

Altivar Process

This document gives the value of leakage current of Altivar 630/650/930/950 variable speed drives.

The leakage current values are given for a Star mains network (TT/TN) at 3% unbalance between phases at maximum voltage and worst case tolerance of internal components, IT jumper being all closed.

In case of Star mains network (TT/TN) with IT jumper being all open or Delta mains network (IT/Corner-Grounded) where it is mandatory to open all IT jumpers, leakage current is null.

Leakage currents are sometimes shared in 2 values with different frequency. Values cannot be strictly added but both act together in Residual Current Device tripping.

Commercial references	Mains network 200-240V/50-60Hz
	Leakage current
	@50-60Hz
ATV630U07M3 / ATV930U07M3	0.7 mA
ATV630U15M3 / ATV930U15M3	0.7 mA
ATV630U22M3 / ATV930U22M3	0.7 mA
ATV630U30M3 / ATV930U30M3	0.7 mA
ATV630U40M3 / ATV930U40M3	0.7 mA
ATV630U55M3 / ATV930U55M3	0.4 mA
ATV630U75M3 / ATV930U75M3	0.4 mA
ATV630D11M3 / ATV930D11M3	0.4 mA
ATV630D15M3 / ATV930D15M3	0 mA
ATV630D18M3 / ATV930D18M3	0 mA
ATV630D22M3 / ATV930D22M3.	0 mA
ATV630D30M3 / ATV930D30M3.	0 mA
ATV630D37M3 / ATV930D37M3.	0 mA
ATV630D45M3 / ATV930D45M3C	0 mA
ATV630D55M3 / ATV930D55M3C	0 mA
ATV630D75M3 / ATV930D75M3C	0 mA

Commercial references	Mains network 400-480V/50Hz	
	Leakage current	
	@50Hz	@300Hz
ATV630U07N4 / ATV650U07N4. / ATV930U07N4 / ATV950U07N4.	0 mA	80 mA
ATV630U15N4 / ATV650U15N4. / ATV930U15N4 / ATV950U15N4.	0 mA	80 mA
ATV630U22N4 / ATV650U22N4. / ATV930U22N4 / ATV950U22N4.	7 mA	80 mA
ATV630U30N4 / ATV650U30N4. / ATV930U30N4 / ATV950U30N4.	7 mA	80 mA
ATV630U40N4 / ATV650U40N4. / ATV930U40N4 / ATV950U40N4.	7 mA	80 mA
ATV630U55N4 / ATV650U55N4. / ATV930U55N4 / ATV950U55N4.	7 mA	80 mA
ATV630U75N4 / ATV650U75N4. / ATV930U75N4 / ATV950U75N4.	5.6 mA	80 mA
ATV630D11N4 / ATV650D11N4. / ATV930D11N4 / ATV950D11N4.	5.6 mA	80 mA
ATV630D15N4 / ATV650D15N4. / ATV930D15N4 / ATV950D15N4.	5.6 mA	80 mA
ATV630D18N4 / ATV650D18N4. / ATV930D18N4 / ATV950D18N4.	5.6 mA	80 mA
ATV630D22N4 / ATV650D22N4. / ATV930D22N4 / ATV950D22N4.	5.6 mA	80 mA
ATV630D30N4 / ATV650D30N4. / ATV930D30N4 / ATV950D30N4.	5.8 mA	133 mA
ATV630D37N4 / ATV650D37N4. / ATV930D37N4 / ATV950D37N4.	5.8 mA	133 mA
ATV630D45N4 / ATV650D45N4. / ATV930D45N4 / ATV950D45N4.	5.8 mA	133 mA
ATV630D55N4 / ATV650D55N4. / ATV930D55N4. / ATV950D55N4.	3.9 mA	0 mA
ATV630D75N4 / ATV650D75N4. / ATV930D75N4. / ATV950D75N4.	3.9 mA	0 mA
ATV630D90N4 / ATV650D90N4. / ATV930D90N4. / ATV950D90N4.	3.9 mA	0 mA
ATV630C11N4 / ATV930C11N4C	0.1 mA	0 mA
ATV630C13N4 / ATV930C13N4C	0.1 mA	0 mA
ATV630C16N4 / ATV930C16N4C	0.1 mA	0 mA
ATV630C22N4 / ATV930C22N4.	0.1 mA	0 mA
ATV630C25N4 / ATV930C25N4C	0.1 mA	0 mA
ATV630C31N4 / ATV930C31N4C	0.1 mA	0 mA

Commercial references	Mains network 400-480V/60Hz	
	Leakage current	
	@60Hz	@360Hz
ATV630U07N4 / ATV650U07N4. / ATV930U07N4 / ATV950U07N4.	0 mA	96 mA
ATV630U15N4 / ATV650U15N4. / ATV930U15N4 / ATV950U15N4.	0 mA	96 mA
ATV630U22N4 / ATV650U22N4. / ATV930U22N4 / ATV950U22N4.	8.4 mA	96 mA
ATV630U30N4 / ATV650U30N4. / ATV930U30N4 / ATV950U30N4.	8.4 mA	96 mA
ATV630U40N4 / ATV650U40N4. / ATV930U40N4 / ATV950U40N4.	8.4 mA	96 mA
ATV630U55N4 / ATV650U55N4. / ATV930U55N4 / ATV950U55N4.	8.4 mA	96 mA
ATV630U75N4 / ATV650U75N4. / ATV930U75N4 / ATV950U75N4.	6.8 mA	96 mA
ATV630D11N4 / ATV650D11N4. / ATV930D11N4 / ATV950D11N4.	6.8 mA	96 mA
ATV630D15N4 / ATV650D15N4. / ATV930D15N4 / ATV950D15N4.	6.8 mA	96 mA
ATV630D18N4 / ATV650D18N4. / ATV930D18N4 / ATV950D18N4.	6.8 mA	96 mA
ATV630D22N4 / ATV650D22N4. / ATV930D22N4 / ATV950D22N4.	6.8 mA	96 mA
ATV630D30N4 / ATV650D30N4. / ATV930D30N4 / ATV950D30N4.	7 mA	159 mA
ATV630D37N4 / ATV650D37N4. / ATV930D37N4 / ATV950D37N4.	7 mA	159 mA
ATV630D45N4 / ATV650D45N4. / ATV930D45N4 / ATV950D45N4.	7 mA	159 mA
ATV630D55N4 / ATV650D55N4. / ATV930D55N4. / ATV950D55N4.	4.7 mA	0 mA
ATV630D75N4 / ATV650D75N4. / ATV930D75N4. / ATV950D75N4.	4.7 mA	0 mA
ATV630D90N4 / ATV650D90N4. / ATV930D90N4. / ATV950D90N4.	4.7 mA	0 mA
ATV630C11N4 / ATV930C11N4C	0.1 mA	0 mA
ATV630C13N4 / ATV930C13N4C	0.1 mA	0 mA
ATV630C16N4 / ATV930C16N4C	0.1 mA	0 mA
ATV630C22N4 / ATV930C22N4.	0.1 mA	0 mA
ATV630C25N4 / ATV930C25N4C	0.1 mA	0 mA
ATV630C31N4 / ATV930C31N4C	0.1 mA	0 mA