

Single Phase DC Drives

DC drives available from SUPERNOVA are designed with a common control scheme and feature set throughout the entire product range. This offers the benefits of compact packages, fast system design cycles and cost effectiveness. Fractional through 7.5 hp designs all have a zero speed output, multiple reference inputs and numerous other common features.

These drives are 2 and 4-quadrant (non-regenerative) units, suitable for use in numerous applications.



Key Applications

Extruders, Material Handling, Textiles Machinery, Test Stands, and Printing Presses, Packaging Machines etc.

Standard Features

- *Full Wave SCR Bridge*
- *Configurable Field Bridge*
- *50/60Hz auto ranging*
- *Wide supply range, 208-240 volts +/- 10%*
- *Phase loss protection*
- *Linear torque control*
- *Armature voltage or tach feedback*
- *IR compensation **
- *Maximum and minimum speed settings*
- *Adjustable up & down ramps*
- *Adjustable current limit*
- *Current range selectable for multiple horsepower's*
- *150% overload capacity with 30 second stall timer*
- *Relay outputs: Stall, Zero Speed, Overload*
- *Start inhibit after power loss*
- *LED indicators: Power on, Stall, Stall timer, External trip, Contactor on*
- *Speed signal output*
- *Shunt wound or permanent magnet motors*

Technical Data

Converter Ratings

<i>Rated Voltage:</i>	190-260 V
<i>Input Voltage Phase:</i>	Single Phase AC
<i>Rated Frequency:</i>	50 / 60 Hz
<i>Dynamic Frequency Range:</i>	45 to 65 Hz
<i>Hp Range :</i>	0.5 to 7.5 hp
<i>Short Term Overload Capacity:</i>	150 % for 30 Sec.

Operating Limits

<i>Ambient Temperature:</i>	5° to 45°C
<i>Storage Temperature:</i>	-40° to 55°C
<i>Relative Humidity:</i>	95% No condensing

Standard Input Connections

- ***4 Analog Inputs – Voltage, Current, Torque, Tension.***
- ***1 Tachometer Input***
- ***1 Temp. Input***

Protection

- ***Speed Feedback Loss***
- ***Motor Over temperature***
- ***Motor Overload***
- ***Motor Over speed***
- ***Motor Stall***
- ***Instantaneous Over current Protection***
- ***Armature Over voltage***
- ***Loss of Field Current***
- ***Field Over current***
- ***SCR Over temperature***
- ***Main Supply Under voltage***
- ***Phase Loss***

Warranty

- ***1 year limited warranty.***