

“Don’t let Overheating in Your Boards be a Cause for Equipment Failure”

Hot Stuff!

Now You can Easily prevent overheating in Your Boards by knowing the temperatures long before you energize the board because overheating is a major cause of equipment failure and reduces the life of equipment and cables!

Prevention is the Best Cure!

By Knowing the internal temperatures of your boards You can easily take preventative action to ensure Your equipment’s longevity and reliability.

Stay in the Know!

Finding the Working temperatures in Your Boards is as Easy as:-
Input the dimensions of **Your** board (Width, Length, Height), and selecting the equipment fitted.

Push the “**Calculate**” button and Your **Results** are **Instantly** displayed **Revealing** the temperature Rise at the Mid-point and Top of Your boards...**Simply Brilliant!**

Be in Control!

You can add Vents to Your boards by simply inputting the dimensions (length and width) in this way you can know and control the final temperatures long before they are switched on...**Just Incredible!**

Printout a Full Report, Save all Your work.

Find the Temperature Rise in Your Boards and Load Centers

1. Distribution Boards
2. Motor Control Centers
3. Switch Boards
4. Load Centers

Heating of Enclosures

File

Project Information

Project Name: Main Office's Customer: Date: 20/10/2005

Done by: J Smith Address:

Enclosure

Enclosure I.D.: DB 1 Main Office Enclosure No.: 1

Horizontal Divisions: 1

Ventilation Openings: Without With

Units: Millimeters Inches

Height: 1200 47.24

Width: 2000 78.74

Depth: 450 17.72

Placing of the enclosure:

Separate enclosure, detached on all sides

Separate enclosure for wall-mounting

First or last enclosure, detached type

Results

Effective cooling surface: 6.552 m2 Temp. rise of air at mid-height of enclosure (Internal): 13.81 K

Enclosure constant K: 0.136 Temp. rise of air at top of enclosure (Internal): 17.36 K

Conditions for application!...

Reset **Calculate**

Installed Equipment

Contactor

MC

CL

1 Poles

3 Poles

9 Amps

Device properties

Manufacturer	Dev. Type	Model	Frame	Mounting
GE	Contactor	CL	N/A	N/A

Trip Unit	Poles	Fault Rating (kA)	Current Rating	Watts	New	Edit	Delete
N/A	3 Poles	N/A	9 Amps	2.77			

Number of devices to add to the enclosure: 10 Add to table

Edit from table

Delete from table

Devices in the Enclosure

No.	Manufacturer	Dev. Type	Model	Frame
1	GE	ACB	MPACT	N/A
2	GE	ACB	MPACT	N/A
3	GE	Contactor	MC	N/A

Total Heat From Installed Equipment: 274.00 Watts

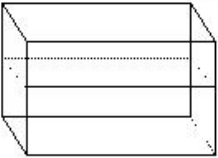
Input Heat from bus bars and cables (watts):

Input Heat from other sources (watts): 20

Total Heat generated in the enclosure: 294.00 watts

A Full Report is produced ready to Print

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Temperature rise of the enclosures												
Project: Main Office's Customer: Address:						Date: 20/10/2005						
Done By: J Smith												
Enclosure I.D.: DB 1 Main Office												
	Inputs						Results					
	Height: 1200 mm						Effective cooling surface: 6.552 m2					
	Width: 2000 mm						Enclosure constant K: 0.136					
	Depth: 450 mm						Temp. Rise of air at mid-height (Internal): 13.81 K					
	Placement of the Enclosure: Separate enclosure, detached on all side						Temp. Rise of air at top (Internal): 17.36 K					
	No. Divisions: 1						Air Inlet cross area:					
	Heat from Equipment: 274.00 Watts						Air Outlet cross area:					
	Other heat generated: 20.00 Watts											
	Heat from Busbars/cables:											
	Total heat generated: 294.00 watts											
Equipment Installed												
Manufac.	Dev. Type	Model	Frame	Mount	Trip Un.	Poles	kA rat.	Rating	W. Dis.	Qty	Total W.	
GE	ACB	MPACT	N/A	Fixed	N/A	3 Pol	50 kA	400 Amp	16	10	160	
GE	ACB	MPACT	N/A	Fixed	N/A	3 Pol	50 kA	630 Amp	39	1	39	
GE	Contact	MC	N/A	N/A	N/A	3 Pol	N/A	12 Amps	4.684	10	46.84	
GE	Contact	CL	N/A	N/A	N/A	3 Pol	N/A	9 Amps	2.77	10	27.7	
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