

I'm not robot!



Permeance
(P)

Flux
tubes

P_e

$$\frac{\mu L \theta}{\ln\left(\frac{r_2}{r_1}\right)}$$

d

$$\frac{2\mu L \cdot l}{\theta}$$

$$\frac{\mu L \ln\left(\frac{r_2}{r_1}\right)}{\theta}$$

e

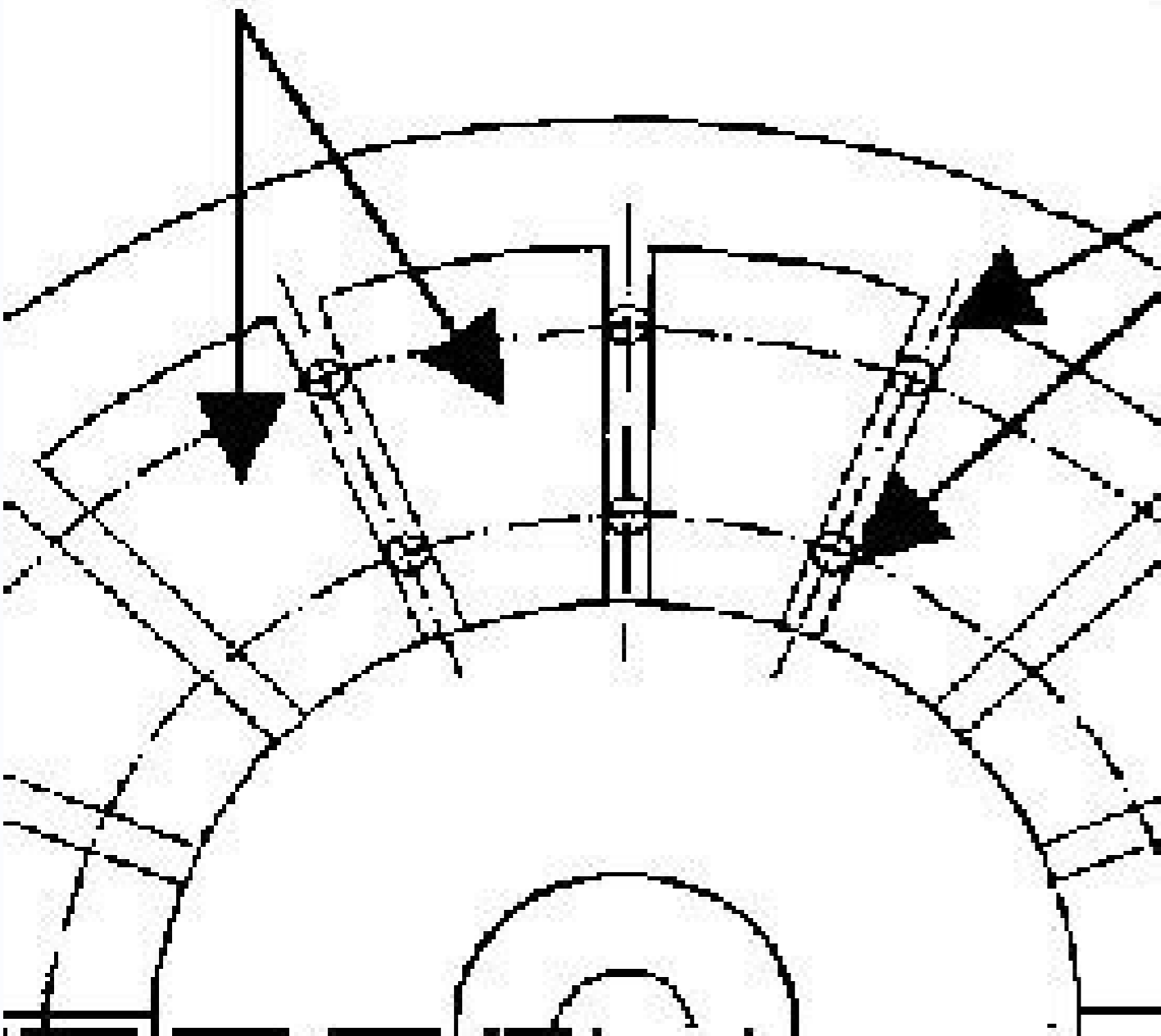
$$\frac{\mu L \cdot \ln\left(1 + \frac{d}{e}\right)}{\theta}$$

$$\frac{\mu L x}{r}$$

f

;

Permanent magnets



Armature software.

