



Your motor, your way...now

The Mod-Squad stands on alert ready to tailor a LEESON stock motor to meet your modified motor needs in a few days or less. From one modified motor up to a few—there is no faster, more versatile source for mechanically or electrically “customerized” motors.

Starting with an off-the-shelf LEESON motor selected from the nearly 3,000 LEESON stock motors, the modifications listed here can be completed in the time frame noted for each item.

INDEX TO MOTOR MODIFICATIONS

Description	Mod-Squad™ Number	Page
Balancing	L1	94
Bearing Modifications	L2	94
Brakemotor Modifications	L3	94
CE Marking	L24	101
Condensate Drains - Totally Enclosed Motors	L8	96
Conduit Box Modifications	L4	95
Cords, Plugs & Grounding Provisions	L5	95
Drip Cover - Open, Drip-Proof Motors	L9	97
Dynamic Braking Boards - Micro Series	L28	103
Fungus Proofing and Tropicalization	L19	100
IEEE 841 Modifications	L26	102
Leads - Reconnect, Remark or Extend	L10	97
Lint-Proof Textile Service Motors	L17	99
Marine Service Motors - Three Phase, Totally Enclosed	L21	100
Motor Protection	L18	100
Mountings	L12	97
Nameplates	L13	99
Paint	L14	99
Remote Keypad Option - Micro Series	L25	101
Rodent Screens	L15	99
Severe Duty - Cast Iron Fan Covers	L7	96
Shaft Modification	L22	101
Shaft Seals	L11	97
Space Heaters, Anti-Condensation	L16	99
Switches - Power or Electronic Starting	L6	96
Tachometer Mounting Provisions - DC Motors	L23	101
Terminal Blocks - NEMA Motors	L27	103
Totally Enclosed Air Over Conversion	L22	101
Weatherproofing - Three Phase, Totally Enclosed Motors	L20	100

**ORDERING
INFORMATION**

To order please specify the catalog number of the LEESON stock motor to be modified and the Mod-Squad modification catalog number or numbers desired.

An inventory of popular motors is maintained by the Modification Center for fast delivery. **However, delivery of the modified motor is governed by availability of the stock motor.** If a stock motor is shipped from a District Warehouse to the Modification Center in Grafton, Wisconsin, the cost of the inbound freight is added to the price of the modified motor and delivery of the modified motor will be extended by the inbound transit time.

Modification list prices are subject to the same discounts as apply to the motor. (Some motors, such as explosion-proof, are not modifiable.) Days noted are working days excluding holidays and weekends—larger quantities may require additional leadtime.

MOD-SQUAD™ CANCELLATION POLICY

Modified motors may not be returned for credit or re-stocking. If a modification order is cancelled before shipment, a cancellation charge of double the modification charge will be invoiced to the customer. Any Mod-Squad™ order cancelled before modification is completed is subject to cancellation charges of 10% of total charges for that item.

Terms are net 30 days, FOB Grafton, Wisconsin with freight prepaid on single shipments of 1,000 pounds or more to the first destination within the continental United States, excluding Alaska.

Mod-Squad™

L1 Balancing

Two Days*

Rebalance a stock motor to the following standards—NEMA frames 42 through 286T.

#L1a Alternating Current Motors, Single or Three Phase

NEMA Frame	Catalog Number	List Price Per Motor	Stock Motor Balance	Special Balance
42-48	L1A4248	\$145	.001"	.0005"
56-145T	L1A56140	145	.001"	.0005"
182T-215T	L1A180210*	145	.001"	.0005"
254T-286T	L1A250280*	425	.001"	.0005"

*Cast iron motors in these frame sizes require five days.

#L1b Direct Current Motors

NEMA Frame	Catalog Number	List Price Per Motor	Stock Motor Balance	Special Balance
42-48-56	L1B4256	\$155	.001"	.0005"
143-182	L1B140180	284	.001"	.0005"

L2 Bearing Modifications

Two Days

#L2a Change standard double-shielded bearings to double-sealed bearings.

