1.

A) Motor, 1-ɸ, 3HP

I_L= 17A, I_{CB}=17*2.5=42.5A,   MCB 50A
I_C= 42.5A ,   6mm^2,   2 CORES CU/PVC/PVC

B) MOTOR, 3-ɸ , 10HP

I_L= 17A, I_{CB}=17*2.5=42.5A,   MCB 50A
I_C=42.5, 6mm^2,   3 CORES CU/PVC/PVC

C) MOTOR, 3-ɸ, 50HP

I_L= 79A, I_{CB}=79*2.5=197.5A,   MCCB 200A
I_C= 1.25*79 = 98.75A,   35mm,   3 CORES CU/PVC/PVC

2.

I_1=17A , I_{ST1}=42.5A
I_2=17A , I_{ST2}=42.5A
I_3=79A , I_{ST3}=197.5A
I_{ST}= 197.5 + (17 + 17 + 79 − 79) = 231.5A
MCCB 250   --(1)
I_C= (1.25*79) + (17+17+79-79) = 132.75A
3 CORES CU/PVC/PVC 50mm^2 ----------------------------(2)

3.

A) MCCB: I=93A, I_{ST}=93*2.5=232.5A, MCCB 250 ---------------(1)
B) MCP : I=93A, I_{ST}=93*8=744A, MCP 800 -----------------------(2)
C) MPCP: I=93A, I_{ST}=93*1.25=116.25A, MPCP 125 --------------(3)