

Altivar Process

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

Altivar Process MTTF values are based on IEC 62380.

These MTTF values are given for an external temperature of 50°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.

Altivar 630/650:

Commercial references	MTTF values for continuous operation	MTTF values for intermittent operation ⁽¹⁾
ATV630U07M3 ATV630U15M3 ATV630U22M3 ATV630U30M3 ATV630U40M3	60 000 hours	98 000 hours
ATV630U55M3	59 000 hours	96 000 hours
ATV630U75M3 ATV630D11M3	54 000 hours	86 000 hours
ATV630D15M3 ATV630D18M3 ATV630D22M3	49 000 hours	78 000 hours
ATV630D30M3 ATV630D37M3 ATV630D45M3	49 000 hours	77 000 hours
ATV630D55M3 ATV630D75M3	37 000 hours	59 000 hours
ATV630U07N4 / ATV650U07N4. ATV630U15N4 / ATV650U15N4. ATV630U22N4 / ATV650U22N4. ATV630U30N4 / ATV650U30N4. ATV630U40N4 / ATV650U40N4. ATV630U55N4 / ATV650U55N4.	60 000 hours	98 000 hours
ATV630U75N4 / ATV650U75N4. ATV630D11N4 / ATV650D11N4.	59 000 hours	95 000 hours
ATV630D15N4 / ATV650D15N4. ATV630D18N4 / ATV650D18N4. ATV630D22N4 / ATV650D22N4.	54 000 hours	86 000 hours
ATV630D30N4 / ATV650D30N4. ATV630D37N4 / ATV650D37N4. ATV630D45N4 / ATV650D45N4.	47 000 hours	73 000 hours
ATV630D55N4 / ATV650D55N4. ATV630D75N4 / ATV650D75N4. ATV630D90N4 / ATV650D90N4.	47 000 hours	75 000 hours
ATV630C11N4 ATV630C13N4 ATV630C16N4	37 000 hours	58 000 hours

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

Commercial references	MTTF values for continuous operation	MTTF values for intermittent operation (1)
ATV630C22N4 ATV630C25N4 ATV630C31N4	29 000 hours	44 000 hours
ATV630U22S6X ATV630U40S6X ATV630U55S6X ATV630U75S6X ATV630D11S6X ATV630D15S6X	60 000 hours	97 000 hours
ATV630D18S6 ATV630D22S6	49 000 hours	78 000 hours
ATV630D30S6 ATV630D37S6 ATV630D45S6 ATV630D55S6 ATV630D75S6	49 000 hours	77 000 hours
ATV630U22Y6 ATV630U30Y6 ATV630U40Y6 ATV630U55Y6 ATV630U75Y6 ATV630D11Y6 ATV630D15Y6 ATV630D18Y6 ATV630D22Y6 ATV630D30Y6	49 000 hours	78 000 hours
ATV630D37Y6 ATV630D45Y6 ATV630D55Y6 ATV630D75Y6 ATV630D90Y6	49 000 hours	77 000 hours

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

Altivar 930/950:

Commercial references	MTTF values for continuous operation	MTTF values for intermittent operation (1)
ATV930U07M3 ATV930U15M3 ATV930U22M3 ATV930U30M3 ATV930U40M3	53 000 hours	85 000 hours
ATV930U55M3	52 000 hours	83 000 hours
ATV930U75M3 ATV930D11M3	48 000 hours	76 000 hours
ATV930D15M3 ATV930D18M3 ATV930D22M3	44 000 hours	69 000 hours
ATV930D30M3. ATV930D37M3. ATV930D45M3.	44 000 hours	68 000 hours
ATV930D55M3C ATV930D75M3C	35 000 hours	55 000 hours

ATV930U07N4 / ATV950U07N4. ATV930U15N4 / ATV950U15N4. ATV930U22N4 / ATV950U22N4. ATV930U30N4 / ATV950U30N4. ATV930U40N4 / ATV950U40N4. ATV930U55N4 / ATV950U55N4.	53 000 hours	85 000 hours
ATV930U75N4 / ATV950U75N4. ATV930D11N4 / ATV950D11N4.	52 000 hours	82 000 hours
ATV930D15N4 / ATV950D15N4. ATV930D18N4 / ATV950D18N4. ATV930D22N4 / ATV950D22N4.	48 000 hours	75 000 hours
ATV930D30N4 / ATV950D30N4. ATV930D37N4 / ATV950D37N4. ATV930D45N4 / ATV950D45N4.	43 000 hours	65 000 hours
ATV930D55N4. / ATV950D55N4. ATV930D75N4. / ATV950D75N4. ATV930D90N4. / ATV950D90N4.	43 000 hours	66 000 hours
ATV930C11N4C ATV930C13N4C ATV930C16N4C	35 000 hours	55 000 hours
ATV930C22N4. ATV930C25N4C ATV930C31N4C	27 000 hours	41 000 hours
ATV930U22S6X ATV930U40S6X ATV930U55S6X ATV930U75S6X ATV930D11S6X ATV930D15S6X	52 000 hours	83 000 hours
ATV930D18S6 ATV930D22S6	43 000 hours	68 000 hours
ATV930D30S6 ATV930D37S6 ATV930D45S6 ATV930D55S6 ATV930D75S6	43 000 hours	67 000 hours
ATV930U22Y6 ATV930U30Y6 ATV930U40Y6 ATV930U55Y6 ATV930U75Y6 ATV930D11Y6 ATV930D15Y6 ATV930D18Y6 ATV930D22Y6 ATV930D30Y6	43 000 hours	68 000 hours
ATV930D37Y6 ATV930D45Y6 ATV930D55Y6 ATV930D75Y6 ATV930D90Y6	43 000 hours	67 000 hours

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

For a different value of external temperature during operation, the MTTF value is given by the following table :

