* Gain → H3-03 قيمة التردد كم في المية من Max عند 10V

Chang from [-999.9% — 999.9%]

by default 100%

* Bias → H3-04 قيمة التردد كم في المية من Max عند 5V

chang from [-999.9% — 999.9%]

by default 100%

$$Gain = \frac{\text{fat 10V}}{\left(\begin{matrix}\text{Max F}\\ \text{E1-04}\end{matrix}\right)} * 100, \quad Bias = \frac{\text{fat0V}}{\begin{matrix}\text{max F}\\ \text{E1-4}\end{matrix}} * 100$$

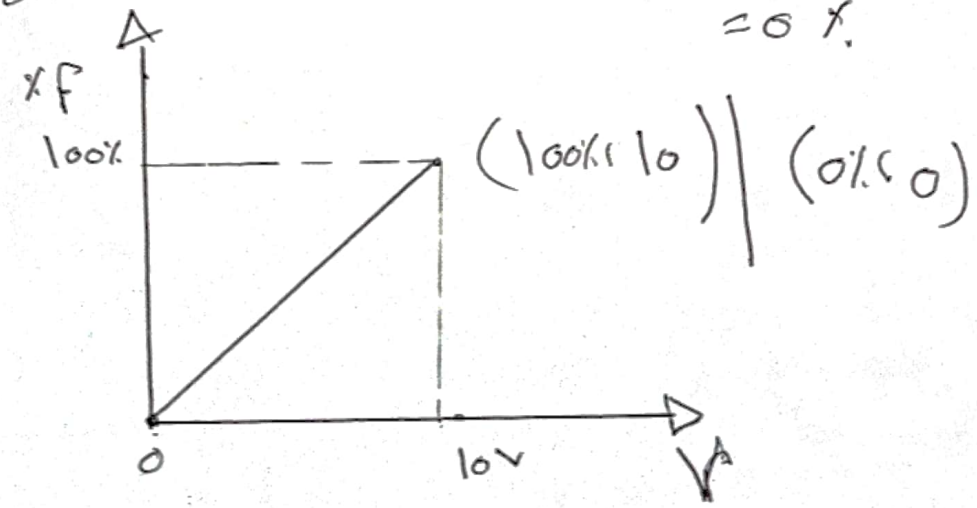
1) Change Frequency from (0-60 HZ) if Max is 60HZ

[0 — 60] HZ

↓ ↑

[0V — 10V]

$$Gain = \frac{60}{60} = 100\%, \quad Bias = \frac{0}{60} * 100 = 0\%$$



(1)

2) Change Frequency From (15-60Hz) if Max is 60Hz

(15 ⟶ 60) HZ

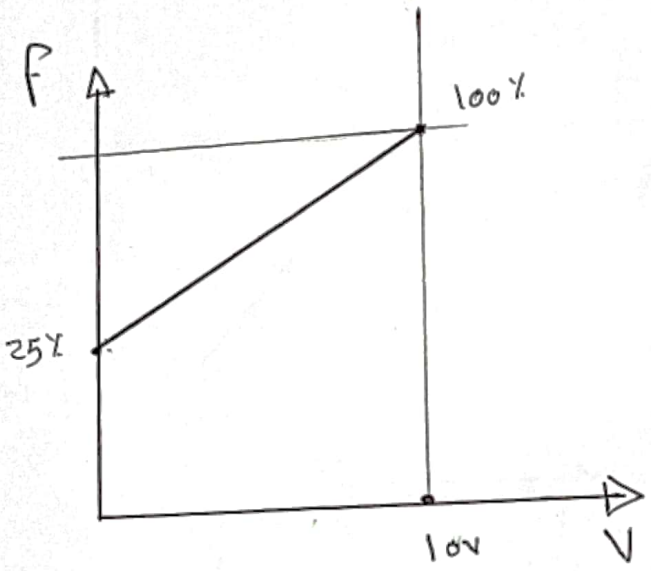
(↓ ⟶ 10V)

0

$$Gian = \frac{60}{60} * 100 = 100\%$$

$$Bias = \frac{15}{60} * 100 = 25\%$$

(100%, 10) , (25%, 0)



