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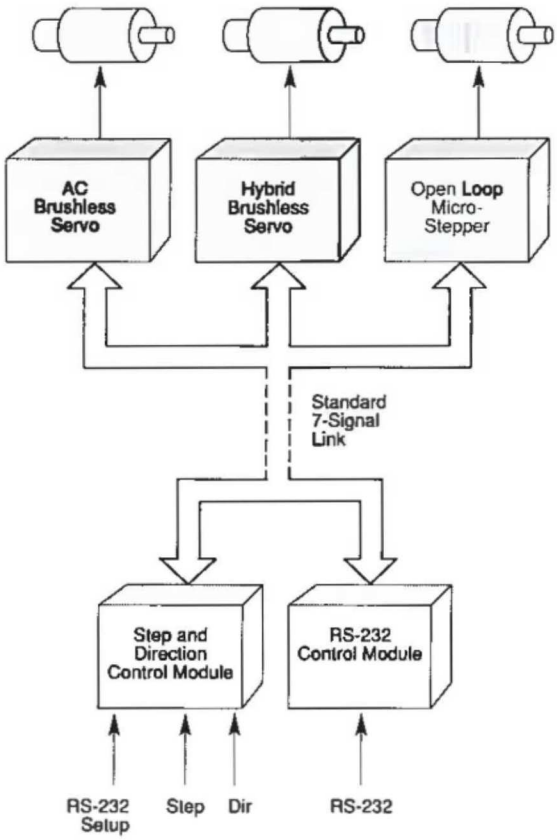
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Find the *Parker / Digiplan System 7* at our website: *Click HERE*

As shown previously, System 7 has been designed for flexibility in drive choice. This flexibility is also available on the control side. The initial controls available with the introduction of System 7 are the RS-232 control module and the Step and Direction control module. The Step and Direction control module provides a means to use an external pulse source such as a Compumotor indexer or motion controller, or a user supplied signal. The RS-232 control module is a completely self contained controller allowing system control without an extenal pulse source. Both control cards use the standard System 7 seven signal link to maintain compatibility with all reasonable drives now and in the future.



Step and Direction Control Module

- Stepper controller to servo converter
- RS-232 for set up and servo tuning
- Popular "X" command language
- Non-volatile memory for set up and tuning parameters
- PIVF or PID tuning

RS-232 Control Module

- Controls all System 7 drives
- Popular "X" command language
- Up to 8 axes on Zero Delay Daisy Chain
- Non-volatile memory for set up and sequences
- Optically isolated dedicated and user I/O
- PIVF or PID servo tuning

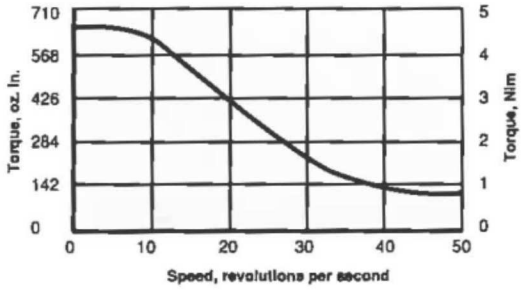
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Low Power — 3450 Hybrid Brushless Servo

Motor/Drive Package

Above 5 rev/sec the duty cycle is restricted to 50% at full load torque.

Torque-speed data



Note: Fan cooling is recommended in ambients between 104 and 140°F (40 and 60°C).

