

World class in design | World beating in function | Over 30 years of industrial motor control

DC MOTOR CONTROL TECHNOLOGY PRODUCT CATALOGUE

SINGLE PHASE DC DRIVES



Sprint Electric, based in England, was formed in 1987 to design and manufacture industrial motor drives. It has specialised in DC drive technology and has been successful in penetrating global markets. This success has been achieved using well trained distributors and direct sales, offering rapid delivery and prompt technical support. Outlets have been established in a wide spread of overseas markets, creating a loyal and varied customer base.

In 2009 Sprint Electric was very proud to become one of an elite group of companies to win a Queen's Award for Enterprise, the most prestigious business award in the UK. The award was made for continuous achievement in International Trade. Winning this award puts Sprint Electric among the most successful of UK businesses.

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DC Motor Control Technology:

Increase your productivity, save energy and reduce downtime.

With an extensive range of DC motor control products, you will find an answer to your industrial automation questions.

Your Industry - Our Experience.

We've used our renowned industrial automation experience to design a range of DC motor controllers which provide you with solutions to the most demanding motor control applications.

It's now easier than ever to design new DC motor control systems or improve the performance of an existing application by retrofitting with the latest DC technology.

Save with Compact Designs and Ex-Stock Delivery.

You can save cabinet space in new control systems, or easily upgrade an existing DC motor application. Compact design comes as standard.

Reduce your downtime by relying on our ex-stock delivery. With a global network of partners and all products built for stock, you can quickly get your business moving again.

Three Phase Products.

We also manufacture three phase DC motor controllers. Please see our Three Phase Product Catalogue for details.

DIN RAIL MOUNTING OPTIONS

340
680
1220

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340i
680i
1220i

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340XRi
680XRi
1220XRi

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PRODUCT NAME

340

340 0.55kW / 0.75HP
680 0.75kW / 1.0HP
1220 1.8kW / 2.0HP

AT A GLANCE
340, 680, 1220 series

DESCRIPTION

Ultra compact DC motor control. Non isolated.

Make upgrading your existing control panel easier. Save space in new DC single direction motor control systems. The ultra compact DIN rail mounting package lets you install quickly.

Three options are available for controlling DC motors up to 12.2 Amps. You can use this versatile range of non-isolated controllers for

permanent magnet, shunt wound motors or universal motors.

To make your installation quick and simple, all 340, 680, and 1220 series controllers have easy to access drive adjustments, plug-on screw terminals and a small footprint from just 35mm x 105mm.



340 controller for DC motors rated up to 3.4 Amps (0.55KW/0.75HP)

680 controller for DC motors rated up to 6.8 Amps (0.75KW/1HP)

1220 controller for DC motors rated up to 12.2 Amps (1.8KW/2HP)

DIN rail mounting

Easy to access drive adjustments

Plug-on screw terminals

Small footprint

Technical highlights:

Switch selectable Tach or Armature voltage feedback

Adjustable IR compensation for improved AVF speed regulation

Selectable dual voltage AC supply

Aux speed trim input available in AVF mode

User adjustable:

Ramp

Max motor speed

Min motor speed

IR comp

Max motor current

MODEL COMPARISON

| MODEL | AC SUPPLY RANGE | TYPICAL ARMATURE VOLTAGE | MAX CONTINUOUS ARMATURE CURRENT | NOMINAL POWER |
|-------|-----------------|--------------------------|---------------------------------|-----------------|
| 340 | 100 to 130v | 90v | 3.4A | 0.25kW (0.35HP) |
| | 200 to 264v | 180v | 3.4A | 0.55kW (0.75HP) |
| 680 | 100 to 130v | 90v | 6.8A | 0.55kW (0.75HP) |
| | 200 to 264v | 180v | 6.8A | 0.75kW (1.0HP) |
| 1220 | 100 to 130v | 90v | 12.2A | 0.75kW (1.0HP) |
| | 200 to 264v | 180v | 12.2A | 1.8kW (2.0HP) |

DIMENSIONS 340

| | |
|-------------------|--------|
| H | 105 mm |
| W | 35 mm |
| D | 120 mm |
| 680 / 1220 | |
| H | 105 mm |
| W | 45 mm |
| D | 120 mm |

See parts list at back for low voltage supply options and fuses.
Refer to features chart for further details or download product manual for full specification.

AT A GLANCE

340i, 680i, 1220i series

Fully isolated control electronics

340i controller for DC motors rated up to 3.4 Amps (0.55KW/0.75HP)

680i controller for DC motors rated up to 6.8 Amps (0.75KW/1HP)

1220i controller for DC motors rated up to 12.2 Amps (1.8KW/2HP)

DIN rail mounting

Easy to access drive adjustments

Plug-on screw terminals

Small footprint

UL, CuL, CE approved

PRODUCT NAME

340i

340i 0.55kW / 0.75HP

680i 0.75kW / 1.0HP

1220i 1.8kW / 2.0HP

DESCRIPTION

Fully isolated DC motor control with compact design

Improving or upgrading your single direction DC motor control system is easier with this series of fully-isolated controllers. The ultra compact DIN rail mounting package lets you quickly integrate the 340i, 680i and 1220i series with your existing motor control equipment.

Three options are available for controlling DC motors up to 12.2 Amps. You can use this

versatile series of fully-isolated controllers for permanent magnet or shunt wound motors.

To make your installation quick and simple, all 340i, 680i and 1220i series controllers have easy to access drive adjustments, plug-on screw terminals and a small footprint from just 60mm x 105mm.



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

340i

340i 0.55kW / 0.75HP

680i 0.75kW / 1.0HP

1220i 1.8kW / 2.0HP

Technical highlights:

340i, 680i, 1220i series

Switch selectable Tach or Armature voltage feedback

Adjustable IR compensation for improved AVF

Speed or torque control

Selectable dual voltage AC supply

Aux speed input

150% overload with stall protection

User adjustable:

Max motor speed

Min motor speed

Up ramp

Down ramp

Stability

Imax

IR comp

AVF/Tach switch

Speed range switch

AC voltage selector

Signal level comparator

Signal terminals:

+10V ref

Min speed

Ramped input +

Output +/-

Common

Input +/-

Pushbutton +

Pushbutton -

Run input

Common

Tach input

Level output

Level input

Overload output

Trip output

Ramp output

Demand output

Speed output

Current output

Speed input

Torque input

MODEL COMPARISON

| MODEL | AC SUPPLY RANGE | TYPICAL ARMATURE VOLTAGE | MAX CONTINUOUS ARMATURE CURRENT | NOMINAL POWER |
|-------|-----------------|--------------------------|---------------------------------|-----------------|
| 340i | 100 to 130v | 90v | 3.4A | 0.25kW (0.35HP) |
| | 200 to 264v | 180v | 3.4A | 0.55kW (0.75HP) |
| 680i | 100 to 130v | 90v | 6.8A | 0.55kW (0.75HP) |
| | 200 to 264v | 180v | 6.8A | 0.75kW (1.0HP) |
| 1220i | 100 to 130v | 90v | 12.2A | 0.75kW (1.0HP) |
| | 200 to 264v | 180v | 12.2A | 1.8kW (2.0HP) |