3) Change Frequency From (0-30HZ) if fmax is 60HZ

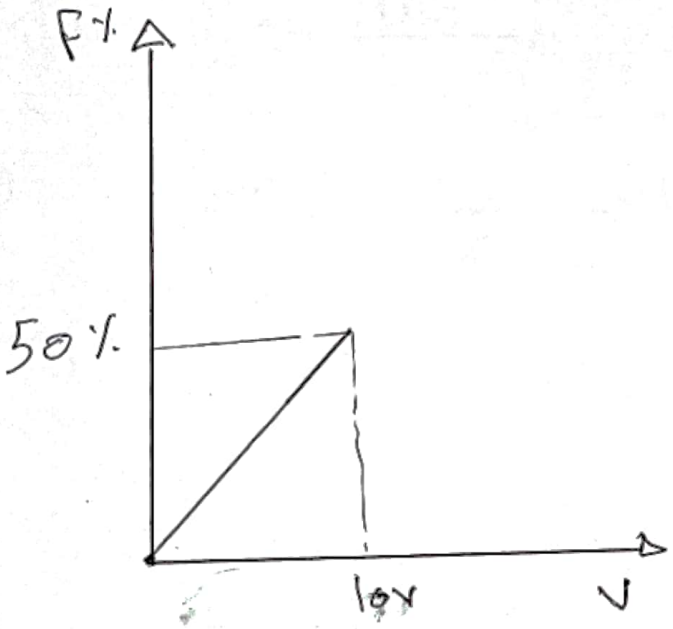
0 — 30 HZ

0 — 10 V

$$\text{Gain} = \frac{30}{60} * 100 = 50\%$$

$$\text{Bias} = \frac{0}{60} * 100 = 0\%$$

(50%, 0) , (0%, 0)



4) change frequency from (0-60HZ) if max 60HZ
if input change ~~(0-5)~~ (0-5)V

$\begin{pmatrix} 0-60 \\ 0-5 \end{pmatrix}$ HZ / V

if 5V → 60HZ
10V → 120HZ

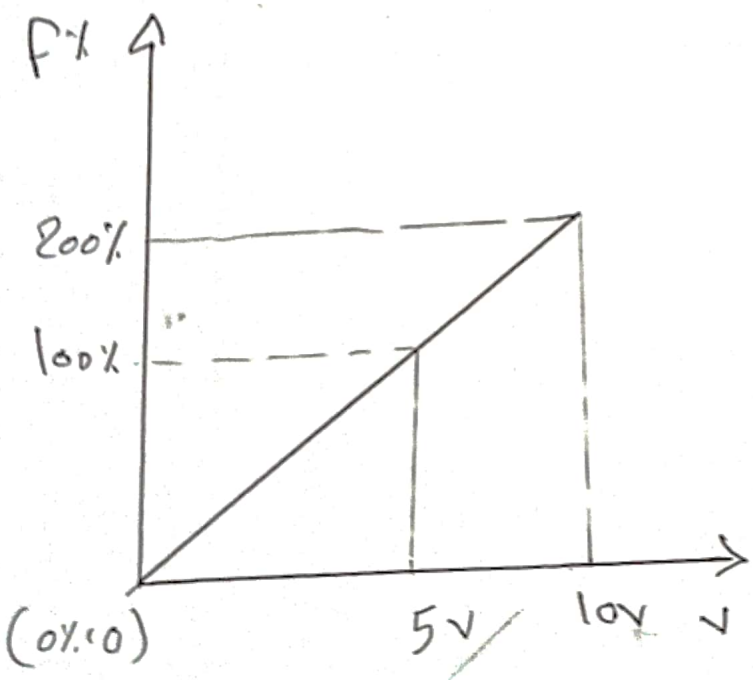
at 5V = $\frac{60}{60} \times 100$
= 100%

Gian = $\frac{120}{60} \times 100 = 200\%$

(0%:0)

Bias = $\frac{0}{60} * 100 = 0\%$

(200%:0)



