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Dual Winding High Power Density Dual winding, high power density, shielded drum core power inductors. www.eaton.com/electronics. Product specifications. 1. Open Circuit Inductance Test Parameters: 100 kHz, 0.25 V. rms, 0.0 A dc Parallel: (1,2 -4,3) Series: (1-4) tie (2-3) 2. RMS current for an approximate DT of 40 °C without core loss. Dual winding, high power density, shielded drum core power ... DRAQ75. Automotive grade dual winding, high power density, shielded drum core power inductors. Product features. • AEC-Q200 qualified. • Dual winding inductors that can be used as a single inductor, SEPIC, Flyback, or other coupled inductor/transformer

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applications (1:1 turns ratio) •
Windings can be connected in series or parallel, offering a wide range of inductance and current ratings. Automotive grade dual winding, high power density

... Index Terms—Dual-winding motor, design and optimization, fault-tolerance, finite element analysis, short-circuit fault. I.

INTRODUCTION PERMANENT magnet (PM) motor has been widely used in hybrid electric vehicles, aerospace and other fields because of the merits such as high power density, high torque density, Design and Optimization of Dual-Winding Fault-Tolerant ... High power density.

Usable power might be questioned at this stage. nHPD2 is after all smaller than the mid-sized IHM footprint at a compact 94mm x.

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140mm. However, this is not at the expense of a reduction in usable power. nHPD2 is a high power density dual. High Power Density Dual nHPD2 Packaging Generation ... door to, the pronouncement as capably as perspicacity of this dual winding high power density shielded drum core power can be taken as with ease as picked to act. is the easy way to get anything and everything done with the tap of your thumb. Find trusted cleaners, skilled plumbers and electricians, reliable painters, book, pdf, read online and more good services. a dash of style the art and mastery punctuation noah lukeman, 9a inheritance and selection Dual Winding High Power Density Shielded Drum Core Power Abstract: In this paper, a new

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electric drive system based on a six-phase ten-pole dual-winding fault-tolerant permanent-magnet (DFPM) motor for aerospace applications is proposed and investigated. The proposed DFPM motor consists of optimal surface-mounted permanent-magnet (PM) rotor and 12-slot stator with two sets of independent three-phase concentrated armature windings on alternate teeth, which incorporates the merits of high power density and high efficiency of the PM motor and high ... Electric Drive System of Dual-Winding Fault-Tolerant ... The motor is a coreless axial flux design, and utilizes optimized Halbach magnet arrays combined with a patented winding fabrication process to achieve superior performance. The Phase I effort and

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related follow-on work resulted in a laboratory prototype with a power output of 5 HP/lb at 8400 RPM, twice the power density of the best known ... A Dual Halbach Array, High Power Density Electric Motor ... Abstract: In order to adapt to the single power supply system of an aircraft, this paper proposes and investigates a novel dual-winding fault-tolerant (DF) motor drive system based on the redundancy bridge arm for aerospace applications. The proposed DF motor offers the advantages of magnetic isolation, physics isolation, thermal isolation and small cogging torque ripple, inhibiting the short ... A Dual-Winding Fault-Tolerant Motor Drive System Based on ... windings on alternate teeth, which incorporates

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the merits of high power density and high efficiency of permanent magnet (PM) motor and high fault-tolerance of dual-winding motor. (PDF) Electric Drive System of Dual-Winding Fault-Tolerant ... [7] Zhiqiao Wu, Olorunfemi Ojo and Jyoti Sastry, "High-Performance Control of a Dual Stator Winding DC Power Induction Generator", IEEE Transactions on Industry Applications, Vol.43, No ... (PDF) Analysis of Dual Stator PM Brushless DC Motor A dual stator winding induction machine has two windings with input terminals which are supplied separately with drive power. The two stator windings have a different number of poles to essentially eliminate the magnetic coupling between the two windings and to decouple the torques

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produced by each set of windings. Power is supplied to the two windings by two separate variable frequency ... US6242884B1 - Dual stator winding induction machine drive ... Also beneficial is the possibility to use dual winding control when high power or redundancy is needed. In high power application you still have half power available if one unit fails. Having spare parts onboard is easy as there is only one hardware that can perform in three different modes. Inverter for traction motor and generator up to 510 kW continuous and up to 760 kW peak electrical power (500 V and $\cos\phi$ 0.99) HES880 - Compact and rugged solution for harsh ... high power-density through low-loss operation at high frequency.

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However, this topology is also subject to the risk of ... control parameters to support the dual requirements of (1) providing a regulated output, and (2) achieving volt-second balance in the power transformer. ... primary winding without introducing the risk of transformer Ensuring Volt-Second Balance in High-Power-Density Phase ... The fill factor means the winding area to the whole window area of the core (should be < 1). For initial designs, it is recommended that a fill factor no greater than about 50% to be used. For transformers of high power density and multiple outputs, this factor may need to be reduced further. 12 Steps for Designing SMPS Transformers : The Talema Group Double Winding Induction

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Motor consists two sets of winding in the same stator core. If the machine is operated as conventional induction motor, for a load current of 3.0 A, the efficiency and power factor are 76.3% and 0.33 respectively, then an electrical load of 720 W is connected in the second set of winding.

CHAPTER 2 DESIGN AND DEVELOPMENT OF DOUBLE WINDING ...

P_o = Power Out (watts)
 D_{cma} = Current Density (cir. mils/amp)
Current density can be selected depending upon the amount of heat rise allowed. 750 cir. mils/amp is conservative; 500 cir. mils is aggressive.
 B_{max} = Flux Density (gauss) selected based upon frequency of operation. Above 20kHz, core losses increase.

Magnetics - Transformer

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Design with Magnetics Ferrite

Cores The winding of split-wound dual machine was incorporated to increase the power capability of large synchronous generators and had been recently found useful as part of uninterruptible power supplies, generator of both dc and ac electric power and stand-alone power supply. Analysis of Dual Stator PM Brushless DC Motor With optimally-sized small capacitors and inductors, the DIHC would result in high power density power conversion, and promises high potential for high-power and high current applications. This new converter topology is verified by a 20 W, 48 V VRM prototype. The printed circuit board implementation with key components is shown in figure 3.

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