

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

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.



# 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       | 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
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.



# 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