

ADJUSTABLE SPEED DRIVE CHECKLIST

The following lists information needed to evaluate whether the motor system is a suitable candidate for adjustable speed drives.

Pump Fan Compressor Other:
 Manufacturer: Model: Rated power (hp):
 Temperature Min: Max: Speed (rpm): Feedback control:
 Torque: Fixed Variable Fixed Power Design pressure: Design flow:
 Variable controlled: Speed/torque requirements:
 Process requires precise control: Yes No Reliability req'd: Low Medium High
 Schematic available: Yes No Total operating hours: Flow tolerance:
 Pressure Tolerance: Specific gravity: Turn-down ratio:

Operating Points (Consult manufacturers' specification for power and speed data)

% FULL LOAD	HOURS	MACHINE RPM SPEED	MOTOR VOLTS	MOTOR AMP	POWER KW	AVERAGE COST

Motor Data Supplier:
 Manufacturer: Serial Number: Model:
 Size (hp): NEMA Type: Frequency (Hz): Capacitors close: Yes No
 Clean Dusty Acidic Ambient temp.: Enclosure type: Speed (rpm)
 Voltage (V): FLA: Efficiency (%): Total operating (hrs):

Monitoring and Control Supplier:
 Electrical bypass: Yes No Max. fault level: Yes No
 Auto restart: Yes No Fault diagnostics: Yes No Fused inputs: Yes No
 Power dip thru: Yes No Adjust accel/deccl.: Yes No

Harmonics Supplier:
 Non-linear load: Less than 20% Greater than 20% Specify:%
 ASD on separate circuit: Yes No Level of protection required: Low Med. High
 Drive protection used: Reactors Filters Isolation transformer

The information Checklist catalogues important information about equipment operation and its operation specifications. This information when used with the equipment evaluation criteria helps to identify the best candidates for efficiency gains, propose changes to the purchase specification, modify maintenance procedures and optimize equipment operation.