

# Altivar 32

This document gives the mean time to failure (MTTF) values of Altivar 32 variable speed drives.

## MTTF based on IEC 62380

Altivar 312 MTTF values are based on IEC 62380.

These MTTF values are given for an external temperature of 30°C during operation.

The fan is an aging part to replace in maintenance. Hence the fan is not taken into account in these MTTF values.

Commercial references	Fan	MTTF values for intermittent operation <sup>(1)</sup>	MTTF values for continuous operation
ATV32H018M2 ATV32H037M2 ATV32H055M2 ATV32H075M2	Yes	190 000 hours	115 000 hours
ATV32HU11M2 ATV32HU15M2 ATV32HU22M2	Yes	190 000 hours	115 000 hours
ATV32H037N4 ATV32H055N4 ATV32H075N4 ATV32HU11N4 ATV32HU15N4	Yes	195 000 hours	115 000 hours
ATV32HU22N4 ATV32HU30N4 ATV32HU40N4	Yes	195 000 hours	115 000 hours
ATV32HU55N4 ATV32HU75N4	Yes	75 000 hours	50 000 hours
ATV32HD11N4 ATV32HD15N4	Yes	75 000 hours	50 000 hours

(1) Intermittent operation is 4020 operating hours per year and 335 power on/off per year

## MTTF based on field experience

Altivar MTTF values are between 1 000 000 and 3 000 000 hours.

### Remark

MTTF, Mean Time To Failure, in hours, it is the average of the time before failure

MTBF = Mean Time Between 2 Failures = MTTF + MTTR

MTTR = Mean Time To Repair, Average time to repair a drive