

## "L" Brackets



| Model No. | Description                                                                        |
|-----------|------------------------------------------------------------------------------------|
| A 0969    | Kit for E, F and FX gearmotors (will not fit 48R-F or 48R-FX)                      |
| B 0970    | Kit for WX gearmotors                                                              |
| C 0979    | Kit for 34R and 34B motors                                                         |
| D 0980    | Kit for 34R-Z gearmotors                                                           |
| E 0990    | Kit for 24A motors                                                                 |
| F 5968    | Kit for 30R and 33A motors; 30R-D, 24A-D, 22B-D, 24A-Z, 33A-Z and 22B-Z gearmotors |

## AC | DC

## Motor and Gearmotor Kits



| Model No. | Description                                                                                                                            |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------|
| A 0967    | Base plate kit for 3F gearmotors                                                                                                       |
| B 0977    | IP-44 protection kit for 33A gearmotors and motors                                                                                     |
| C 0978    | IP-44 protection kit for 42A gearmotors and motors                                                                                     |
| D 0984    | Die cast terminal box kit for 34R, 42R, 48R, 33A, and 42A motors and gearmotors. <i>90/130, 130V and 180VDC models only.</i>           |
| E 0985    | Oversized die cast t-box kit. Fits capacitor for use with 42R-FX gearmotors. Also fits 42R, 48R, 33A and 42A motors/gearmotors.        |
| — 1982    | Die cast terminal box with terminal block for 30R motors and gearmotors                                                                |
| — 1984    | Die cast terminal box kit with terminal block for 34R, 42R, 48R, 33A and 42A motors/gmtrs. <i>90/130, 130V and 180VDC models only.</i> |
| — 5982    | Die cast terminal box for 30R motors and gearmotors                                                                                    |
| F 0992    | Adaptor plate for mounting brakes or encoders for 33A/42A gearmotors/motors with accy. ready shaft extensions                          |
| G 0993    | Adaptor plate for mounting brakes or encoders for 22B/34B gearmotors/motors with accy. ready shaft extensions                          |
| H 0995    | 3-hole adaptor plate for E, F, WX and FX gearmotors. Provides drop-in replacement for competitive gearmotors.                          |
| I 0996    | Base kit for 34R motors and gearmotors                                                                                                 |

## AC

## Capacitors

Select the appropriate run capacitor based on the capacitor specifications found on pages 4-21 (29-33 for metric models) and in the tables below. The AC gearmotor or motor nameplate states the required capacitance of the run capacitor, but it is also critical to specify a capacitor that has the voltage ratings as shown in these tables. When using a run capacitor that is not supplied by Bodine Electric, please make sure the voltage rating is equal to or higher than the voltage rating specified on this page. Different motor sizes might require a different minimum voltage rating for the run capacitor.

### Capacitors



Box-Type Capacitor

| Part No.                                                | µF /VAC |
|---------------------------------------------------------|---------|
| <b>Box-Type Metalized Film Capacitor (Plastic Case)</b> |         |
| 49400045 <sup>1</sup>                                   | 0.9/250 |
| 49400046 <sup>1</sup>                                   | 1.0/250 |
| 49400047 <sup>1</sup>                                   | 1.2/250 |
| 49400048 <sup>1</sup>                                   | 1.3/250 |
| 49400050 <sup>1</sup>                                   | 1.5/250 |
| 49400051 <sup>1</sup>                                   | 1.6/250 |
| 49401049                                                | 0.4/440 |
| 49400091                                                | 1.3/440 |
| 49401047                                                | 2.3/250 |

| Part No.              | µF /VAC  |
|-----------------------|----------|
| 49426812 <sup>1</sup> | 4.0/250  |
| 49401015              | 5.0/250  |
| 49401002 <sup>1</sup> | 7.5/370  |
| 49401054              | 10.0/250 |
| 49401115 <sup>1</sup> | 6.0/450  |
| 49401106              | 9.0/250  |
| 49401006              | 12.5/250 |
| 49401016              | 15.0/250 |
| 49401113 <sup>1</sup> | 20.0/250 |
| 49401112 <sup>1</sup> | 27.5/250 |
| 49401090 <sup>1</sup> | 30.0/250 |

| Part No.                              | µF /VAC  |
|---------------------------------------|----------|
| 49401123 <sup>1</sup>                 | 3.75/370 |
| 49401068 <sup>1</sup>                 | 5.0/400  |
| 49401007 <sup>1</sup>                 | 10.0/370 |
| 49401107 <sup>1</sup>                 | 12.5/370 |
| 49401075 <sup>1</sup>                 | 15.0/350 |
| 49401057                              | 20.0/350 |
| <b>Round Metal Can-Type Capacitor</b> |          |
| 49401124                              | 25.0/370 |
| 49401145 <sup>2</sup>                 | 45.0/250 |
| 49401147 <sup>2</sup>                 | 40.0/250 |
| 49401148 <sup>2</sup>                 | 10.0/450 |

<sup>1</sup> Capacitor fits inside terminal box kit model number 0984.

