

Abstract

An inverter controlling apparatus comprises a conventional condenser-less inverter controlling section 11 for outputting a provisional torque command or current for torque command for controlling a conventional condenser-less inverter, i_1^* operation section 12 for receiving a motor torque τ_m , motor rotational speed ω_m , power voltage v_1 , and coefficient η as inputs, for calculating a power current i_1 by carrying out operation of equation (10), and for outputting the power current i_1 as power current command value i_1^* , feedback operation section 13 for receiving the power current command value i_1^* and the real current i_1 as inputs, for carrying out operation so as to make the deviation between the both to be 0 (for example, PI operation), and for outputting the torque command for correction or current for torque command for correction, and subtraction section 14 for subtracting the torque command for correction or current for torque command for correction which is output from the feedback operation section 13, from the provisional torque command or current for torque command which is output from the conventional condenser-less inverter controlling section 11, and for obtaining a final torque command or current for torque command, so that controlling is carried out for suppressing the capacitor current thereby distortion of the power current is suppressed.



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