Package Number 7252.300

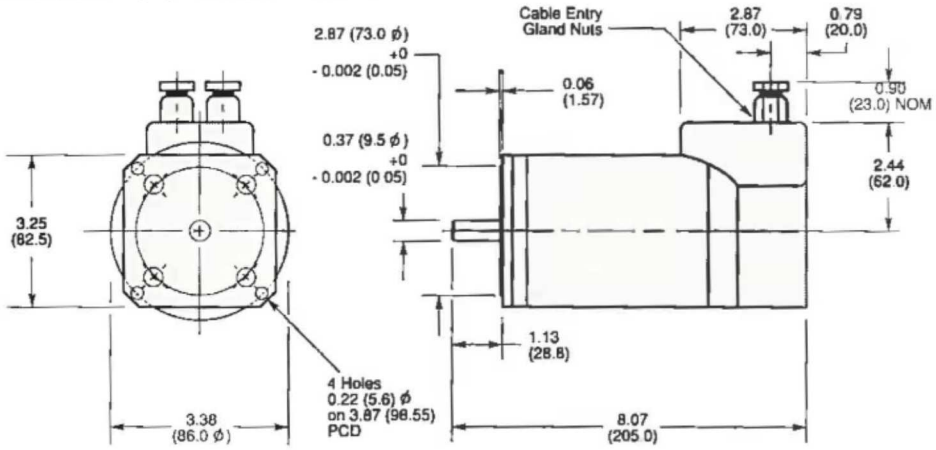
System selection data

Price	$1,289
Type	2
Bus voltage	150
Cooling	See Note
Transformer kVA	0.3

Control Data

Feedback	Incremental Encoder
Resolution	4000 counts/rev

Dimensions (—) denotes millimeters



Motor Data

Type no	7501.350
Rotor ineria	9.8 oz-in² (1.8kg cm²)
Max. case temp	212°F (100°C)
Insulation	Class B
Environmental	IP50
Standard cable	10 feet (3 meters)
Weight (inc. cable)	10.12 lbs (4.6kg)

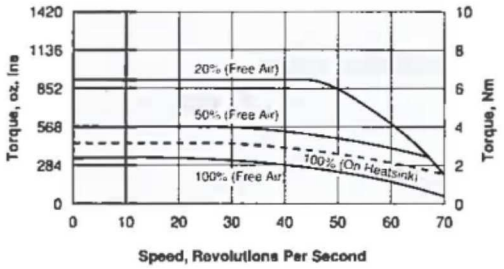
Drive Data

Type no	7153.300
Max. heatsink temp	185° (85°C)
Ambient temp range	
Operating (see Note)	32-140°F (0 - 60°C)
Storage	-40-185°F(-40-85°C)
Humidity	0 to 95%
Weight	3.8 lbs (1.75 kg)

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High Power - 3475 AC Brushless Servo

Torque-speed data



Note: Duty cycle ratings are with motor in free air. Continuous-duty torque increases by up to 40% by fan-cooling the drive and mounting the motor on a heatsink with a thermal resistance of 0.5°C/watt. The drive requires fan cooling in ambients between 104 and 140°F (40 and 60°C); below 104° (40°C), fan cooling gives improved

