

Vendor Confirmation for Technical Specifications

SL.No	Item Details and Technical Specifications	Qty Nos	Vendor Remarks/confirmation
1.	22kW Drive with Profibus communication No of Phases: 3-ph AC Input Line voltage: 380 to 480 V $\pm 10\%$ Line frequency: 47 to 63 Hz Rated current (LO): 59A Rated current (HO): 43A Output Rated voltage: 480 V Rated power (LO): 30kW/40hp Rated power (HO): 22kW/30hp Rated current (LO): 62A Rated current (HO): 45A Pulse Frequency: 4000Hz Digital Input: 6 Relay Output: 3 Analog Input: 2 Analog Output: 2 Output frequency for V/F control: 0 to 650Hz Overload: 150% output current for 60s, followed by 100% output current for 240s in a 300s cycle time Dimensions Width: 275mm Height: 520mm Depth: 245mm Power factor: 0.95 Efficiency: 0.96 Cooling: Fan Ambient Temperature Operation (LO): -10 to 40 °C Operation (HO): -10 to 50 °C Communication: Profibus Motor compatibility: 3ph Induction Motor Note: 1. Drive should be compatible with Profibus communication module (Model: 6SE6400-1PB00-0AA0, Make: Siemens) 2. Drive shall be supplied with suitable Profibus Communication Module installed 3. Vendor to ensure compatibility with the existing systems here. Vendor shall prove-out integration of the supplied model in case it is different from the reference model. Reference Make and Model: Siemens MicroMaster440 (Part No: 6SE6440-2AD32-2DA1)	1	
2.	45A Single Motor Servo Module No of Phases: 3-ph AC Output current Rated current (In): 45A Base-load current (IH): 38A Intermittent duty current (Is6) 40%: 60A Peak current (Imax): 85A	1	

	Output voltage: 400V DC link voltage: DC 510 to 720V DC-link current Id max: 54A DC-link capacitance: 1175uF Current demand max.: 1.20A Rated current value: IN 45A Output frequency for V/f control, servo & vector control: 0 to 600Hz Overvoltage trip : 820 ± 2% Under voltage trip: 380 ± 2% Current carrying capacity DC-link busbars: 200A 24 VDC busbars: 20A Unit Power rating Based on In (600 VDC; 4 kHz): 24kW Based on IH: 21kW Max. pulse frequency without derating: 4kHz with derating: 16kHz Cooling method (with fan): Internal air cooling Max. ambient temperature without derating: 40°C with derating: 55°C Max. permissible heat sink temperature: 85°C Weight: 9kg Communication: LAN Motor compatibility: 3ph Induction Motor Note: 1. Drive should be compatible with Siemens Simotion D435 motion controller (Model: 6AU1435-0AA00-0AA1) 2. Vendor to ensure compatibility with the existing systems here. Vendor shall prove-out integration of the supplied model in case it is different from the reference model. Reference Make and Model: Siemens Sinamics (Part No: 6SL3120-1TE24-5AA3)		
3.	Profibus Communication Module for Drive Application: The PROFIBUS-DP communication board is to provide a PROFIBUS-DP-based link between drives of the Siemens MICROMASTER 4 product range and higher-level automation systems. Dimensions: 161 mm x 73 mm x 43.5 mm Climate class: Class 3K3 to DIN IEC 60 721-3-3 (in operation) Cooling method: Natural air cooling Supply voltage: 6.5V ± 5%, max. 300mA, internal from basic inverter or 24V ± 10%, max. 350mA, from external source Output voltage: 5V ± 10%, max. 100mA, electrically isolated supply Data transmission rate: Max. 12 MBaud Relative humidity: < 85 % during operation (condensation not permissible) Permissible ambient temperature: -10° C to +50° C Note: The communication module shall be compatible with 22kW spindle drive of item 10 and also with other drives of Siemens	1	

	MICROMASTER 4 product range and higher-level automation systems like Siemens S7 series Reference Make and Model: Siemens 6SE6400-1PB00-0AA0 Note: 1. Vendor to ensure compatibility with the existing systems here. Vendor shall prove-out integration of the supplied model in case it is different from the reference model.		
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Vendor Seal & Sign