



Technical Information Power Units & Accessories



Hydraulic Power Units

GC8000/GC8001 Series Motor Duty Cycle

The curves below relate maximum on-time and percent on-time to motor current for the available motors. "Duty Cycle" refers to the length of time the motor can be run at a specific current before it must be turned off and allowed to cool.

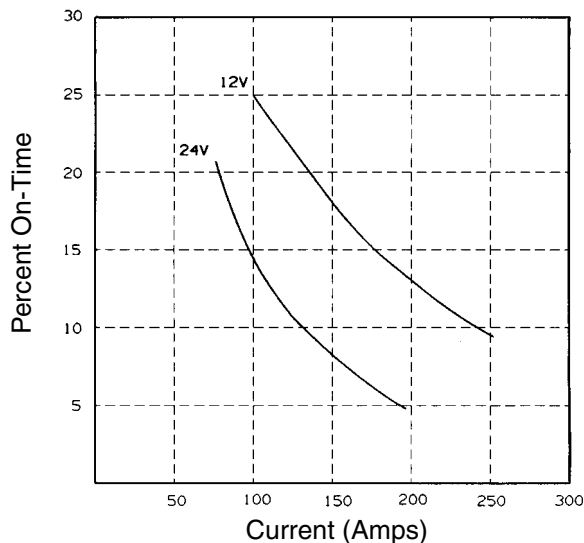
Allowable Percent On-Time is based on a percentage of a 5-minute or shorter duty cycle. For example, on the percent on-time curve, the 24 VDC motors at a current draw of 130 amps are capable of 10% on-time. The motor could be run for 30 seconds, then must be turned off and allowed to cool for 4-1/2 minutes. This duty cycle (30 seconds on, 4-1/2 minutes off) can then be repeated continuously. This ratio of 10% on-time to 90% off-time applies to any duty cycle of 5 minutes or less.

Maximum On-Time is the absolute maximum continuous operating time at a specific current draw. For example, on the maximum on-time curve, the 12 VDC motors at a current draw of approximately 155 amps could be run for 5 minutes continuously. The motor should then be turned off and allowed to cool to ambient temperature. Having reached ambient temperature, the motor can again be run for 5 minutes. This run/cooling cycle can be continuously repeated.

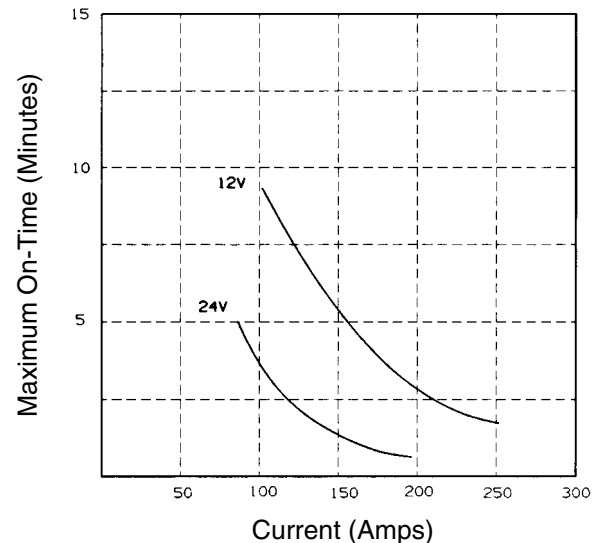
Note: The thermal characteristics of percent on-time and maximum on-time of the standard duty and medium duty motors are identical. The medium duty motors are UL listed and do offer extended brush life over the standard duty motors.

Motor damage may result from operation outside the curve parameters as shown below.

Allowable Percent On-Time



Maximum On-Time (Minutes)



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