Package Number 7252.502

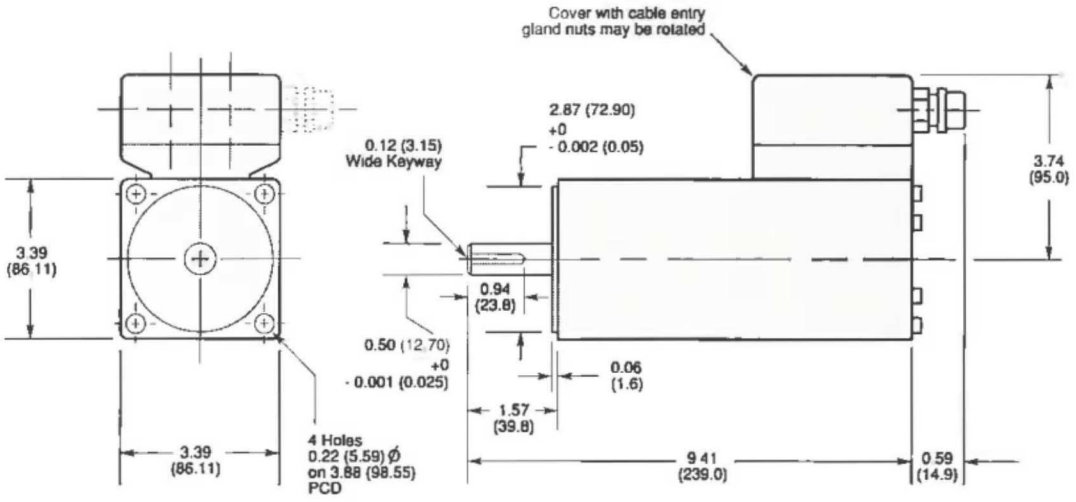
System selection data

Price	$1,889
Type	2
Bus voltage	150
Cooling	See Note
Transformer kVA	0.9

Control Data

Feedback	Incremental Encoder
Resolution	4000 counts/rev

Dimensions (—) denotes millimeters



Motor Data

Type no	7521.370
Rotor ineria	13.12 oz-in² (2.4kg cm²)
Max. case temp	212°F (100°C)
Insulation	Class F
Environmental	IP50
Standard cable	10 feet (3 meters)
Weight (inc. cable)	13.2 lbs (6kg)

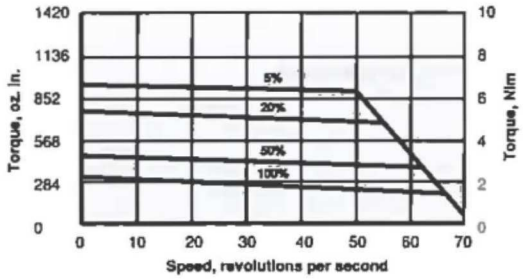
Drive Data

Type no	7156.500
Max. heatsink temp	185° (85°C)
Ambient temp range	
Operating	(see Note)
Storage	-40-185°F(-40-85°C)
Humidity (non-cond)	0 to 95%
Weight	3.8 lbs (1.75 kg)

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High Power — 3450 AC Brushless Servo

Torque-speed data



Note: Duty cycle ratings are with motor in free air. Continuous-duty torque increases by up to 40% by fan-cooling the drive and mounting the motor on a heatsink with a thermal resistance of 0.5°C/watt. The drive requires fan cooling in ambients between 104 and 140°F (40 and 60°C); below 104° (40°C), fan cooling gives improved performance.

Package Number 7252.501

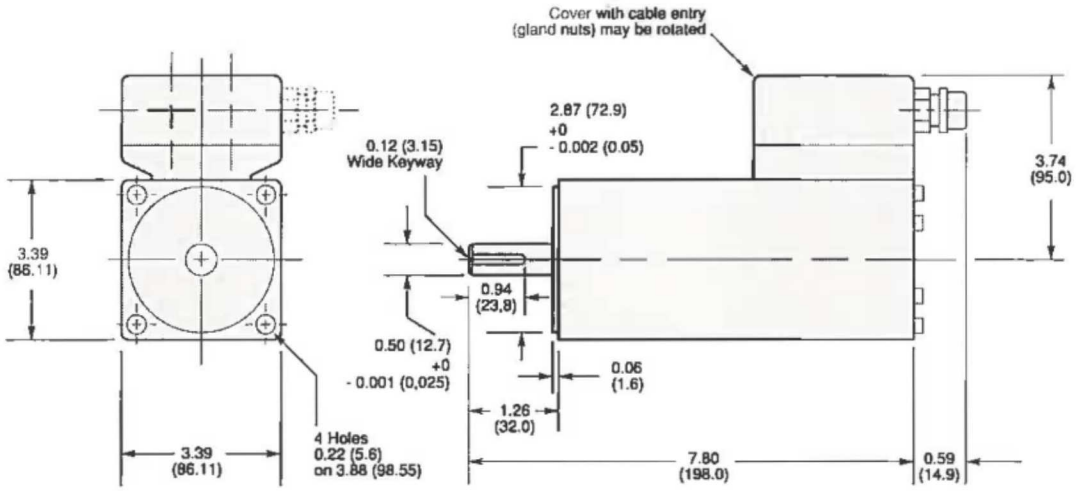
System selection guide

Price	$1,689
Type	2
Bus voltage	150
Cooling	See Note
Transformer kVA	0.6

Control Data

Feedback	Incremental Encoder
Resolution	4000 counts/rev

Dimensions (—) denotes millimeters



Motor Data

Type no	7521.350
Rotor ineria	8.75 oz-in² (1.6kg cm²)
Max. case temp	212°F (100°C)
Insulation	Class F
Environmental	IP50
Standard cable	10 feet (3 meters)
Weight (inc. cable)	10.3 lbs (4.7kg)

