

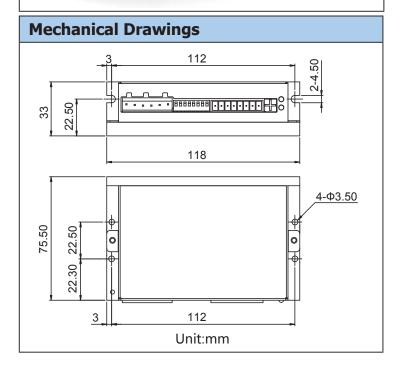
SR8

Step Motor Drive

Description

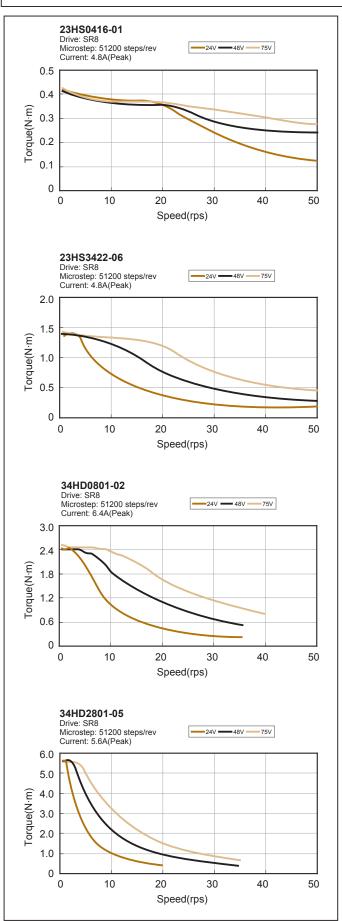
The SR8 series drive is a cost-effective, high performance 2 phase step drive. The design is based on advanced digital current control technology, and features high torque, low noise, and low vibration. The running current and microstep resolution are switch selectable.

Connections - Inputs & Outputs LED Rotary Switch **FAULT Output EN** Input **DIR** Input STEP Input SW8 Selection SW₁ **Switches** B+ Motor Connections Α+ Power Connector Grounding screw



Torque Curves

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



Specifications								
Electrical Specifications								
Parameter	Min.	Тур.	Max.	Unit				
Power Supply	24	-	75	VDC				
Output Current (Peak)	2.4	-	7.8	amps				
STEP/DIR Input Signal Average Forward Current	6	10	15	mA				
Step Frequency	2	-	2M	Hz				
STEP Minimum Pulse Width Hi and Low	250	-	-	ns				
DIR Minimum Pulse Width	50	-	-	us				
Under Voltage Protection	-	20	-	VDC				
Over Voltage Protection	-	85	-	VDC				
STEP/DIR Input Signal Voltage	4.0	-	28	VDC				
Driver Initialization Time	-	-	2.5	S				
Environmental Specifications								
Heat Sinking Method	Natural coc	Natural cooling or fan-forced cooling						
Surrounding Air Conditions	Avoid dust,	Avoid dust, oily mist and corrosive air						
Operating Temperature	0 - 40°C (3	0 - 40°C (32 - 104°F)						
Maximum Ambient Humidity	90% non-c	90% non-condensing						
Shock	5.9m/s ² ma	5.9m/s ² maximum						
Storage Temperature	-10 - 70°C	-10 - 70°C (14 - 158°F)						

Switch Selections

Running current, idle current, microstep resolution and self test are selectable by a switch or a combination of on/off settings of 2 or more switches.

Running current - 3 switches for a total of 8 settings:

Peak	SW1	SW2	SW3
2.4A	ON	ON	ON
3.2A	OFF	ON	ON
4A	ON	OFF	ON
4.8A	OFF	OFF	ON
5.6A	ON	ON	OFF
6.4A	OFF	ON	OFF
7A	ON	OFF	OFF
7.8A	OFF	OFF	OFF

Idle Current (SW4) - ON for 50% of running value, OFF for 90%

Microstep resolution - 3 switches for a total of 8 settings:

Microstep(step/rev)	SW5	SW6	SW7
400	ON	ON	ON
800	OFF	ON	ON
1600	ON	OFF	ON
3200	OFF	OFF	ON
6400	ON	ON	OFF
12800	OFF	ON	OFF
25600	ON	OFF	OFF
51200	OFF	OFF	OFF

Self test (SW8) - ON for self test, OFF for none



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