DIMENSIONS 340i

| | |
|----------|--------|
| H | 105 mm |
| W | 60 mm |
| D | 120 mm |

680i / 1220i

| | |
|----------|--------|
| H | 105 mm |
| W | 70 mm |
| D | 120 mm |

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

AT A GLANCE

340XRi, 680XRi,
1220XRi series

**4 Quadrant regenerative
DC motor controller**

**Fully isolated control
electronics**

**340XRi controller for DC
motors rated up to 3.4 Amps
(0.55KW/0.75HP)**

**680XRi controller for DC
motors rated up to 6.8 Amps
(0.75KW/1HP)**

**1220XRi controller for DC
motors rated up to 12.2 Amps
(1.8KW/2HP)**

DIN rail mounting

**Easy to access drive
adjustments**

Plug-on screw terminals

Small footprint

UL, CuL, CE approved

PRODUCT NAME

340XRi

340XRi 0.55kW / 0.75HP

680XRi 0.75kW / 1.0HP

1220XRi 1.8kW / 2.0HP

DESCRIPTION

Regenerative DC motor control with compact Design. Fully isolated control electronics.

This 4 Quadrant regenerative DC motor controller gives a fast controlled response over the full forward/reverse speed range for motoring and braking.

Improve your energy efficiency by regenerating energy into the mains supply whilst under braking. The energy invested accelerating the load mass is recovered when braking. There is no dissipation of energy in wasteful braking resistors.

The compact DIN rail mounting package uses less panel space so you can save space as well as energy.

Three options are available for controlling DC motors up to 12.2 Amps. You can use this versatile series of fully-isolated controllers for permanent magnet or shunt wound motors.

To make your installation quick and simple, all 340XRi, 680XRi and 1220XRi series controllers have easy to access drive adjustments, plug-on screw terminals and a small footprint from just 60mm x 105mm.



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

340XRi

340XRi 0.55kW / 0.75HP

680XRi 0.75kW / 1.0HP

1220XRi 1.8kW / 2.0HP

Technical highlights:

Switch selectable Tach or Armature voltage feedback
Adjustable IR compensation for improved AVF
Speed or torque control
Selectable dual voltage AC supply
Aux speed input
Pushbutton reversing function
150% overload with stall protection
Built-in current limit protection
Full 4 Quadrant operation

User adjustable:

Max motor speed
Min motor speed
Up ramp
Down ramp
Stability
Imax
IR comp
AVF/Tach switch
Speed range switch
AC voltage selector
Signal level comparator

Signal terminals:

| | |
|----------------|-----------------|
| +10V ref | Level output |
| Min speed | Level input |
| Ramped input + | Overload output |
| Output +/- | Trip output |
| Common | Ramp output |
| Input +/- | Demand output |
| Pushbutton + | Speed output |
| Pushbutton - | Current output |
| Run input | + Speed input |
| Common | Torque input |
| Tach input | |

MODEL COMPARISON

| MODEL | AC SUPPLY RANGE | TYPICAL ARMATURE VOLTAGE | MAX CONTINUOUS ARMATURE CURRENT | NOMINAL POWER |
|---------|-----------------|--------------------------|---------------------------------|-----------------|
| 340XRi | 100 to 130v | 90v | 3.4A | 0.25kW (0.35HP) |
| | 200 to 264v | 180v | 3.4A | 0.55kW (0.75HP) |
| 680XRi | 100 to 130v | 90v | 6.8A | 0.55kW (0.75HP) |
| | 200 to 264v | 180v | 6.8A | 0.75kW (1.0HP) |
| 1220XRi | 100 to 130v | 90v | 12.2A | 0.75kW (1.0HP) |
| | 200 to 264v | 180v | 12.2A | 1.8kW (2.0HP) |

DIMENSIONS 340XRi

| | |
|----------|--------|
| H | 105 mm |
| W | 60 mm |
| D | 120 mm |

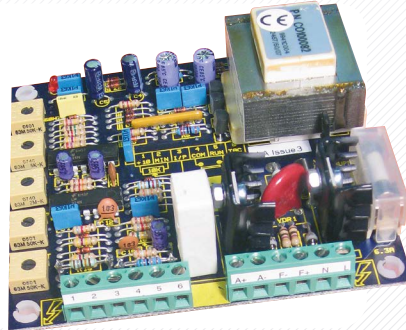
680XRi / 1220XRi

| | |
|----------|--------|
| H | 105 mm |
| W | 70 mm |
| D | 120 mm |

PANEL MOUNTING OPTIONS

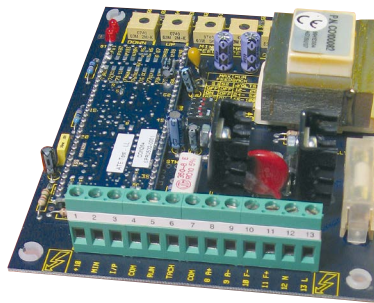
370

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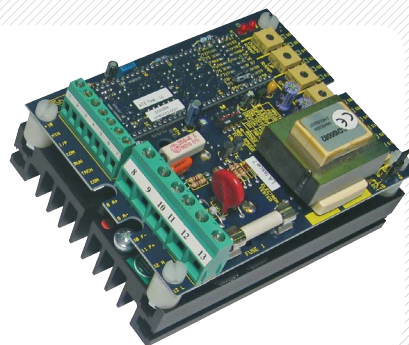
400
400i

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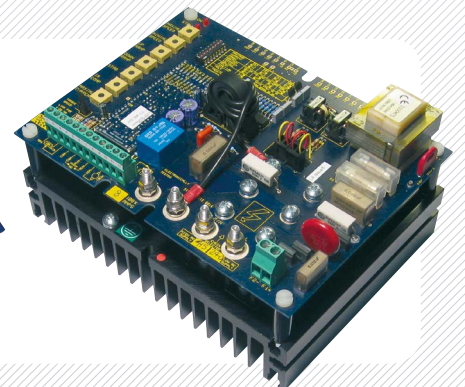
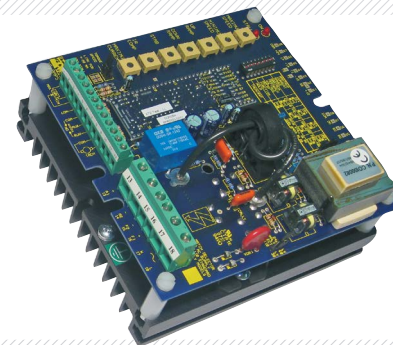
800
1200

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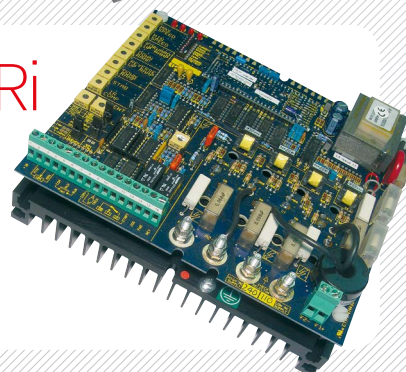
1600i
3200i

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3600XRi

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PRODUCT NAME

370

Non Isolated

0.55kW / 0.75HP

370 KEY FEATURES

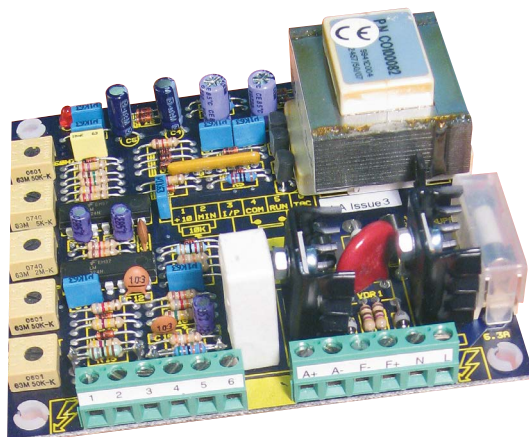
DESCRIPTION

Small footprint speed controller for permanent magnet or shunt wound motors up to 0.55kW.

