ภาคผนวก ก

(โปรแกรมแมตแล็บ)

1.คำสั่งโปรแกรมการทดสอบด้วยจำนวนหม้อแปลง 1 ลูก

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clc
warningoff

disp('Program for DGA analysis & Winding Insulation Resistance Test')

disp('============================================================')

H2   = input('Please Enter H2=');
CH4  = input('Please Enter CH4=');
C2H2 = input('Please Enter C2H2=');
C2H4 = input('Please Enter C2H4=');
C2H6 = input('Please Enter C2H6=');
CO   = input('Please Enter CO=');
disp('========================')
HV1 = input('Insulation resistance HV1=');
HV2 = input('Insulation resistance HV2=');
HV3 = input('Insulation resistance HV3=');
HV4 = input('Insulation resistance HV4=');
HV5 = input('Insulation resistance HV5=');
HV6 = input('Insulation resistance HV6=');
HV7 = input('Insulation resistance HV7=');
HV8 = input('Insulation resistance HV8=');
HV9 = input('Insulation resistance HV9=');
HV10 = input('Insulation resistance HV10=');
disp('- - - - - - - - - - - - - - - ')
LV1 = input('Insulation resistance LV1=');
LV2 = input('Insulation resistance LV2=');
LV3 = input('Insulation resistance LV3=');
LV4 = input('Insulation resistance LV4=');
LV5 = input('Insulation resistance LV5=');
LV6 = input('Insulation resistance LV6=');
LV7 = input('Insulation resistance LV7=');
LV8 = input('Insulation resistance LV8=');
LV9 = input('Insulation resistance LV9=');
LV10 = input('Insulation resistance LV10=');

R1 = CH4./H2;
R2 = C2H2./C2H4;
R3 = C2H2./CH4;
R4 = C2H6./C2H2;
R5= C2H4./C2H6;
HVPI=  HV10./HV1;
LVPI=  LV10./LV1;

disp('========================')
if H2<=200 & CH4<=240 & C2H2<=2 & C2H4<=100 & C2H6<=130 & CO<=700;
out=0;
else
```