

Abstract

COLLECTION-DISTRIBUTION RING FOR STATOR OF ROTATING ELECTRICAL MACHINE

A collection-distribution ring (1) comprises three busbars (2, 3, 4), each having a circular ring shape, which are integrally connected together with prescribed distances therebetween by an insulating resin (5). Coil connection terminals (2b, 3b, 4b) project inwardly in a radial direction and are alternately arranged in relation to the three busbars. External terminals (2c, 3c, 4c) project outwardly in the radial direction and are arranged to adjoin together at the prescribed position. These terminals are all exposed from surfaces of the insulating resin. A stator (6) comprises the prescribed number of stator units (9) that are arranged in a circumferential direction and are assembled together with the collection-distribution ring. Each stator unit comprises a core unit (10) realizing magnetic teeth (15), an insulating member (11), and a coil (12). An outer terminal member (16) electrically connects a first end of the coil and the coil connection terminal, and an inner terminal member (17, 22) provides electrical connections between second ends of the adjacent coils.



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