72101
73 Nº1
1/10908 pars 9 6 marais.
Bapuart Nº11
Dano: Penienne
mm. norpenmocreti I. nog 80p. gburaters
Noux = 15 %/www. no pacuet nou mong nocon
Moux = 1 H M. 1. Po 7 40, rge yo = 0,8
Ty = 1/ x1. 112 Py = My Wh = TINOW MENX =
E bux = 1,2
$Q = \pm 160^{\circ}$
7F Pp 7 0,8 = 1,96 [ BT]
2/6= Pp =>0000 (c
Pp. Emin & PT & Pp & max
nagnarum & = 2,55, rorga:
1,96·2,5 ≤ P <sub>7</sub> ≤ 1,96·5
4,9 < P, < 9,8
3. предваритеньно назнаний двигатель (ЭМ-8)
с данимии параметрами:
UB = 115B, PH = 8 BT, N = 4000 00/mm.
I.p = 0,021 m.m², Mnon = 20 H.mu

Mron 7 Mans Haznarum 156 = 8, rorga loc = 267 = 33,375 MEnp = Map + Map my 96 i34 = 6, i/2 = 5,6. Lo = 17 = 8.6.5, 6. = 268,8 Mun = 10:40 198 10 = 196 4000 15 = 267.  $\Delta \dot{c}_{o} = \frac{268.8 - 267}{267} \cdot 700\% = 0,67\%.$ M= 1000 = 4,7 H um 2 Onpegeneune Itana 3y66el Mgu = [(1+Kn)] + = ] [: 10, 29 Kn = 0,4...1 Hagrarum ruano 34 Ebel beet Mgun = [ (1+0,4) 0,021+ \frac{41.10^4}{2672}]. 1,2.267 = 9,38 H.m. шепренок одинановини и рав-Mznp = 14,08 < Musu Mone 2, = 2, = 25, 7029a: 14,08 < 20 Hum => 2 = 21 : 0,2 = 25 : 5,6 = 140 => gburajer nogkogui. (A)  $24 = 23 \cdot i_{34} = 25 \cdot 6 = 150$ 2) Виношить кининатичений 28=25. is = 25.8 = 200 parvet mexampera. Danne znarems cootletet byest I. mule marinement pacuer. стандартиону раду: 1. T.K. Zasau upuzepun min  $\Delta i_0^2 = \Delta i_0^2 = 0,67\%.$  $\left(i_0 = \frac{2}{21}, \frac{24}{23}, \frac{2}{25} = 268, 2\right)$ plumogen, 70: n = lgio, rge i = 8, io = 267  $h = \frac{\log 267}{\ln 8} = 2,7 - > n = 3$ 

3) Tpobern unolon pacret pegynopa Расшитавь передачи на прочиность, предваринения выбрав шатериани и установив допустинае напрате. · Curolon pacres remensor genn M<sub>10</sub> = 1000 · U me Mm = 1000 = 128,8 Have MI = 128,8 - 22,1 H user M\_I = 22,1 0,59.0,98.5,0 = 4,1 H: exc M- < Mn /15 H. unu => g burazan buspan bepuo · Pacre zyonatix hepegar 1) nasvernu mar genaur ght medepun et 40x

gue monera CT40
2) Oupegerence gonycraenor non-
Taxanow happumenul
[S] ] 1,2 = O'NR(12. ZR. ZV. KAMA, rge
$2_2 = 2_V = 1$
OHE = 24B+70 KHI = 1
Gyp1 = 2230+40=530 MMa Sn=12
Гиг2 = 2·20+70 = 400 МПа. 530-1111 = 442 МПа
[0,1] = 470.1(1 = 392MMa
3) ongregerene gongarculion
newparnelle vszusa.  [OF]1,2 = OFR1,2 · KFC KFC , 2Ce KFC = 1  SF KFZ = 1
OFR = 1,34 HB
OFR = 1,24.230= 423 MILa.
OFR = 1,54-200 = 363 MMG
[G] = 425.11 = 157MMa

[ [ ] = 368.11 = 167 MTa. 4) Paccuración mogya 3/17 us Er-] 2,=23=25=26 -> V==3,58 W=1,25 · gus napu 2,-2, 2;=25: 2014 HARON YE = 3.98 2= 140 YE = 3,625  $\frac{y_{\text{FL}}}{CGF_{1}J} = \frac{3.58}{192} = 0.0207. \quad \frac{y_{\text{FL}}}{CGF_{1}J} = \frac{3.6}{167} = 0.024$   $m_{36} = \frac{3\sqrt{2.4288.4.25.36}}{167.440.8} = 0.18 \text{ Jun.}$ m56 = 0,3 mm. 16 · 318 23-24: 23=25, Y==3,98  $m_{34} = \sqrt{\frac{2}{150}} = \sqrt{\frac{2}{150$ · gra Z2 - Z1: · gle 25-26! 25 = 25 YF = 3,38  $76 = 700 \quad Y_{F} = 3, 6.$   $76 = 700 \quad Y_{F} = 3, 6.$   $767 = 700 \quad Y_{F} = 0,05 \text{ July}$ M12 = 0,3 um.

