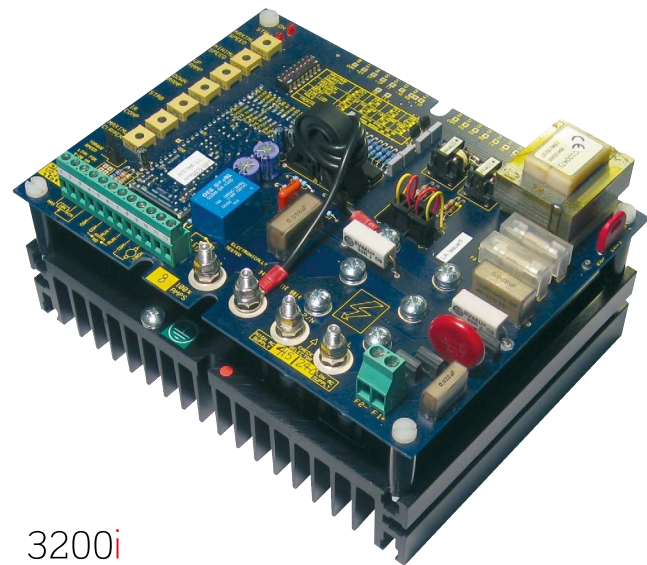
The 1600i includes an extensive specification with quality, value for money and reliability assured.

For even higher powers and AC supply voltages. The 3200i is available up to 48 Amps.

At a full 2.2kw output capability this compact design is easily integrated and provides unparalleled performance.



1600i



3200i

Extra 50% peak torque for rapid acceleration or shock loads

User adjustable:

- Acceleration
- Deceleration
- Max motor speed
- Min motor speed
- IR comp
- Stability
- Max motor current

Switch selectable power up inhibit

MODEL COMPARISON

MODEL	AC SUPPLY RANGE	TYPICAL ARMATURE VOLTAGE	MAX CONTINUOUS ARMATURE CURRENT	NOMINAL POWER
1600i	100 to 130v	90v	16A	1.1kw (1.5HP)
	200 to 264v	180v	16A	2.2kw (3HP)
3200i/8	200 to 264v	180v	8A	1.1kw (1.5HP)
	360 to 440v	320v	8A	2.2kw (3HP)
3200i/16	200 to 264v	180v	16A	2.2kw (3HP)
	360 to 440v	320v	16A	4.0kw (5.3HP)
3200i/32	200 to 264v	180v	32A	4.5kw (6.0HP)
	360 to 440v	320v	32A	7.5kw (10.0HP)
3200i/48	200 to 264v	180v	48A	7.0kw (10.0HP)
	360 to 440v	320v	48A	11.0kw (14.6HP)

DIMENSIONS 1600i

H 150 mm

W 150 mm

D 90 mm

3200i

H 150 mm

W 200 mm

D 110 mm

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SPECIFICATION

Control action: Dual loop Proportional + Integral

Speed regulation: 0.1% Tachogenerator
2% Armature voltage feedback

Armature: 1600i, 16 Amps continuous
3200i, 32 Amps at 0.9 x AC supply voltage

Overload protection: Extra 50% peak torque for 30 secs prior to stall trip operation

Field output: 1 Amp at 0.9 x AC supply voltage

Customer presets: Max speed: 25v - 400v full scale feedback
Min speed 0 to 30% of max speed
Up ramp (Acceleration) 1-30 secs
Down ramp (Deceleration) 1-30 secs
Stability
IR comp
Max armature current 0-100%

Switches: Maximum current - 4 ranges
Feedback voltage - 4 ranges
Relay function - zero speed and/or stall
Power-up Inhibit
Tach/AVF selection

Inputs: Speed
Torque
4-20mA and 0-20mA
Auxiliary speed inputs +ve and -ve
Drive Run
Tachogenerator
Pushbutton stop/start

Outputs: Speed
Current
Setpoint Ramp
Total Demand
Zero speed and stall relay driver
+/-12v, +/- 24v rails

Relay: Volt free change over contacts for zero speed and/or stall

Other features: Overspeed limit
Over torque limit
Inverse time overload
50% stall threshold
Phase angle clamp
Precision Reference

Switch selectable feedback calibration - no component changes

Switched maximum current ranges for easy matching to motor current rating

Switch selectable drive relay functions

Ultra stable potentiometer reference for optimum long term speed and torque stability

Adjustable Stability control for optimum motor response

Switch selectable Tach or armature voltage feedback

Torque control input for basic winding or tension control, with overspeed limiting

International dual voltage supply compatibility

4-20mA and 0-20mA loop input option as standard

Output signals for easy display of motor speed and load

Compact size, saves panel space and makes for easy retrofitting

Zero reference interlock facility

Single Quadrant operation

Adjustable IR compensation for improved AVF speed regulation

Precision tach rectifier