The DXT Series Specifications

Medium voltage features in a low voltage starter design

by MOTORTRONICS

Acceleration Adjustments

Ramp types	Voltage ramp or current ramp
Starting torque	0 - 100% of line voltage or 0 - 600% of FLA
Ramp time	1 to 120 seconds
Current limit	200 - 600%

Dual Ramp Settings*

Four (4) programmable ramp options

Deceleration Adjustments

Begin decel level	0 - 100% of line voltage
Stop level	0 to 1% less than begin decel
Decel time	1 - 60 seconds

Jog Settings*

Voltage jog	5 - 100%

* Separate external control inputs

Kick Start Settings

Kick Voltaqe	10 - 100%
Kick start time	0.1 - 2 seconds

Programmable Output Relays

4 relays; 1 Form C (DPDT), 3 Form A (SPST NO)
5A 240VAC max. (1200VA),
Individually programmable to 19 functions

Protection

Start & Run Protection

Two programmable overload trip curves allow for the thermal capacity required to start the load while providing motor overload protection needed during the run time.

Start:	Programmable for Class 5 - 30
Run:	Programmable for Class 5 - 30, enabled when starter detects motor is "At-Speed"
Reset:	Manual or automatic, selectable via programming

The ***DXT Series*** recognizes motor cool-down rates are a function of the run time and that sometimes a motor will cool faster if allowed to run.

Retentive Thermal Memory — Overload circuit retains thermal condition of the motor regardless of control power status. Unit uses real time clock to adjust for off time.

Dynamic Reset Capacity — Overload will not reset until thermal capacity in the motor is sufficient for a successful restart. Starter learns and retains this information from previous starts.

Phase Current Imbalance/Loss Protection

Imbalance trip level	5 - 30% current between any two phases
Imbalance trip delay	1 - 20 seconds

Electronic Shear Pin Protection

Shear pin trip level	100 - 300% of motor FLA
Shear pin trip delay	1 - 20 seconds

Load Loss Trip Protection

Under current trip level	10 - 90% of motor FLA
Under current trip delay	1 - 60 seconds

Coast Down (Back Spin) Lockout Timer

Coast down time	1 - 60 minutes

Starts-per-Hour Lockout Timer

Starts-per-hour	1 - 10 successful starts per hour
Time between starts	1 - 60 min. between start attempts

Event History — Up to 60 events; data includes event, time, date and current for each phase and ground fault current at time of event

Options

Ground Fault	Residual or Zero Sequence
RTD Inputs	Up to 12 RTD's of any type with biasing or override protection curve

Metering Functions

Motor Load	Percent of FLA
Current Data	A, B, C Phase Current, Avg Current, Ground Fault
Thermal Data	Remaining thermal register; thermal capacity to start
Start Data	Avg Start time, Avg Start Current, Measured Capacity to start, time since last start
RTD Data (Option)	Temperature readings from up to 12 RTDs (6 stator RTDs)
Voltage Metering	V, KW, KVAR, PF, KWH, Demand