

# UM Series Smooth-Start UniModules

Warner Electric Smooth-Start™ UniModules are designed for applications that require a softer than standard engagement. Through the use of LK friction material, the Smooth-Start design provides reduced torque to provide a less aggressive engagement, without suffering a loss of overall life due to the longer slip times.

When used with an adjustable power supply such as the CBC 300 or CBC 500/550, the Smooth-Start designs can provide a soft engagement that can be adjusted to meet specific application needs.



## Smooth-Start™ UniModules

Warner Electric's new Smooth-Start UniModules are offered in 90 volt configurations as listed below. If you require another voltage, size or mounting configuration, please contact Warner Electric for assistance.

UniModule Size	NEMA Frame	Max. RPM	Static Torque (lb-ft)	Voltage (DC)	Original Part Number	GEN2 Part Number
50	56C/48Y	3600	10	90	5370-273-157	5370-273-236
100	56C/48Y	3600	18	90	5370-273-237	5370-273-237
180	182C/143TC 184C/145TC	3600	18	90	5370-273-158	5370-273-238
210	213C/182TC 215C/184TC	3600	57	90	5371-273-103	
215	213TC/215TC	3600	57	90	5371-273-080	

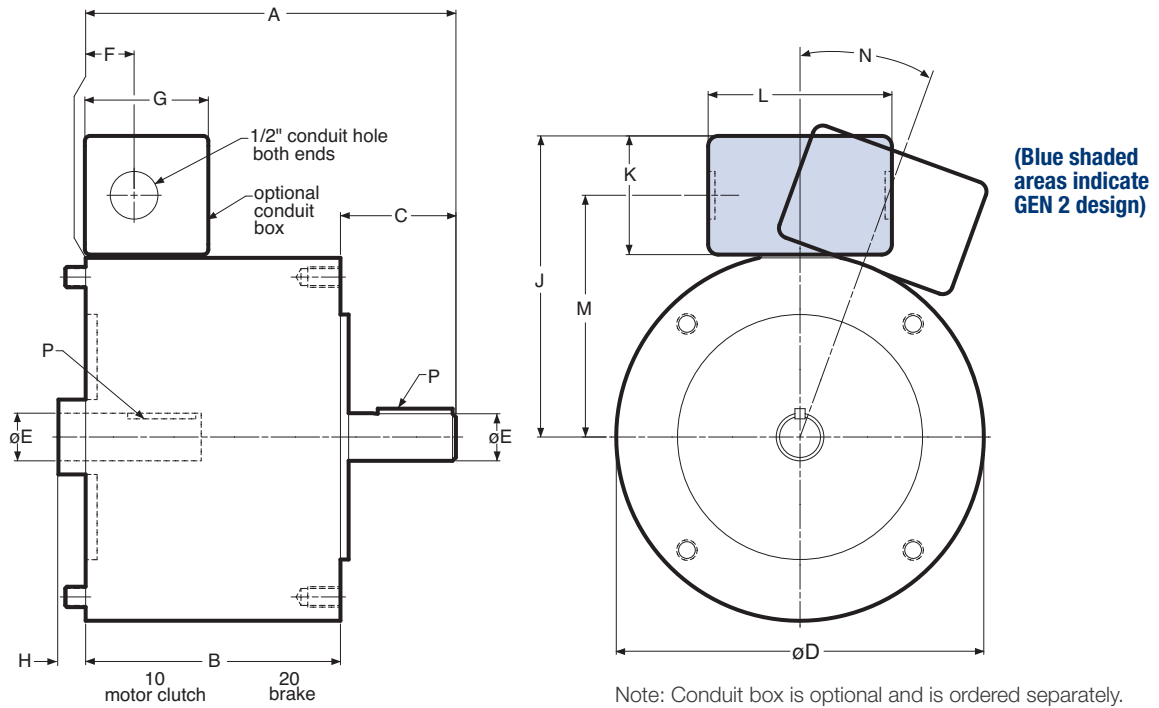
## CBC-300 Dual Channel Torque Adjust Clutch/Brake Control

Conveyor applications occasionally require more clutch torque to start the line, and less brake torque to stop the line. With two independently adjustable channels, Warner Electric's CBC-300 allows you to set the torque levels for the clutch and brake independently of each other, so each can be tailored to every application to achieve optimum system performance.

<b>Part Number</b>	6021-448-001
<b>Input Power</b>	120 VAC +10% -15%, 50/60 Hz, single phase, 215 VA max.
<b>Output</b>	Pulse-width modulated full wave rectified D.C. Constant current, switch selectable ranges, 0-90 volt.
<b>Current Adjust</b>	Dual adjustable channels. Adjust via front panel potentiometers.
<b>Other Features</b>	UL listed; short circuit protection, line to line; torque limiting protects machine components from damage.

# UM Series Smooth-Start UniModules

## UM-1020 Motor Clutch/Brake Combination



### Dimensions (Blue shaded areas indicate GEN 2 design)

Size	A	B	C	D	E	F	G	H
50	6.720	4.680	2.040	6.750	.625	.890	2.267	—
100	6.741	4.680	2.061	6.750	.625	.890	2.267	—
180	6.801	4.680	2.121	6.750	.875	.890	2.267	—
210	8.891	5.922	2.500	9.250	1.125	.500	2.267	.500
215	9.391	5.922	3.000	9.250	1.375	.500	2.267	.500

Size	J	K	L	M	N	P
50	5.516	2.180	3.250	4.426	0°	3/16 x 3/16
100	5.516	2.180	3.250	4.426	0°	3/16 x 3/16
180	5.516	2.180	3.250	4.426	0°	3/16 x 3/16
210	6.859	2.180	3.250	5.766	20°	1/4 x 1/4
215	6.859	2.180	3.250	5.766	20°	5/16 x 5/16

### Specifications (Blue shaded areas indicate GEN 2 design)

Model Size	Voltage DC	Static Torque lb. ft.	Max. RPM	NEMA Frame Size
50	6, 24, 90	10	3600	56C/48Y*
100	6, 24, 90	18	3600	56C/48Y*
180	6, 24, 90	18	3600	182C/143TC 184C/145TC
210	6, 24, 90	57	3600	213C/182TC 215C/184TC
215	6, 24, 90	57	3600	213TC/215TC

\* For 56C/48Y Frame motors 3/4 HP and smaller the UM-100 size may be used where extended life is desirable.

\*\* UM-100 size is recommended for motors 1 HP and larger.

For standard NEMA frame dimensions, see page 187.

**Only 50, 100, and 180 sizes of the models listed will be converted to the new GEN 2 design. 210 and 215 sizes will continue to be offered in the original design and will not be converted.**