

9.3.2 DC Motor Controls

Figure 9 and Figure 10 below depict a typical setup for using the L293 device as a controller for DC motors. Note that the L293 device can be used as a simple driver for a motor to turn on and off in one direction, and can also be used to drive a motor in both directions. Refer to the [Recommended Operating Conditions](#) when considering the appropriate input high and input low voltage levels to enable each channel of the device.

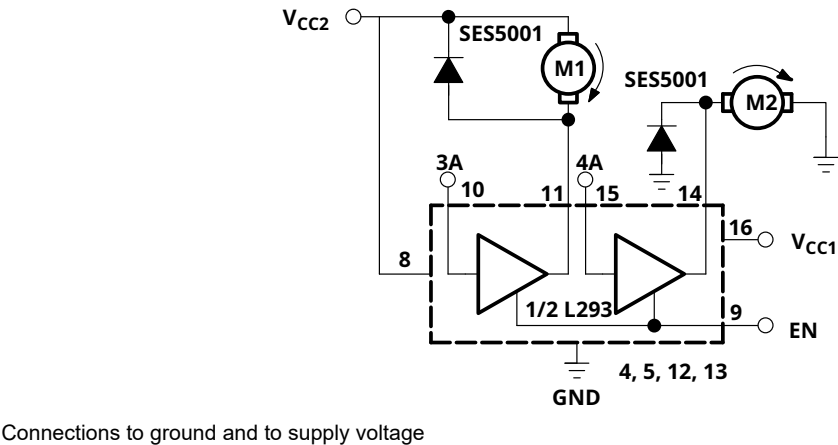


Figure 9. DC Motor Controls

Table 2. Unidirectional DC Motor Control

EN	3A	M1 ⁽¹⁾	4A	M2
H	H	Fast motor stop	H	Run
H	L	run	L	Fast motor stop
L	X	Free-running motor stop	X	Free-running motor stop

(1) L = low, H = high, X = don't care

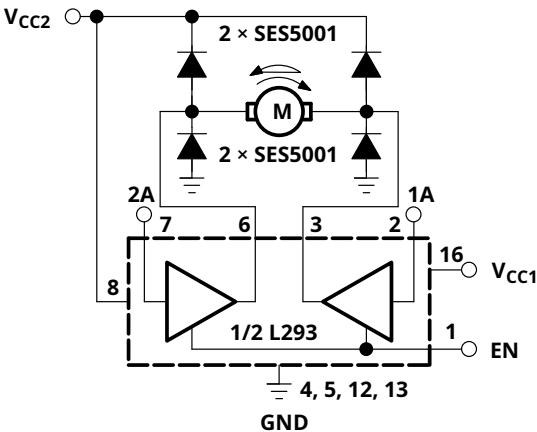


Figure 10. Bidirectional DC Motor Control

Table 3. Bidirectional DC Motor Control

EN	1A	2A	FUNCTION ⁽¹⁾
H	L	H	Turn right
H	H	L	Turn left
H	L	L	Fast motor stop
H	H	H	Fast motor stop
L	X	X	Free-running motor stop

(1) L = low, H = high, X = don't care

