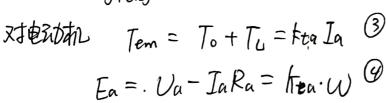
田空安設 HW-1 自动ル(形 1904/0102 方克 1-6 Pem= UnIa-Ia Ra = 36 W, 其中 Pem = 几 Tem = 元 N Tem 断 Tem = To+TL / 保密を発動を TL = 0.0805 N·m

1-7/1)知电动机的领载轻矩等于发电机的动物区。 由 e= kesl, 东区发电机空教时电极电压等于电动机 Ea, Ua'= Ea= Ua-Ia-Ra=101V

由(1)条件 En= teal / lea=.0,21433.

发电机空载车 Tem-2 To=0 其中Tem= Ea Ia = .0.02572 N·m 故电机空载车经路 0.01286 N·m

(2) 当发电机接上 RL = 0.5K.26 数时, 对发电机 Tem = htg-Ig = TL-To. O The Un Each TG. Un Each The Un Each The United States The Unit



O. ONS To + keg Ig = . Kta Ia - To

① 图 3個 Va-IaRa= Ig (RatRL) 且 ktg=kta=tea=021433

联立得 Ig=0.15538A, In=.0.2754A

由图 / W=416.86元 rad/s. / Jan=3980.7443 Hmin

$$\begin{cases}
 -15(1) N = \frac{Va}{Ce\phi} - \frac{Ra}{Ce\phi} - \frac{Ra}{Ce\phi} = \frac{Va}{Ce\phi} - \frac{Ra}{Ce\phi} = \frac{Va}{Ce\phi} - \frac{Ra}{Ce\phi} = \frac{Va}{Ce\phi} - \frac{Ra}{Ce\phi} = \frac{Va}{Ce\phi} = \frac{Va}{Ce\phi$$

ni, nz x f 应 Tei= l Lai= .0101 N·m, Tee= lit. Iaz= 0.04 N·m, 加持性分下.

(2)
$$T_{m} = \frac{RaJ}{tekt} = 0.025$$

12)
$$T_m = \frac{RaJ}{tekt} = 0.02S$$
.

(3) $D = \frac{RaJ}{tekt} = \frac{RaJ}{tekt}$ $\sqrt{\frac{RaJa}{tekt}}$ $\sqrt{\frac{RaJa}{tekt}}$ $\sqrt{\frac{RaJa}{tekt}}$ $\sqrt{\frac{RaJa}{tekt}}$ $\sqrt{\frac{RaJa}{tekt}}$ $\sqrt{\frac{RaJa}{tekt}}$

代入数据得 CeΦ=. 66 ke= 0.2192.

Ua=701时,空载软色102=100=3049 r/min

 $T_s = k_t \cdot I_a = k_e I_a = k_e = 0.1918 \text{ N·m}.$

(3)
$$T_{e1} = 0.03 \text{ N·m}$$
 . $I_{q1} = \frac{T_{e1}}{R_{t}} = 0.137 \text{ A}$.

R= 1302

2280 F/min

2416r/min 2010r/min

I-18 (1) 电动机: Vai= IaiRa+Eai 发电机: Eaz= Iaz (Ra+Rw)
Temi= To+T

Temz+To

(2) $f_{t}=f_{e}=\frac{T_{fo}}{I_{o}}=.0.25$

由(1)中含式Tem=ktIa= 2 Tfo+ Tem2 = 2 Tfo+ kt·Ia2.

Ear = kew = Var-IarRa = . Eaz = ke. W = Iaz (RatRL)

联立解得 In = 0.45A. Inz = .0.25A.

1-19 (1) kt = Ten = . 0.03, En= te-Wn = 9V, R = Un-En=30s2.

Ua=18V时, 启动输出转矩 TL=.kt· <u>Va</u> - Tf = 0.015 N·m

空载转速 Willia Va- To R= he·Will lewis 1500 rad/s.

12). Ua = Ra Ia+Ea = Ra. Te + te·W = 27.5 V.

输收转便 TL=.Te-Tf=.0.017 N·m