

400V G25=0.0035+ JO DEA

Triple Pape (TD) Sam., Truncing, not grouped with other cables

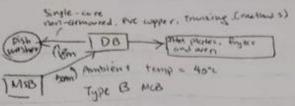
MAN

240	connected hoad second	Sween by Feeter	current abound
Description Or had plates	Tax 900 = 12 99 A fout)	807, 60%	10-39A 1 39 A
1x typer 1x oven	16.31 A) Paragram 15.31 A) Para	100% 60%, 700%, 85%,	175 P 334A 174A, 9 334A, 1899A
S x Myray	55 x 400 co 1 1134 A 25000 = 36.08 A	100%	36 o8A
ix fruzer	$\frac{3200}{230} = 13.04A$ $\frac{1200}{230} = 4.36 A (2 - 8.14)$	100%	4 % A, 3 36 A
Le freges lox floorescent	60x 35 x1.8= 11.749	95%	10 67 A
Lauret sea (SIA)	52A	100%	tes In Acid
Remaining (SO(2X20A)	20A		

3-phose demand = 10.39A+ 1.79A+ 19.87A+ 433A+ 11.54A+ 9.872A +6.804A+ 36.08A

	= 101.68 A	Phan B	Phose C
7. bulance	Phose A		
ly Freezer	13.04	435 - 22	3-14-
at tridges	1	7.50	
bo X. Almorescent	3.572	10.66	10.66
Largest GEO	10.66		(0
tomaining 950 _		25 A A	13.91 A sze

b) wax demond = Q7.28 + 10(9) x 0 8 = 104 176 A -> 152A/1



From title 401, CA = 087

Garping: IX Dishwarner, JX Hot plate, IX riger, IX when Scients From table 4B1, 5 Grants, Method 3, G = 0.60 Assume C1 = 1, Ib = (dishwasha) = 36.08A. IN = 40A

Iz = N 7 40 7 76.63 A

From Table 401A, method 3, 3phase, the warest upger value is 89A ... The bin cable size is 25 min /

MSB to DB = L = 50m, Ib = 103 A According to Table 404B, 50mm2, column 4, Z=081 mV/A/m d) Vd = 103 x 0.81 x 50 = 4.1715 V

D8 to dishumsher: L=18m, $I_{b}=36.08A$ According to Table 404B, 25 mm2, when 4, = 150 mV/1/m. Vd = 3608 × 150 × 75 = 1,353 V 1000

.. Total Vd = 4,1715V + 1.363V (MSB+ Dishw) = 5.52 V/

Z MSB to DB = (0.84, 0.14)(50) -> Table 4048, somm*, column +

Z DB to Damander = (1.54, 0.149)(18) -> Table 4048, somm*, column* = (57+13.61)ms2 = 3119 A f) Ze = 1.5.2 For thermal constraints of cec, If' t 5 k252 K= 115 DB to ashursher : of mm2 16 < 5 5 35 $CPC SIZE = \frac{k_1}{k_2} \times 16 = \frac{115}{115} \times 16 = 16 \text{ cmm}^2$ Table 17A, $(R_1+R_2)/m = 1.877 \text{ m s}/m$: $Z_0 = Z_E + 1.387 R_1 + R_2 Y_2$ = $1.5 + \frac{1.361.877}{120} \times 18 = \frac{1.547}{120}$ If = V = 230V = 148.7 A Pg 196, Rating = 30A, IF = 147.7A => t=155 14872 (15) 5 1152 (16)2 33167535 5 3385600 (true) .. The preterive conductor surrisfies the thermal constraints DUGH THE PEOPLE WE MEE!

