

MATRIX CONVERTER AND CONTROL METHOD FOR THE MATRIX
CONVERTER

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ABSTRACT

An output voltage command signal for outputting a predetermined three-phase AC output voltage is generated by
10 a line-to-line voltage control command signal generating unit (11), and a signal indicating a current flow ratio is generated by a current flow ratio generating unit (12) on the basis of a predetermined input current command signal. On the basis of the output voltage command signal generated
15 by the line-to-line voltage control command signal generating unit (11) and the signal generated by the current flow generating unit (12) and indicating the current flow ratio, the output voltage command signal is corrected by a command signal operation unit (13). On the
20 basis of the corrected output voltage command signal and a carrier signal, a PWM conversion signal is generated by PWM conversion signal generating units (15, 17). On the basis of the generated PWM conversion signal, a three-phase AC input voltage is converted by a conversion unit into the
25 predetermined three-phase AC output voltage.

Figure 2