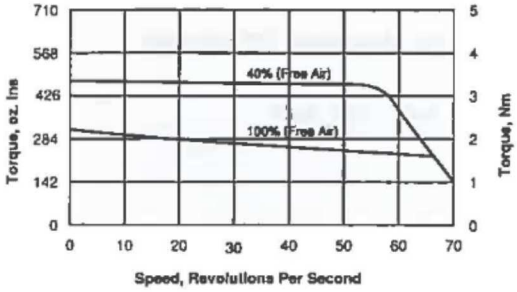
Drive Data

Type no	7156.500
Max. heatsink temp	185° (85°C)
Ambient temp range	32-140°F (0 - 60°C)
Operating	(see Note)
Storage	-40-185°F(-40-85°C)
Humidity	0 to 95%
Weight	3.8 lbs (1.75 kg)

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Low Power — 3450 AC Brushless Servo

Torque-speed data



Note: Duty cycle ratings are with motor in free air. Continuous-duty torque increases by up to 40% by fan-cooling the drive and mounting the motor on a heatsink with a thermal resistance of 0.5°C/watt. The drive requires fan cooling in ambients between 104 and 140°F (40 and 60°C); below 104° (40°C), fan cooling gives improved performance.

Package Number 7252.500

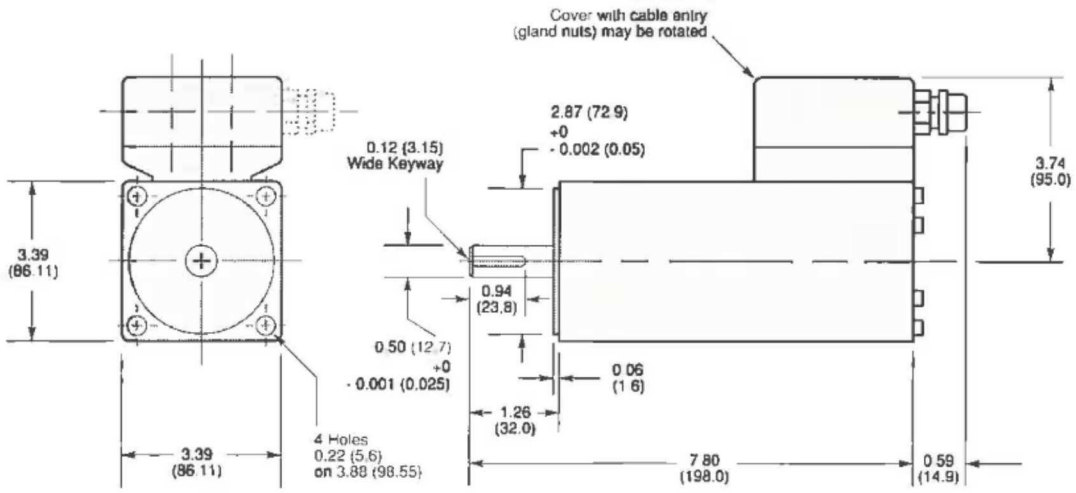
System selection data

Price	$1,489
Type	2
Bus voltage	150
Cooling	See Note
Transformer kVA	0.6

Control Data

Feedback	Incremental Encoder
Resolution	4000 counts/rev

Dimensions (—) denotes millimeters



Motor Data

Type no	7521.350
Rotor ineria	8.75 oz-in² (1.6kg cm²)
Max. case temp	212°F (100°C)
Insulation	Class F
Environmental	IP50
Standard cable	10 feet (3 meters)
Weight (inc. cable)	10.3 lbs (4.7kg)

