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like pollution free, longer life, economical and easy transportation. Some disadvantages of electric drives are that in the failure of electricity, electrical drives cannot work and initial cost is high. Hope you know all these related to our topic.

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32  $\alpha = \alpha * \pi / 180$ .

33  $b = \sin(\phi) * \exp(-(\alpha * \cot_{\phi}))$

34  $c = \sin(\alpha - \phi) * \exp(-(\pi * \cot_{\phi}))$

35  $a = 1 - \exp(-(\pi * \cot_{\phi}))$  36  $W_{mc} = y * (b - c) / a$

// required angular speed in rps.

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$37 N_{mc} = W_{mc} * 60 / 2 / \pi$

//required angular speed in rpm. 38.

$39 V_a = V_m / \pi * (1 + \cos(\alpha))$  40  $E_1 = N_1 / N * E$

//value of back emf at the speed of  $N_1$ .

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