

General Table

Feature	Units	Specification
PWM switching frequency	kHz	22 ± 5% default on the motor
Switching method		Advanced Unipolar PWM
Current loop bandwidth	kHz	< 2.5
Current loop sampling rate	kHz	Up to 16; default 11
Velocity loop bandwidth	Hz	< 350
Velocity loop sampling rate	kHz	Up to 8; default 5.5
Position loop bandwidth	Hz	< 80

Feature	Units	Specification
Position loop sampling rate	kHz	Up to 4; default 2.75
Maximum heat sink temperature	°C (°F)	85 °C - 88 °C (185 °F - 190 °F)
Ambient operating temperature	°C (°F)	0 °C - 40 °C (32 °F - 104 °F)
Storage temperature	°C (°F)	-20 °C - 85 °C (-4 °F - +185 °F)
Maximum humidity	%	90% non-condensing
Maximum operating altitude	m (ft)	Up to 10,000 (30,000)
Protection level		

Bassoon Full Digital Servo Drive



Feature	Units	1/230	3/230	5/230	6/230
Minimum supply voltage	VAC	30			
Nominal supply voltage	VAC	230			
Maximum supply voltage	VAC	270			
Maximum continuous power output	W	320	1050	1600	1900
Efficiency at rated power (at nominal conditions)	%	> 97			
Auxiliary supply voltage	VDC	24 ± 20%			
Auxiliary power supply	VA	8			
Amplitude sinusoidal/DC continuous current	A	1	3.3	5	6
Sinusoidal continuous RMS current limit (Ic)	A	0.7	2.3	3.5	4.2
Peak current limit	A	2 x Ic			
Supplied with heat sink		No	#2 (fins)	#4 (fins and fan)	
Built-in shunt (peak power)	W	400			
Weight	g (oz)	350 g (12.35)	490 g (17.28)	505 g (17.81)	
Dimensions	mm (in)	105 x 44 x 76 (4.13" x 1.73" x 3.00")	105 x 56 x 76 (4.13" x 2.20" x 3.00")	105 x 66.5 x 76 (4.13" x 2.60" x 3.00")	
Digital in/Digital out/Analog in		6/2/1			
Mounting method		Wall mount ("Bookshelf") or DIN rail			