5) Exchange from (0-60HZ) if Max → 60HZ

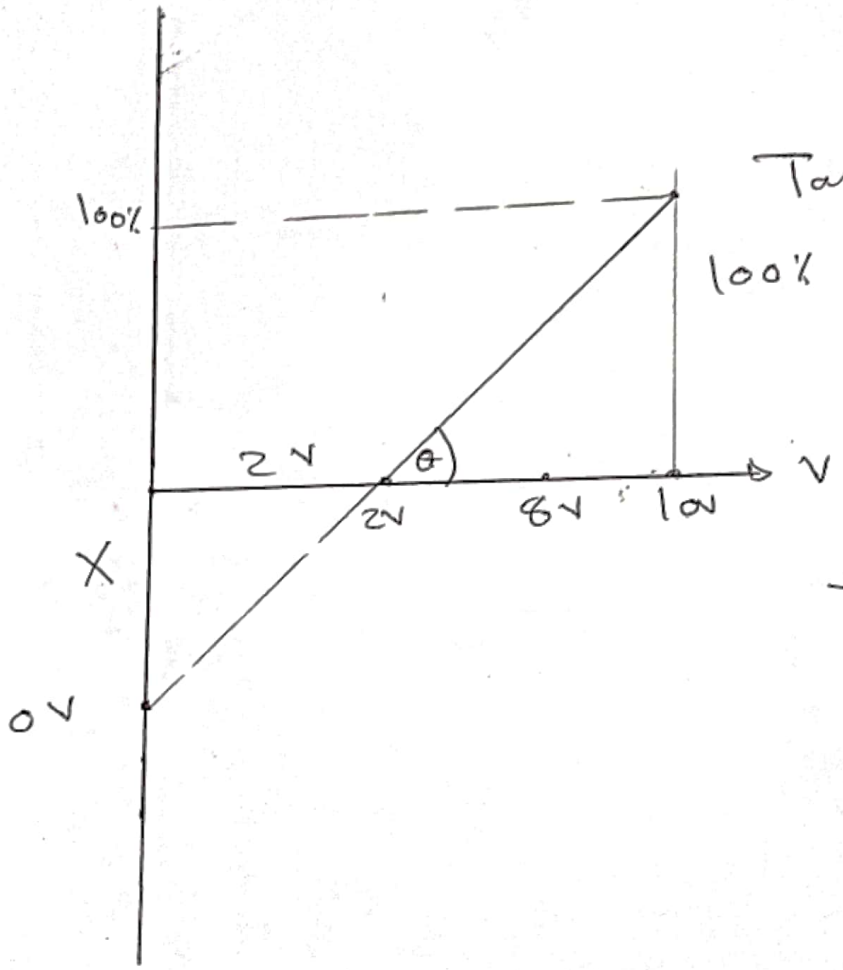
from (2-10V)

0 — 60 HZ

2 - 10V

$$\text{Gain} = \frac{60}{60} * 100\% = 100\%$$

$$\text{Bias} \frac{f_o}{60} * 100\%$$



$$\tan\theta = \frac{100\%}{8} = \frac{X}{2}$$

$$X = -25\%$$

Bias = -25%

Ex Change from (60HZ-0) From analoge (0-10V)

if max f=60 HZ

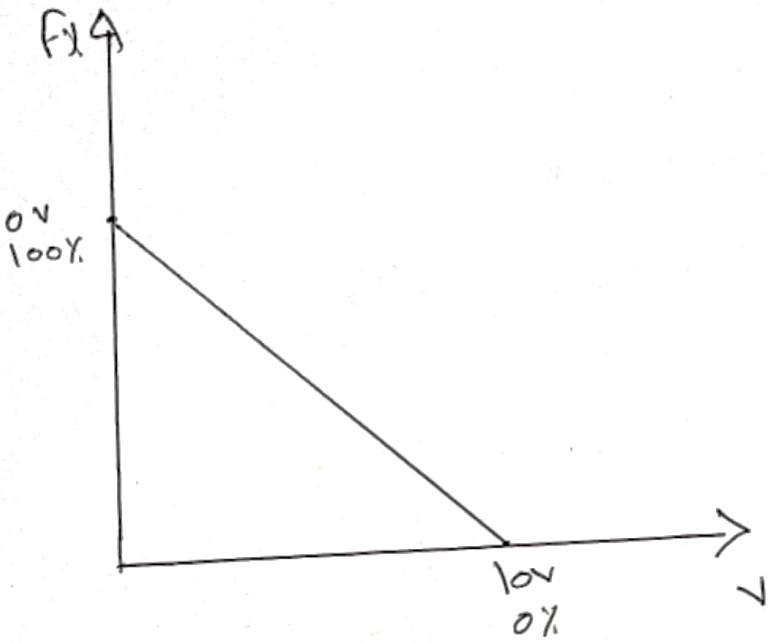
60 — 0 HZ

0 → 10 V

$$Gain = \frac{0}{60} \times 100\% = 0\%$$

$$Bias = \frac{60}{60} \times 100 = 100\%$$

(0%:60) : (100%:0)



