

## 3600XRi KEY FEATURES

**Four Quadrant forward, reverse and braking operation**

**Five current outputs**  
- 4 Amp  
- 8 Amp  
- 16 Amp  
- 32 Amp  
- 36 Amp

**Extra 50% peak torque for rapid acceleration or shock load**

**Fully regenerative - no braking energy dissipated as waste heat**

**Isolated control electronics for easy connection to other drives/equipment**

**Extremely compact size, saves panel space and makes for easy retrofitting**

**User adjustable presets for:**  
- Forward acceleration  
- Reverse acceleration  
- Forward deceleration  
- Reverse deceleration  
- Max motor speed  
- Min motor speed  
- Motor current limit  
- Brake current limit  
- Forward current limit  
- Reverse current limit  
- Positive current limit  
- Negative current limit  
- IR comp  
- Stability

**4Q torque input**

**2Q torque input**

**Regen to zero input**

PRODUCT NAME

# 3600XRi

Fully Isolated

0.55kw to 9.5kw

DESCRIPTION

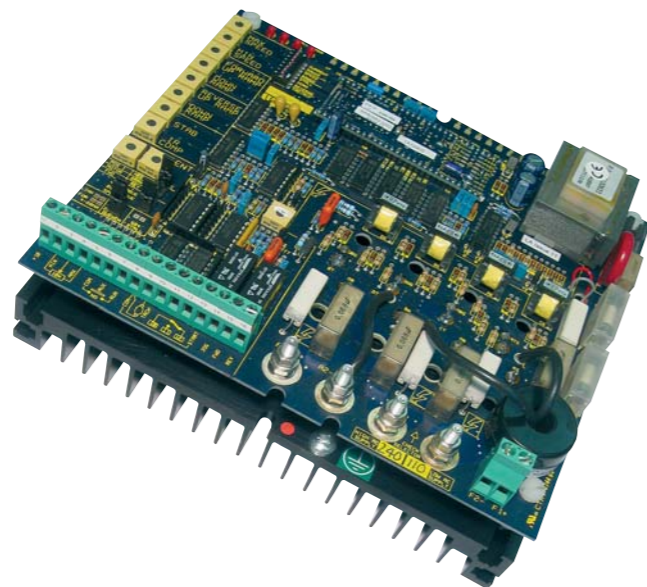
A four quadrant regenerative drive providing motoring and braking in both directions of rotation.

The regenerative ability is fully rated on a continuous basis with braking energy efficiently returned to the AC supply.

This feature sets the 3600XRi apart from AC inverter or vector drives where wasted energy is dissipated in costly resistor banks.

The 3600XRi is designed to meet the most demanding of process line applications where both loads and speeds vary in each direction.

Quality and reliability are assured by the use of advanced manufacturing and testing technologies.



MODEL COMPARISON

MODEL	AC SUPPLY RANGE	TYPICAL ARMATURE VOLTAGE	MAX CONTINUOUS ARMATURE CURRENT	NOMINAL POWER
3600XRi/4/LN	100 to 130v 200 to 264v	90v 180v	4A	0.25kw (0.4HP) 0.55kw (0.75HP)
3600XRi/8/LN			8A	0.55kw (0.75HP) 1.1kw (1.5HP)
3600XRi/16/LN			16A	1.1kw (1.5HP) 2.2kw (3.0HP)
3600XRi/16/LL	200 to 264v 360 to 440v	180v 320v	16A	2.2kw (3.0HP) 4.0kw (5.3HP)
3600XRi/32/LL			32A	5.0kw (6.6HP) 7.5kw (10HP)
3600XRi/36/LL			36A	5.5kw (7HP) 9.5kw (12.6HP)

DIMENSIONS

H	175 mm
W	200 mm
D	70 mm 36 Amp model 90 mm

See parts list at back for low voltage supply options and fuses.

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SPECIFICATION

Control action:	Dual loop Proportional and Integral
Speed regulation:	0.1% Tachogenerator 2% Armature voltage feedback
Armature:	Six models: 4, 8, 16, 32 and 36 Amps continuous
Overload protection:	Extra 50% peak torque for 30 secs prior to stall trip operation
Field output:	2 Amps 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 Independent up/down ramp adjustment for forward and reverse direction Stability IR comp Multi option current limit
Switches:	Maximum current - 4 ranges Feedback voltage - 4 ranges Relay function - zero speed and/or stall and/or overload Tach/AVF selection
Inputs:	Speed 2Q/4Q Torque Auxiliary speed inputs +ve and -ve 4-20mA and 0-20mA Drive run Tachogenerator Fast quench Pushbutton stop/start, fwd/rev Regen to zero Jog Direct speed
Outputs:	Speed Current (bipolar & rectified) Setpoint Ramp Total Demand Zero speed and stall relay driver Overload timer relay driver +/-12v, +/- 24v rails
Relay:	Volt free change over contacts for zero speed or stall
Other features:	Overspeed limit Over torque limit Inverse time overload 50% stall threshold Precision Reference Dual setpoint

Refer to features chart for further details or download product manual for full specification.

## 3600XRi KEY FEATURES

**Features Sprint Electric micro analog processor**

**Direct pushbutton inputs for control of stop/start, direction and jog functions**

**Includes all the features of 1600i and 3200i**

**Relay output indicates motor shaft reversal**

**Relay output indicates motor load > 105%**

**Dual setpoint facility for alternate speed e.g. run and crawl toggled speed reference ideal for easy end of travel reversal**

**Switch selectable Tach or Armature voltage feedback**

**Switched maximum current ranges for easy matching to motor current rating**

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

**International dual voltage supply compatibility**

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