

Physical Science:

Chapter 3 Matter & Energy



Thermal Energy

- Thermal energy is the _____ *amount of _____ energy in a substance.*
 - *Also called heat content*
- *It depends on:*
 1. The average energy of the substance (_____)
 2. **HOW MUCH** of the substance there is (*the* _____)

Physical Science Chapter Energy

Yan Bai



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web desire maximum current rating of bus bar 630amp fault current i sc 50ka fault duration t 1sec the operating temperature rises for the busbar is operating temperature of bus bar θ 85 c final temperature of bus bar during fault θ 1 185 c temperature rise of bus bar bar during fault θ t θ 1 θ 100 c ambient

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web knowing required ampacity determine possible bus bar dimensions from this table then check the ampacity table to verify that size selected has the necessary ampacity example assume that required ampacity is 185 amps at 30 c rise this table indicates that 1 16 x 1 in size would probably be adequate this is confirmed by the ampacity

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web cross sectional area and the length determine bus bar conductor size cross sectional area 4 is equal to conductor thickness t multiplied by conductor width w a value of approximately 400 circular mils per ampere is a traditional basis for

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