Ex (6)

H3-01 Terminal level Selection

Setting (1) 0 – 10v dc with limit in positive only

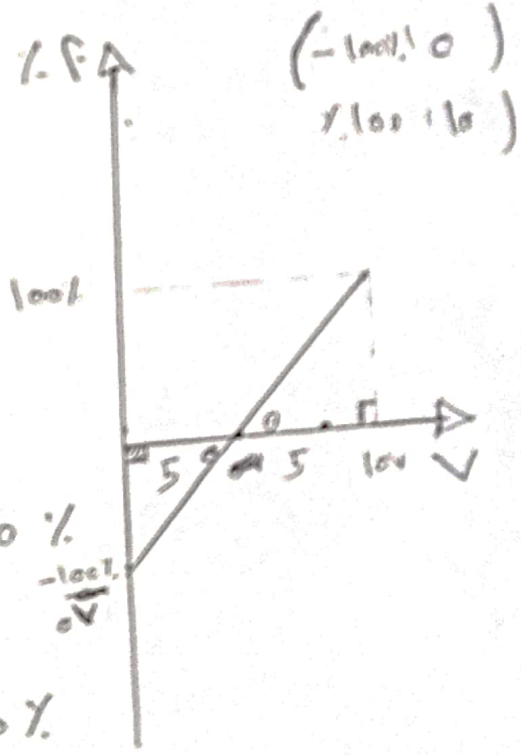
Setting (2) 0 – 10v dc without limit in negative

Setting (3) 4 – 20mA with limit in positive only

Setting (4) 4 – 20mA without limit in negative

EX Change speed (–60HZ To 60HZ) if analog change (0 – 10V)

at max F = 60HZ



–60HZ ⟶ 60HZ

0V ⟶ 10v

$$Gain = \frac{60}{60} \times 100\% = 100\%$$

$$Bias = \frac{-60}{60} \times 100 = -100\%$$

وفي هذة الحالة سوف يتحرك المحرك في الاتجاه العكس من الصفر حتى 5v ومن 5 حتى 10 v يتحرك في الاتجاه الامن

S-Curve characteristics

C2-01 → S-Curve characteristic at Start

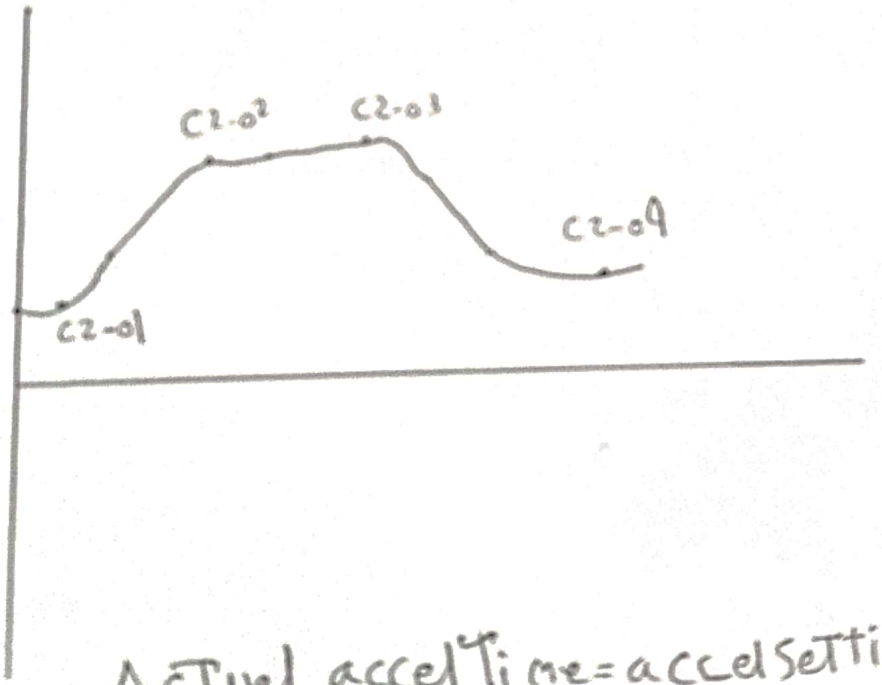
C2-02 → S-Curve characteristic at Accel End

