

$$B_{av} = \frac{2}{\pi} B_{max}$$

$$\mathcal{P}_{PP} = \left(\frac{2\pi r\ell}{P}\right)\left(\frac{2}{\pi} \mathcal{B}_{m}\right) = \frac{\pi r\ell}{P} \mathcal{B}_{m}$$

$$P=2 \Rightarrow \mathcal{Q}_{pp} = 2rlb_m = 2(17.5 \times 10^{-3})(0.1)(0.6)$$

Assuming Winding thickness: 6 mm

$$\emptyset = 2 (18 \times 10^{-3})(0.1)(0.6) = 2,16 \times 10^{-3}$$
 Wh

$$E_{rms} = 24V = 4.44. f N_{ph} \% k_{w}$$
,  $k_{w} = k_{d}.k_{p} = \frac{s_{in}(9\frac{\%}{2})}{9s_{iw}(\frac{Y}{2})}$ 

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24 slots => 
$$9.(\#cord) \cdot 2.2 \frac{5 \text{ in } 30}{9 \text{ sin}(7.5)} = 100.1$$
 =>  $N_{ph} \approx 109$   
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Coll area propose provide 
$$\frac{105.56}{208} = 0.51 \text{ mm}^2$$