

<b>Team Number:</b>	103
<b>Project Name:</b>	Automatic Door Opener (motor)
<b>Team Member Names:</b>	Isaac Smith
<b>Version:</b>	1

All Major Components	Component Name	Part Number	Supply Voltage Range	#	Absolute Maximum Current (mA)	Total Current (mA)
Potentiometer	PTA3043-2010C	PTA3043-2010C	0-350	1	0	0
H-bridge	L9110H H-Bridge	4489	2.5V-12V	1	800	800
Motor	High Torque 12V	5840WG-555PM	0-12V	1	650	650
Microcontroller	PIC18F57Q43-C	DM164150	+1.8 - 5.5V	1	350	350
					<b>Subtotal</b>	1450
					<b>Safety Margin</b>	15%
					<b>Total Current</b>	1667.5
<b>SOURCE</b>					<b>Total Remaining</b>	3332.5
(+)12V Rail	Component Name	Part Number	Supply Voltage Range	#	Absolute Maximum Current (mA)	Total Current (mA)
Potentiometer	PTA3043-2010C	PTA3043-2010C	0-350	1	0	0
H-bridge	L9110H H-Bridge	4489	2.5V-12V	1	800	800
Motor	High Torque 12V	5840WG-555PM	0-12V	1	650	650
					<b>Subtotal</b>	1450
					<b>Safety Margin</b>	15%
					<b>Total Current</b>	1667.5
<b>SOURCE</b>	12V 5A switching	352	110V-220V	1		5000
					<b>Total Remaining</b>	3332.5
(+)5V rail	Component Name	Part Number	Supply Voltage Range	#	Absolute Maximum Current (mA)	Total Current (mA)
Microcontroller	PIC18F57Q43-C	DM164150	+1.8 - 5.5V	1	350	350
					<b>Subtotal</b>	
					<b>Safety Margin</b>	
					<b>Total Current</b>	
<b>SOURCE</b>	+5V Regulator	LM7805	+5 - 35V	1	1500	1500
					<b>Total Remaining</b>	

External Power Source 1	Component Name	Part Number	Supply Voltage Range	#	Absolute Maximum Current (mA)	Total Current (mA)
Power Supply	12V 5A switching	352	110V-220V	1	5000	5000