Easily adjustable parameters include minimum and maximum motor speed, armature current, acceleration rate and IR compensation.

AC supply input selection for international mains voltage compatibility.

This unit is non-isolated.



For DC motors rated up to 3.7 Amps

Integral AC supply fuse

Selectable dual international voltage supply 110/240v AC 50/60Hz

Adjustable current overload protection

Tachogenerator or armature voltage speed feedback

Adjustable acceleration rate between 1 and 20 seconds

Remote stop/start signal input facility

Adjustable IR compensation for improved AVF speed regulation

Sophisticated dual loop control

Infinitely variable speed adjustment via remote potentiometer

Electronic soft start

Drive run input

Suitable for permanent magnet, shunt wound or universal motors

Compact footprint

SPECIFICATION

| | |
|-------------------|---|
| Speed range: | 0 - 100% |
| Speed regulator: | 0.1% tachogenerator 2% armature voltage feedback |
| Armature: | 3.7 Amps continuous 200v max |
| Field: | 0.5 Amps at 0.9 x AC supply voltage |
| Speed loop: | Full P + I armature voltage feedback |
| Current loop: | Full P + I current shunt feedback |
| Customer presets: | Max speed, min speed, up ramp, max armature current, IR comp. Adjustment non interactive ensuring ease of adjustment. |

MODEL COMPARISON

| MODEL | AC SUPPLY RANGE | TYPICAL ARMATURE VOLTAGE | MAX CONTINUOUS ARMATURE CURRENT | NOMINAL POWER |
|-------|-----------------|--------------------------|---------------------------------|-----------------|
| 370 | 90 to 120v | 90v | 3.7A | 0.25kW (0.38HP) |
| | 200 to 264v | 180v | 3.7A | 0.55kW (0.75HP) |

DIMENSIONS

| | |
|---|--------|
| H | 100 mm |
| W | 100 mm |
| D | 42 mm |

See parts list at back for low voltage supply options and fuses.
Refer to features chart for further details or download product manual for full specification.

400/400i KEY FEATURES

For DC motors rated
up to 4 Amps

Single Quadrant operation

Extra 50% peak torque
for rapid acceleration or
shock loads

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

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

Compact size

PRODUCT NAME

400

Non Isolated

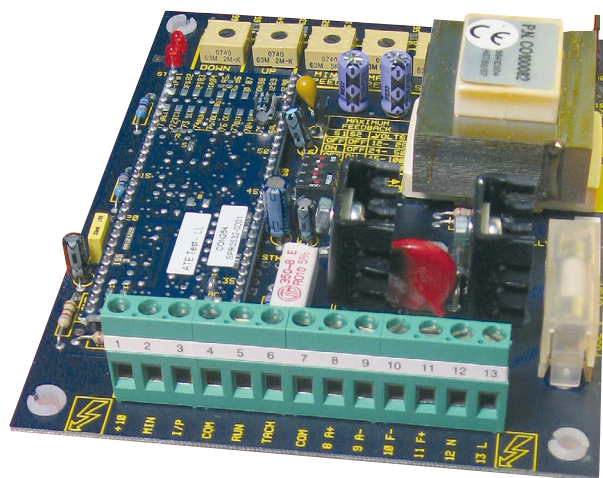
0.55kW / 0.75HP

DESCRIPTION 400 / 400i

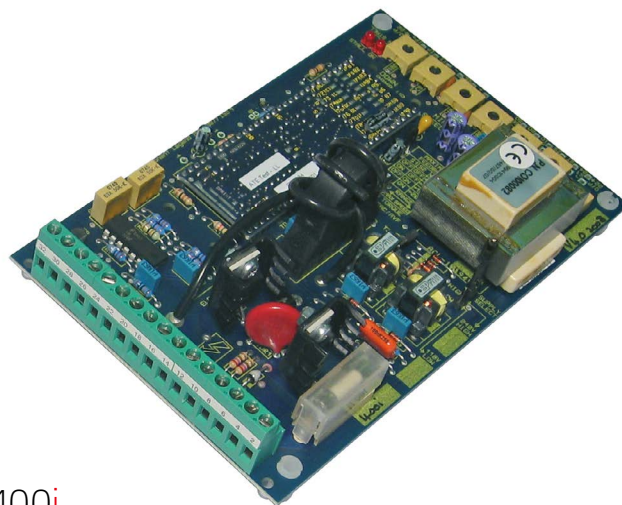
For motors rated up to 4 Amps these are the first
of an extensive range of models featuring the
Sprint micro analog processor.

The micro analog processor provides many
user benefits normally only seen in expensive
"high end" products. This philosophy
allows for cost saving solutions by
meeting the users exact requirements
and enhancing process performance.

As with all Sprint Electric products quality
and reliability is a paramount part of the
design process.



400



400i

International dual
voltage supply compatibility

Switch selectable Tach or
Armature voltage feedback

Integral AC supply fuse

MODEL COMPARISON

| MODEL | AC SUPPLY RANGE | TYPICAL ARMATURE VOLTAGE | MAX CONTINUOUS ARMATURE CURRENT | NOMINAL POWER |
|-------|-----------------|--------------------------|---------------------------------|-----------------|
| 400 | 100 to 130v | 90v | 4A | 0.25kW (0.38HP) |
| | 200 to 264v | 180v | 4A | 0.55kW (0.75HP) |
| 400i | 100 to 130v | 90v | 4A | 0.25kW (0.38HP) |
| | 200 to 264v | 180v | 4A | 0.55kW (0.75HP) |

DIMENSIONS 400

H 130 mm

W 100 mm

D 40 mm

400i

H 160 mm

W 100 mm

D 50 mm

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

400i

Fully Isolated

0.55kW / 0.75HP

400/400i KEY FEATURES

SPECIFICATION 400 / 400i

| | |
|----------------------|--|
| Control action: | Dual Loop Proportional + Integral |
| Speed regulation: | 0.1% Tachogenerator, 2% Armature Voltage |
| Armature: | 4 Amps, continuous 200v max |
| Overload protection: | Extra 50% peak torque for 30 secs prior to stall trip operation |
| Field output: | 0.5 Amps at 0.9 x AC supply voltage |
| Customer presets: | Max speed: 12v-200v full scale feedback Min speed 0-30% of max speed Up ramp (Acceleration) 1-30 secs Down ramp (Deceleration) 1-30 secs Stability IR comp Max Armature current 0-100% |
| Switches: | Feedback voltage - 4 ranges Torque or speed mode Tachogenerator or armature voltage feedback |
| Inputs: | Speed Torque Auxiliary speed input Auxiliary inverted speed input for trims etc. Run command Tachogenerator 4-20mA or 0-20mA Pushbutton stop/start input |
| Outputs: | Speed Current Setpoint ramp Total demand +/- 12v/-24v rails Zero Speed relay driver Stall relay driver |
| 400 | NON ISOLATED control electronics for single shaft applications |
| 400i | FULLY ISOLATED control electronics allows interfacing with other systems |

