



Variable Speed Drive (VSD / Inverter) Maintenance Checklist

10 planned preventive maintenance tasks · Free PDF from PM Assist

A practical starting point for planned preventive maintenance. Always refer to the manufacturer's O&M manual and site-specific requirements.

Visual Checks

- ☐ Check terminations for tightness and signs of heat or discoloration
- ☐ Inspect for capacitor bulging or electrolyte signs on older drives

Functional Checks

- ☐ Review the fault and event log for trips, warnings, and recurring issues
- ☐ Confirm the panel/enclosure ambient temperature is within the drive's rating
- ☐ Verify the drive follows the speed command and current is normal at duty
- ☐ Check motor cable insulation and gland integrity (screened cable, earthing)
- ☐ Confirm bypass arrangement (if fitted) operates correctly

Cleaning & Housekeeping

- ☐ Check the drive's cooling fans and heatsink, and clean filters and vents

Record Keeping

- ☐ Confirm parameters/configuration match commissioning and are backed up
- ☐ Record fault log, parameters, temperatures, and remedial work

Maintenance Frequency

Quarterly

- Clean cooling fans and filters
- Review fault log
- Check panel temperature

Annually

- Thermographic/termination check
- Parameter backup and review
- Capacitor and cooling assessment
- Motor cable insulation check