

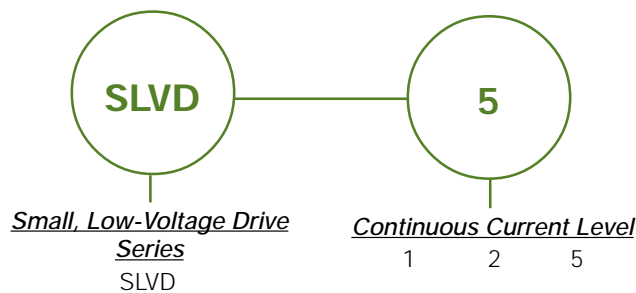


## Small, Low-Voltage Digital Servo Drive

The SLVD (Small, Low-Voltage Drive) is a powerful and compact digital servo drive available for use with 240V input providing up to 5 Amps of continuous current (RMS). This equates to 1.5kW of shaft power. It accepts standard drive signals –  $\pm 10V$  analog and step & direction signals.

In addition to standard drive operation, the SLVD has simple position control functionality. The user has the ability to set preset moves, program I/O, solve following applications and carry out camming functions. It also has an internal PLC for simple machine control functions with up to 15 instructions. A CANBUS interface is also available.

### SLVD Part Numbering System



Example: SLVD5

Optional Keypad part number  
SK130 KEYPAD

### SLVD Features

- Up to 5 Amps of continuous current (RMS)
- Optional keypad interface for drive configuration, monitoring and application commands
- Standard D-shell and removable screw terminal connectors
- Resolver feedback
- 240 VAC, 3-phase operation
- $\pm 10V$  velocity and torque control
- Step & direction input for position control
- 24 Volt Keep Alive (required)
- RS422/485 communication
- CE (EMC & LVD)

### Additional control features

- Position preset mode – drive can be set up to perform simple trapezoidal moves.
- Following (digital locking) – drive can ratiom against encoder signal; acceleration and slip speeds can also be set.
- Electronic cam profiling – cam profiling up to 257 elements.
- CANBUS interface – can be used in communication mode and in real-time mode.
- Internal PLC – drive can be programmed via keypad or with a ladder diagram system.
  - Scan time: 6.144 mS
  - Timers: 2
  - Instructions: 15
  - Stack depth: 1
  - Program steps: 64
  - Mathematics operation: 16/32 bits
  - Fast inputs (fast copy): 3 - 512 microseconds

**SLVD Common Specifications**

	SLVD1	SLVD2	SLVD5
<b>Drive Input Power</b>			
Voltage	230V±10%	230V±10%	230V±10%
Phase	3Ø	3Ø	3Ø
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
<b>Drive Output Power</b>			
Bus voltage @ 240VAC	340VDC	340VDC	340VDC
PWM	8kHz	8kHz	8kHz
Continuous current (peak of sine)	1.75A	3.54A	7.07A
Continuous current (RMS)	1.24A	2.5A	5A
Peak current (peak of sine)	3.54A	7.07A	14.14A
Peak current (RMS)	2.5A	5A	10A
Commutation	Sinusoidal	Sinusoidal	Sinusoidal
<b>Performance</b>			
Feedback	Resolver	Resolver	Resolver
<b>Inputs</b>			
Command velocity and torque mode	±10V	±10V	±10V
Command position mode	Step/direction input 800kHz max	Step/direction input 800kHz max	Step/direction input 800kHz max
Digital inputs (8 inputs)	24V	24V	24V
Encoder input	200kHz max	200kHz max	200kHz max
Analog input - Aux	±10V (10 bit)	±10V (10 bit)	±10V (10 bit)
<b>Outputs</b>			
Digital outputs (6 inputs)	24V/100mA/PNP	24V/100mA/PNP	24V/100mA/PNP
Analog output - Aux	±4.5V	±4.5V	±4.5V
<b>Communication</b>			
Type	RS422/485	RS422/485	RS422/485
Daisychain	Up to 32 units	Up to 32 units	Up to 32 units
<b>Power Dissipation</b>			
Control stage	18W	18W	18W
Power stage	18W	28W	45W
Internal braking resistor	60W	60W	60W
<b>Environmental</b>			
Temperature	113°F (45°C)	113°F (45°C)	113°F (45°C)
<b>Protection</b>			
Grade	IP20	IP20	IP20
<b>Compumotor Motors</b>	BE, J and NeoMetric Series	BE, J and NeoMetric Series	BE, J and NeoMetric Series

