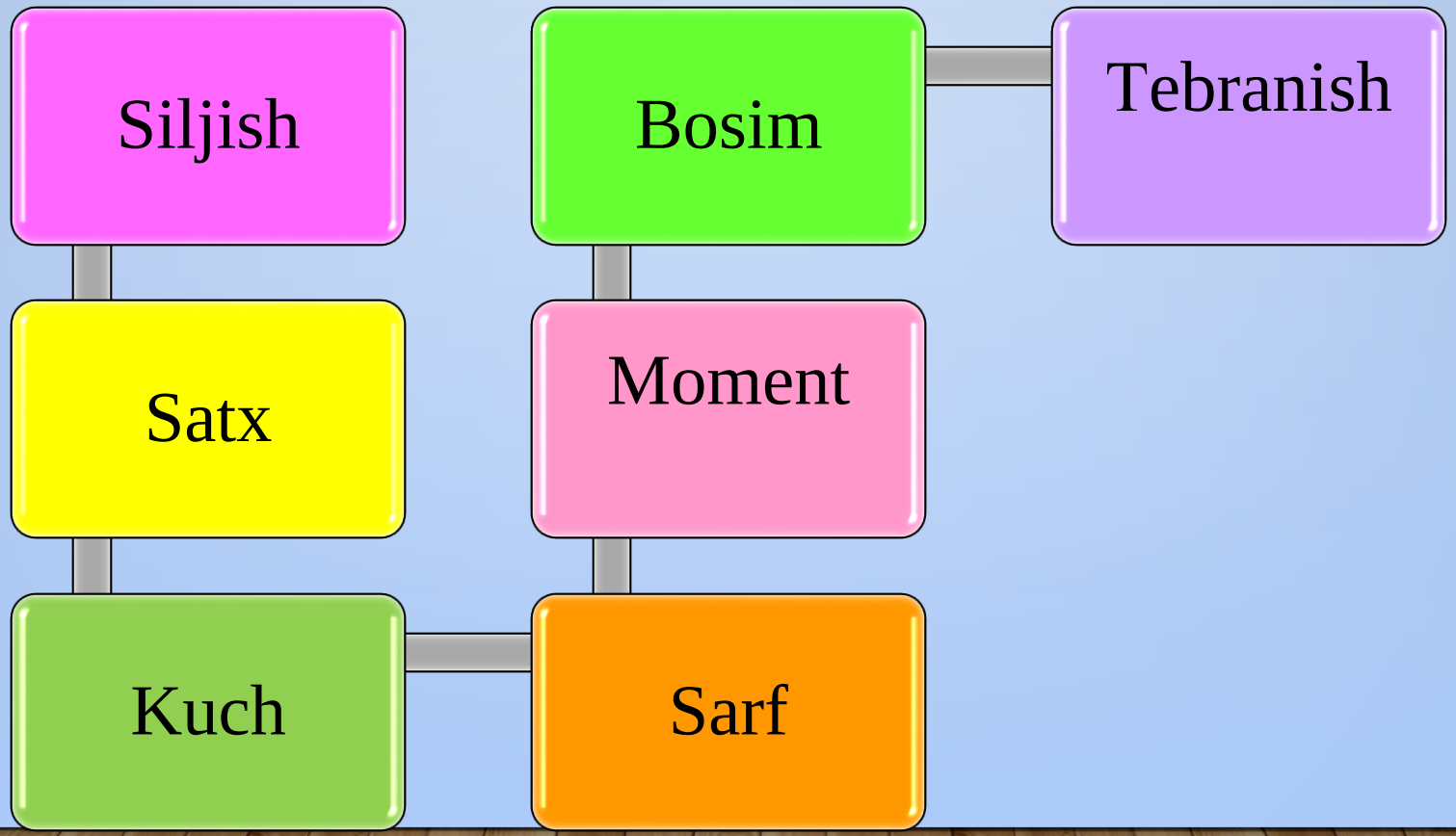
АВТОМАТИКА ЭЛЕМЕНТЛАРИНИНГ СТАТИК ТАВСИФНОМАЛАРИНИ АНИҚЛАШ

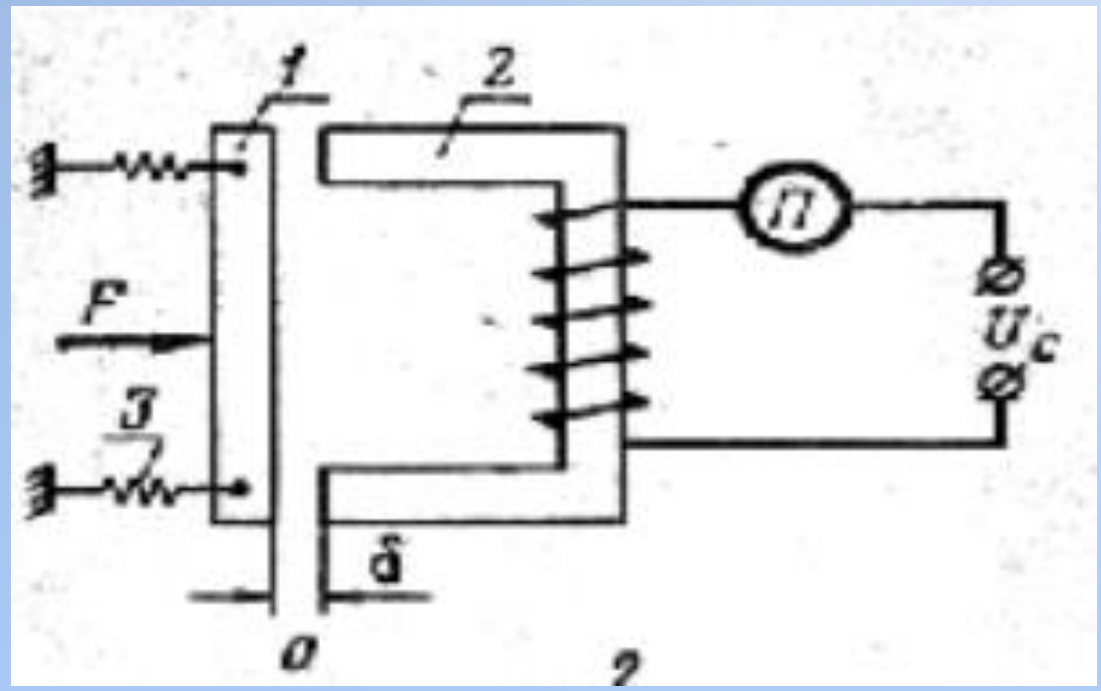
ИНДУКТИВ ДАТЧИК МИСОЛИДА


Datchiklar bir hildagi bir necha asosiy ko’rsatkichlarga ega:
Statik tavsifnomasi
dinamik tavsifnomasi
absolyut xatolig
nisbiy xatolig

INDUKTIV DATCHIKLAR NAZORAT QILADIGAN KATTALIKLAR



INDUKTIV DATCHIKNING PRINSPIALSXEMASI



PARAMETRLARNI O'ZGARTIRISH KETMA-KETLIGI

$$F \rightarrow \delta_в \rightarrow R_м \rightarrow L \rightarrow X_L \rightarrow Z \rightarrow I,$$

Bu erda: F - kuch;

δ_v – xavo bo'shlig'i uzunligi;

R_m – magnit qarshilik;

L - induktivlik;

X_L – induktiv qarshilik;

Z – to'la qarshilik;

