

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*



SM3430D
shown with
standard D-sub connector



SM3440D
shown with
standard D-sub connector

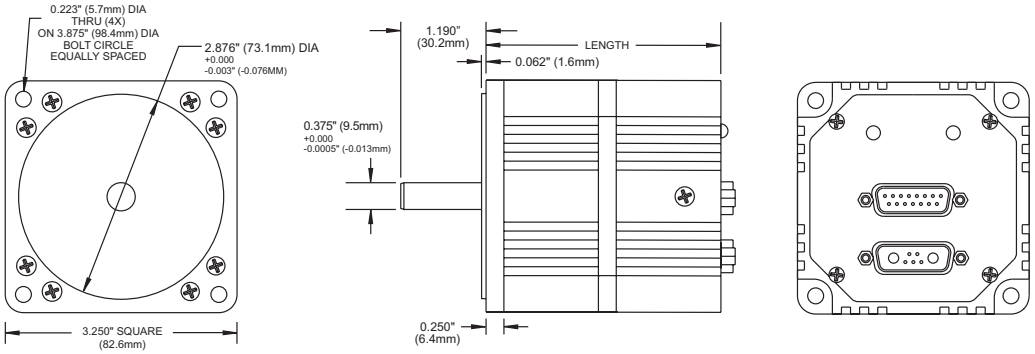


SM3450D
shown with
standard D-sub connector

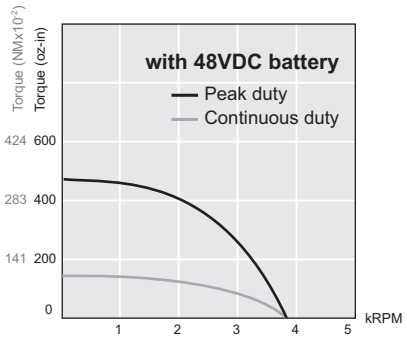
	DESCRIPTION		UNITS	SM3430D	SM3440D	SM3450D
Power	Input		VDC	20 - 48 (max)	20 - 48 (max)	20 - 48 (max)
Environment	Operating Temperature		°F (°C)	32 to 158 (0 to 70)	32 to 158 (0 to 70)	32 to 158 (0 to 70)
	Enclosure Rating (approximate)			IP30	IP30	IP30
	Storage Temperature		°F (°C)	-4 to 185 (-20 to 85)	-4 to 185 (-20 to 85)	-4 to 185 (-20 to 85)
	Vibration (peak / continuous)		G	NA/7*	NA/7*	NA/7*
	Humidity (non-condensing)		%	0 to 80	0 to 80	0 to 80
Performance	Peak Torque (Tp)		oz-in (N-m)	460 (3.25)	500 (3.53)	600 (4.24)
	Continuous Torque (Tc)		oz-in (N-m)	155 (1.09)	210 (1.48)	250 (1.77)
	No Load Speed		RPM	3850	3609	3398
	Nominal Power		HP (kW)	0.3 (0.22)	0.34 (0.25)	0.36 (0.27)
	Servo Update		Hz	4069	4069	4069
	PWM Frequency		kHz	33.3	33.3	33.3
	Encoder	Type	Incremental	VDC	VDC	VDC
		Resolution	ppr (post-quad)	4000	4000	4000
	Memory	Volatile	kRAM	32	32	32
		Non-volatile	kRAM	32	32	32
Motor	Commutation			6-step Trapezoidal	6-step Trapezoidal	6-step Trapezoidal
	Voltage Constant (Kv)		V/kRPM	12.10	12.90	13.70
	Torque Constant (Kt)		oz-in/Amp (N-m/Amp)	16.4 (0.12)	17.4 (0.12)	18.5 (0.13)
	Rotor Inertia (Jm)		oz-in-s^2 (10^{-5}kg-m^2)	0.019 (13.43)	0.025 (17.67)	0.03 (21.20)
	Insulation			Class A	Class A	Class A
	Number of Poles (Np)			4	4	4
	Winding Resistance (R)		Ohms	0.9	0.6	0.6
Input/Output	Number (Type)			7 (5VDC TTL)	7 (5VDC TTL)	7 (5VDC TTL)
	Input	Digital		5VDC TTL sinking input	5VDC TTL sinking input	5VDC TTL sinking input
		Analog		sinking input, 10 bit	sinking input, 10 bit	sinking input, 10 bit
	Output	Sourcing	mA	5	5	5
		Sinking	mA	10	10	10
	Encoder/Step & Direct.	Input Frequency	MHz	1	1	1
Communications	Primary	Type		RS232; Serial (ASCII)	RS232; Serial (ASCII)	RS232; Serial (ASCII)
		Speed	KBaud	2.4 to 38.4	2.4 to 38.4	2.4 to 38.4
	Secondary	Type		RS485; Serial (ASCII)	RS485; Serial (ASCII)	RS485; Serial (ASCII)
Physical	Radial Load		lbs (kg)	15 (6.8)	15 (6.8)	15 (6.8)
	Axial Thrust Load		lbs (kg)	3 (1.36)	3 (1.36)	3 (1.36)
	Width		in (mm)	3.25 (82.6)	3.25 (82.6)	3.25 (82.6)
	Length		in (mm)	4.8 (122)	5.4 (138)	6.1 (155)
	Weight (Wt)		lbs (kg)	4.5 (2.04)	5.5 (2.5)	6.5 (2.9)
	Shaft Diameter**		in (mm)	0.375 (9.5)	0.375 (9.5)	0.375 (9.5)
	Pilot Diameter**		in (mm)	2.876 (73.1)	2.876 (73.1)	2.876 (73.1)
	Bolt Circle Diameter**		in (mm)	3.875 (98.4)	3.875 (98.4)	3.875 (98.4)

