# 340 - 1220 Series Motor Controllers




SPRINT ELECTRIC

data

PRODUCT SPECIFICATIONS

Versatile range of motor controllers for permanent magnet or shunt wound dc motors offered in a compact easy to use din rail mounting package.

## 0.55 - 1.8kW, ½ - 2 HP

Slim design, saves space and allows drive mounting adjacent to other control panel components. Easy to access adjustments and plug on screw terminals make these units quick to install and run. Dual voltage supply and selectable avf or tacho feedback are just some of the standard features.

### Non-Isolated

- 340, 680 & 1220 models offering basic functionality at a very competitive price.

### Fully Isolated

- **1Q** 340i, 680i & 1220i
- **4Q** 340XRi, 680XRi & 1220XRi
- Isolated models have comprehensive system I/O.
- Linear outputs for Ramp, Demand, Speed and Current.
- Linear inputs for Ramped I/P, Direct I/P, Torque I/P.
- Logic outputs for Overload and Trip.
- Uncommitted level comparator, and signal sign changer.

### Non Isolated

**340**
1Q 3.4A
0.55kW, ½ Hp @ 180V

**680**
1Q 6.8A
0.75kw, 1Hp @ 180V

**1220**
1Q 12.2A
1.8kW, 2Hp @180V

### Isolated

**340i**
1Q 3.4A
0.55kW, ½ Hp @ 180V
Isolated with systems I/O

**680i**
1Q 6.8A
0.75kW, 1Hp @ 180V
Isolated with systems I/O

**1220i**
1Q 12.2A
1.8kW, 2Hp @ 180V
Isolated with systems I/O

### Isolated Regen 4Q

**340XRi**
4Q Regen 3.4A
0.55kW, ½ Hp @ 180V
Isolated with systems I/O

**680XRi**
4Q Regen 6.8A
0.75kW, 1Hp @ 180V
Isolated with systems I/O

**1220XRi**
4Q Regen 12.2A
1.8kW, 2 HP @ 180V.
Isolated with systems I/O

| | Power | Adjustments | Terminals | | | Width |
|---|---|---|---|---|---|---|
| **340** | ¼Hp 0.25kW @90Vdc<br>½Hp 0.55kW @180Vdc<br>Field 1Amp 0.9x ac supply | Max Speed<br>Min Speed<br>Up Ramp<br>IR Comp<br>I max<br>AVF/Tach switch<br>Speed range switch<br>AC voltage selector | +10V<br>Min<br>I/P<br>Com<br>Run<br>Tach | | A+<br>A-<br>F-<br>F+<br>L<br>N | 35mm |
| **680** | ½Hp 0.55kW @90Vdc<br>1Hp 0.75kW @180Vdc<br>Field 1Amp 0.9x ac supply | | | | | 45mm |
| **1220** | 1Hp 0.75kW @90Vdc<br>2Hp 1.8kW @180Vdc<br>Field 1Amp 0.9x ac supply | | | | | 45mm |
| **340i** | ¼Hp 0.25kW @90Vdc<br>½Hp 0.55kW @180Vdc<br>Field 1Amp 0.9x ac supply | Max Speed<br>Min Speed<br>Up Ramp<br>Down Ramp<br>Stability<br>I max<br>IR Comp<br>AVF/Tach switch<br>Speed range switch<br>AC voltage selector<br>Level comparator | +10V ref<br>Min speed<br>I/P +<br>Output +/-<br>Common<br>Input +/-<br>Pushbutton +<br>Pushbutton -<br>Run input<br>Common<br>Tach Input | Level O/P<br>Level I/P<br>Overload O/P<br>Trip O/P<br>Ramp O/P<br>Demand O/P<br>Speed O/P<br>Current O/P<br>+ Speed Input<br>Torque I/P | A+<br>A-<br>F-<br>F+<br>L<br>N | 60mm |
| **680i** | ½Hp 0.55kW @90Vdc<br>1Hp 0.75kW @180Vdc<br>Field 1Amp 0.9x ac supply | | | | | 70mm |
| **1220i** | 1Hp 0.75kW @90Vdc<br>2Hp 1.8kW @180Vdc<br>Field 1Amp 0.9x ac supply | | | | | 70mm |
| **340XRi** | ¼Hp 0.25kW @90Vdc<br>½Hp 0.55kW @180Vdc<br>Field 1Amp 0.9x ac supply | Max Speed<br>Min Speed<br>Up Ramp<br>Down Ramp<br>Stability<br>I max<br>IR Comp<br>AVF/Tach switch<br>Speed range switch<br>AC voltage selector<br>Level comparator | +10V ref<br>Min speed<br>I/P +<br>Output +/-<br>Common<br>Input +/-<br>Pushbutton +<br>Pushbutton -<br>Run input<br>Common<br>Tach Input | Level O/P<br>Level I/P<br>Overload O/P<br>Trip O/P<br>Ramp O/P<br>Demand O/P<br>Speed O/P<br>Current O/P<br>+ Speed Input<br>Torque I/P | A+<br>A-<br>F-<br>F+<br>L<br>N | 60mm |
| **680XRi** | ½Hp 0.55kW @90Vdc<br>1Hp 0.75kW @180Vdc<br>Field 1Amp 0.9x ac supply | | | | | 70mm |
| **1220XRi** | 1Hp 0.75kW @90Vdc<br>2Hp 1.8kW @180Vdc<br>Field 1Amp 0.9x ac supply | | | | | 70mm |

