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SOFT STARTER
Motor Soft Start/ Soft Stop (Microcontroller Based)

Features:

- Power range up to 150 kW at 400 V
- Compact and Efficient Design and startup
- Choice of startup functions: breakaway pulse, voltage ramp, voltage or current limiting
- Adjustable Torque i.e. Pedestal voltage
- Adjustable Ramp up start time.
- System Run, fault, Power On, Start/Ramp Up, Bypass LED on front Panel.

Electrical Specification:

Supply Voltage	240-460 V
Frequency	47/63 Hz
Pedestal Voltage	20%, 30%, 50%, 70% of I/P Voltage

Environmental Specification:

Operating Temp.	0° To 40°C
Storage Temp.	-10 °C to 40 ° C
Cooling	Cooling with heatsink.
Relative humidity	< 95 % no condensation allowed
Altitude	Maximum 1000 m reduce kW Rating by 1 % per additional 100 M

Control Specification:

Ramp Up Time	0.5 Sec To 120 sec
Ramp Down Time	0.5 to Sec To 120 Sec
Starting Duty	2.5 X unit rating in amperes for 60 Sec 3 X unit rating in amperes for 30 Sec 4 X unit rating in amperes for 10 Sec 4.5 X unit rating in amperes for 5 Sec
Starts Per Hour	12 evenly spaced starts per hour at the Starting Duty
Starting Torque	9-49 % of the DOL starting torque
Current Limit	30 % DOL current for 60 Sec 40 % DOL current for 30 Sec 50 % DOL current for 10 Sec 70 % DOL current for 5 Sec
Semiconductor Fuses	Standard on units > 132 amp
Fault Detection	Shut down for loss of phase and short-circuit of Thyristors, indication on LED
Cooling	Naturally cooled < 39 amps, force cooled > 53 amps
Relays	Run, fault/top of ramp
Relay Contact Rating	1.2 KVA, 250 C AX Max
LED Indication	System Run, fault, Power On, Start/Ramp Up, Bypass
Control Circuitry	High frequency Microcontroller for controller

Block Diagram