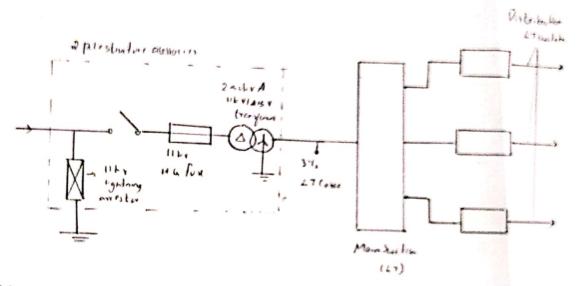
ESD

1) Prow a single line diagram of a pole recented outdoor substation of 250kvA. His vision transport Atoming all receiving parts

May)

10/0/3093



2) Calculate the lood (went, Muse rating, type of starters and Cable size for the following

1) 20HP, 4154, SOH, with 80% effecting

- Assum: p. 1 = 4.8

Asseme 31 : 66711

: fux rating: 63 A (standard value)

Cablesize 25 mm, Hour greek, 3 (oct, element Cordicker, promounted landered labor

Type of states - acto terryouma (sinu 204 P > 15 HP)

11) 40HP, 0.8 p.f., 80% efficiency

-> Assume Vultage, V: 415 V

710. 201735.5 13141310.814.8

7, 1. 1. 67/1

= 102 .3A

: Puse rating : 125 A (stadard radiu)

Cablesize. Tomm, 1100 & grad, 3 Core, Al Conductor, promouted, pro sheathed, unamoured ormound rable.

Typi of sloil 11 - acts tenyormin

111) 75 Hp motu

-) Assumi N= 415V, 7=0.85, pf=0.8

781 = 70 × 736.5 V3 × 415× 0.85×0.8

= 112.854

7st > 1.671p

: fuse rating = 200 A

Prishoothia unamoured ormerod (able

Type of stouter-auto tenyamer.

3) Drow a single line diagram of a transformer substation of Accelors 11k v (415 v dr) lype taryfumer. Specify rolings of each units in 1° and 2° sides with proper fundication.