Output signals for easy display of motor speed and load

Switch selectable feedback calibration - no component changes

Precision tach rectifier

Zero speed signal output

Motor overload output

Remote stop/start input

User adjustable:

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

Adjustable IR compensation for improved AVF speed regulation

Adjustable stability control for optimum motor response

Easily interfaced with armature reversing module

800/1200 KEY FEATURES

**800 controller for DC motors
rated up to 8 Amps**

**1200 controller for DC motors
rated up to 12 Amps**

**International dual
voltage supply compatibility**

Single Quadrant operation

**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

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

**Many additional input
and output signals**

**Switch selectable Tach
or armature voltage feedback**

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

**Easily interfaced with
armature reversing module**

PRODUCT NAME

800 / 1200

Non Isolated

800
1.1kW / 1.5HP

1200
1.8kW / 2.0HP

DESCRIPTION

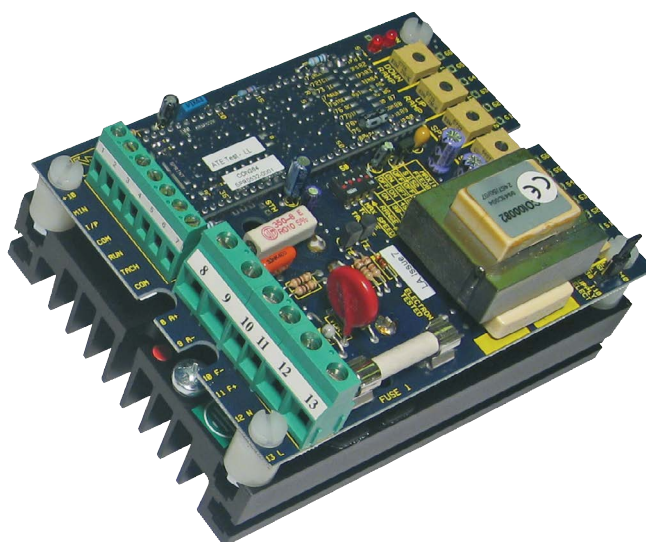
Two models available in 8 Amp and 12 Amp versions allow an easy upgrade path for those applications requiring extra power.

Both models feature the Sprint Electric micro analog processor module providing all the extra features normally associated with expensive "high end" products.

Compact design results in savings in panel space and hence costs.

Robust screw terminals reflect the overall quality and reliability, with overall performance meeting even the most arduous of applications.

Careful design with switch selection of key functions make the 800 and 1200 controllers quick and easy to install.



MODEL COMPARISON

| MODEL | AC SUPPLY RANGE | TYPICAL ARMATURE VOLTAGE | MAX CONTINUOUS ARMATURE CURRENT | NOMINAL POWER |
|-------|-----------------|--------------------------|---------------------------------|-----------------|
| 800 | 100 to 130v | 90v | 8A | 0.55kW (0.75HP) |
| | 200 to 264v | 180v | 8A | 1.1kW (1.5HP) |
| 1200 | 100 to 130v | 90v | 12A | 0.9kW (1.0HP) |
| | 200 to 264v | 180v | 12A | 2.0kW (2.0HP) |

DIMENSIONS

| | |
|----------|--------|
| H | 130 mm |
| W | 100 mm |
| D | 70 mm |

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

PRODUCT NAME

800 / 1200

Non Isolated

800
1.1kW / 1.5HP
1200
1.8kW / 2.0HP

800/1200 KEY FEATURES

SPECIFICATION

| | |
|----------------------|--|
| Control action: | Dual Loop Proportional + Integral |
| Speed regulation: | 0.1% Tachogenerator 2% Armature Voltage |
| Armature: | 800, 8 Amps 1200, 12 Amps continuous 200v max |
| Overload protection: | Extra 50% peak torque for 30 secs prior to stall trip operation |
| Field output: | 0.5 Amps at 0.9 x AC supply voltage |
| Customer presets: | Max speed: 12v-200v full scale feedback Min speed 0-30% of max speed Up ramp (Acceleration) 1-30 secs Down ramp (Deceleration) 1-30 secs Stability IR comp Max Armature current 0-100% |
| Switches: | Feedback voltage - 4 ranges Torque or speed mode Tachogenerator or Armature Voltage feedback |
| Inputs: | Speed Torque Auxiliary speed input Auxiliary inverted speed input for trims etc. Run command Tachogenerator 4-20mA or 0-20mA Pushbutton stop/start input |
| Outputs: | Speed Current Setpoint ramp +/- 12v/-24v rails Zero Speed relay driver Stall relay driver |

Adjustable Stability control
for optimum motor response

Integral AC supply fuse

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

Output signals for easy
display of motor speed
and load

Zero reference interlock
facility

Adjustable IR compensation
for improved AVF speed
regulation

Switch selectable
feedback calibration -
no component changes

Precision tach rectifier

Zero speed signal output

Motor overload output

Identical footprint for
8 or 12 Amp output

Remote stop/start input

Features Sprint Electric
micro analog processor

Pushbutton input for
electronic control of motor
stop/start

Compact size, saves panel
space and makes for easy
retrofitting

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

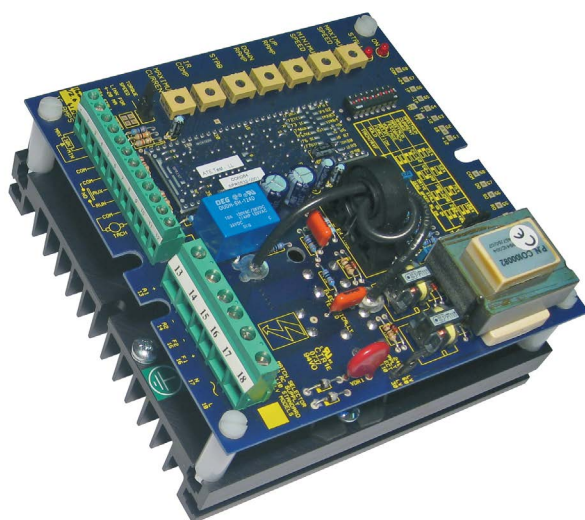
DESCRIPTION

Designed to give the customer the choice.

