

Medium Voltage Starter Sales Checklist

Note: Items marked with * are mandatory fields.

*Project Name and/or End-User: _____

*Contact Name: _____ *Phone Number: _____ *Email: _____

*Project Type: Budgetary Funded Est. Installation Timeframe: _____

*Specifications: Yes No Competitors: _____

SECTION A – Starter Application:

*Type of application (load) _____

Present starting method: Across the Line Wye-Delta Auto Transformer
 Other: _____

Starts / Stops per day: 1-5 6 -10 11-15 16-20 Over 20 _____
 (please specify)

Current Acceleration Time 1-5 seconds 6-10 seconds 11-15 seconds
 16-20 seconds >20 seconds _____
 (please specify)

Current Deceleration Time (if applicable) 1-5 seconds 6-10 seconds 11-15 seconds
 16-20 seconds > 20 seconds _____
 (please specify)

Input Power Source
 Utility (Transformer feed capacity – kVA) _____
 Generator (generator kW rating) _____

Type
 Delta Wye
 3-wire 4-wire

Grounding
 Delta, Corner Grounded Solid Ground Ungrounded
 High resistance ground

Distance from line to starter: < 250 ft. 251 - 500 ft. 501 - 750 ft.

> 750 ft. _____
(please specify)

Distance from starter to motor: < 250 ft. 251-500 ft. 501-750 ft.

> 750 ft. _____
(please specify)

Size & Quantity of Conductors: Line side **size:** _____ Line side **quantity:** _____ per phase

Load side **size:** _____ Load side **quantity:** _____ per phase

Conductor type: Shielded Non-Shielded

SECTION B - Motor Data:

***Type of motor:** Induction Synchronous Wound Rotor

(If Synchronous or Wound Rotor, see Section "E" or "F" for additional questions.)

***Horsepower:** _____ (HP) ***Motor voltage:** _____ (VAC) ***Motor Frequency:** _____ (Hz)

FLA: _____ **Service Factor:** _____ **Motor LRA:** _____ **Motor Speed:** _____ (RPM)

NEMA Design: A B C D E

SECTION C - Enclosure / Environment Data:

***Expected ambient temperature:** Minimum: _____ Maximum: _____
(Space Heater required if less than 0°C)

Space heater: Yes No **Physical Location:** Indoor Outdoor

Size limitations (if any): _____ "H x _____ "W x _____ "D

***Altitude:** Up to 3,300ft. Above 3,300ft. _____
(please specify)

Unusual Ambient Conditions (if any): _____
 (describe)

Color: ANSI 61 Grey
 (standard) Other: _____
 (please specify)

Cable Entry location: Top Bottom
 (standard) **Cable Exit location:** Top Bottom
 (standard)

Horizontal Bus: NONE
 (standard) 800A 1200A 2000A

Bus Insulation: Yes (price adder) No
 (standard)

***NEMA Enclosure Type:** 1 3R 12
 (standard) Other: _____
 (please specify)

SECTION D - Miscellaneous:

***Disconnect:** Fusible Disconnect Non-fused Disconnect None

Starting Method: Keypad
 (standard) 2-Wire Control 3-Wire Control Other: _____
 (please specify)

***Across-The-Line Starting Option:** Yes No
 (standard)

***Will any of the following be present?:**

Power Factor Correction Capacitors

Note: PFCC must be located on the Line side of the Starter and must be isolated from the line during starting.

Lightning Arrestors

Note: May be placed on either the Line or Load side of the Starter.

Surge Capacitors

Note: Must be at the motor terminals and must be isolated during starting to prevent Starter damage.

SECTION E – Synchronous Motor Data: *(Required only for synchronous motors)*

Normal Field Current: _____ (ADC)

Max Field Current: _____ (ADC)

Field Discharge Resistor Rating: _____ (Ω)

Synchronous Motor Field Voltage: _____ (VDC)

SECTION F – Wound Rotor Motor Data: *(Required only for synchronous motors)*



Wound Rotor Motor: Starting Duty Resistor Continuous (Running) Duty Resistor

Quantity of steps/resistance: _____ **Present number of steps:** _____

Secondary Voltage: _____ (VAC) **Secondary Current:** _____ (amps)

Additional information: _____

SECTION G – Additional Modifications, Accessories and/or Information: _____

Customer Contact Name _____

Customer's Company _____

Date _____