Performance spec based on 48VDC battery

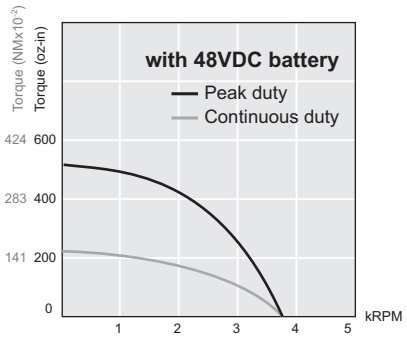
***Notes**: * tested at RMS acceleration for 20 minutes, ** check tolerance in drawings*



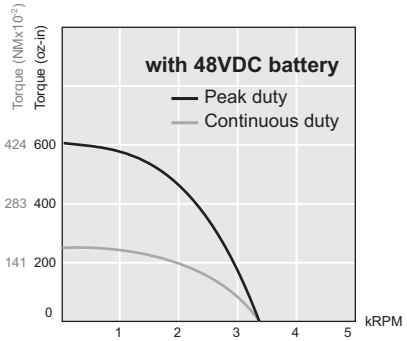
SMARTMOTOR SM3430D



SMARTMOTOR SM3440D



SMARTMOTOR SM3450D

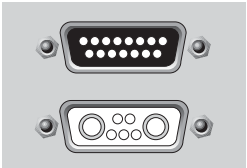


Notes:

1. Custom windings are available on select SmartMotors. These special windings allow SmartMotors to achieve higher speeds or greater torque. Please consult factory for specific details.
2. Custom shaft lengths and diameters are available on select SmartMotors. Flats and keyways are common options found on motor shafts. SmartMotors can be purchased with various versions of these shaft modifications. Please consult factory for available shaft options.
3. Torque vs. Speed curve data is derived under dynamometer testing using a 48 VDC battery supply at an ambient temperature of 27°C (80.6°F).
4. Connector kits and cable options found on pp. 52 and 59.

SmartMotors
SM3430D, SM3440D and SM3450D
are CE marked

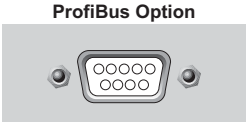
D-sub Connector



DeviceNet™ Option



ProfiBus Option



Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP