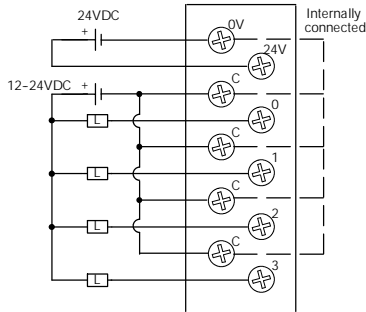
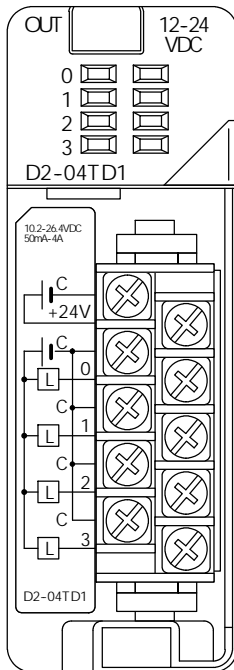
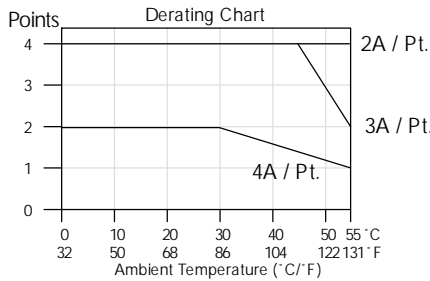


# DC Output Modules

D2-04TD1 DC Output	
<b>Outputs per Module</b>	4 (current sinking)
<b>Output Points Consumed</b>	8 points (only first 4 pts. used)
<b>Commons per Module</b>	1 (4 I/O terminal points)
<b>Output Type</b>	NMOS FET (open drain)
<b>Operating Voltage</b>	10.2-26.4 VDC
<b>Peak Voltage</b>	40 VDC
<b>ON Voltage Drop</b>	0.72 VDC maximum
<b>AC Frequency</b>	N/A
<b>Max Load Current (resistive)</b>	4A/point 8A/common
<b>Max Leakage Current</b>	0.1 mA @ 40 VDC
<b>Max Inrush Current</b>	6A for 100 ms, 15A for 10 ms
<b>Minimum Load Current</b>	50 mA

<b>External DC Required</b>	24 VDC @ 20 mA max.
<b>Base Power Required 5VDC</b>	60 mA
<b>OFF to ON Response</b>	1 ms
<b>ON to OFF Response</b>	1 ms
<b>Terminal Type (included)</b>	Removable; D2-8IOCON
<b>Status Indicator</b>	Logic side
<b>Weight</b>	2.8 oz. (80 g)
<b>Fuses</b>	4 (1 per point) (6.3 A slow blow, non-replaceable)



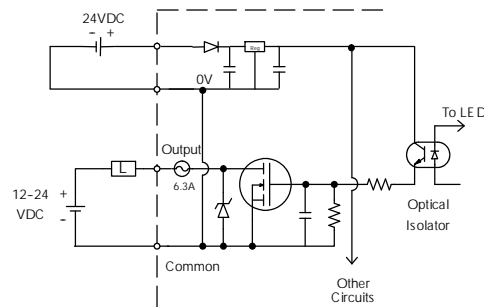
Inductive Load  
Maximum Number of Switching Cycles per Minute

Load Current	Duration of output in ON state		
	7ms	40ms	100ms
0.1A	8000	1400	600
0.5A	1600	300	120
1.0A	800	140	60
1.5A	540	90	35
2.0A	400	70	-
3.0A	270	-	-
4.0A	200	-	-

At 40 mS duration, loads of 3.0A or greater cannot be used.

At 100 mS duration, loads of 2.0A or greater cannot be used.

Find the load current you expect to use and the duration that the output is ON. The number at the intersection of the row and column represents the switching cycles per minute. For example, a 1A inductive load that is on for 100 ms can be switched on and off a maximum of 60 times per minute. To convert this to duty cycle percentage use:  $(\text{duration} \times \text{cycles})/60$ . In this example,  $(60 \times .1)/60 = .1$ , or 10% duty cycle.



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