

# UniDrive® ONE

One Motor...

Multiple Control Options, Multiple Widths!

24 VDC, Brushless/Gearless

## Drive the best brushless motor with other common industry controls. Yes, that is correct!

The best long life UniDrive® zone motor can be paired with existing industry controllers! Looking for PLC control of your zone drives? Inquire with our sales team for more info.

### Extreme Reliability: Up to 200,000 Hour Bearing Life\*

The new UniDrive® system uses an extremely reliable brushless DC servo-motor with an electronically-controlled maximum operating speed of just 350 rpm. It produces high torque at low speed without using failure-prone gear reducers, linkages or drive chains. The net result of the lower speed combined with the robust bearings is a 200,000 hour calculated bearing life (L10 ANSI/AFBMA Std 9-1978.)

### Almost Silent Operation

The UniDrive® motor is almost silent in operation at full power. There are no extraneous moving parts to generate noise.

### Plug and play simplicity

The UniDrive® motor controller is a rugged, reliable device that gives you a simple plug and play connection. You control your manufacturing lead-time.

### Simple to Service

If a motor ever fails, it is easy to replace because it's mounted externally. Only one part number needs to be stocked for spares and repairs.



## FEATURES

- 24V brushless DC motor
- 4.63" Ø x 2.5"L
- Shaft 0.5"Ø x 2.5"L with flat
- 20" leads with M8 connector
- 60W rated output
- Speed ranges from 70 - 350 RPM
- 14 in-lbf continuous torque
- Analog Speed Control 2.3-10 VDC
- NoFault Output
- Forward/Reverse Input
- Available from stock

\*Based on wattage size.

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**UniDrive®**

Automation  
ControlsGroup  
Simplicity in Motion

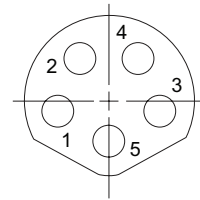
## SPECIFICATIONS

	Part Number	Shaft Type	Shaft (Inches)	INPUT				OUTPUT						
				Voltage (Rated)	Amperage (Rated)	Amperage (No-Load)	Stall Current	Rated Output Watts	Maximum Speed RPM	Torque at Max Speed	Rated Speed	Torque at Rated Speed	Minimum Speed	Starting Torque
60W	301210	D-Shaft	2.5	24 VDC	4	0.3	2 Amps	60	350	14 lbf-in	350	14	70	25 lbf-in
	301832	D-Shaft	1.375											
	301833	Keyed	1.8											

Note: For power supply below 23 VDC, full rated torque may not be available.

Pin	Function	Value
1	Power Supply + Input	Rated: 24 VDC, Range: 23 to 28 VDC
2	Rotation Direction (Face Label View)	Counter-Clockwise (CCW): <4 VDC Clockwise (CW): >7 VDC
3	Power Supply - Input (Also Earth Ground)	Ground: 0 VDC
4	Fault Output	Open Collector Vcesat = 0.5 VDC for Ic = 5 mA Vmax = 30 VDC for Icmx = 200 mA Fault: Signal High No Fault: Signal Low
5	Speed Input	Range: 0 - 24 VDC Stop (Braked ZMH): 0 - 2.2 VDC Speed: 2.3 to 10 VDC Max Speed: 10 to 24 VDC

When connecting to the motor via a cable (Plug side view)



Environmental Limits		
Condition	Minimum Ambient	Maximum Ambient
Operating (motor mounted on metal)	-4°F (-20°C)	122°F (50°C)
Storage	-40°F (-40°C)	176°F (80°C)
Humidity (non-condensing)	10%	90%

## Controls that can drive and operate UniDrive® One

### Mfg. By - Pepperl & Fuchs Inc.

- VBA-4E3A-G20-ZEL/M1L-P2 (ASi bus interface... all control with PLC logic)
- VAZ-2E2A-G20-ZPA1 (Standalone ZPA cards... no PLC logic)

Note: There could be other control variants with the same M8 motor interface

### Mfg. By - Interroll Group

- DriveControl 20/54
- ZPA Control (no PLC required)
- MultiControl

Note: There could be other control variants with the same M8 motor interface

### Mfg. By - Bihl + Wiedemann GmbH

- BWU-4246 ASi Motor Drive Controller

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## DIMENSIONS