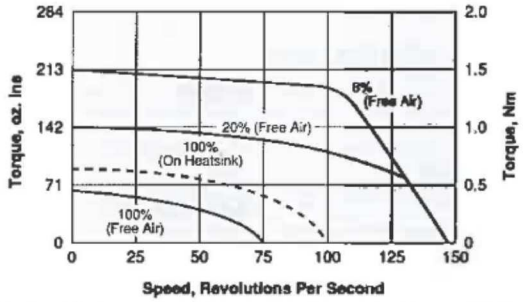
Drive Data

Type no	7153.500
Max. heatsink temp	185° (85°C)
Ambient temp range	32-140°F (0 - 60°C)
Operating	(see Note)
Storage	-40-185°F(-40-85°C)
Humidity	0 to 95%
Weight	3.8 lbs (1.75 kg)

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Low Power — 2340 AC Brushless Servo

Torque-speed data



Note: Duty cycle ratings are with motor in free air. Continuous-duty torque increases by up to 40% by fan-cooling the drive and mounting the motor on a heatsink with a thermal resistance of 0.5°C/watt. The drive requires fan cooling in ambients between 104 and 140°F (40 and 60°C); below 104° (40°C), fan cooling gives improved performance.

Package Number 7252.520

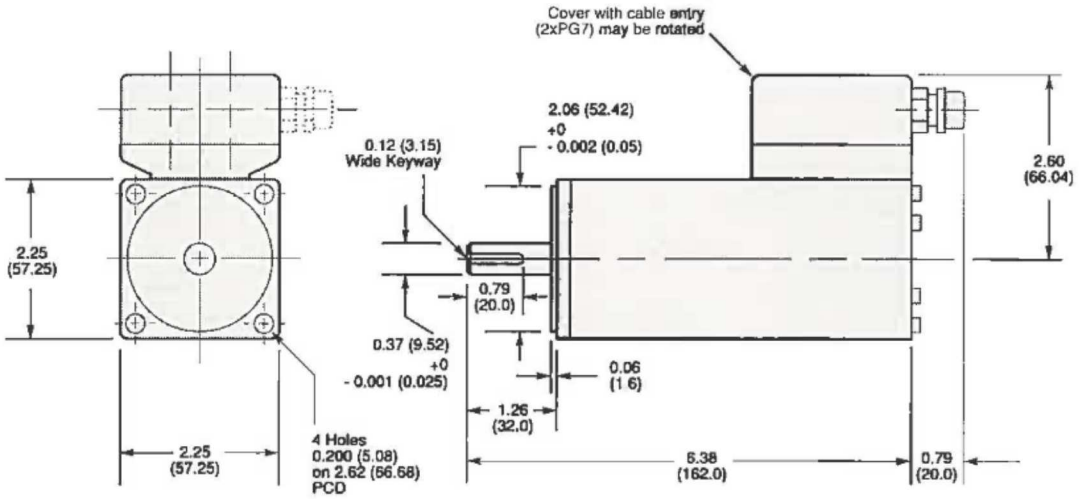
System selection data

Price	$1,414
Type	2
Bus voltage	150
Cooling	See Note
Transformer kVA	0.3

Control Data

Feedback	Incremental Encoder
Resolution	2000 counts/rev

Dimensions (—) denotes millimeters



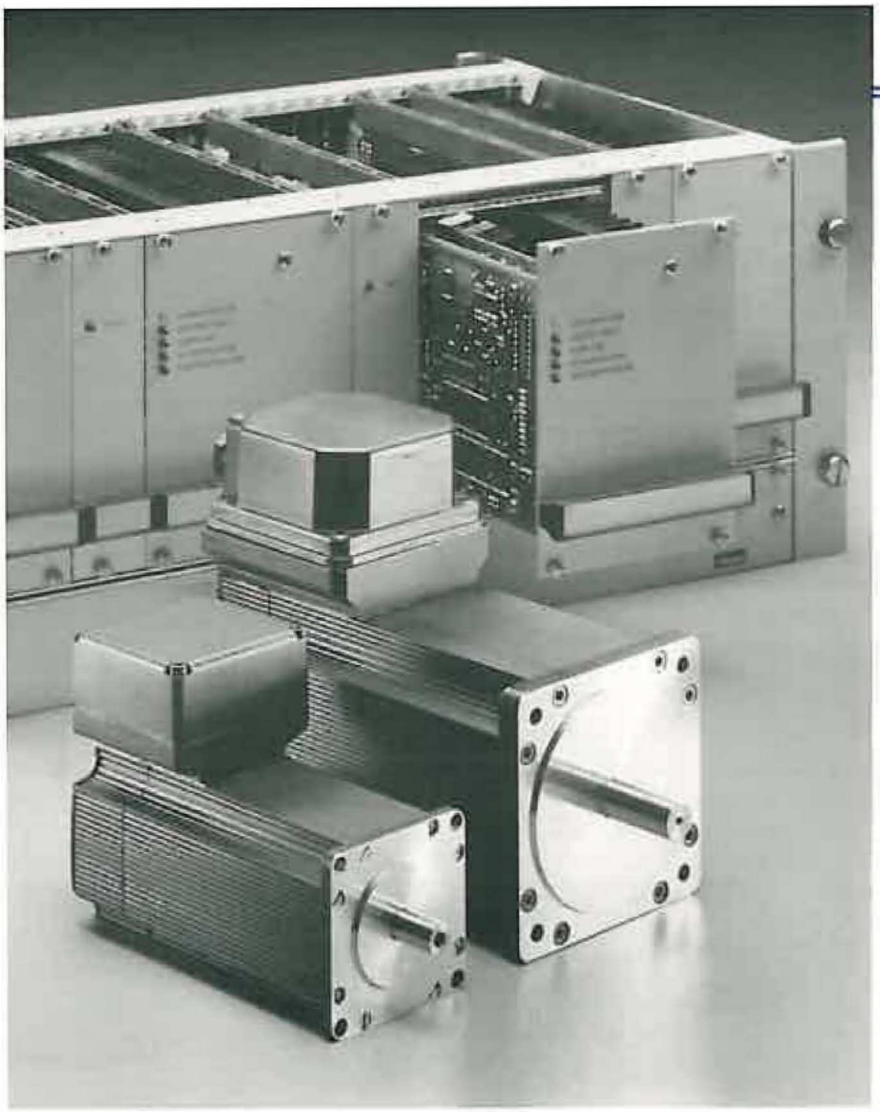
Motor Data

Type no	7521.250
Rotor ineria	1.53 oz-in² (0.28kg cm²)
Max. case temp	212°F (100°C)
Insulation	Class F
Environmental	IP50
Standard cable	10 feet (3 meters)
Weight (inc. cable)	4.2 lbs (1.9kg)

Drive Data

Type no	7153.501
Max. heatsink temp	185° (85°C)
Ambient temp range	32-140°F (0 - 60°C)
Operating	(see Note)
Storage	-40-185°F(-40-85°C)
Humidity	0 to 95%
Weight	3.8 lbs (1.75 kg)

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System 7

AC Brushless Servo Drive and Motor

