Deg 2

Deppen motor & bynchronowo modon. · A stepper motor no on electric motor and have a. stotorory part (the staton) and moving part (the rooton) Rotates by Performing Steps Moving fixed amound of [Steepen meton notate by otepulne] - Bus spord Der SILO, Houdre De Las onto. De de la production de la company de la comp

Dt rotates in a Beries of Small Engeling 31eps.

moted of continuously. the readon to original with ch gr 031.

Donking Principle of Dowered Fowered Formany pole Granimor ector energited nor -1121 M. BILD ELECT STEVED STED STOM Control over TITAL GARIS Steppen motor - affirmato Garier cycle Complete aule 500 24660 monda 27610 50 1 counte Step 6 360': 1.8. Step ange 10 7 GR MAXIM Dointogning of tep angle Tolo suro minm step angle 0.72 mox 90. Controlled rasi driver Deppen motor Driving modes & (Bingle Coil CHAMA, 2/M 240 Same
Augusted = nonth pole Cruite - there was no to the same

4 Downword = South " ",

herce 1. phose 90 powered out a time. It (A) cost in Powered thin (N) and (6) 90 Crusted here. As a twent the troton so aligned with imagnative field generated by the cost.

when megnatice theld create zell then # 90' clochuine wife. Some corro B, C, D ala, . Cos 4 Main things here when A on BRD off Bon ACD en ABD " D M ABC M A Roton types Otepper meter 3 types of 4104000. 1) permanent motor - 7to alons with megnatic field. good tongue so motor restoit. (2) voriable reluctonce. it not separally to change of. 3 hyper hypercial traton position regardlem of weather Det a coll 30 powerd Browbach 60 lover open. lower resolution

D. norvable talucture 3 tepper motorie blat stagen motorie olign with megnatic trebes . 94 80 capper to twoch a higher sopered & trapalution · but forque 80 lower, no detent tonque @ Hybrid &teppen amodent? revos sont formit most the here opecific construction and 81 hrs. between parmound magnet and variable. 37 205 [B] 5 M te luctane vension. the has 2 caps with afternating teigh and so magnifical. . D. allows the motor have bight tosalution, operad to and forful what book Develope the luciones. Statons. Thousand the for creating the magnetic field with which the motor to going to align. rothwarust rewal

· Full a tep Mode [ Steppen motor draveing moderate !! · here angle are the are worked mode of good it is the here 2 phones are always ene prowered at the same Jenn. here dep are live on wave mode. [ 1] AB 90 prowerd them N and 5 pale cranted here than I reason so aligned with the negrocitie field gene-trated by the COIT · here the motor on able to produce a higher torque.
Since more curround on thoung on the motor so strong Megnatice field no generale. The state of the s AB STANGE OF THE Be u u DA u DA u 'n BC u

· Half ofep Driving made. . It so the composition of more and full oft. · here otop of 20 tached by half (20. 1) = 45' . Dreambach are torque produced by the motion are · who exphore are energlized 3 to higher, one phre is not constant energized tun 9 to weaver DEB DEB 3 DIP TO STATE OF THE PROPERTY O 

# calculation of step angle. (Stepnen month) Stocker (Health) B = No No. 7 360'
No No. 7 360' a tep angle rusoulation = 860' No of steps

Blep angle Travolution. A motor how 8 mount. poles which have 5 teeth each. I) reston 50 teath. calculate step angle end resolution No = (8xs) = 40 teck (movim 21/12 - starton) B= NS-NR 7360= 50-40 × 360; B =-1.8" twoolution = 360'
Alepangle (B) = 360° = -200 Stepp) ravolution That bear hand to be one was a wood

## Synchronowo Motor

Synchronows motor 90 on AC motor when the trotation of the motor 900 synchron 2ed with the frequency of the supply Current.

3 phne supply.

No forton ( street 2 pales Ns ss)

Roten ( recten poles (Nn, Ms)) · Cloudine staton trotale Tro

rotin voj voldoge Aurim Np spale create ov

H Synchronows Motor coeff ortand method . worning primciple . Girco zelf stord Gay ridy volo zo · reston 20) de supply Files cuttent floor zent regnette field so thin soulth pal north pale ender Staton 20 A c supply Since 20 . Our eyers were Apale the notion statum South fall soller Sports are 7/10 backword Jake 511, entopo Some and Sanc Sp stre Da 20 34 Count stad 9+rul.

50 tector & statue some sopust 27.

Englisher Go Complicated. Comotouletion in easier. · Not self start bist Seld starting Seperate De Soure 900 requiper de galor exocited by Orrud for tooton execution. The Induced em.f. this to compentavely more. This so less compentively efficient than DM efficient than DM This tongue more sensitive. 9to tonque in less son to change in supply of three to change in supply ly voltage