

A B S T R A C T

ROTATING MACHINE SYSTEM

5 A rotating machine system (10) includes a rotating
machine (1) including a plurality of coils (13u1 to
13W6) individually conducted in a plurality of phases,
respectively, an operation direction determination
means of determining an operation direction of the
10 rotating machine (1) to a driving direction or a
braking direction, a drive coil number determination
means of determining a number of coils in each phase
based on a drive operation instruction value (Scd) when
the operation direction determined by the operation
15 direction determination means is the driving direction,
a drive coil selection means of selecting the coils
(13u1 to 13W6) of the number of coils determined by the
drive coil number determination means from the
plurality of coils (13u1 to 13W6) in each phase, a
20 drive control means of conducting the coils (13u1 to
13W6) selected by the drive coil selection means to
perform drive control of the rotating machine (1), and
a brake control means of performing brake control of
the rotating machine (1) based on a brake operation
25 instruction value (Scr) when the operation direction
determined by the operation direction determination
means is the braking direction.

[Fig. 1]