

Medium Voltage Adjustable Speed Drives

Related Services

Medium Voltage Worksheet

MEDIUM VOLTAGE WORKSHEET

Specification for Procurement 2400/3300/4160/6600/6900 VAC Adjustable Speed Drive

PROJECT REFERENCE:		R.F.Q. REFERENCE	
SPEC. REFERENCE		DATE	

MOTOR DATA

HP/kW	
New/Existing	
Voltage (Volts)	
FLA (Amps)	
Speed (RPM)	
Motor Lead Length (Ft)	
Service Factor	
Space Heater (Volts/Watts)	
RTD (Make/Qty)	
Inverter-Duty	<input type="checkbox"/> Yes <input type="checkbox"/> No
Encoder	

LOAD TYPE

Variable Torque	<input type="checkbox"/>
Constant Torque	<input type="checkbox"/>
Regeneration	<input type="checkbox"/>
Fan/Pump	
Other	
Speed Range	Hz to Hz

BREAKAWAY TORQUE

0 to 100%	<input type="checkbox"/>
101 to 150%	<input type="checkbox"/>

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ENVIRONMENT

Control Room Max. Ambient	°C	
Control Room Min. Ambient	°C	
Elevation	Meters ASL	
Humidity Non-condensing	%	
Adjustable Speed Drive Cabinet Space Heater	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Adjustable Speed Drive Cabinet Space Heater Test Circuit	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Motor Space Heater Circuit (Externally Powered)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Motor Cabinet Space Heater Test Circuit	<input type="checkbox"/> Yes	<input type="checkbox"/> No

DESIGN STANDARDS

ENCLOSURE

UL	<input type="checkbox"/>		NEMA 1	
cUL	<input type="checkbox"/>		NEMA 3R	
IEEE 519	<input type="checkbox"/>		Electrical House	<input type="checkbox"/>
Other				

SPEED REGULATION

0.5%, Without Tachometer	<input type="checkbox"/>
0.1% With Tachometer	<input type="checkbox"/>
Other	
Motoring	<input type="checkbox"/>
Volts/Hz Speed Control	<input type="checkbox"/>
Closed Loop Vector Control	<input type="checkbox"/>
Master Follower	
Speed Regulation without Encoder/ Resolver	
Speed Regulation with Encoder/Resolver	

SUPPLY SYSTEM VOLTAGE (± 10%)

2400 V			
3300 V			
4160 V	<input type="checkbox"/>		
6600 V	<input type="checkbox"/>		
6900 V	<input type="checkbox"/>		
Other _____ V	<input type="checkbox"/>		
Line Frequency	<input type="checkbox"/> 60 Hz	<input type="checkbox"/> 50 Hz	

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CABLE

Power Cable Entry	<input type="checkbox"/> TOP	<input type="checkbox"/> BOTTOM
Power Cable Exit	<input type="checkbox"/> TOP	<input type="checkbox"/> BOTTOM
Control Cable Entry	<input type="checkbox"/> TOP	<input type="checkbox"/> BOTTOM
Control Cable Exit	<input type="checkbox"/> TOP	<input type="checkbox"/> BOTTOM

OPTIONS

SUPERIOR Key Interlocks	<input type="checkbox"/>		
KIRK Key Interlocks	<input type="checkbox"/>		
Relay Outputs 115 V, 2 A, Form-C	<input type="checkbox"/>		
24 VDC Power Supply	<input type="checkbox"/>		
4 to 20 mA Isolated Analog Outputs	<input type="checkbox"/> Speed	<input type="checkbox"/> Current	<input type="checkbox"/> Voltage
	<input type="checkbox"/> Load	<input type="checkbox"/> Other	
Control Power Backup 1 KVA, 120 V, Toshiba UPS	<input type="checkbox"/>		
Control Power Backup 1 KVA, 120 V, By Others	<input type="checkbox"/>		
Auxiliary Pilot Lights	<input type="checkbox"/>		
Auxiliary Pilot Lights Type	<input type="checkbox"/>		
Auxiliary Push Buttons	<input type="checkbox"/>		
Auxiliary Push Buttons Type	<input type="checkbox"/>		
Redundant Fan (3,460 V)	<input type="checkbox"/>		
Additional Controls (Please Attach Control Schematic)	<input type="checkbox"/>		
	<input type="checkbox"/>		

AUXILIARY EQUIPMENT

Bypass Starter	
Across The Line	<input type="checkbox"/>
RVAT	<input type="checkbox"/>
Solid State Starter	<input type="checkbox"/>
Synchronous Transfer	<input type="checkbox"/>
Number of Motors	
Indoor Rated Sync.Transfer (GEAR)	
Outdoor Rated Sync.Transfer (GEAR)	
Gear Supplied by Others	

COMMUNICATION OPTIONS

TOSLINE S20	<input type="checkbox"/>
DeviceNET	<input type="checkbox"/>
ProfiBus	<input type="checkbox"/>
Ethernet	<input type="checkbox"/>
ModBus RTU/PLUS	<input type="checkbox"/>
Other	

MOTOR PROTECTION

TE-RTD12	<input type="checkbox"/>
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MULTILIN 369	<input type="checkbox"/>
MULTILIN 869	<input type="checkbox"/>
SEL 710-5	<input type="checkbox"/>
SEL 710-5 with RTD inputs	<input type="checkbox"/>
RTD TYPE	<input type="checkbox"/>

SERVICES

Startup (Included in Price of Unit)	<input type="checkbox"/>
Onsite Factory Training Testing	<input type="checkbox"/>
Factory Training Houston	<input type="checkbox"/>

SPARES

Spare Parts Kit	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Spare Power Module	<input type="checkbox"/> Yes	<input type="checkbox"/> No

SOFTWARE

PC Interface Software	<input type="checkbox"/> Yes	<input type="checkbox"/> No
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TESTING

Witness Test – QC Runback	<input type="checkbox"/>
Witness Test – Dynamometer (Upto 1250 HP)	<input type="checkbox"/>
Adjustable Speed Drive/Motor Combined Test at Motor Vendor's Facility	<input type="checkbox"/>

ADDITIONAL REQUIREMENTS