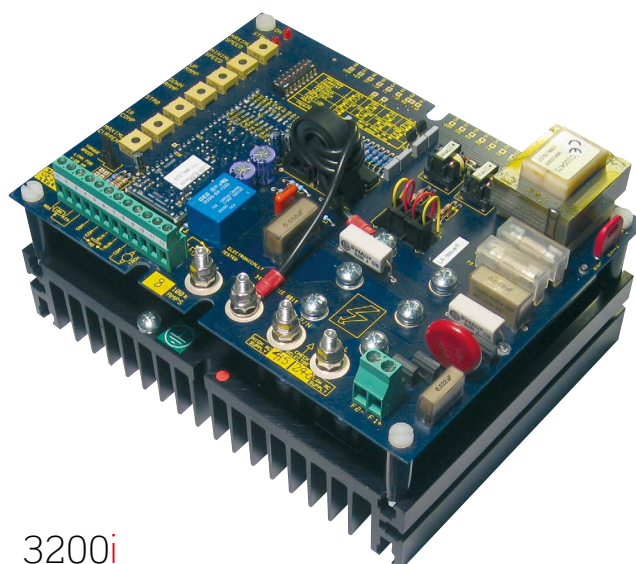
The 1600i includes an extensive specification with quality, value for money and reliability assured.

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

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



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 |

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

PRODUCT NAME

1600i/3200i

Fully Isolated

1600i

2.2kW

3200i

2.2kW to 11.0kW

1600i/3200i KEY FEATURES

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 Precision tach rectifier |

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

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

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

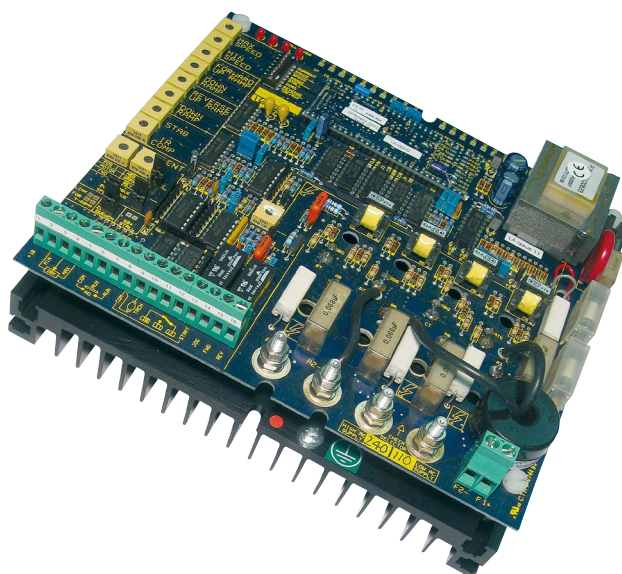
A four quadrant regenerative drive providing motoring and braking in both directions of rotation.

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.

3600XRi

Fully Isolated

0.55kw to 9.5kw

3600XRi KEY FEATURES

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.

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

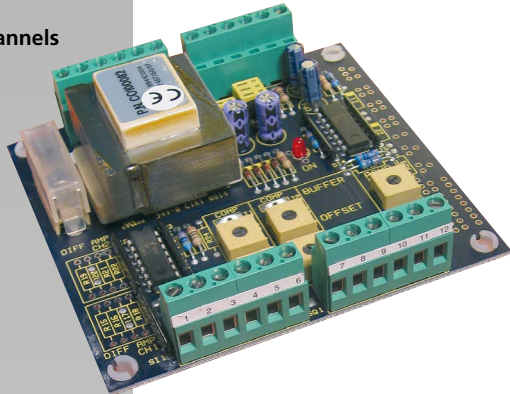
BUFFER

Versatile analog system signal blocks

Ideal for systems applications

Five independent channels

Mains powered



BUFFER CARD

The buffer card is a compact self-powered interface product for signal processing and amplification. The card has 5 independent channels with a large variety of uses, e.g multi setpoint systems, closed loop control, field weakening processor, signal buffering.

CHANNELS 1 AND 2. High accuracy differential amplifier with adjustable gain. Uses include inverting, non-inverting, amplification, attenuation, buffering, rectifying, filtering, load cell amplifier etc.

CHANNELS 3 AND 4. High accuracy summing amplifier

with variable gain, voltage input and zero offset adjustment. Uses include summing, scaling, amplification, subtraction, clamping, comparator, integrator, buffering etc.

CHANNEL 5. Linear ramp with variable ramp rate and ramp reset input.

All channels are short circuit protected and can drive upto 10, 10K pots with + or - signals. Also included is a precision power supply with +/-12v and +/-24v outputs, the unit can be powered from 110/240v AC supplies.

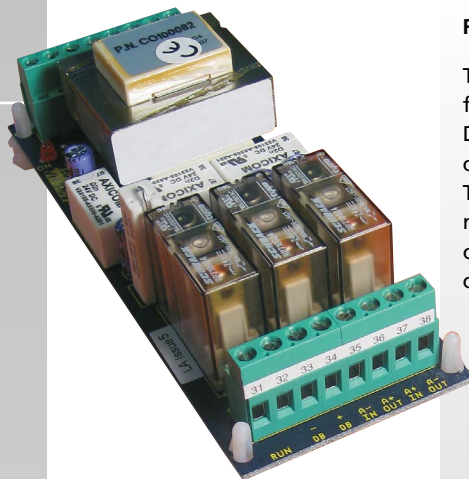
REV UNIT

Designed for use with Sprint 400, 800 and 1200 drives

Robust design for safe reversal from any speed

No additional contactors or relays required

Suitable for any armature voltage up to 180v DC



REVERSING UNIT

This compact unit allows for the safe reversal of DC Motors with armature currents up to 12 Amps. The card possesses all the necessary logic and unlike other available units, all the contactors for reversing and

dynamic braking are integral to the unit.

For currents higher than 12 Amps the unit is easily interface with external power contactors.

DPM

Available in two versions 3 1/2 and 4 1/2 digit

Specifically designed for use with drives

Quick and easy to calibrate in any engineering units

Mains powered

Simple slide-in legend facility for process variable



DIGITAL PANEL METERS

A range of digital panel meters contained within a DIN size case.

DPM35S. Three and a half digit panel meter. Features include slide in legend, plug-in screw terminals, display hold, 110/240v AC supply. Display is 14mm red LED with range +/- 999 and selectable decimal point. The unit is scaleable in engineering units via customer accessible multitrans preset. Any full

scale voltage from +/-5v to +/-200v can be adjusted to read any display number. Customer accessible offset control. Full ratio facility with automatic "out of limits", 4-20mA loop input facility. Range adjustment to 100mV and an AC voltage measurement input facility.

DPM35SD. A four and a half digit version of the DPM35S with display reading to +/-19990. All other features included.

PRODUCT NAME

ENCLOSURES

Non Isolated

0.37kw to 1.8kw

SPECIFICATION

DESCRIPTION

Seven drive models available in high quality aluminium enclosures.

From 0.37kw to 1.8kw in either forward (E) only or reversing (ER) variants. Features include IP40 protection, Mains on/off switch, dual voltage supply, fully fused, zero speed interlocked reversing, dynamic braking, set speed potentiometer with graduated scale.

These enclosures contain the Sprint Electric 370, 400, 800 and 1200 controllers already renowned for their extensive specification and versatility.