Apart from the type of rolling, concentrated or distributed, the logical detail of the design of the elastic ellights is relatively similar, since it is based on its phaasor diagrams. Using an induction motor reference model with a concentrated rolling, we will show you how to create selections in the Comsol Multiphysics® software to simplify the analysis of your rolled design. Then we will demonstrate how to continue advancing their simulation studies automating these processes with the application editor. Our induction engine example model The operational modes and the types of eloquin eloquins are defined by the way in which their routers are connected. Its fundamental principle of operation is based on the voltages and currents that flow through these winds. Regardless of the type of corner, windings can be classified as concentrated or distributed, with other subcategories such as fractional and comprehensive applied. For concentrated winds, as the name suggests, each polo on the corner will have a set of drivers through the same slot. On the other hand, for the distributed rollers, the number of slots will be greater than the number of poles, so that the conductors of each pole will be distributed between the number of slots. The benefits and differences of using concentrated windshields against the distributed windshields are out of reach of this blog. Our induction motor model was built using a 60° pot. This means that there are 60 separation from the lower part of one stator slot to another. To create some uniforms of flow density and ensure induction in the steel rotor to produce movement, we have to ensure that there is some separation between each stator slot. In many rotor topologies, this gap is full of tooth of the stator. Without in this example, we have selected 15° of air space, which means that each stator slot will cover 45° of the required 60° total. Induction of three phases represents the dimensions and phase configurations of the original model. At this point, what we have described may sound complicated, but it is actually quite simple. As we mentioned earlier, the design of vanishes on electrical machines depends on its voltage fasor diagrams. In the figure below, the blue lines represent the phases, while the orange lines represent their negative counterparts. Triphasic Fasorus Diagram. The induction engine used for this example is a two-pole three-phase machine, and can be described exactly by the fasor diagram, where 60° defines the pole tone in the stator. The only challenge here is that these separation angles between each stator only work in the case of two poles. We need to create a relationship between the electrical angles shown in the Fasor diagram, which describe the circular motion of the rotor, and the actual mechanical angle, which describes the physical location of each slot of the stator. The electric angle is represented by the following equation: $\theta_{\text{electrical}} = \frac{p}{2} \theta_{\text{mechanical}}$ under the node Definitions, we can create selections, that is, group geometric entities such as domains, limits, limits, edges and points. For the two pole machine, there are two points of interest: identify the slot of the stator corresponding to each phase and identify the direction of the current (in or out). Note that while there are several ways to perform the same operation, this specific case serves as an example of how selections can be used in a model. In the figure below, we have parameterized the selection of the ball so that it is possible that we always select the midpoint of each slot of the stator. As mentioned above, the coil tone is 45o and since we are workingA circular geometry is easy to parameterize the X and and and to follow each location of the coil around the geometry: $x = \frac{r_2 + r_1}{2} \sin\left(\frac{\theta}{2}\right)$ and $y = \frac{r_2 - r_1}{2} \cos\left(\frac{\theta}{2}\right)$. Since we are working with three phases and two current directions, we can easily use the mod (%) function to identify the two interesting attributes of each coil: the phase and current direction. If we start counting coils from phase - A until all mechanical angles are covered by each coil slot, we would end up with something similar to the table below for the case of four layers. Phase - A - B - C - A - B - C - A - B - C Coil Number (i) 0 1 2 3 4 5 6 7 8 9 10 11 %3 0 1 2 0 1 2 0 1 2 0 1 0 1 0 1 0 1 1 Description of the algorithm used to identify each phase and when to invest the current direction. Here, a 0 coil (i) number represents phase - A, a 1 coil number represents phase B, and so on. Using %3, we can easily identify phase A as 0, phase B as 1, and phase C as 2. In addition, for each phase from the phase -A, we can see that the current roiretna roiretna le ne bircsed es omoc otse anoicnuf om'Ac rev araP. 0 omoc acifitnedi es etneirroc al ed ovitisp odal le euq sartneim, 1 omoc acifitnedi es Let's look at a section of the downt created in the editor of Mä & all of the application builder. Generation of automated ball selections using the editor of mä © all for each coil. The image above only shows how to create the selections for phase A, here, we use three accountants: counts from 0 to the last coil (11 in the case of four poles). If %3 is true, then we can say that it is phase A, and we will store those selections in Array Phasea. Then we need to verify the current address. If %2 is 0, then the address of the current is considered negative, and we will store those selections in another matrix called Phasearev. So far we have created ball selections, but we need to create the unions. This operation is quite easy to carry out, since we will always have six unions in our case: phase A, phase B and Phase C, together with the three unions corresponding to the inverted current direction. CREATION OF TRADE UNION SELECTIONS using the editor of MÄ © all for each phase. In the same way, we must ensure that each union is assigned to its corresponding physical interface. Linking of the coils with the selections of the union and the current direction inverted with the ball selections using the editor of MÄ © all. Now we have finished the creation of selections that will depend on the number of poles entered á ¢ á ¢ by application users. With additional time and creativity, it could extend the functionality of this application through the form editor. This tool provides the capacity to design an application that allows users, for example, assigning material properties, taking into account the dependence of the time of the solution (transient or reinforcement) and even automating the postprocessing. These characteristics stand out in the screen capture below. An application n'Aicazitamotua n'Aicazitamotua y senoiocceles ed osu le erbos n'Aicamrofni s;Am agnetB0 .socin;Acem y socirtc@Ale solugn;Aöl ertne n'Aicaler al ne sadasab senoiocceles artseum y aerc n'Aicacilpa atsE .lanigirpo n'Aicucdiud ed rotom ed oledom le ne adasab n'Aicalumis redliuB redliuB notiaicilppA eht htwt

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