

# 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.

### 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.

## 0.55 - 1.8kW, 1/2 - 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**  
1Q 3.4A  
0.55kW, 1/2 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, 1/2 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, 1/2 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
<b>340</b>	1/4Hp 0.25kW @90Vdc 1/2Hp 0.55kW @180Vdc Field 1Amp 0.9x ac supply	Max Speed Min Speed Up Ramp IR Comp I max AVF/Tach switch Speed range switch AC voltage selector	+10V Min I/P Com Run Tach	A+ A- F- F+ L N	35mm	
<b>680</b>	1/2Hp 0.55kW @90Vdc 1Hp 0.75kW @180Vdc Field 1Amp 0.9x ac supply				45mm	
<b>1220</b>	1Hp 0.75kW @90Vdc 2Hp 1.8kW @180Vdc Field 1Amp 0.9x ac supply				45mm	
<b>340i</b>	1/4Hp 0.25kW @90Vdc 1/2Hp 0.55kW @180Vdc Field 1Amp 0.9x ac supply	Max Speed Min Speed Up Ramp Down Ramp Stability I max IR Comp AVF/Tach switch Speed range switch AC voltage selector Level comparator	+10V ref Min speed I/P + Output +/- Common Input +/- Pushbutton + Pushbutton - Run input Common Tach Input	Level O/P Level I/P Overload O/P Trip O/P Ramp O/P Demand O/P Speed O/P Current O/P + Speed Input Torque I/P	A+ A- F- F+ L N	60mm
<b>680i</b>	1/2Hp 0.55kW @90Vdc 1Hp 0.75kW @180Vdc Field 1Amp 0.9x ac supply				70mm	
<b>1220i</b>	1Hp 0.75kW @90Vdc 2Hp 1.8kW @180Vdc Field 1Amp 0.9x ac supply				70mm	
<b>340XRi</b>	1/4Hp 0.25kW @90Vdc 1/2Hp 0.55kW @180Vdc Field 1Amp 0.9x ac supply	Max Speed Min Speed Up Ramp Down Ramp Stability I max IR Comp AVF/Tach switch Speed range switch AC voltage selector Level comparator	+10V ref Min speed I/P + Output +/- Common Input +/- Pushbutton + Pushbutton - Run input Common Tach Input	Level O/P Level I/P Overload O/P Trip O/P Ramp O/P Demand O/P Speed O/P Current O/P + Speed Input Torque I/P	A+ A- F- F+ L N	60mm
<b>680XRi</b>	1/2Hp 0.55kW @90Vdc 1Hp 0.75kW @180Vdc Field 1Amp 0.9x ac supply				70mm	
<b>1220XRi</b>	1Hp 0.75kW @90Vdc 2Hp 1.8kW @180Vdc Field 1Amp 0.9x ac supply				70mm	