Controls:

- On/Off AC supply rocker switch
- Set speed potentiometer
- AC supply fuse
- 400ER, 800ER, 1200ER: toggle switch for forward, stop and reverse



370E/400E/800E/1200E



400ER/800ER/1200ER



MODEL COMPARISON

| MODEL | AC SUPPLY RANGE | TYPICAL ARMATURE VOLTAGE | MAX CONTINUOUS ARMATURE CURRENT | NOMINAL POWER |
|--------|-----------------|--------------------------|---------------------------------|---------------|
| 370E | 110/240v | 90/180v | 3.7A | 0.25kw/0.55kw |
| 400E | | | 4A | 0.25kw/0.55kw |
| 800E | | | 8A | 0.55kw/1.1kw |
| 1200E | | | 12A | 0.9kw/1.8kw |
| 400ER | | | 4A | 0.25kw/0.55kw |
| 800ER | | | 8A | 0.55kw/1.1kw |
| 1200ER | | | 12A | 0.9kw/1.8kw |

DIMENSIONS

| | |
|---|--------|
| H | 250 mm |
| W | 175 mm |
| D | 100 mm |

See parts list at back for low voltage supply options and fuses.
Refer to features chart for further details or download product manual for full specification.

200XLV KEY FEATURES

Motors and brakes in both directions

Ideal for small DC motors and linear actuators up to 48v

Fast response

Panel or DIN rail mounting

+/- 2A output, with 150% overload capability

Single polarity supply with wide supply voltage range up to 48v

Suitable for battery or standard unregulated DC supply

Precision references for ultra stable operation

+ve and -ve differential speed inputs

Built in thermal protection with resettable trip

Current limit protection

3 term PID control action

Armature or tach feedback operation

Position control facility

Setpoint ramp facility

Plug on screw terminals for easy wiring

Adjustable IR compensation for improved AVF speed regulation

CE marked with excellent EMC compliance

Comprehensive manual with multi-applications data

High bandwidth with superbly linear output

Accepts bipolar or unipolar command inputs

Direction control by switch or centre zero pot

Easily interfaced for limit switch operation

Ideal for low inductance, printed motors

PRODUCT NAME

200XLV

DESCRIPTION

The 200XLV is a fast response, linear DC motor speed controller for driving small low voltage brushed DC motors.

Ideal for positioning and servo type applications.

The 200XLV will motor and brake in both directions of rotation and operates from a single polarity supply, either battery or unregulated DC Source.

Excellent performance allows the 200XLV to meet the most demanding of applications. The extensive specification includes many

standard features not normally associated with a drive the size and cost of the 200XLV.

The compact design has plug in screw terminals and provision for back panel or DIN rail mounting.

The 200XLV is fully EMC compliant and CE marked.



Due to its linear control circuits and linear output stage, this drive is ideal for applications with other highly sensitive low immunity circuits.

400/800/1200XLV

DESCRIPTION

Fast response, linear DC Drives designed for driving small low voltage brushed DC motors.

Ideal for servo-type applications requiring excellent speed control offering either speed or torque (current) control modes.

Three compact models available in 4/8/12A versions giving excellent performance and value. The high specification includes many standard features not normally associated with drives of comparable size and cost.

A fast acting current control loop allows precise speed control of small permanent magnet DC motors. The Drives allow for bi – or unipolar 0 – 10V speed / current reference. For highly dynamic applications, a shaft- mounted DC tachogenerator is

recommended for speed feedback but in less demanding applications, armature voltage feedback (Avf) can be used. The 400/800/1200XLV will motor and brake in both directions of rotation and operate from a single polarity supply, either battery or unregulated DC Source from 12 – 48VDC.

The drives are easy to install with plug in screw terminals for DIN rail mounting and are fully EMC compliant and CE marked.



400XLV KEY FEATURES

Motors and brakes in both directions

Ideal for small DC motors and linear actuators up to 48v

Fast response

DIN rail mounting (Panel/DIN rail mounting options for XLV)

4/8/12A output, with 200% overload for one second with inverse time reduction to 100% in 5 seconds

Single polarity supply with wide supply voltage range up to 48v

Suitable for battery or standard unregulated DC supply

Precision references for ultra stable operation

Current limit protection

Armature or tach feedback operation

Plug on screw terminals for easy wiring

Adjustable IR compensation for improved AVF speed regulation

CE marked with excellent EMC compliance

Comprehensive manual with multi-applications data

High bandwidth with superbly linear output

Accepts bipolar or unipolar command inputs

Direction control by switch or centre zero pot

Easily interfaced for limit switch operation

Ideal for low inductance, printed motors

MODEL COMPARISON

| MODEL | SUPPLY VOLTAGE | OUTPUT | CURRENT |
|---------|-------------------------|-------------------------|---------|
| 400XLV | 12vdc 24vdc 48vdc | 12vdc 24vdc 48vdc | 4A |
| 800XLV | 12vdc 24vdc 48vdc | 12vdc 24vdc 48vdc | 8A |
| 1200XLV | 12vdc 24vdc 48vdc | 12vdc 24vdc 48vdc | 12A |

DIMENSIONS 400XLV & 800XLV

H 105 mm

W 60 mm

D 120 mm

DIMENSIONS 1200XLV

H 105 mm

W 70 mm

D 120 mm

SINGLE PHASE 1Q DC CONTROLLERS - NON ISOLATED

340



0.55KW 3.4A 240/110Vac 1Q Non Isolated

| | |
|---|----------|
| Controller | 340 |
| 30/60V AC supply input version | 340LV60 |
| Semiconductor Fuse 6 x 32 | CH00620A |
| Fuseholder 6 x 32 | CP102071 |
| DIN Rail Clip for Fuseholder | FE101969 |
| Pot kit including graduated dial & knob | POTKIT |
| Filter (if required) | FRLN16 |

680



0.75KW 6.8A 240/110Vac 1Q Non Isolated

| | |
|---|----------|
| Controller | 680 |
| 30/60V AC supply input version | 680LV60 |
| Semiconductor Fuse 6 x 32 | CH00620A |
| Fuseholder 6 x 32 | CP102071 |
| DIN Rail Clip for Fuseholder | FE101969 |
| Pot kit including graduated dial & knob | POTKIT |
| Filter (if required) | FRLN16 |

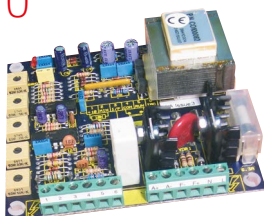
1220



1.8KW 12.2A 240/110Vac 1Q Non Isolated

| | |
|---|----------|
| Controller | 1220 |
| 30/60V AC supply input version | 1220LV60 |
| Semiconductor Fuse 6 x 32 | CH00620A |
| Fuseholder 6 x 32 | CP102071 |
| DIN Rail Clip for Fuseholder | FE101969 |
| Pot kit including graduated dial & knob | POTKIT |
| Filter (if required) | FRLN16 |

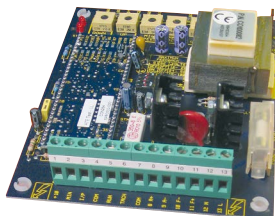
370



0.55KW 3.7A 240/110Vac 1Q Non Isolated

| | |
|---|----------|
| Controller | 370 |
| 30/60V AC supply input version | 370LV60 |
| Semiconductor Fuse 6 x 32 | CH00608A |
| Fuseholder 6 x 32 | CP102071 |
| DIN Rail Clip for Fuseholder | FE101969 |
| Pot kit including graduated dial & knob | POTKIT |
| Filter (if required) | FRLN16 |

