

ABSTRACT

CONTROL DEVICE FOR ACTIVE FILTER

5 Disclosed is a control device (71) controlling an operation of an active filter (6) which is connected in parallel with a load (2) at an installation point (P) with respect to an AC power source (1) and which supplies a compensation current (I_c) to the installation point (P) so as to compensate for a harmonic component of a load current (I_o) flowing through the load (2). The control device (71) includes: a dq converter (703) converting the load current (I_o)
10 into a component of a d-axis current and a component of a q-axis current; a high-pass filter (704, 705) extracting a harmonic component from at least the component of the q-axis current output from the dq converter; a multiplier (716) outputting a result obtained by multiplying a component of a d-axis current output from the high-pass filter (704) by a compensation rate (K_d) as a current command value (i_d^*); and a multiplier (717) outputting a result obtained by
15 multiplying the component of the q-axis current output from the dq converter (703) or a component of a q-axis current output from the high-pass filter (705) by a compensation rate (K_q) as a current command value (i_q^*). The compensation rate (K_q) of the q-axis current in the multipliers (716, 717) is adjustable.

20 FIG. 1