- said active voltage limiter unit (115) is configured to regulate said torque reference (Tref) of said regulator system (14) in order to cause said DC-link capacitor voltage (Vdc(t)) to be limited within said predetermined voltage range.

17. Laundry treating machine according to claim 16, wherein said active voltage limiter unit (115) is configured to regulate said torque reference (Tref) of said regulator system (114) in order to cause said DC-link capacitor voltage (Vdc(t)) to be limited within said predetermined voltage range, without using said lines currents and/or DC-link currents.

18. Laundry treating machine according to claim 17, wherein said active voltage limiter unit (115) is configured to:

receive first voltage signals (Ua(t), $\upsilon\beta$(i)) indicative of the duty cycles of said switching signals;

receive first current signals ($i\alpha$(i),$i\beta$(i)) indicative of said output currents (iu, iv, iw) provided to said electric motor (2)

receive said voltage (Vdc(t)) of the DC-link capacitor (11),

determine a torque limit value (Tref_lim) based on said first voltage signals (Ua(t), $\upsilon\beta$(t)), said first current signals ($i\alpha$(i),$i\beta$(i)), and said voltage (Vdc(t)) of the DC-link capacitor (11).

19. Laundry treating machine according to claim 18, wherein said active voltage limiter unit (15) is configured to:

determine an active current (ia(t)) based on said first voltage signals (Ua(t), $\upsilon\beta$(i)) and said first current signals ($i\alpha$(i),$i\beta$(i));

determine an instantaneous maximum allowable regeneration current (ialstAbs(t)) based on the measured voltage level and the prefixed parameter (iaMaxAbs) corresponding to a maximum absolute active current (ia(t)) for regeneration by means of the following equation:

iaIstAbs(t)=coV*IaMaxAbs,