400



0.55KW 4A 240/110Vac 1Q Non Isolated

| | |
|---|----------|
| Controller | 400 |
| 30/60V AC supply input version | 400LV60 |
| Semiconductor Fuse 6 x 32 | CH00608A |
| Fuseholder 6 x 32 | CP102071 |
| DIN Rail Clip for Fuseholder | FE101969 |
| Pot kit including graduated dial & knob | POTKIT |
| Filter (if required) | FRLN16 |

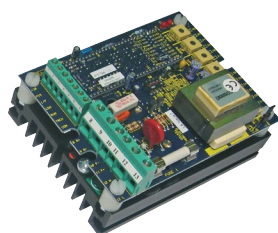
800



1.1KW 8A 240/110Vac 1Q Non Isolated

| | |
|---|----------|
| Controller | 800 |
| 30/60V AC supply input version | 800LV60 |
| Semiconductor Fuse 6 x 32 | CH00612A |
| Fuseholder 6 x 32 | CP102071 |
| DIN Rail Clip for Fuseholder | FE101969 |
| Pot kit including graduated dial & knob | POTKIT |
| Filter (if required) | FRLN16 |

1200



1.8KW 12A 240/110Vac 1Q Non Isolated

| | |
|---|----------|
| Controller | 1200 |
| 30/60V AC supply input version | 1200LV60 |
| Semiconductor Fuse 6 x 32 | CH00620A |
| Fuseholder 6 x 32 | CP102071 |
| DIN Rail Clip for Fuseholder | FE101969 |
| Pot kit including graduated dial & knob | POTKIT |
| Filter (if required) | FRLN16 |

KW ratings shown are at highest supply voltage.

SINGLE PHASE 1Q DC CONTROLLERS - ISOLATED

340i



0.55KW 3.4A 240/110Vac 1Q Isolated

| | |
|---|----------|
| Controller | 340i |
| 30/60V AC supply input version | 340iLV60 |
| Semiconductor Fuse 6 x 32 | CH00620A |
| Fuseholder 6 x 32 | CP102071 |
| DIN Rail Clip for Fuseholder | FE101969 |
| Pot kit including graduated dial & knob | POTKIT |
| Filter (if required) | FRLN16 |

680i



0.75KW 6.8A 240/110Vac 1Q Isolated

| | |
|---|----------|
| Controller | 680i |
| 30/60V AC supply input version | 680iLV60 |
| Semiconductor Fuse 6 x 32 | CH00620A |
| Fuseholder 6 x 32 | CP102071 |
| DIN Rail Clip for Fuseholder | FE101969 |
| Pot kit including graduated dial & knob | POTKIT |
| Filter (if required) | FRLN16 |

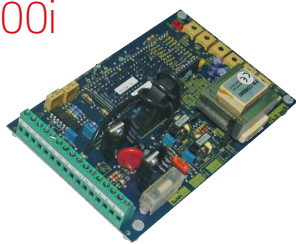
1220i



1.8KW 12.2A 240/110Vac 1Q Isolated

| | |
|---|-----------|
| Controller | 1220i |
| 30/60V AC supply input version | 1220iLV60 |
| Semiconductor Fuse 6 x 32 | CH00620A |
| Fuseholder 6 x 32 | CP102071 |
| DIN Rail Clip for Fuseholder | FE101969 |
| Pot kit including graduated dial & knob | POTKIT |
| Filter (if required) | FRLN16 |

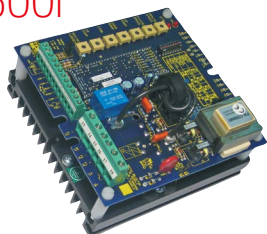
400i



0.55KW 4A 240/110Vac 1Q Isolated

| | |
|---|----------|
| Controller | 400i |
| 30/60V AC supply input version | 400iLV60 |
| Semiconductor Fuse 6 x 32 | CH00608A |
| Fuseholder 6 x 32 | CP102071 |
| DIN Rail Clip for Fuseholder | FE101969 |
| Pot kit including graduated dial & knob | POTKIT |
| Filter (if required) | FRLN16 |

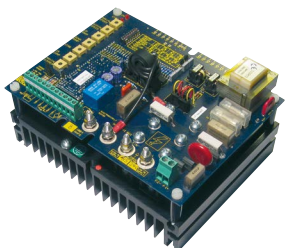
1600i



2.2KW 16A 240/110Vac 1Q Isolated

| | |
|---|-----------|
| Controller | 1600i |
| 30/60V AC supply input version | 1600iLV60 |
| Semiconductor Fuse 14 x 51 | CH00730A |
| Fuseholder 14 x 51 | CP102053 |
| Pot kit including graduated dial & knob | POTKIT |
| Filter (if required) | FRLN16 |

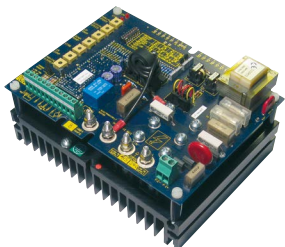
3200i/8



2.2KW 8A 415/240Vac 1Q Isolated

| | |
|--|-------------|
| Controller | 3200i/8 |
| 30/60V AC supply input version | 3200i/8LV60 |
| Semiconductor Fuse 6 x 32* | CH00612A |
| Fuseholder 6 x 32* | CP102071 |
| DIN Rail Clip for Fuseholder* | FE101969 |
| Pot kit including graduated dial & knob | POTKIT |
| Filter (240V operation, if required) | FRLN16 |
| Filter (415V operation, if required) | FRL16 |
| * Note: Two fuses & holders etc. required for 415V Line to Line operation. | |

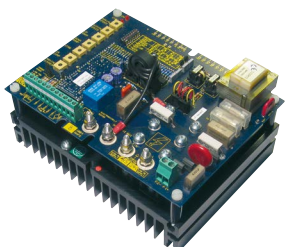
3200i/16



4KW 16A 415/240Vac 1Q Isolated

| | |
|---|--------------|
| Controller | 3200i/16 |
| 30/60V AC supply input version | 3200i/16LV60 |
| Semiconductor Fuse 14 x 51* | CH00730A |
| Fuseholder 14 x 51* | CP102053 |
| Pot kit including graduated dial & knob | POTKIT |
| Filter (240V operation, if required) | FRLN16 |
| Filter (415V operation, if required) | FRL16 |
| * Note: Two fuses & holders required for 415V Line to Line operation. | |

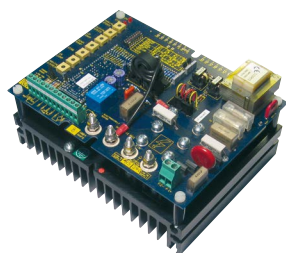
3200i/32



7.5KW 32A 415/240Vac 1Q Isolated

| | |
|---|--------------|
| Controller | 3200i/32 |
| 30/60V AC supply input version | 3200i/32LV60 |
| Semiconductor Fuse Size 000* | CH00850A |
| Fuseholder Size 000* | CP102054 |
| Pot kit including graduated dial & knob | POTKIT |
| Filter (if required) | FRL136 |
| * Note: Two fuses & holders required for 415V Line to Line operation. | |

3200i/48



11kW 48A 415/240Vac 1Q Isolated

Controller
30/60V AC supply input version
Semiconductor Fuse Size 000*
Fuseholder Size 000*
Pot kit including graduated dial & knob
Filter (if required)

3200i/48
3200i/48LV60
CH00880A
CP102054
POTKIT
FRL150

* Note: Two fuses & holders required for 415V Line to Line operation.

