

SRAC2

AC Input Step Motor Drive

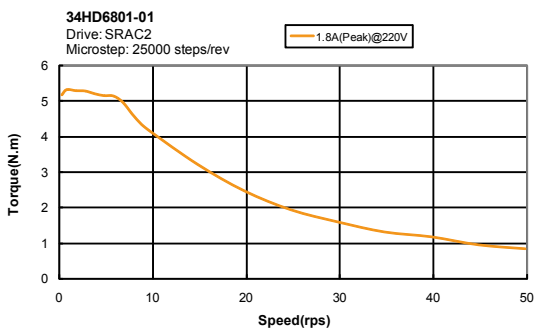
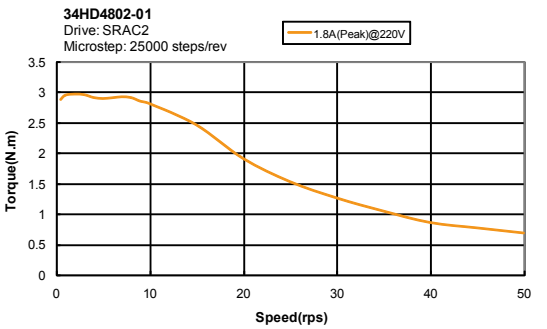
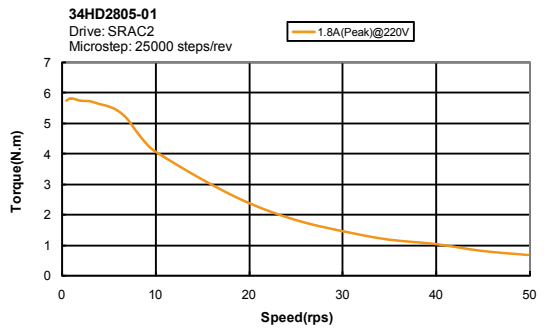
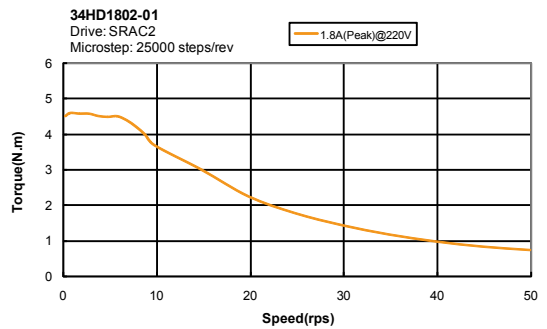
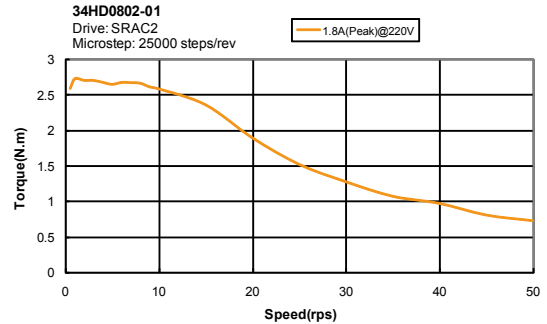
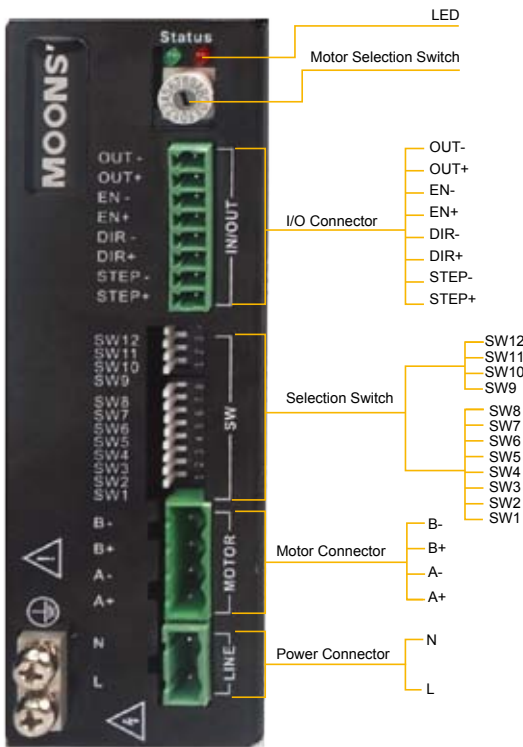
Torque Curves

The torque curves below were generated using some of the recommended motors.

