

How does a stator ventilation duct work?

Hence, cooler cooling air can be fed to improve heat transfer in the stator (via the stator ventilation duct). The multiple radial system means that the directions of the cooling flow through the stator ventilation duct are the combination of radially inward and outward flows, as shown in Figure 1.

Does a stator ventilation duct have heat transfer and pressure loss?

The real geometry and operating condition of the stator ventilation duct of an air-cooled turbine generator (200MVA) were modelled to investigate the characteristics of heat transfer and pressure loss. The annular section of a 24° of stator ventilation duct was selected for modelling using an experimental rig and CFD analysis.

What is stator radial ventilation duct?

The stator radial ventilation duct is the main path for the stator winding to dissipate heat and directly affects the stator winding and core temperature distribution. The heat dissipation capability of the stator core and yoke back is also the main factor affecting the stator winding and core temperature.

Do stator ventilation ducts need a detailed heat transfer measurement?

So far, the research efforts on stator ventilation ducts have been focused on analytic approaches. Yet, there is no experimental report on detailed heat transfer measurement, which will be very useful for CFD validation and provide further insights on design improvement.

Bonjour, Le clan zahavanay, recrute. Nous acceptons tous les niveaux, a partir du moment o  vous participez aux jeux de clan! Nous favorisons la bonne...

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In order to homogenise the stator axial temperature distribution whilst reducing the maximum stator temperature, this paper presents a novel non-uniform radial ventilation ducts design ...

Bonjour   tous, J ai accidentellement charger un nouveau compte sur mon nouvelle t l phone et du coup j ai perdu mon ancien compte ... L ancien compte est...

Je ne sais plus o  j'en suis. Je ne sais m me pas quel jour nous sommes. "Il me contr le, je ne peux plus rien faire. D'ailleurs, je ne sais pas non plus si j' cris vraiment ceci, ou bien ce n'est ...

Moi aussi, je te suis et t'avance bien .. Si  a ne te g ne pas, tu peux m'ajouter en Ok je verrai!! :(

Turbine generators operate with complex cooling systems due to the challenge in controlling the peak temperature of the stator bar caused by Ohm ...

In order to study what physical quantities are associated with the formation of this unusual fluid flow phenomenon, in this paper, a 100 MW air-cooled turbo-generator with the same ...

In this study, heat transfer and pressure drop measurements are conducted to understand flow and heat transfer characteristics of rotor ventilation duct of a turbine generator.

For the complex status of fluid flow in stator radial ventilation ducts of large turbo-generator, the temperature distribution of stator is dramatically affected by the flow status of cooling medium in ...

Depuis quelques temps et surtout depuis la MAJ nous tombons sur des GDC totalement d&#233;s&#233;quilibr&#233;s. Nos hdv ne sont pas pr&#233;matur&#233;, nous venons de tomber sur un adversaire sur une gdc a 15 avec 1 ...

The air flows radially through ducts in the rotor, into the rotor-stator air gap and then through the stator channels. The usage of one or the other ventilation system depends mainly on the ...

The development of an algorithm for numerical simulation of the loop-shaped stator core duct of the air-cooled turbogenerator has been undertaken for the purpose of studying the character ...

Taking a 2-pole 150 MW air-cooled turbo-generator as the research object, the surface heat transfer coefficient distribution of the stator radial ventilation duct and stator temperature field are ...

? Fermeture du forum - Une page se tourne ? C'est avec regret que je vous annonce la fermeture du forum, qui avait ouvert ses portes le 31 d&#233;cembre 2012. Apr&#232;s 12 ans d'existence, la diminution de la ...

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