340 - 1220 Series Motor Controllers



SPRINT ELECTRIC

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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 ½Hp 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
680	½Hp 0.55kW @90Vdc 1Hp 0.75kW @180Vdc Field 1Amp 0.9x ac supply					45mm
1220	1Hp 0.75kW @90Vdc 2Hp 1.8kW @180Vdc Field 1Amp 0.9x ac supply					45mm
340i	¼Hp 0.25kW @90Vdc ½Hp 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
680i	½Hp 0.55kW @90Vdc 1Hp 0.75kW @180Vdc Field 1Amp 0.9x ac supply					70mm
1220i	1Hp 0.75kW @90Vdc 2Hp 1.8kW @180Vdc Field 1Amp 0.9x ac supply					70mm
340XRi	¼Hp 0.25kW @90Vdc ½Hp 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
680XRi	½Hp 0.55kW @90Vdc 1Hp 0.75kW @180Vdc Field 1Amp 0.9x ac supply					70mm
1220XRi	1Hp 0.75kW @90Vdc 2Hp 1.8kW @180Vdc Field 1Amp 0.9x ac supply					70mm