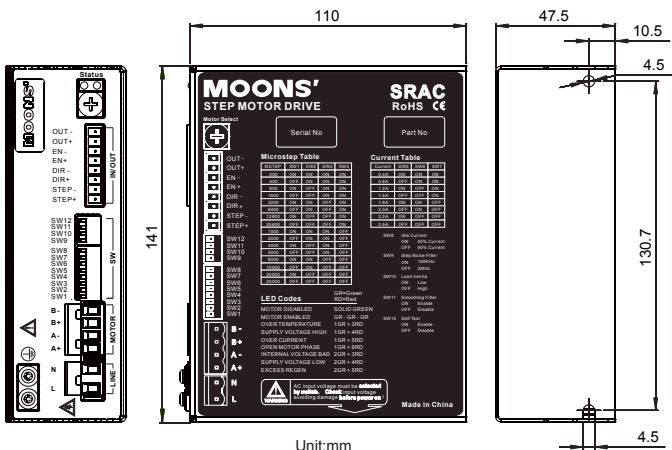
Description

The SRAC2 drive is a high performance, cost effective 2 phase AC step drive. The design is based on advanced digital current control technology, providing high torque, low noise, and low vibration. The running current, microstep resolution, and other parameters are switch selectable.

Connections - Inputs & Outputs



Mechanical Drawings



Specifications				
Electrical Specifications				
Parameter	Min.	Typ.	Max.	Unit
Power Supply	80	-	265	VAC
Output Current (Peak)	0.6	-	2.5	A
Step Frequency	2	-	2M	Hz
STEP Minimum Pulse Width Hi and Low	250	-	-	ns
DIR Minimum Pulse Width	62.5	-	-	us
Under Voltage Protection	-	75*/135*	-	VAC
Over Voltage Protection	-	145*/295*	-	VAC
STEP/DIR Input Signal Voltage	4.0	-	28	V
OUT mximum output current	-	-	100	mA
OUT maximum voltage	-	-	30	V
* Note: when the input switch is on 115V status, under voltage protection point is 75VAC, over voltage protection point is 145VAC. when the input switch is on 230V status, under voltage protection point is 135VAC, over voltage protection point is 295VAC.				
Environmental Specifications				
Heat Sinking Method	Natural cooling or fan-forced cooling			
Surrounding Air Conditions	Avoid dust, oily mist and corrosive air			
Operating Temperature	0 - 40°C (32 - 104°F)			
Maximum Ambient Humidity	90% non-condensing			
Shock	5.9m/s ² maximum			
Storage Temperature	-10 - 70°C (14 - 158°F)			

Switch Selections - Parameters selectable by a switch or a combination of ON/OFF settings of 2 or more switches.				
Microstep resolution - 4 switches for a total of 16 settings:				
Microstep(steps/rev)	SW1	SW2	SW3	SW4
200	ON	ON	ON	ON
400	OFF	ON	ON	ON
800	ON	OFF	ON	ON
1600	OFF	OFF	ON	ON
3200	ON	ON	OFF	ON
6400	OFF	ON	OFF	ON
12800	ON	OFF	OFF	ON
25600	OFF	OFF	OFF	ON
1000	ON	ON	ON	OFF
2000	OFF	ON	ON	OFF
4000	ON	OFF	ON	OFF
5000	OFF	OFF	ON	OFF
8000	ON	ON	OFF	OFF
10000	OFF	ON	OFF	OFF
20000	ON	OFF	OFF	OFF
25000	OFF	OFF	OFF	OFF
Idle Current (SW8) - 1 switches for a total of 2 settings:				
Idle	SW8			
50%	ON			
90%	OFF			
Running current - 3 switches for a total of 8 settings:				
Current(Peak)	SW5	SW6	SW7	
0.6A	ON	ON	ON	
0.8A	OFF	ON	ON	
1.0A	ON	OFF	ON	
1.2A	OFF	OFF	ON	
1.6A	ON	ON	OFF	
1.8A	OFF	ON	OFF	
2.0A	ON	OFF	OFF	
2.5A	OFF	OFF	OFF	
Step Input Signal Filter (SW9) - ON for 150 kHz, OFF for 2 MHz				
Anti-Resonance (SW10) - 1 switches for a total of 2 settings:				
Option	SW10	Inertia		
0	ON	Low		
1	OFF	High		
Step Smoothing Filter (SW11) - ON to enable, OFF to disable				
Self test (SW12) - ON for 1 rev CW/CCW 0.5 rps self test, OFF for none				