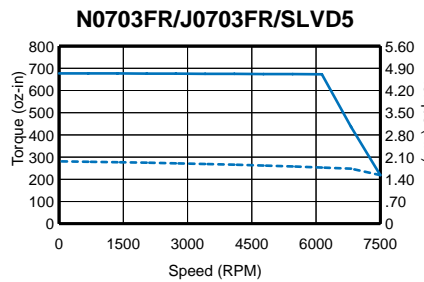
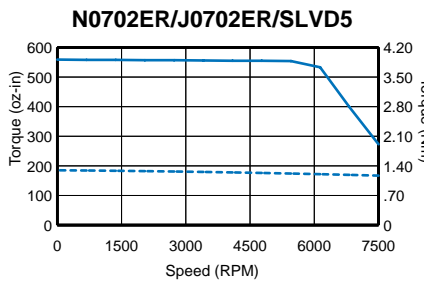
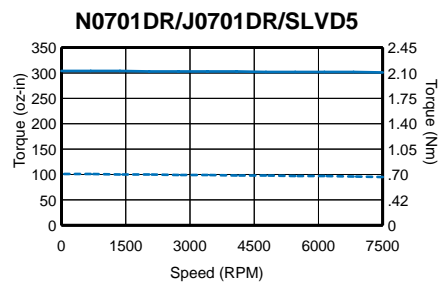
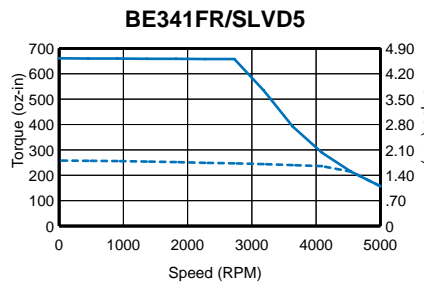
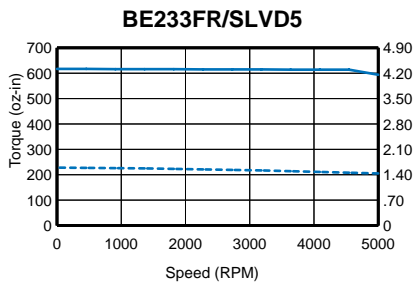
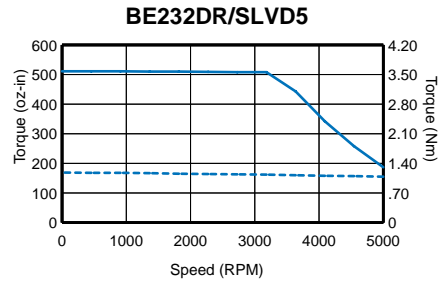
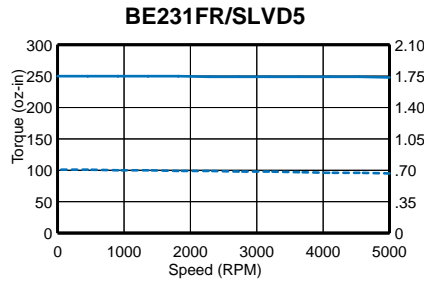
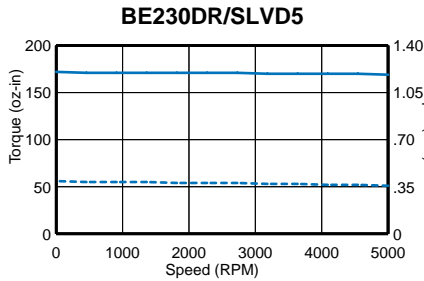


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# Motor Speed-Torque Performance Curves

SLVD with BE, NeoMetric and J Series motors, 23, 34, and 70mm frame, resolver feedback, 240 VAC

For complete BE, Neometric, and J motor and cable information, please refer to Servo Motor section.



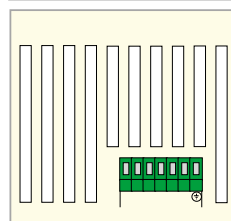
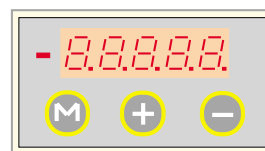
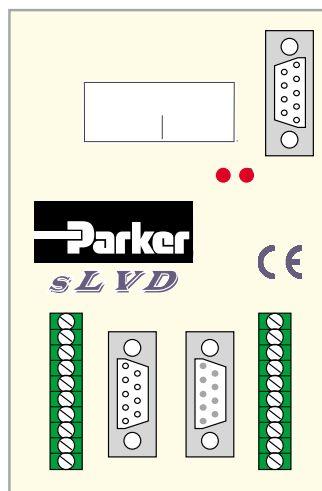
----- CONTINUOUS      ——— PEAK

340V

For complete motor and cable information, please refer to the Motor Cable Table at the end of the Servo Motors section.

Terminal Board X1 Resolver/Input		DB9 Female X2 Com/Bus		DB9 Male X3 Encoder In/Out	
1	+ ECC	1	TX	1	PHA
2	- ECC	2	RX	2	/PHA
3	SIN +	3	/TX	3	PHB
4	SIN -	4	/RX	4	/PHB
5	COS +	5	CANH	5	PHC
6	COS -	6	+BR180	6	/PHC
7	0 V	7	-BR180	7	0 V
8	0 V	8	CANL	8	Not used
9	IN 0	9	0 V	9	Not used
10	IN 1				

Terminal Board X4 CMD/Analog I/O		Terminal X6 Power	
1	ANALOG REFERENCE +	1	MOTOR PHASE U
2	ANALOG REFERENCE -	2	MOTOR PHASE V
3	0 V	3	MOTOR PHASE W
4	AUXILIARY ANALOG INPUT +	4	LIVE 1 (L1)
5	AUXILIARY ANALOG INPUT -	5	LIVE 2 (L2)
6	V OUT	6	LIVE 3 (L3)
7	OUT 0/IN 2	7	PE
8	OUT 1/IN 3		
9	+ 24 V		
10	0 V		



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SLVD Dimensions in inches (mm)