<sup>2</sup> Capacitor fits in oversized terminal box model number 0985.



Metal Can-Type Capacitor

### Capacitor Mounting Clamps



A, B

| Model No.  | Description                                                                                  |
|------------|----------------------------------------------------------------------------------------------|
| A 54701013 | Mounting clamp for round, metal can type capacitor model 49401124                            |
| B 54701029 | Mounting clamp for round, metal can type capacitors: models 49401145, 49401147, and 49401148 |

**For mounting details and dimensions, visit [www.bodine-electric.com](http://www.bodine-electric.com)**

| Model No. | Static Torque (lb-in.) | Volt AC | Ohms | Wt. (oz.) |
|-----------|------------------------|---------|------|-----------|
| 0997      | 15                     | 120     | 1067 | 12        |

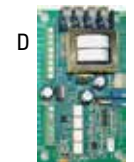
This item is intended only for 33A and 42A PMDC motors and gearmotors.



Control Accessories

BLDC  
PMDc

| Item | Model No. | Description                                                                                                                                                                                                                                                                                                                                                |
|------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| —    | 0888      | <b>Analog Interface Board</b> for use with model 0810, 0830, and 0850 controls. Allows control to accept a variable voltage or current signal from user's host controller to automatically control motor speed. Inputs are optically isolated.                                                                                                             |
| —    | 0890      | <b>Electronic Direction and Braking Board, F-B-R Kit</b> , for use with model 0810, 0830, and 0850 controls. Allows user to change motor direction and to dynamically brake motor to a quick stop. Inputs are not optically isolated. This kit includes one F-B-R board, one cable and connector, mounting hardware, and two additional braking resistors. |
| —    | 0893      | <b>Local/Remote Switch</b> for use with model 0810, 0830, and 0850 controls when used with accessory model 0888. Allows user to switch between automatic and manual operation.                                                                                                                                                                             |
| —    | 0895      | <b>Switch Sealing Kit</b> upgrades NEMA-12 brushless DC and PMDC enclosed controls to IP-44 rating.                                                                                                                                                                                                                                                        |
| A    | 3981      | <b>Cable Kit</b> for stock 34B/FV INTEGRAMotors. Length: six feet (3 cables: power, logic and encoder).                                                                                                                                                                                                                                                    |
| B    | 3982      | <b>Extension Cable</b> for model 3910, 3911, 3921 and 3912 controls. Extends the cable between the motor and control by six feet. Both ends are equipped with circular connectors for easy connection between model 3983 cable assembly or encased control and the motor. Length: six feet.                                                                |
| C    | 3983      | <b>Connection Cable Assembly</b> for connecting model 3910, 3921 and 3911 chassis controls to stock 130 V motors. One end of the cable is equipped with a circular connector, the other end is equipped with quick disconnects for phase leads, and a molded connector for the commutation leads. Length: 6 feet.                                          |
| D    | 3984      | <b>Analog Interface And Isolation Module</b> for model 3910, 3911, 3921 and 3912 controls. Provides Analog interface and isolates controls from system controller input signals which may be at different potentials.                                                                                                                                      |
| —    | 43300260  | <b>Speed Potentiometer Kit</b> for use with FPM controls. Contains 10k Ohm potentiometer, hardware, wire and connector for manually regulating motor speed.                                                                                                                                                                                                |
| —    | 43300270  | <b>Fuse and Speed Potentiometer Kit</b> for use with model 3910 control. Contains potentiometer for manually regulating motor speed and various fuses to cover the range of motors and gearmotors which can be used with the control.                                                                                                                      |



Metric Accessories

Metric "L" Brackets

AC | DC



| Item | Model No. | Description                                                          |
|------|-----------|----------------------------------------------------------------------|
| A    | 0990      | Metric Kit for 24A                                                   |
| B    | 1968      | Metric Kit for 33A motors, and type D and Z gearmotors               |
| C    | 1970      | Metric Kit for type W gearmotors                                     |
| D    | 1969      | Metric Kit for E, F and FX gearmotors (will not fit 48R-F or 48R-FX) |
| —    | —         | no "L" bracket kits are available for 34R and 34R-Z gearmotors       |

Metric Motor and Gearmotor Kits

AC | DC



| Item | Model No. | Description                                                                                                                                |
|------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------|
| A    | 1982      | Metric die cast terminal box kit for 30R motors and gearmotors                                                                             |
| A    | 1984      | Metric die cast terminal kit with terminal block for 33A, 34R, 42A and 42R motors and gearmotors. For 90/130, 130V and 180VDC models only. |
| B    | 0991      | Metric die cast base kit for 42A motors and gearmotors                                                                                     |
| —    | 0992      | Metric adaptor plate for 33A and 42A motors and gearmotors                                                                                 |