

Explanation Of Heavy Or Normal Duty Rating Of AC Inverters

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An AC inverter drive can either be rated as heavy duty or normal duty or have a dual heavy/normal duty rating. The heavy or normal duty rating is based on the overload capacity of the drive and the type of application it is generally going to be used on.

Heavy Duty

Heavy duty is an industry standard name given to the current rating of a drive that is used in constant torque application or applications that require a high overload capacity. Examples of high overload capacity applications can be cranes and hoists.

A heavy duty drive will typically have an overload capacity of 150% drive rated current.

Normal Duty

Normal duty is an industry standard name given to the current rating of a drive that is used in variable torque applications or applications that require low overload capacity. Examples of low overload capacity applications can be fans or pumps.

A normal duty drive will typically have an overload capacity of 110% drive rated current.

With a dual rated drive, the drive rated current set for the heavy duty overload can be increased to give a higher drive rated current but a lower overload.



Example

If a drive has a heavy duty drive rated current of 10A, its 150% overload capacity will be 15A.

For the same drive, its normal duty drive rated current will be 13.6A with its 110% overload still being 15A.

Typical graph or heavy and normal duty overload ratings