The System 7 AC Brushless servo motors are 2 phase motors using peripheral magnets. These rare earth magnets mounted on the rotor surface contribute to the high peak torque and duty cycle ratings. Additionally, the motors are constructed with the same mechanical mounting dimensions as the standard size 23 or 34 stepper. However, the shaft diameter is larger to transmit the higher peak torque. Traditional brushless motors are of a 3 phase design. The System 7 AC Brushless motors are a 2 phase design that provides improved current control for smoother operation at low speeds and allows for recirculating drive technology for improved high speed performance.

Features:

- Each model includes a drive module, motor, integral incremental encoder and 10 foot cables for the motor and encoder
- Three motor sizes available in industry standard 23 and 34 flange sizes
- Two current options for the drive:
  7.5A rms — low power
  15.0A rms — high power
- Speeds to 7,500 rpm
- Closed loop positioning with rugged metal disc encoder
- Recirculating PWM chopper drive provides accurate current control, high efficiency, and low motor losses
- 20kHz switching frequency ensures quiet operation, low current ripple and a wide torque amplifier bandwidth
- Full short circuit protection across phases, between phases and between phase terminal and ground.
- Full optical isolation
- Supply voltage monitoring and temperature sensing
- LED diagnostic indicators
- Ultra-smooth rotation. Electronic commutation and minimal detent-torque results in smooth rotation from zero to full speed.
- Continuous high-speed operation without excessive motor heating
- High peak torque. The drives can be intermittently driven as high as 3 to 4 times the continuous rating
- Quiet operation due to the low pole count and lack of a mechanical commutator.

