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**Motor Mod Express®**

## Ordering Information

To order, specify the catalog number of the stock product and the MOD number. Use the motor discount for the motor. All modifications should be priced using the modification list price, applying the MX multiplier symbol. **Lead times indicated are subject to availability of stock motors in the Fort Smith Warehouse.** Customer will absorb all freight costs when motor is shipped to Fort Smith from field warehouses.

**NOTE: Some modifications do not apply to explosion-proof motors. Contact Baldor for Approval.**

## MOD Express Cancellation Policy

Should it be necessary to cancel an order for a motor after it is modified, but before it ships – a cancellation charge of double the modification charge will be invoiced to the customer. Any MOD order cancelled before modification is completed is subject to 25% cancellation charge.

Once shipped, modified motors returned at purchaser's expense will be invoiced at double the MOD fee plus 10% restock fee.

**NOTE: Mod Express for RPM AC, RPM III DC and V\*S Master is available. Contact your local Baldor•Reliance District Office for details.**

## Note

All lead times indicated are subject to availability of stock motors and parts in the Fort Smith warehouse. Please check stock availability before quoting lead time.

Some conversions may not be allowed if they result in a change of operating parameters that affect efficiency or change the classification of EPAct motors.

Modification prices do not include the cost of the motor, speed reducer, etc.

### Modification Number

### Motor Mod Express® Description and List Price

### Working Days Required

## M1 Balance

### M1A Dynamic Balance of Rotor

Re-balance stock motor to special balance NEMA 42 through 5011L

TWO DAYS

Squirrel Cage Type			
NEMA Frame	Standard Balance	Special Balance	List Price Per Motor
42 - 215T	0.15"/s	0.08"/s	196
254T - 286	0.15"/s	0.08"/s	572
324-364	0.15"/s	0.08"/s	1120
404-447	0.15"/s	0.08"/s	3357
449T	0.15"/s	0.10"/s	5853
5007S- 5011L	0.15"/s	0.10"/s	7317
DC Motor			
56	0.15"/s	0.08"/s	294
182 - 184	0.15"/s	0.08"/s	385
213 - 215	0.15"/s	0.08"/s	415

**NOTE:** Balance units are for velocity in inches per second.  
449T - up, contact your Baldor representative.

## M2 Bearings

### M2A Sealed

NEMA 42 through 215T AC stock motors have double shielded bearings as standard. DC motors have sealed bearings. This modification provides the option of replacing standard bearings in AC motors with sealed bearings.

TWO DAYS

NEMA Frame	List Price Per Motor Sealed
42	141
48	141
56	141
143 - 145T	146
182 - 184T	158
213 - 215T	170

**NOTE:** The above modifications are not recommended for NEMA 254T and larger TEFC motors. See M2E for 254T and larger ODP. Contract your Baldor Representative.

**Grease fittings will be replaced with slotted head pipe plugs unless otherwise specified.**

### M2B Ball to Roller 1800 RPM or Below

Roller bearings have the capability to handle higher radial loads than ball bearings, but must have minimum radial loads to operate correctly. Roller bearings must only be used in belted loads. they are not suitable for direct-coupled loads. Conversion of any motor to roller bearings should not be performed unless Baldor evaluates the belt load. A roller bearing evaluation sheet must be filled out and calculated by Baldor. Contact your District Office for details. See main catalog sections for motors stocked with roller bearings shown with a "TR" after catalog number (ECP4408TR-4). **Does Not Apply to Explosion-Proof Motors or Super-E Liberator designs that must be built as custom motors.**

CONTACT YOUR BALDOR REPRESENTATIVE

NEMA Frame	List Price Per Motor
445-447T	4468
449T	4468
G5008L - G5012L*	4882

**NOTE:** 447T - 4 pole and slower only. Perform in Charlotte. Contact Baldor for lead time and freight charges back to plant of manufacturing. \* Applicable to Super-E liberator G30 4-pole designs with "L" shaft.

**M2 Bearings continued...**

**M2C Add Thermocouple to Bearing Housing**

Iron constantan thermocouples unless specified otherwise.

-CONTACT  
YOUR  
BALDOR  
REPRESENTATIVE

NEMA Frame	List Price Per Bearing
449T - 5011L	1691

**NOTE:** Contact Baldor for lead time and freight charges back to plant of manufacturing.

**M2D Install Bearing Temperature Detector**

100 OHM Platinum Standard. (10 OHM and 120 OHM available)

CONTACT  
YOUR  
BALDOR  
REPRESENTATIVE

NEMA Frame	List Price Per Bearing
449T - 5011L	2826

**NOTE:** Leads for thermocouples or RTD's are brought into separate terminal housing. Price includes adder for M4E. Contact Baldor for lead time and freight charges back to plant of manufacturing.

**M2E Add Double Sealed Bearings NEMA 254T Through NEMA 365T, Open Steel Band Only**

Stock motors have double shielded bearings as standard.

TWO  
DAYS

NEMA Frame	List Price Per Motor Sealed
254T - 256T	459
284T - 286T	508
324T - 326T	605
364T - 365T	724

**NOTE:** Grease fittings will be replaced with slotted head pipe plugs.

**M2F Add Isolated Bearings NEMA 254T through NEMA 365T (SKF Insocoat or equivalent)**

TWO  
DAYS

NEMA Frame	List Price Per Motor Sealed
254T - 256T	1969
284T - 286T	2470
324T - 326T	2754
364T - 365T	2854

### Modification Number

### Motor Mod Express® Description and List Price

### Working Days Required

## M3 Brake Motors

### M3A Convert Standard to Weatherproof

Standard base mounted, TEFC brake motors will be converted to W/P brake motors. Includes replacement of standard brake with W/P brake of the same rating and weatherproofing of motor (See M27).

CONTACT  
YOUR  
BALDOR  
REPRESENTATIVE

Brake Rating lb-ft	List Price Per Motor	Brake Rating lb-ft	List Price Per Motor
3	545	50	1120
6	555	75	1156
10	563	105	1409
15	632	125	3060
25	638	175	2801
35	666	230	3010

**NOTE:** TENV, C-Face brake motors can be converted also. **TEFC C-Face brake motors cannot be converted.**

### M3B Convert to Vertical Mounting

Standard brake motors will be modified so that brakes will be operable in a brake-below motor or a brake-above motor vertical mounting position.

CONTACT  
YOUR  
BALDOR  
REPRESENTATIVE

Brake Rating lb-ft	List Price Per Motor	Explosion-Proof List Per Motor-Additional
10 - 15	STD	133
25 - 35	309	187
50 - 75	349	211
105	463	279
125 - 175	773	464
230	978	

**NOTE:** Specify if brake is to be above or below motor

### M3C Add Larger or Smaller Brake (All Types)

Contact Baldor for application assistance.  
\$259 list per brake (plus difference in brake cost)

CONTACT  
YOUR  
BALDOR  
REPRESENTATIVE

## Modification Number

## Motor Mod Express® Description and List Price

## Working Days Required

### M3 Brake Motors continued...

#### M3D

#### Electrical Modifications

Brake coils will be changed to allow operation from different voltage supplies for both 50 and 60 hertz AC or from DC supplies. External brake coil lead connections will be brought from the brake or from the motor conduit box when necessary in the application. Specify brake lead location, voltage of brake coil, frequency of supply source. (Allow 2 weeks for brake coil delivery.) \$237 List per brake (plus any difference in coil cost).

CONTACT YOUR BALDOR REPRESENTATIVE

#### M3E

#### Add a Double C-Face Coupler Brake

Double C-Face coupler brakes. Mounts on motors with C-Face. Provides NEMA C-Face mounting on brake. Spring set, electrically released.

CONTACT YOUR BALDOR REPRESENTATIVE

Brake Rating lb-ft	Brake Mounting	List Price Per Motor
3	56C	700
6	56C	931
6	145TC	931
10	145TC	1052
15	145TC	2011

**NOTE:** Rating up to a 105 ft. lb. is available. Contact Baldor Representative for approval and delivery time.

#### M3F

#### Remove Brake From a Brake Motor

Brake is removed for customers who will be supplying a brake at their location.

CONTACT YOUR BALDOR REPRESENTATIVE

Brake Rating	List Price Per Motor
All	154



### Modification Number

### Motor Mod Express® Description and List Price

### Working Days Required

## M4 Conduit Box

### M4A Tap or Provide Additional Lead Hole

TWO DAYS

Lead outlet hole in conduit box with dimensions as shown below will be tapped to accept threaded conduit as shown in "Optional threaded hole..." column below. An additional clearance hole or threaded hole may be supplied if specified. Use same list adder for threaded hole.

NEMA Frame	Stock Motor		Optional Threaded Hole For Conduit Size	List Price Per Motor	Oversize Box	List Price Per Motor
	Hole Diameter *	For Conduit Size				
48 - 145T	7/8"	1/2"	3/4"	106	48-56	117
182 - 215T	1-1/16"	3/4"	1"	106	143-145T	131
254 - 256T	1-3/8"	1"	1-1/4"	173	182-184T	145
284 - 326T	2"	1-1/2"	2"	173	213-215T	160
364 - 365T	2-1/2"	2"	2-1/2"	232		
404 - 405T	3"	2 1/2"	3"	252		
444 - 447T	3"	2-1/2"	3"	252		

**NOTE:** \* Stock motor lead holes are not threaded except on Dirty Duty and Chemical Process motors. Extra lead holes do not apply to Explosion Proof motors. If additional hole is needed, specify hole diameter and exact location. Contact your Baldor representative for application assistance.

### M4B Rotate Conduit Box Lead Opening

TWO DAYS

Specify lead opening location facing conduit box  
List Per Motor: \$123

### M4C Add Oversized Cast Iron Conduit Box

TWO DAYS

2100 Cubic Inches

NEMA Frame	List Price Per Motor
449T	249

**NOTE:** Consider use of IEEE 841 motors that have oversized conduit boxes standard.

### M4E Add 3.5" Round Accessory Box

-CONTACT YOUR BALDOR REPRESENTATIVE

12 Cubic Inches - for Thermostat, Heater or accessory leads.

NEMA Frame	List Price Per Motor
5007L - 5011L	1215

**NOTE:** Contact Baldor for lead time and freight charges back to plant of manufacturing.

**M4 Conduit Box continued...**

**M4F Replace Die Cast Aluminum Conduit Box**  
Install cast iron conduit box with drilled and tapped entrance hole.

TWO  
DAYS

NEMA Frame	List Price Per Motor
42 - 56	106
143 - 215T	127
254 - 286T	193
324 - 365T	233

**M5 Cord**

**M5A Install Line Cord in Conduit Box or Terminal Panel**  
Heavy duty, industrial type SO oil resistant cord with ground will be installed in conduit box or terminal panel. Strain relief included. Plug not included. **Does Not Apply to Explosion-Proof Motors**

TWO  
DAYS

Wire Gauge	Amp Rating		Six Feet or Less List Price	Each Additional Foot to Ten Max. - List Price
	1φ	3φ		
18	10	7	111	8
16	13	10	111	9
14	18	15	129	11
12	25	20	135	12

**NOTE:** Specify voltage and rotation facing drive end of motor.

**M5B Install 6 Foot, 3 Conductor, Type SO Cord With Plug**  
With ground plug for 115VAC, single phase only. Not for explosion proof motors.

TWO  
DAYS

Hp	List Price Per Motor
1 and smaller	119

**NOTE:** Advise rotation facing drive end of motor

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**Modification  
Number****Motor Mod Express®  
Description and List Price****Working Days  
Required****M6 Switch****M6A Install Switch, Cord and Plug  
(Single Phase Only)**TWO  
DAYS

Includes installation of cord with ground prong and two pole single throw switch. **Does Not Apply to Explosion-Proof Motors**

Hp	Rating	List Price per Motor
Thru 2	16-20A/115V or 230V	251

**NOTE:** Advise voltage and rotation facing drive end of motor

**M6C Change from Mechanical to Electronic  
(Single Phase Only)**TWO  
DAYS

UP to 2 HP (Includes price of switch). Remove mechanical switch from inside motor and install electronic switch in motor conduit box. Contact Baldor for assistance. List Each: \$263

**Does Not Apply to Explosion-Proof Motors**

**M7 Drains****M7A Add Condensation Drain Holes**TWO  
DAYS

A maximum of two additional drilled holes will be made in both endplates of 215T frame and smaller TEFC motors.

A maximum of one additional cross-drilled drain fitting will be installed in both endplates of 254T frame and larger TEFC motors.

**Does Not Apply to Explosion-Proof Motors**

NEMA Frame	List Price Per Motor
215T and Smaller	187
254T - 447T	255
449T - 5011L	624

**NOTE:** Indicate position of drain holes in each endplate.

**M7B Install "T" Drain**TWO  
DAYS

Install one stainless steel "T" drain in each end bracket in existing hole.

**Does Not Apply to Explosion-Proof Motors**

NEMA Frame	List Price Per Motor
254T - 5011L	487

**Modification  
Number**

**Motor Mod Express®  
Description and List Price**

**Working Days  
Required**

**M7 Drains continued...**

**M7C Close Standard Condensation Drain Holes.**  
Close existing drain holes with plugs.  
**Does Not Apply to Explosion-Proof Motors**

TWO  
DAYS

NEMA Frame	List Price Per Motor
215T and Smaller	155
254T - 5011L	187

**M7D Add Breather Drains to Cast Iron Explosion-Proof Motor.**

TWO  
DAYS

NEMA Frame	List Price Per Motor
48 - 215T	328
254 - 449T	379

**M8 Dripcovers**

**M8A Install Dripcover on TEFC or ODP**

TWO  
DAYS

NEMA Frame	List Price Per Motor ODP or TEFC
48 - 145T	123
182 - 184T	132
213 - 215T	148
254 - 256T	170
284 - 286T	205
324 - 326T	227
364 - 365T	411
404-405T (Nema Frame)	411

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**Modification  
Number****Motor Mod Express®  
Description and List Price****Working Days  
Required****M9 Encapsulation****M9A Encapsulate Winding Endturns for Additional  
Environmental Protection.**TWO  
DAYS

Endturns are coated with Dolphon® CB-1128, flexible motor encapsulation component.

NEMA Frame	List Price Per Motor
48 - 145T	268
182 - 184T	303
213 - 215T	392
254 - 256T	499
284 - 286T	539
324 - 326T	604
364 - 365T	740
404 - 405T	847
444 - 449T	977
449T - 5000 - up	(Motor has VPI epoxy varnish ENCAP NOT NEEDED)

**M10 Leads****M10A Install Terminal Lugs**TWO  
DAYS

Specify type of lug. Subject to availability

NEMA Frame	List Price Per Motor
215T and Smaller	123
254 - 326T	178
364 - 447T	224
449T - 5011L	279

**M10B Reconnect Motor from Nine Leads to Three,  
Specify Voltage When Ordering**TWO  
DAYS

NEMA Frame	List Price Per Motor
42 - 145T	135
182 - 184T	211
213 - 215T	280
254 - 256T	315
284 - 286T	415
324 - 326T	525

**NOTE:** On explosion proof, leads are connected in conduit box.

**Modification  
Number**

**Motor Mod Express®  
Description and List Price**

**Working Days  
Required**

**M10 Leads continued...**

**M10C Re-Mark Leads**

Using Cloth Markers - Specify Markings, Letters or Numbers  
Any Size - List Per Motor: \$135

TWO  
DAYS

**M10D Longer Leads, Total Length Up To:**

NEMA Frame	List Price		
	18 Inches	24 Inches	36 Inches
42-145T	274	340	378
182-184T	287	355	389
213-215T	303	370	408

TWO  
DAYS

**Does Not Apply to Explosion-Proof Motors**

**M11 Lubrication**

**M11A Install Low Temperature  
Lubricant in Bearings**

Bearing grease may be changed to allow an operating temperature range for bearings of -55° to +200°F. Standard grease is Exxon POLYREX®EM, with bearing operating temperature range of -15° to +250°F.

TWO  
DAYS

NEMA Frame	List Price Per Motor
48	106
56 - 145T	113
182 - 184T	121
213 - 215T	126
254 - 256T	161
284 - 286T	178
324 - 326T	251
364 - 365T	268
404 - 405T	427
444 - 447T	589

**NOTE:** Single shield or open bearing only.  
Low temperature operation below -25C(-13F)

**Does Not Apply to Explosion-Proof Motors**

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### Modification Number

### Motor Mod Express® Description and List Price

### Working Days Required

## M11 Lubrication continued...

### M11B Add High Temperature or Customer Supplied Grease

TWO DAYS

Bearing grease may be changed to allow an operating temperature range above the standard grease, which is Exxon POLYREX®EM, with bearing operating temperature range of -15° to +250°F. Motors must be studied by Fort Smith application engineering for acceptable temperature rise above 40°C ambient.

Customer-supplied grease must be suitable for the motor application and approved by Fort Smith application engineering. Grease must be accompanied with MSDS data sheets.

**Does Not Apply to Explosion-Proof Motors**

NEMA Frame	List Price Per Motor
48	106
56 - 145T	113
182 - 184T	121
213 - 215T	126
254 - 256T	161
284 - 286T	178
324 - 326T	251
364 - 365T	268
404 - 405T	427
444 - 447T	589

**NOTE:** Contact your Baldor representative to discuss application prior to ordering.

## M12 Seals

### M12A Install Oil Seals

CONTACT YOUR BALDOR REPRESENTATIVE

NEMA Frame	List Price Each
56	287
143T - 145T	287
182T - 184T	318
213T - 215T	350
254T - 256T	483
284T - 286T	566
324T - 326T	640
364T - 365T	805

**NOTE:** Contact your Baldor representative for larger frame sizes.

**Does Not Apply to Explosion-Proof Motors**

**Modification  
Number**

**Motor Mod Express®  
Description and List Price**

**Working Days  
Required**

**M12 Seals continued...**

**M12B Install Inpro/Seal® Drive End Only**

FOUR  
DAYS

Contact Baldor for Other Frame Sizes.

**NOTE:** Contact Baldor for opposite drive end installation.

**Does Not Apply to Explosion-Proof Motors**

NEMA Frame	List Price Each
143T-215T.	901
254-256T	1129
284-286T	1203
324-326T	1277
364-365T	1465
404-405T	1538
445-449T	1874
5007L - 5011L	2208

**M13 Mountings**

**M13A Add Rigid Base**

TWO  
DAYS

Weld stamped steel base to steel band motors.

Not available if conversion results in motors that fall under EPAAct requirements.

NEMA Frame	List Price Per Motor
42 - 48	141
56	144
143 - 145T	144
182 - 184T	175
213 - 215T	211

**NOTE:** NOT available for cast iron motors.

**M13B Install NEMA C-Face Steel Band Motor Construction**

TWO  
DAYS

Add to rigid base mounted motor. Not for explosion proof motors.

NEMA Frame	List Price Per Motor
42, 48 & 56	185
143 - 145T (1)	185
182 - 184T (1)	203
213 - 215T (1)	246
254 - 256T (2)	469
284 - 286T (2)	636
324 - 326T (2)	832

284T &  
LARGER  
SUBJECT TO  
CASTING  
AVAILABILITY

**NOTE:** (1) These motors will have a non-NEMA BA dimension when C-Face is added.

(2) Applies to ODP only.

**Open motors having type numbers beginning with "34" cannot be modified to C-Face. Contact your Baldor representative for details.**

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### Modification Number

### Motor Mod Express® Description and List Price

### Working Days Required

## M13 Mountings continued...

### M13C Install NEMA C-Face - Cast Iron Construction

TWO DAYS

Or Install Cast Iron Endplate where aluminum die cast parts are supplied as standard. **Does Not Apply to Explosion-Proof Motors**

NEMA Frame	List Addition Each End	
	NEMA C-Face Price	Endplate Price
48 & 56	196	127
143 - 145T (1)	196	133
182 - 184T (1)	237	141
213 - 215T (1)	272	155
254 - 256T	604	(2)
284 - 286T	832	(2)
324 - 326T	900	(2)
364 - 365T	971	(2)
404 - 405T	1212	(2)
444 - 445T	1454	(2)
447 - 449T	1454	(2)

**NOTE:** (1) These motors will have a non-NEMA BA dimension when C-Face is added. Specify C-face or Standard horizontal endplate.

(2) Motors have Cast Iron endplates as standard.

**Westville open motors cannot be modified to C-Face. IEEE841 motors cannot be modified to C-Face.**

Contact Baldor.

### M13D Add NEMA D-Flange

Some motors may be converted to D-Flange mounting. Contact your Baldor representative for availability and pricing.

**NOTE:** Some metric flanges are available. Contact your Baldor representative.

**Does Not Apply to Explosion-Proof Motors**

CONTACT YOUR BALDOR REPRESENTATIVE

Baldor Type	NEMA Frame	Open	TEFC	List Price Per Motor
35	56-145T	35EP1604A01	35EP1506A01	335
36	182-4T	36EP1405A09	36EP1304A01 +++	348
306	182-4T	None	36EP1304A01 +++	348
309	254-5U, T	None	09EP1500A04 **	900
310	284-6U, T	None	10EP1502A01	1004
42	324-6U, T	42EP1601A01	None	830
312	324-6U, T	None	12EP1501A03	1143
314	364-5U, T	14EP1601AA01	14EP1705A01	1316
316	404-5U, T	16EP1601A01	16EP1501A01	1696
318	444-5U, T	18EP1600A01	18EP1500A01	2492

**NOTE:** \*\* Must start with motor that already has C-Face on it

+++ These require a special machined D-flange, available only through Mod Express

### M13E Remove Rigid Base From Foot Mounted Steel Band Motors.

TWO DAYS

NEMA Frame	List Price Per Motor	NEMA Frame	List Price Per Motor
42 - 48	188	213 - 215T	313
56	193	254 - 256T	445
143 - 145T	193	284 - 286T	505
182 - 184T	235	324 - 326T	620

**NOTE:** Bases cannot be removed from explosion proof motors.

**M13 Mountings continued...**

**M13F Convert to F-2, Sidewall, or Ceiling Mount**

THREE  
DAYS

AC motors and DC motors through 10 Hp

Consists of repositioning endplate vents, condensation drains, and where applicable, the conduit box to positions shown in chart on page 433.

**Does Not Apply to Explosion-Proof Motors**

NEMA Frame	F2		C1 W1		C2 W2		W4	W5	W3	W8	List Price Per Motor
	ODP	TEFC	ODP	TEFC	ODP	TEFC	W7	TEFC	W6	TEFC	
UP TO 184T	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	280
213 - 215T	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	306
254 - 326T	No	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	365
365T - 447T	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	470
449T - 5011L		Yes		Yes		Yes		Yes		Yes	864

**NOTE:** Specify mounting style from the drawings on page 433. Open slotted band motors are not convertible to "C" or "W" mountings. 09 or larger with CB @ 12 o'clock location requires 3 days lead time. DC motors would be converted at the manufacturing plant. Contact scheduling to check availability of production motors or to ship motor from Fort Smith for conversion. Contact your Baldor representative.

**M13G Add C-Face to Explosion Proof Motors**

THREE  
DAYS

Only available on NEMA frames shown below.

NEMA Frame	List Price Per Motor
56	225
143 - 145T	225
284 - 286T	1628
324 - 326T	2227
364 - 365T	2492
404 - 405T	2940

**NOTE:** Any other frame size must be built as a custom item.

**M13H Mount Dust Control Unit on Grinders**

TWO  
DAYS

**Does Not Include Dust Control Unit**

Wheel Size	List Price Per Grinder
All	178

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**Modification  
Number**

**Motor Mod Express®  
Description and List Price**

**Working Days  
Required**

### M13 Mountings continued...

**M13I Mount Grinder or Buffer onto a Pedestal and Package for Shipment**

TWO  
DAYS

Wheel Size	List Price Per Grinder or Buffer
All	178

**M13J ADD ADJUSTABLE MOTOR BASES**

Adjustable motor bases bolted to fixed base on stock motor before shipping. NEMA 215T and smaller bases feature one adjusting screw. Bases on NEMA 254T frame and larger feature two adjusting screws.

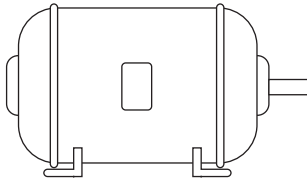
TWO  
DAYS

NEMA Frame	List Price Per Motor
48 - 56	154
143T - 145T	176
182T - 184T	184
213T - 215T	199
254T - 256T	319
284T - 286T	348
324T - 326T	477
364T - 365T	603
404T - 405T	824
444T - 445T	974
447T - 449T	1121

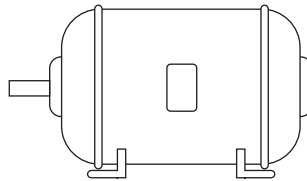
**NOTE:** Bases not suitable for vertical mounting.

**Motor Mod Express®  
Mounting Configurations**

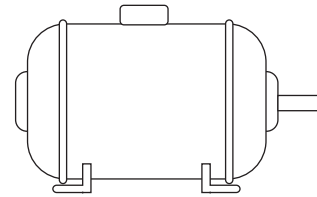
**Floor Mountings**



**Assembly F-1**

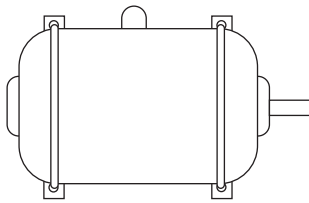


**Assembly F-2**

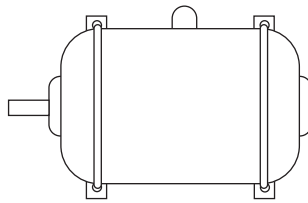


**Assembly F-3**

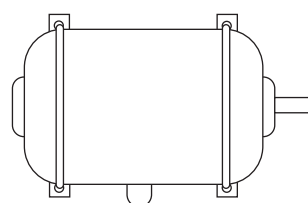
**Wall Mountings**



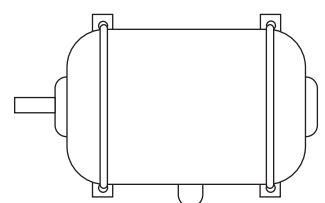
**Assembly W-1**



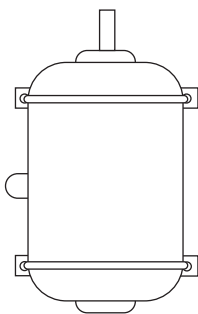
**Assembly W-2**



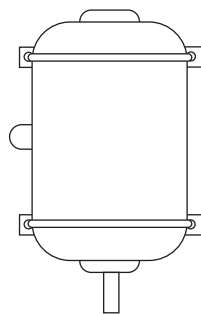
**Assembly W-3**



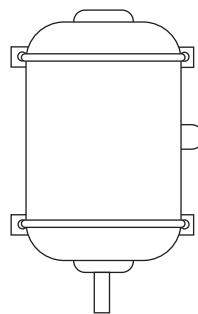
**Assembly W-4**



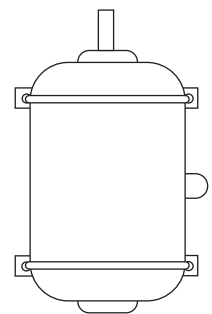
**Assembly W-5**



**Assembly W-6**

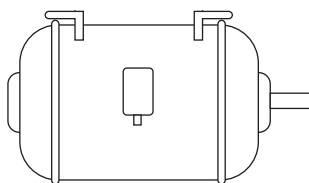


**Assembly W-7**

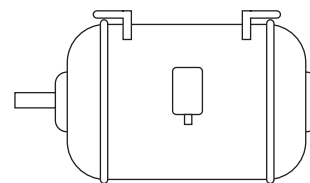


**Assembly W-8**

**Ceiling Mountings**



**Assembly C-1**



**Assembly C-2**

**Modification  
Number****Motor Mod Express®  
Description and List Price****Working Days  
Required****M14 Export Packaging****M14A Box, Package and Crate**

For under-deck exporting

FOUR  
DAYS

NEMA Frame	List Price Each
254 - 286T	678
324 - 365T	1012
405 - 447T	1348
449 - 5011L	3235

**M15 Nameplate****M15A Provide Auxiliary Data Plate for Remote Mounting**Extra nameplate is packed with motor, not mounted.  
List Per Motor: \$103TWO  
DAYS**M15B Replace/Add Customer Nameplate**Add Customer Part Number and/or other changes such as voltage,  
hertz, etc.  
List Per Motor: \$123TWO  
DAYS**M15C Replace with Stainless Steel Nameplate**

List Per Motor \$123

TWO  
DAYS**M15D Add Bearing Data Nameplate**List Per Motor \$123  
**NOTE:** Does Not Apply to Explosion-Proof MotorsTWO  
DAYS**M15E Mail Out Nameplates to District Offices  
(All CSA and ULR markings are removed on nameplates  
ordered as a mail out order)****No Explosion Proof Nameplates (No Exceptions!)**

Order minimum charge of \$25 Add \$1.50 for each additional nameplate.

**NOTE:** No charge orders only accepted if we are correcting our error.  
Nameplates for Explosion-proof motors will not be mailed out, no exceptions.**M15F Mark Nameplate with CE**

List Per Motor \$123

TWO  
DAYS

**Modification  
Number**

**Motor Mod Express®  
Description and List Price**

**Working Days  
Required**

**M16 Blowers**

**M16A Add Constant Velocity Blower Unit**

Contact Baldor for details.

TWO  
DAYS

**M16B Convert from a 3 Phase to a Single Phase Blower**

TWO  
DAYS

NEMA Frame	List Price Per Motor
All	192

**M17 Paint**

**M17A Paint Motor to Baldor Stock Paint Color**

Baldor stock colors are: Dark Machinery Gray, Reliance Blue/Green, Fire Engine Red, Vista Green, Medium Royal Blue, Silver/Grey Hamertone and Copper/Bronze. All are lacquer base.

**All orders that call for Epoxy Paint require an additional day to allow for complete drying of paint.**

TWO  
DAYS

NEMA Frame	List Price Per Motor
42 - 215T	123
254 - 447T	487
449T - 5011L	971

**M17B Paint Motor to Customer Color**

Contact your Baldor representative for color match, availability and price.

THREE  
DAYS  
(From Date  
Paint is  
Available  
in Fort Smith)

**NOTE:** Specifying epoxy paint will add one additional day to allow for complete drying of paint.

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**Modification  
Number****Motor Mod Express®  
Description and List Price****Working Days  
Required****M18 Lifting Lugs****M18A Add Lifting Lugs Up to a 326T Frame Size**TWO  
DAYS

NEMA Frame	List Price Per Motor
48 - 145T	184
182 - 215T	228
254 - 286T	297
324 - 326T	363

**M19 Screens****M19A Add Rodent Screens to Open Drip-Proof Motors**TWO  
DAYS

NEMA Frame	List Price Per Motor
48 - 326T	246
364T - 405T	320

**M20 Hardware****M20A Exchange Plated Hardware with Stainless Steel**TWO  
DAYS

NEMA Frame	List Price Per Motor
145T - 215T	452
254T - 326T	754
364T - 405T	1053
447T - 5011	1352

## M21 Space Heaters

### M21A Add Space Heaters to TEFC or Open Motors

Standard space heater voltage is 110VAC. Heaters for 230 or 460 volts are available. Specify circuit voltage.

TWO  
DAYS

NEMA Frame	List Price Per Motor
145T and Smaller	268
182 - 215T	338
254 - 365T	503
404 - 447T	572
449T - 5011L	1038

**NOTE:** Strip type space heaters are standard. 5000 frame perform at plant of manufacturing. Contact Baldor for time.  
**Does Not Apply to Explosion-Proof Motors**

### M21B Add Conduit Box for Thermostat or Heater Leads

(See M4E) Not for explosion proof motors.

CONTACT  
YOUR  
BALDOR  
REPRESENTATIVE

NEMA Frame	List Price
56 - 145T	370
182 - 215T	434
254 - 365T	655
404 - 447T	828
449T - 5011L	1215

**NOTE:** Contact Baldor for lead time and freight charges back to plant of manufacturing.

## M22 Textile Service

### M22A Lint Proof Fan Cover for Textile Applications

Remove standard fan cover and replace with textile fan shroud and cover.

TWO  
DAYS

NEMA Frame	List Price Per Motor
48 - 145T	245
182 - 184T	320
213 - 215T	361
254 - 256T	516
284 - 286T	606
324 - 326T	670
364 - 365T	795
404 - 405T	864
444 - 447T	934



### Modification Number

### Motor Mod Express® Description and List Price

### Working Days Required

## M23 Thermal Protectors

### M23A Thermostats

#### One or More Thermostats Laced to Winding

For over temperature protection. These are pilot circuit devices only with leads into conduit box tagged "JJ". Specify normally open or closed contacts.

TWO DAYS

NEMA Frame	Number of Devices	List Price Per Motor
Single Phase	1	155
Three Phase 42 - 215T	3 (3)	175
Three Phase 254 - 447T	3 (3)	469
Direct Current 48 - 215T	1	175

**NOTE:** (3) In Series with two leads into conduit box. Normally open are in parallel.

**Does Not Apply to Explosion-Proof Motors**

### M23B Exchange Thermal Overload

Exchange from manual thermal overload to automatic thermal overload or exchange from automatic thermal overload to manual thermal overload.

TWO DAYS

NEMA Frame	List Price Per Motor
	M.T.O to A.T.O. OR A.T.O. to M.T.O.
48 and 56	193
143 and 145T	197
182 - 184T	227
213 - 215T	313

**Does Not Apply to Explosion-Proof Motors**

### M23C Install Resistance Temperature Detectors

Install on low voltage winding endturns (Six 100 OHM RTD's).

CONTACT YOUR BALDOR REPRESENTATIVE

NEMA Frame	List Price Per Motor
449T - 5011L	3452

**NOTE:** 449T - up contact Baldor for lead time and freight charges back to plant of manufacturing.

**Does Not Apply to Explosion-Proof Motors**

**Modification  
Number**

**Motor Mod Express®  
Description and List Price**

**Working Days  
Required**

**M24 Winding Thermocouples**  
(3 per motor, 6 foot standard length)

**M24A Iron Constantan (3 per motor)**  
Specify location.

TWO  
DAYS

NEMA Frame	List Price Per Thermocouple
42 - 215T	170
254 - 445T	350
449 - 5011L	2073

**NOTE:** 449T - up contact Baldor for lead time and freight charges back to plant of manufacturing.  
**Does Not Apply to Explosion-Proof Motors**

**M25 Winding Thermistors**

**NOTE:** 449T - up contact Baldor for lead time and freight charges back to plant of manufacturing.  
**Does Not Apply to Explosion-Proof Motors**

**M25A One or Two**  
List Price: \$285

TWO  
DAYS

**M25B Three Per Motor**  
List Price: \$596

TWO  
DAYS

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### Modification Number

### Motor Mod Express® Description and List Price

### Working Days Required

## M26 Tropicalization

### M26A Protection of Windings and Mechanical Parts

Protection from tropical environments.

TWO DAYS

NEMA Frame	List Price Per Motor	
	AC	DC
Through 215T	205	299
254 - 365T	294	469
404 - 447T	503	N/A

## M27 Weatherproofing

### M27A Treatment of Windings and Mechanical Parts

Protection from the elements or high moisture areas.

TWO DAYS

NEMA Frame	List Price Per Motor	
	AC	DC
Through 215T	199	294
254 - 365T	936	469
404 - 447T	1100	N/A

**NOTE:** Baldor "Dirty Duty", "CP" and "ECP" motors are weatherproofed as standard.

**Does Not Apply to Explosion-Proof Motors**

## M28 Marine Motors

### M28A IEEE 45

A combination of M4A and M27 for frames 215T and smaller plus nameplate stamped IEEE 45. NEMA frames 254T and larger require tapping of conduit box and nameplate stamped IEEE 45.

TWO DAYS

NEMA Frame	List Price Per Motor	
	AC	DC
42, 48, 56	205	294
143 - 215T	294	469
254 - 365T	341	N/A
404 - 447T	503	N/A

## Modification Number

## Motor Mod Express® Description and List Price

## Working Days Required

### M29 Shaft Modifications

Includes modifications to existing shafts only. Not applicable if new shaft is required. Price each modification per table M29 or M29D.

FIVE DAYS

NEMA Frame	List Price Per Modification	NEMA Frame	List Price Per Modification
42 - 145T	184	254T - 256T	331
182 - 184T	193	284 - 286T	331
ASM62 (5)	227	324-326T	477
213 - 215T	268	364-365T	528
ASM75 (5)	268	404-405T	596

**NOTE:** (5) Arbor Saw Motors.

### M29A Drill and Tap One Hole in End of Shaft or Mill Flat on Shaft Extension.

Provide details on order. Price this modification per table M29.

THREE DAYS

### M29B Convert from TEFC to TEAO

Cut off shaft extension for external fan. Price this modification per table M29.

**Does Not Apply to Explosion-Proof Motors**

THREE DAYS

### M29C Threading

Specify right hand or left hand thread, also type and length of thread. Price this modification per table M29.

FIVE DAYS

### M29D Convert "T" Frame to "U" Frame Shaft Dimension or Smaller (TS)

Provide details on order.

FIVE DAYS

NEMA Shaft	Conversion of T Frame to TS or U Frame	
	Work Days Required	List Price Per Motor
143 thru 145T	5 Days	184
182 thru 215T	5 Days	338
254 thru 286T	5 Days	771
324 thru 365T	5 Days	1149
404 thru 449T	5 Days	1894

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## M29 Shaft Modifications continued...

### M29E Shaft Grounding Brush Shaft Grounding Systems



TWO DAYS

Add Shaft Grounding System unit to opposite shaft end of motor on TEFC, TENV, TEBC and ODP motors. Available for all frame sizes. Shaft grounding brush provides a current path from the rotor to the frame to lessen the chance of bearing fluting. Insolated bearings isolate the shaft, but rotor currents can be passed through a conductive coupling to the driven load and damage bearings there.

NEMA Frame	Baldor Type	List Addition
56 - 445T	35/305 - 318	1037
447-9T - 5812	318 - 322	1544

Does Not Apply to Explosion-Proof Motors

### M29F Shorten Shafts Without Reducing the Overall Diameter

THREE DAYS

NEMA Shaft	List Price Per Motor
48 - 145T	297
182 - 215T	408
254 - 256T	565
324 - 326T	579

### M29G Special Shafts

Contact Baldor for price and availability.

### M29H Convert to a Longer Shaft Up to a 215T Frame

Contact Baldor for price and availability.

### M29I Machine Explosion Proof Motor Shafts from T to U Frame

Contact Baldor for price and availability.

### M29J Shaft Grounding Brush Assembly

TWO DAYS

Add external shaft grounding brush to motor endplate. Brush contacts motor shaft diameter.

NEMA Shaft	List Addition
48 - 145T	170
182 - 215T	255
254 - 256T	384
324 - 326T	576

Does Not Apply to Explosion-Proof Motors

**Modification Number**

**Motor Mod Express® Description and List Price**

**Working Days Required**

**M30 Grounding Screw**

**M30A Add Grounding Screw On Endplate** TWO DAYS  
 Requirement for UL 1081, swimming pool pump motors (includes slinger.)  
 List Price: \$113

**M31 Tach Mounting Kits**

**M31A Add Tach Mounting Kits Only** THREE DAYS  
 Tach mounting kits are listed on page 282-284. These kits are complete and will allow mounting of a BTG1000 or XPY tach generator (tach generator not included).

Baldor Motor Type	List Price Per Motor
3300P	350
3400D/P	434
3500D/P	451
3600D/P	521
180 - 500 Frame	1123

**NOTE:** Price includes tach kit.

**M31B Tach Kit with BTG1000 Tach** FOUR DAYS  
 Order tach kit per M31A and order tach separately.

**M31C Tach Kit with XPY Tach** FOUR DAYS  
 Order tach kit per M31A and order tach separately.

**M31D Add Encoder Kit to Inverter Duty Motor** TWO DAYS  
 Order encoders separately. Encoders are listed on page 210.

NEMA Frame	List Price Per Motor
56-215T	160
254T-404T	334
444T-5009L	521

**M31E Additional Mounted Encoder Options for IDRPM Motors** TWO DAYS  
 List price includes encoder and mounting to motor.

Motor Enclosure	Type	Frame Size	Mfg.	Mag or Optical	Conn Type	Input Voltage VDC	List Price
All	H20	FL180 - L400	Dynapar	O	MS-ST	5-15	1722
All except TEFC	RL67	FL180 - L400	Dynapar	M	Latch	5-15	2124
All except TEFC	SL85	F280 - L400	Dynapar	M	Latch	5-15	2236

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**Modification  
Number****Motor Mod Express®  
Description and List Price****Working Days  
Required****M32 Testing****M32A CSA C390 Method 1 Equivalent to IEEE 112  
Method B Performance Testing**SEVEN  
DAYS

Three phase stock motors will be tested under lab conditions according to CSA C390 (equivalent to IEEE 112b). Complete test data will be supplied.

NEMA Frame	List Price Per Motor
42 - 215T	2022
254T - 447T	3031
449T - 5011L	7407

**M32B Witnessed CSA C390 Method 1 Equivalent to  
IEEE 112 Method B Performance Testing**SEVEN  
DAYS

Test schedule must be coordinated with Baldor corporate office.

NEMA Frame	List Price Per Motor
42 - 215T	7072
254T - 447T	8082
449T - 5011L	11448

**M33 Short Test****M33A Motor Performance - Short Test**SEVEN  
DAYS

Three phase or single phase motors will have any or all of the following motor characteristics measured. Test data will be supplied. All data will be taken on cold motor.

No Load Current	Locked Rotor (Starting) Current
Full Load Current	Locked Rotor Torque
Breakdown Torque	Hi-Potential Test

NEMA Frame	List Price Per Motor
42 - 215T	336
254 - 447T	615

**M34 Worm Gear Modifications**

**M34A Install Bases on Worm Gear Speed Reducers.**

List price include bases.

TWO  
DAYS

900 Series				Universal Series	
Size	Horiz. Base	Vertical Low Base List Price	Vertical High Base List Price	Size	Vertical Base (Converts STF to SVF)
913	168	203	205	133	170
915	177	205	207	175	170
918	177	205	207	200	186
921	180	209	212	225	186
924	193	225	230	258	204
926	205	260	262	300	204
932	230	283	289	350	216
938	251	319	328	400	244

**M34B Convert from Single to Double End Output Shaft on Worm Gear Speed Reducers.**

List price includes shaft.

TWO  
DAYS

900 Series		Universal Series	
Size	Price	Size	Price
913	185	133	182
915	188	175	188
918	188	200	188
921	188	225	197
924	193	258	205
926	205	300	209
932	209	350	227
938	227	400	249

**M34C Convert Output Shaft from Left Hand to Right Hand or vice versa on 900 or Universal Series Reducers**

\$141 List (Price does not include reducer)

TWO  
DAYS

**M34D Install Motor on 900 F-Series or Universal STF Series Reducers**

\$141 List (Price does not include motor or reducer)

TWO  
DAYS

Gearmotors and Gear Products

Motor Accessories

Grinders

Generators

Servo Motors and Controls

Mod Express

Baldor Education Workshops

Warranties and Sales Policies

Cross Reference and Index

Baldor Sales Offices



### Modification Number

### Motor Mod Express® Description and List Price

### Working Days Required

## M35 Terminal Blocks

### M35A Install IEC Terminal Blocks in Conduit Box and Connect Leads

TWO DAYS

IEC Frame, stocked with terminal blocks.  
Advise how motors leads are to be connected.

**Does Not Apply to Explosion-Proof Motors**

NEMA Frame	List Price
34 FRAME - 56-143T	192
35 FRAME - 56-145T	206
182-184	228
213-215	250
254-256	287
284-286	297
324-326	869
364-365	869
404-405	869
444-449	869

## M36 Starters

### Add Magnetic or Manual Starter to Grinder or Buffer

Mounted and wired on Baldor industrial grinders and buffers. Starters are in NEMA 1 enclosure and have the push button in cover. Available only as factory installed options. Lead time is dependant on delivery of the starter.

### M36A Starter - Single Phase

Full voltage control.

TWO DAYS

Grinder Wheel Size	Buffer Hp	Manual	Magnetic	
		115/230 Volts List Price	115 Volts List Price	230 Volts List Price
6"	1/3	423	695	777
7"	N/A	423	695	777
8"	3/4	423	797	777
10"	1	423	797	777
N/A	1-1/2	423	797	682
12"	2	Standard Equipment	676*	682*

**NOTE:** Specify voltage when ordering.

\*Price includes allowance for omission of standard starter.

### M36B Starter - Three Phase

Full voltage control.

TWO DAYS

Grinder Wheel Size	Buffer Hp	Manual	Magnetic	
		208-230/460 Volts List Price	208-230 Volts List Price	460 Volts List Price
7"	N/A	489	777	716
8"	N/A	489	777	716
10"	3/4	489	777	716
12"	1	Standard Equipment	547*	502*
12"	2	Standard Equipment	547*	502*

**NOTE:** Specify voltage when ordering.

\*Price includes allowance for omission of standard starter.

**M36 Starters continued...**

**M36C Magnetic Starter – Three Phase**

With Low Voltage Control.

TWO  
DAYS

Grinder Wheel Size	Buffer Hp	Magnetic With 110 Volt Control Circuit Transformer	
		208-230 Volts	460 Volts
		List Price	List Price
7"	N/A	1745	1931
8"	N/A	1745	1931
10"	3/4	1745	1931
12"	1	1712*	1747*
12"	2	1712*	1747*
14"	5	1712*	1747*
14"	7-1/2	1712*	1747*

**NOTE:** Specify voltage when ordering.

\*Price includes allowance for omission of standard starter.

**M36D Overload Protection for Dust Control Unit**

TWO  
DAYS

NEMA Frame	List Price
All	521

**NOTE:** Must be used with magnetic control.  
Contact Baldor for details.

**M37 Voltage**

**M37A Change a Grinder Dust Control Unit from  
230/460 Volts to 575 Volts**

TWO  
DAYS

NEMA Frame	List Price
All	154

**M38 Fan Change with Inverter Nameplate Markings**

Refer to Inverter/Vector Motors & Controls section Page 189 for details on fixed speed motor capabilities when used in variable speed applications. Where available, this modification changes the fan used on TEFC motors and changes the motor nameplate to reflect the new speed range capabilities.

TWO  
DAYS

NEMA Frame	List Price Per Motor
180-280	246
320-449	304