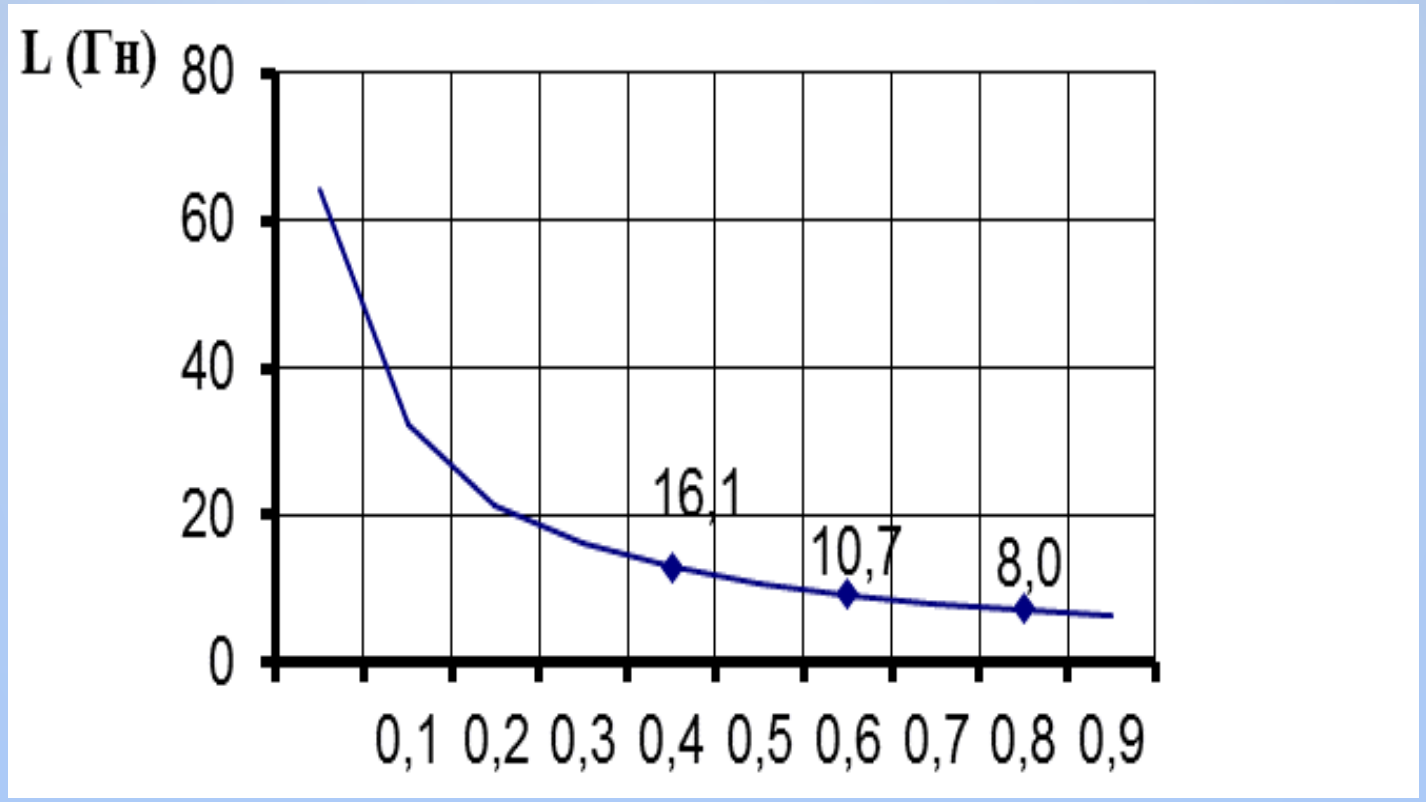
I - tok.

2) DATCHIK INDUKTIVLIGI QUYIDAGI FORMULA ORQALI ANIQLANADI:

$$L = (2/\delta_в)\pi * n^2 * S_м * 10^{-7}$$

δ_v – Xavo bo’shlig’i uzunligi;
n – o’ramlar soni;
S_m – o’tkazgich kesim yuzasi.

STATIK TAVSIFNOMA L = F(δV)



KELTIRILGAN MA`LUMOTLAR ASOSIDA INDUKTIV DATCHIKNING INDUKTIVLIGINING BO'SHLIG'I UZUNLIGIGA BOG'LIQLIGINI ANIQLANG

δ_{v1} = 0,4 mm;
δ_{v2} = 0,6 mm;
δ_{v3} = 0,8 mm;
S_m = 40 mm^2;
n = 16000 o'ram.