• The polyment paces we we we will be a 7 ka (int -1)  $\sqrt[3]{\frac{m k}{4}} = 0.9$   $k_{i} = 48,5 \, \text{MHz}$   $k_{i} = 48,5 \,$ 

W/ [QE] [QY] [QZ]	dy = 0,3 147 = 44,1 m
M <sub>12</sub> 0,3 0,3 0,3	2) 6 n+1 = m +8m 6n = 6n+1 +1,5m
mgy 0,5 0,3 0,3	6 = 0 3 · 8 = Z, Yull
M56 0,3 0,3 0,3 mm	b6 = b4 = 62, T.K. M12 = M34 = M56 = 0,3 YEN
· leonerpuisemin paccier 8)	$6_1 = 6_3 = 6_5 = 2,4 + 1,5.03 = 2,85 \text{ mm}$
1) Ann d= m2	3) Qw - 000 95 m (Zi + Zi)
$d^{\alpha} = m(2 + 2ha^{*})$	$\alpha_{56} = 0.3 \cdot 0.5(25 + 100) = 33,75 \text{ m}$
d=m(2-2(ha*+c*), 2ge	a <sub>56</sub> = 0,5.0,5 (25+00) = 33,75 mm
ha=1, c*=05.	ayy = 0,5. 0,5. (25+150) = 26,25 ws
ha*=1, c*=0,5, m,k m < 0,5	a 12 = 0,3.0,5 (25+140) = 24,75 um
2,=23=25. um,2=m34=m36,70	· Pacuer na Surposer et lue.
[d] = d3 = d5 = 0,3 25 = 7,5 mi	Townsell upo to = 3 Ton use
d1 = d2 = d5 = 0,3(25+2(1)) = 8,1 m	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
$d_1 = d_3 = d_5 = 0, 3(25 - 2(1 + 0.5)) = 660$	Jp = Msu
[ d = 0,3.140 = 42 den	JP - E - Electio 12.267 - 4000 - 418,7 pos/c
d2 = 03.142 = 42.6 mm	
L d2 = 0,3 · 127 = 41,1 mm	Tam = 20 4/7 = 0,820.
[dy = 0,3.150 = 4,5 mm	1, = 3.0, 82 = 2,46 cex.
da = 0,5.152 = 45,6	

 $\frac{2_{6}}{1_{5}} = \frac{2_{6}}{2_{5}} = \frac{100}{25} = 8$ · Pacret na Torenogo. ctenent romoune pegywopa: 75 Kφ= 2 (1.κ τολι 300. 506 300 0370) yral rob. bux. bapla. ± 160 => 3200 Δ Ywz = 268,8 + 48 + 8 + AZ = AUXE + AM AIM 1)  $F_i = F_p + F_f$ Fi = Fp' + Fi' = 22+9=31 um + 5,14,0,955 = 3,5 Δ MX = Δ Qn + Δ Qnx

Jun = 9 mm.

7 mm F\_1= F\_3 = F\_5 = 31 unsu. F2 = 30+5=39 MKM. Fy= 30+9= 30 mm. azy = 26,25 mi jun = 3 min  $F_6 = 35 + 9 = 44 \text{ man.}$   $A G_1 = \frac{6,88}{m_1 z_1}$ - 0.56 = 33, 75 mm janin = 11 mm  $\Delta \mathcal{G}_{1} = \Delta \mathcal{G}_{3} = \Delta \mathcal{G}_{5} = \frac{6,88 \cdot 34}{0.3 \cdot 25} = 28,4'$   $\Delta \mathcal{G}_{2} = \frac{6,88 \cdot 33}{0.3 \cdot 40} = 6,4'$  $\Delta V_n = \frac{7,33. \text{ James}}{m2}$ frmax = frmin + V 95 (TH 2+Th2)+2 fa2  $\Delta y_{4} = \frac{6.38 \cdot 35}{0.3 \cdot 450} = 5.9'$   $\Delta y_{60z} = \frac{2}{2} \frac{A96 K y}{0.3 \cdot 400} = 5.1'$ 1-2: FH = 16 MMM. TH = 36 MMM Fr2 = 22 MMM. TH2 = 42 MMM. £a'2 = 25 mm. ΔQ:00 = ΔQ:1.1 + ΔΔ:2+ΔΔ:1 + ΔΔ:4+ΔΔ:1+

ΔΔ:1-1.12 + τ.12-1.12 + τ.12-1.12 Jmax = 9 + V 9,5 (362 + 422) + 2252 = 61,7 mm AS6. Ky 12-0 = 25 · 24 · 25 - 200 (20 · 100 = 568,8

3-4: Fr3 = 16 mm TH3 = 36 mm Fr4 = 22 mm TH4 = 42 mm. DZ = DQnE +DQiOZ ΔZ = 10,5 '+9,8' = 20,4' Fa 34 = 25 man Pucarer onsweep.  $y^{3-4} = 9 + \sqrt{0.5(36^2 + 42^2) + 2 \cdot 25^2} = 61,7$  when 5-6: Fr5 = 16 muse TH5 = 36 uma Fro = 26 mm THO = 50 mm.  $4a^{56} = 32$  mm.  $56 = 11 + \sqrt{0.5(36^2 - 50^2) + 2.32^2} = 73,8$  mm.  $\varphi_n = \frac{7,38 \cdot \text{Jmax}}{m_2}$ C ynexall Toro, 40 2, = 73 = 75 = 25  $m_{12} = m_{34} = m_{56} = 0.3$   $V_{17} = \frac{7,33.047}{0.5.25} = 60.3$  $y_n^{34} = \frac{7,33.61,7}{0,3.25} = 60,3$  $U_{n}^{5-6} = \frac{7,33 \cdot 73,8}{0,3 \cdot 25} = 72,1'$  $\Delta V_{hZ} = \frac{\Delta V_h^{+2}}{i \pi - \Omega} + \frac{\Delta V_h^{3-4}}{i \pi - \Omega} + \frac{\Delta V_h^{5-6}}{i \pi - \Omega}$  $\Delta V_{nz} = \frac{60,3}{268,8} + \frac{60,3}{43} + \frac{72,1}{8} = 10.5'$ 



