

THE MAIN CAUSES OF REDUCTION OF THE DEVICE FEED POWER FACTOR OF ASYNCHRONOUS MOTORS AND ENERGY-SAVING DUE TO ITS AGRICULTURAL ENTERPRISE CHOPPING PREVYUENTION

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It is known as hozirgi at the time village resources directory asinxron who consumed three-phase reactive power main engines, transformatorlar, electric power transmission lines and gazorazryidli lamps. Agricultural enterprises using a device used to feed the crushingengines sinxroni reactive power 60 – 80% of the consumption[1-17].

Koeffisiyenti change the dynamics of reactive power reactive power is characterized by:

$$tg\varphi = \frac{Q}{P},$$

here, $Q = UI \sin \varphi$ – reactive power, $P = UI \cos \varphi$ – active power, φ – voltage and the angle between vector vine[1-17].

Though $tg\varphi$ full of the mode of production of electric consumers xarakterlasada

in practice for more power koeffisiyenti is used:

$$\cos \varphi = \frac{P}{UI},$$

here $S = UI$ – full capacity.

How to work spending power koeffisiyenti full power of the useful part of their character koeffisiyenti[2-16]. Koeffisiyenti the full capacity of the network is increased to decrease the power of the consumer, i.e.:

$$S_T = \frac{P}{\cos \varphi},$$

here by P – active capacity of the consumer
 P and $\cos \varphi$ in the value z garib

$$I_P = \frac{P}{\sqrt{3} * U * \cos \varphi}$$

reactive will increase the cost of the vine, this leads to the increase of spending ekspluatasion, that is, the waste of electric energy in the network will increase:

$$\Delta P = 3RI_P^2 = \frac{RP^2}{U^2 \cos^2 \varphi},$$

here by R – phase active device of a three-phase resistance. The change of electrical energy to the surface of the transverse incisions wasting of the transmission line, you will need to raise this while-ferrous metals leads to more spending[3-17].

The differential value kompyensatsiya and $\cos \varphi$ it is also important for all sectors to increase production. Power koeffisiyenting toe low`lish the following list of o`the reasons the us built in the garden`liq is:

1. Feed the crushing devices in xron the power of engines toe`citizens and working conditions noto`g`and select settings. Open structures in the conditions of closed cooling engines konstrukslower than motorlarnikiga toe iya`ladi. Engines are the same type and capacity in which speed is high, so that the one $\cos \varphi$ is the high cost.
2. Their electrical equipment on time and in full production mechanisms and uneven after downloaded, the subscriber is the reason.
3. Feed the crushing device as in xron engine on the other side i downloaded performance.
4. Feed the crushing device as in xron engines on the other side i see from nominal power at high power that dispersed ko magnetic flow run`and as a result payib koeffisiyenti power $\cos \varphi$ will decrease.
5. I feed the crushing device as in xron engines renovated out that shda or bad electrical equipment to be used: for example, the blow-out in siqmaslik po`lati cans of dense, sand h be less than the number the number of the primary flavors, the packaging chulg'am.k. chthe number of ulg'amlar by 10% salt passage motor decrease by 25% oshirada koeffisiyenti this capacity and 6 – 8% leads to a decrease. Blow-out po`lati o`lcyes, mining vary from 10 mm to $\cos \varphi$ 15 – 30% leads to a reduction[1-17].

6. At lunch, the evening shift, high capacity machine a long time on hire and the others put out small yuklanishli of the voltage of the network when running in mode bir volt few consumers leads to the increase of the voltage, and as a result increased to inductive magnetizing $\cos\varphi$'s decline, the cause of that. Payvandlovchi hardware as the reason istye'molchilarning be used without compensatory to high electrical reactive power inductivity.

7. Mode the mode of a device and to be close to ferromagnetic to 'rilagich to 'yinib working with the core of the sinusoidal voltage of the electrical consumers of the network to be as a result of the break [3-17]. Motor voltage Asinxron nosinusoidal appear to decrease the effects of the additional capacity of the insulator and reduces the period of this work.

$$K_M = \cos\varphi_1 K_{II},$$

here in $\cos\varphi_1$ – the power of balanced technique first complete the image

coefficients, $K_{II} = \frac{I_1}{\sqrt{\sum I_i^2}}$ – fix coefficients i – components of balanced

complete the image
your order number.

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