AC Brushless Servo Package

Package Number	Description	List Price	Specs on page
7252.520	2340 size — low power (150V, 7.5A)	$1,414	9
7252.500	3450 size — low power (150V, 7.5A)	$1,489	10
7252.501	3450 size — high power (150V, 15A)	$1,689	11
7252.502	3475 size — high power (150V, 15A)	$1,889	12

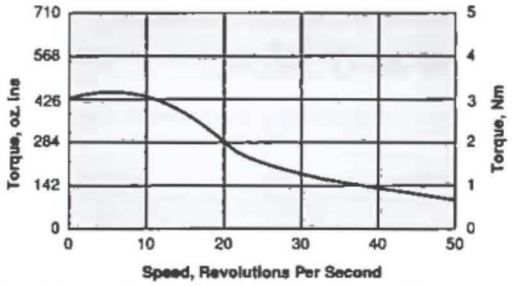
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34 Frame, 3 Stack Microstepper

Motor/Drive Package

Speed is restricted to 30 revs/sec when using the maximum resolution of 12,800 steps/rev. Above 5 rev/sec the duty cycle is restricted to 50%.

Torque-speed data



Note: Fan cooling is recommended in ambients between 104 and 140°F (40 and 60°C).

Package Number 7252.200

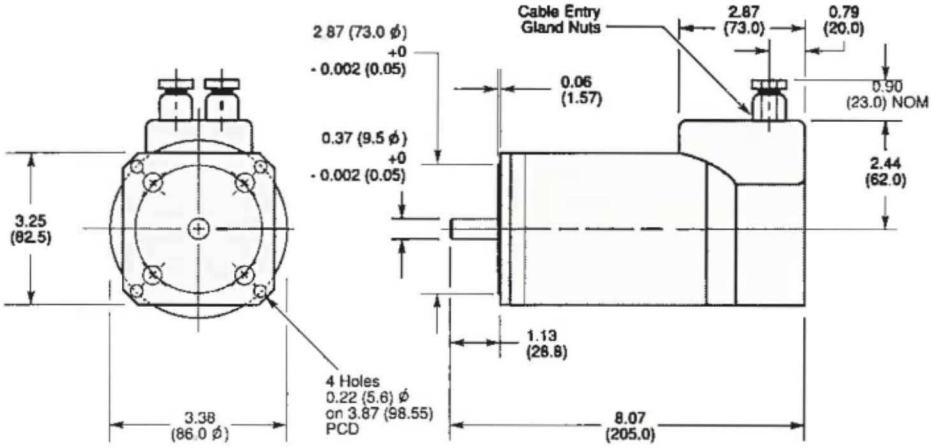
System selection data

Price	$995
Type	2
Bus voltage	150
Cooling	See Note
Transformer kVA	0.3

Control Data

Feedback	—
Resolution	400,500,1000, 2000, 4000, 5000, 10,000 and 12,800 steps/rev

Dimensions (—) denotes millimeters



Motor Data

Type no	7500.350
Rotor inertia	9.82 oz-in² (1.8kg cm²)
Max. case temp	212°F (100°C)
Insulation	Class B
Environmental	IP50
Standard cable	10 feet (3 meters)
Weight (inc. cable)	9.7 lbs (4.4kg)

Drive Data

Type no	7151.200
Max. heatsink temp	185° (85°C)
Ambient temp range	
Operating (see Note)	32-140°F (0 - 60°C)
Storage	-40-185°F(-40-85°C)
Humidity	0 to 95%
Weight	3.8 lbs (1.75 kg)

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