



ADVANCE CONTROLS, INC

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WORKSHEET

For Quoting ACI HVAC Motor Starters

Quoting ACI Starters, Combination Starters & Disconnects has never been easier – just follow the steps:

1. If there is any question concerning EXACTLY what is required, contact ACI and we will step you through the process to quote the proper starter.
2. Fax, e-mail or call ACI with the Project Equipment Schedule, Pump Schedule, Cooling Tower requirements or any other Motor Control Specifications for your Fans, Pumps, Air Handlers, etc.
3. Please indicate specific date when you need the quotation: i.e., "this Friday, 11/4, in the morning", etc.
4. Indicate if Submittals, Drawings, etc. are needed at the time of quotation.
5. Please indicate if there is a Job Name or some other means of identifying the Project.
6. If there are any questions concerning what is needed to complete the quotation, ACI will contact you for any additional information.
7. If you do not have an Equipment Schedule and / or Specifications, please provide the following data: (Please circle/indicate information and send to ACI).

TYPES OF MOTOR STARTERS AVAILABLE

The following is a list of commonly available types of Motor Starters. This WORKSHEET is designed to describe ONE Starter for ONE Motor, mounted in ONE Enclosure. If your application requires more than ONE Starter to be mounted within ONE Enclosure, ACI must have the same information for EACH of the Motor Starters that are to be included within the ONE Enclosure.

- a. NON REVERSING STARTER
The MOTOR can rotate in only ONE direction. The Controls have NO provision for reverse rotation.
- b. REVERSING STARTER
The MOTOR can rotate in EITHER direction. The Controls will select the rotation direction.
- c. MOTOR STARTER – SINGLE SPEED MOTOR:
Contactor, Overload and Controls mounted in an Enclosure.
- d. MOTOR STARTER – TWO SPEED - ONE WINDING MOTOR:
3 Contactors, 2 Overloads, Mechanical Interlock and Controls mounted in an Enclosure.
- e. MOTOR STARTER – TWO SPEED - TWO WINDING MOTOR:
2 Contactors, 2 Overloads, Mechanical Interlock and Controls mounted in an Enclosure.
- f. MOTOR STARTER – WYE / DELTA MOTOR:
3 Contactors, 1 Overload, Mechanical Interlock, Switchover Timer and Controls mounted in an Enclosure.
- g. MOTOR STARTER - NON FUSED COMBINATION TYPE
Includes ALL of the items shown above for the specific type of Starter needed;
PLUS the ADDITION of a Motor Disconnect Switch and Through the Door Handle Assembly mounted in the Enclosure.
- h. MOTOR STARTER - FUSED COMBINATION TYPE
Includes ALL of the items shown above for the specific type of Starter needed;
PLUS the ADDITION of a Motor Disconnect Switch, Through the Door Handle Assembly and Fuse Block mounted in the Enclosure – NOTE: Motor Fuses are NOT INCLUDED. Fuses will be quoted as a separate item.
- i. MOTOR STARTER - CIRCUIT BREAKER COMBINATION TYPE
Includes ALL of the items shown above for the specific type of Starter needed;
PLUS the ADDITION of a Motor Circuit Breaker and Through the Door Handle Assembly mounted in the Enclosure.

WORKSHEET for Quoting ACI HVAC Motor Starters (cont)

TYPE OF MOTOR STARTER REQUIRED (Place an X in the box)

- MOTOR STARTER – SINGLE SPEED MOTOR
- MOTOR STARTER – TWO SPEED ONE WINDING MOTOR
- MOTOR STARTER – TWO SPEED TWO WINDING MOTOR
- MOTOR STARTER – WYE / DELTA MOTOR
- MOTOR STARTER - NON FUSED COMBINATION TYPE
- MOTOR STARTER - FUSED COMBINATION TYPE
- MOTOR STARTER - CIRCUIT BREAKER TYPE

NON REVERSING	REVERSING

MOTOR DATA (Circle the needed item)

Motor Horsepower _____

Motor Voltage (Circle the Phase / Voltage):

Single Phase	120 Volt	200/208 Volt	230 Volt		
Three Phase		200/208 Volt	230 Volt	460 Volt	575 Volt

CONTROLS (Circle the needed item)

CONTROL POWER

External Source? If so, circle Control Voltage =	24 VAC	120 VAC
Internal Source (Control Transformer)? If so, circle Control Voltage =	24 VAC	120 VAC
(Fused Control Transformer Secondary is STANDARD)		
Fused Transformer Primary Required?	YES	NO

CONTROL ITEMS (Circle the needed item)

Pilot Light(s)?	YES	NO			
If YES, specify:					
Color:	RED	GREEN	YELLOW	BLUE	WHITE
Function:	_____				
Legend Marking:	_____				
HOA (Hand-Off-Auto) Selector Switch (2 point Terminal Block included)?	YES	NO			
Other Types of Selector Switches needed?	YES	NO			
If YES, specify:					
Number of switch positions:	2 POS	3 POS			
Function:	_____				
Legend Marking:	_____				

START / STOP Push Buttons?	INDIVIDUAL BUTTONS	
	DUAL START/STOP	
	BOOTED DUAL START/STOP	
Phase/Voltage Monitor?	YES	NO
Additional Auxiliary Contacts are available (specify type and number):	N.O. ___	N.C. ___
1 Normally Open (N.O.) is standard (N.O. = Normally OPEN N.C. = Normally CLOSED)		
Do you need the Auxiliary Contacts wired to a Terminal Strip?	YES	NO

ENCLOSURE (Circle the needed item)

Indoor Use?	TYPE 1	TYPE 12	TYPE 4	TYPE 4X	TYPE 4X STAINLESS
Outdoor Use?	TYPE 3R		TYPE 4	TYPE 4X	TYPE 4X STAINLESS

The "X" indicates Corrosion Resistant

NOTE: the LOWEST Environmental Rating of either the Enclosure or the Wiring Connector dictates the final Environmental Rating of the Motor Starter Enclosure. Example: If the Enclosure Environmental Rating is Type 12 and the Wiring Connector Environmental Rating is Type 1, the final Motor Starter Environmental Rating then becomes Type 1

APPROVALS (Circle the needed item)

All Motor Starters are assembled using UL Approved Components. As an ADDITIONAL COST - FACTORY ONLY OPTION, Advance Controls can also UL List the Motor Starter as a COMPLETE STARTER PANEL ASSEMBLY.

Do you require a UL Label for the COMPLETE STARTER PANEL ASSEMBLY? YES NO