SINGLE PHASE 4Q DC CONTROLLERS - ISOLATED, FULLY REGENERATIVE

340XRi



0.55kW 3.4A 240/110Vac 4Q Regen Isolated

Controller
30/60V AC supply input version
Semiconductor Fuse 6 x 32
Fuseholder 6 x 32
DIN Rail Clip for Fuseholder
Pot kit including graduated dial & knob
Filter (if required)

340XRi
340XRiLV60
CH00620A
CP102071
FE101969
POTKIT
FRLN16

680XRi



0.75KW 6.8A 240/110Vac 4Q Regen Isolated

Controller
30/60V AC supply input version
Semiconductor Fuse 6 x 32
Fuseholder 6 x 32
DIN Rail Clip for Fuseholder
Pot kit including graduated dial & knob
Filter (if required)

680XRi
680XRiLV60
CH00620A
CP102071
FE101969
POTKIT
FRLN16

1220XRi

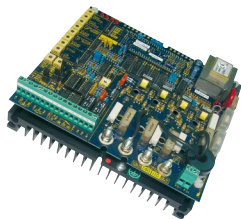


1.8KW 12.2A 240/110Vac 4Q Regen Isolated

Controller
30/60V AC supply input version
Semiconductor Fuse 6 x 32
Fuseholder 6 x 32
DIN Rail Clip for Fuseholder
Pot kit including graduated dial & knob
Filter (if required)

1220XRi
1220XRiLV60
CH00620A
CP102071
FE101969
POTKIT
FRLN16

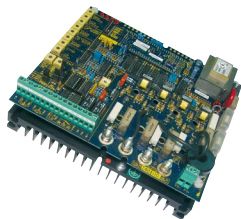
3600XRi/4



0.55KW 4A 240/110Vac 4Q Regen Isolated

| | |
|---|----------------|
| Controller | 3600XRi/4/LN |
| 30/60V AC supply input version | 3600XRi/4/LV60 |
| Filter | FRLN16 |
| Semiconductor Fuse 6 x 32 | CH00608A |
| Fuseholder 6 x 32 | CP102071 |
| DIN Rail Clip for Fuseholder | FE101969 |
| Pot kit including graduated dial & knob | POTKIT |

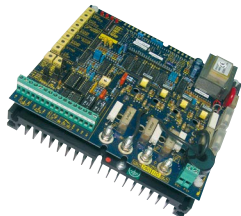
3600XRi/8



1.1KW 8A 240/110Vac 4Q Regen Isolated

| | |
|---|----------------|
| Controller | 3600XRi/8/LN |
| 30/60V AC supply input version | 3600XRi/8/LV60 |
| Filter | FRLN16 |
| Semiconductor Fuse 6 x 32 | CH00620A |
| Fuseholder 6 x 32 | CP102071 |
| DIN Rail Clip for Fuseholder | FE101969 |
| Pot kit including graduated dial & knob | POTKIT |

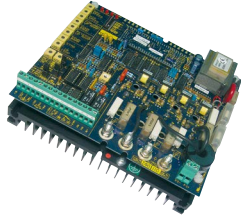
3600XRi/16



2.2KW 16A 240/110Vac 4Q Regen Isolated

| | |
|---|-----------------|
| Controller | 3600XRi/16/LN |
| 30/60V AC supply input version | 3600XRi/16/LV60 |
| Filter | FRLN16 |
| Semiconductor Fuse 14 x 51 | CH00730A |
| Fuseholder 14 x 51 | CP102053 |
| Pot kit including graduated dial & knob | POTKIT |

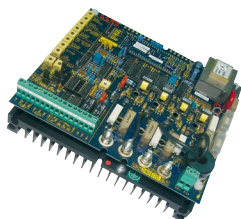
3600XRi/16



4KW 16A 415/240Vac 4Q Regen Isolated

| | |
|---|---------------|
| Controller | 3600XRi/16/LL |
| Filter | FRLL16 |
| Semiconductor Fuse 14 x 51* | CH00730A |
| Fuseholder 14 x 51* | CP102053 |
| Pot kit including graduated dial & knob | POTKIT |
| * Note: Two fuses & holders required for 415V Line to Line operation. | |

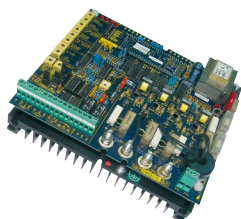
3600XRi/32



7.5KW 32A 415/240Vac 4Q Regen Isolated

| | |
|---|-----------------|
| Controller | 3600XRi/32/LL |
| 30/60V AC supply input version | 3600XRi/32/LV60 |
| Filter | FRLL36 |
| Semiconductor Fuse Size 000* | CH00850A |
| Fuseholder Size 000* | CP102054 |
| Pot kit including graduated dial & knob | POTKIT |
| * Note: Two fuses & holders required for 415V Line to Line operation. | |

3600XRi/36



9.5KW 36A 415/240Vac 4Q Regen Isolated

| | |
|---|-----------------|
| Controller | 3600XRi/36/LL |
| 30/60V AC supply input version | 3600XRi/36/LV60 |
| Filter | FRLL36 |
| Semiconductor Fuse Size 000* | CH00850A |
| Fuseholder Size 000* | CP102054 |
| Pot kit including graduated dial & knob | POTKIT |
| * Note: Two fuses & holders required for 415V Line to Line operation. | |

KW ratings shown are at high supply voltage.

Please refer to website for further information or product technical manual for full specification.

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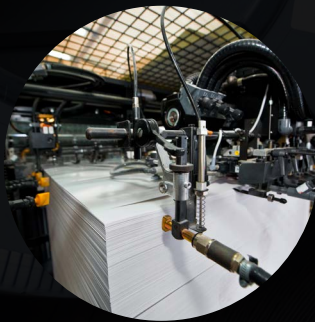
LIFTS, CRANES &
HOISTS



MARINE



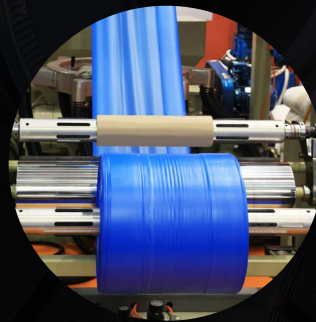
PAPER



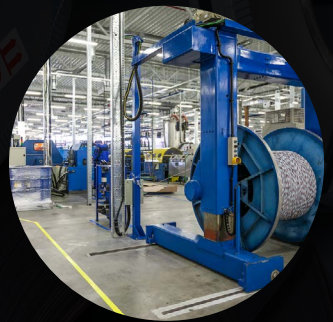
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PLASTICS



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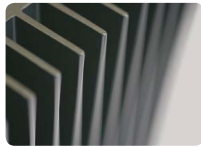
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