C2-03 → S-Curve characteristic at Decel start

C2-04 → S Curve characteristic at Decel End

Range 0 → 10s

b-) default → 0.2s



Actual accelTime = accelsetting + ((C2-01 + C2-02)/2)

Actual decelTime = decelSetting + ((C2-03 + C2-04)/2)

if C1-01 = 20 , C2-01 = 10, C2-02 = 10

Total = 20 + (10+10)/2 = 30s (8)

Homo → Max

* HI-03 → 15 FaST To sTop (N.O)

→ 17 FaST ToSTop (N.C)

لستخدم للأيقاف المريض بس يتم تصديرة لمستخدم

إذا كتب بداخلها HI-03 فهذا معناه انه وي لستخدم FaST STOP

وتكون النقطة N.O

وإذا كتب بداخلها 17 فهذا معناه انه سيستخدم FaSTSTOP

وتكون النقطة N.C

ACI-09 → FaSTSTOPTime

0 - 6000s by default 10s

iFTimeiso → disbreaking

Task 1 Motor work in Two direction

Fixed

at ~~variable~~ speed at 30HZ

Start and Stop from Push Botton

Start at 2s

Stop at 3s

and breaking by Proximity (N.O)

* bl_01 → 1 El_04 → 60HZ

bl_02 → 1

bl_04 → 1

bl_03 → 0

Cl_01 → 4s ~~4~~s → 60HZ

2 → 30HZ

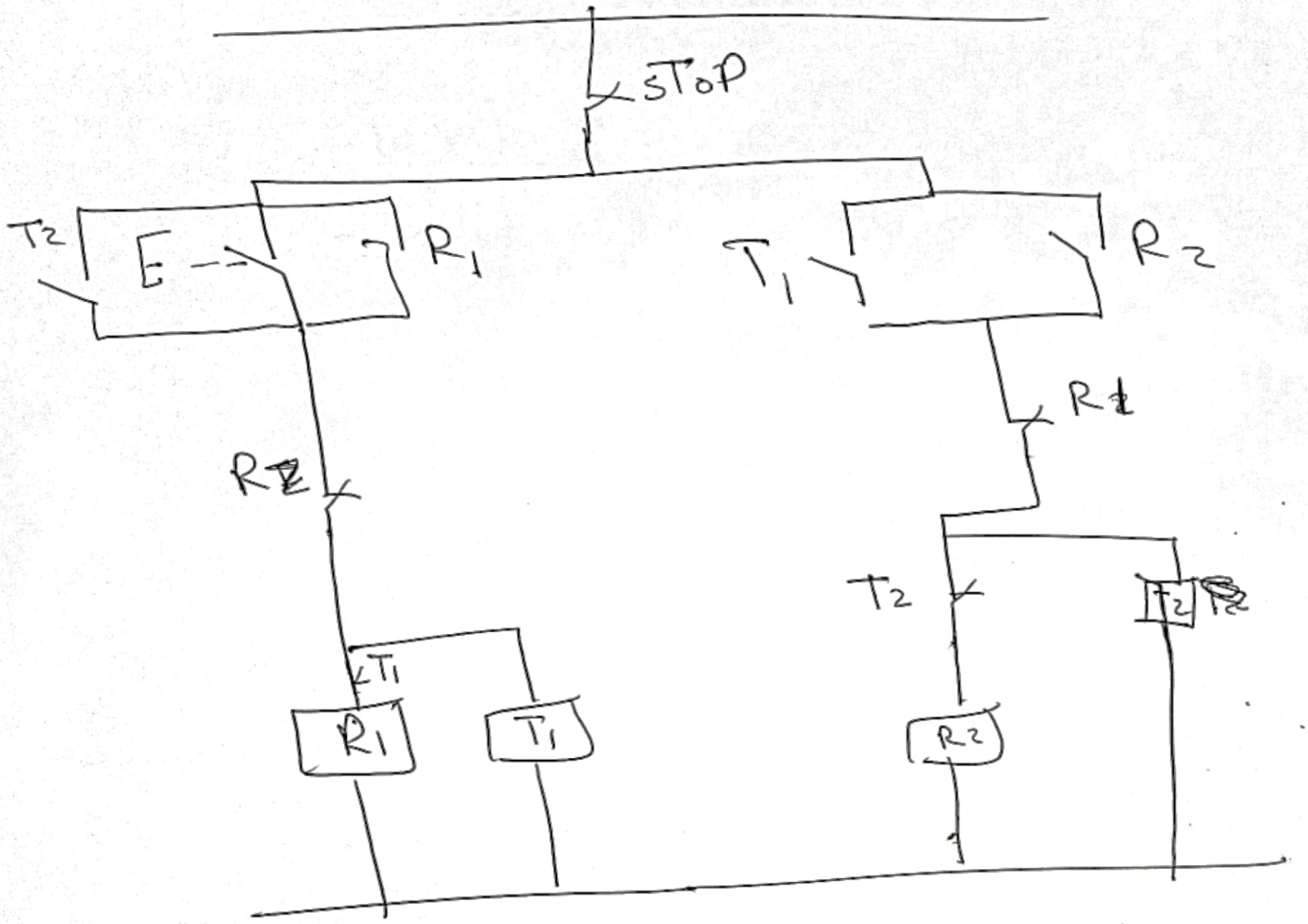
Cl_02 → ~~3~~s X → 60HZ

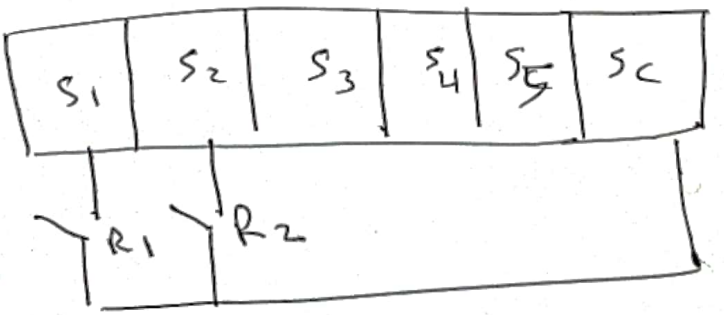
3 → 30

Hl_03 → 17 , Hl_01 → 40

Cl_09 → 05 Hl_02 → 41

(2) دائرة التحكم في محرك يعمل لمدة 5 ثوانٍ ثم يتوقف
على تردد 25Hz كلاسيك





Task3 Motor work at Pressure Analoge Sensor (0-10V)*

if analoge is 0V, Motor work at 25HZ

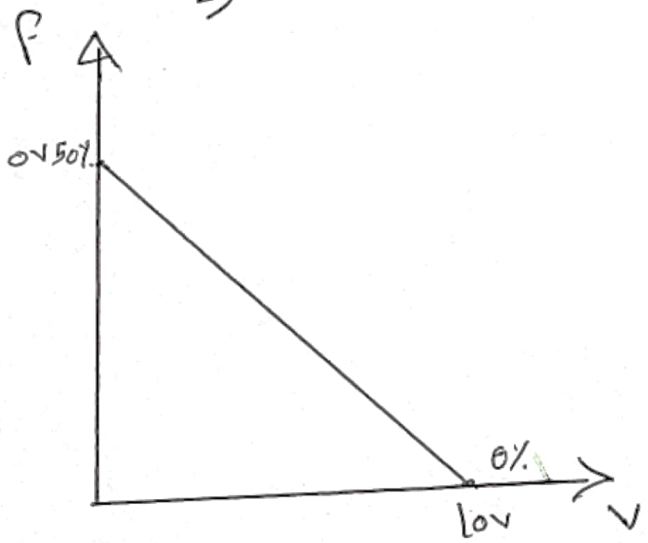
and analoge is 10V, Motor work at 0HZ and max is 50HZ

(0-10V)

(25 - 0) HZ

$$\text{Gain} = \frac{0}{50} \times 100 = 0\%$$

$$\text{Bias} = \frac{25}{50} \times 100 = 50\%$$



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