POWER SYSTEMS PROTECTION LABORATORY

REPORT

TESTING OF OVERCURRENT RELAYS

1. INTRODUCTION

2. THEORY

3. EXPERIMENTAL METHOD

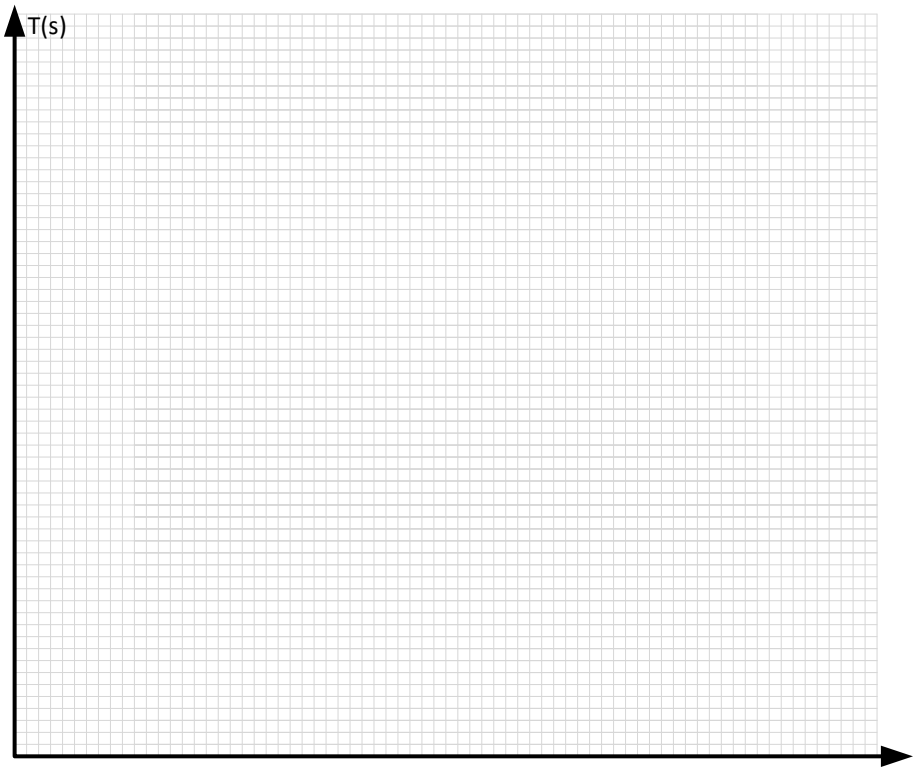
4. EXPERIMENT RESULTS

1. Table 2, Write the first measurement results and draw the current rate-time graph that will occur in line with these results in a scaled manner.

xT = 0,4

I_{sg} > (A) = 1

Input Current (A)	Trip Time (s)	Input Current (A)	Trip Time (s)
1.2		5.5	
1.4		6.0	
1.6		6.5	
1.8		7.0	
2.0		7.5	
2.5		8.0	
3.0		8.5	
3.5		9.0	
4.0		9.5	
4.5		10.0	
5.0			



2. Explain the relationship between the generated current-time curve and the overcurrent relay initial values. Which values will be affected by the change in this graph and how?

3. Table 2, Write and interpret your second measurement results.

1. Case		**2. Case**	
xt	0,4	xt	0,4
$I_{s\ g}$> (A)	1	$I_{s\ g}$> (A)	2
Input Current	2 A	Input Current	4 A
Trip Time		Trip Time	

4. Table 2, Write and interpret your third measurement results.

1. Case		**2. Case**	
Xt	0,2	Xt	0,6
Is $_g$ > (A)	1	Is $_g$ > (A)	1
Input Current	4 A	Input Current	4 A
Trip Time		Trip Time	

5. Table 2, Write and interpret your fourth measurement results.

xT = 0.4
I>>xI_s =4

Input Current (A)	Trip Time (s)
2.5	
4	
5	

6. EVALUATION