NEMA Frame	Catalog Number	List Price Per Motor
42	L2A42	\$103
48	L2A48	103
56	L2A56	103
143T-145T	L2A140	107
182T-184T	L2A180	116
213T-215T	L2A210	124

(Rolled steel motors only—not for use with cast iron motors)

#L2b Change standard bearings to double shielded/sealed bearings with low-temperature lubricant (Beacon #325), with a range of -100°F to 250°F. Standard lubricant is Exxon POLYREX® EM with a temperature range of -20°F to +350°F.

NEMA Frame	Catalog Number	List Price Per Motor
42	L2B42	\$103
48	L2B48	103
56	L2B56	103
143T-145T	L2B140	107
182T-184T	L2B180	116
213T-215T	L2B210	124

(Rolled steel motors only—not for use with cast iron motors)

L3 Brakemotor Modifications

Three Days

#L3a Convert brakemotors (TENV only) with standard enclosure brakes to weatherproof brakes by changing the disc brake. Weatherproof brakes have additional sealing and protection. Price includes cost of weatherproof brake.

#L3a

Brake Rating	Catalog Number	List Price Per Motor
3 lb-ft	L3A3	\$458
6 lb-ft	L3A6	458
10 lb-ft	L3A10	467
15 lb-ft	L3A15	482
25 lb-ft	L3A25	530

#L3b Change the standard brake to one with a different torque rating. Specify torque rating. Standard enclosure brakes only—not weatherproof. Some torque limitations apply, specify torque rating. List price per motor: \$191. Catalog Number L3B.

#L3c Change Brake Coil Voltage. Change from standard coil voltage to 115 volts (for Stearns brand brakes only). List price per motor: \$191. Catalog Number L3C.

#L3d Install a LEESON BrakeKit. See Page 38 for BrakeKits available and motors that can be converted. Specify the catalog number of both the stock motor and the BrakeKit. List price per motor: \$191, plus cost of the BrakeKit. Catalog Number L3D.



BrakeKit Installation

L4 Conduit Box Modifications

Three Days

#L4a Tap or provide an additional hole (tapped if specified), plug existing hole or rotate conduit box. NOTE: LEESON standard steel frame motors have a steel conduit box with multiple knockouts. Tapped holes are not possible for these motors. WASHGUARD® motors have cast aluminum boxes that can be rotated 180 degrees and have one tapped hole. Cast iron frame motors have one tapped hole and the box can be rotated in 90° increments.



Conduit Box Rotation
Note: Conduit box remains in same location and is rotated in 90° increments.

Type	NEMA Frame	Catalog Number	List Price Per Motor	Standard Hole Dia.	For Conduit Size	Opt. Threaded Hole Conduit Size
Washguard	56-145T	L4AW56140	\$77	7/8"	1/2"	3/4"
Rolled Steel*	182T-215T	L4ARS180210	77	1 1/16"	3/4"	1"
Cast Iron	182T-215T	L4ACI180210	77	1 1/16"	3/4"	1"
Cast Iron	254T-256T	L4ACI250	126	1 3/8"	1"	2 1/4"
Cast Iron	284T-326T	L4ACI280320	126	2"	1 1/2"	2"
Cast Iron	364T-365T	L4ACI360	126	2 1/2"	2"	2 1/2"
Cast Iron	404T-405T	L4ACI400	141	3"	2 1/2"	3"
Cast Iron	444T-447T	L4ACI440	141	3"	2 1/2"	3"

* Except 3 HP and larger Ag motors, such as 130044 which have a cast conduit box.

L5 Cords, Plugs and Grounding Provisions

Three Days

#L5a For single phase motors, install grounded line cord of type S.O., three-conductor oil resistant cord, connected in the conduit box or terminal panel, with strain relief. No plug. **Specify cord length, voltage and shaft rotation (clockwise or counterclockwise) viewed from the drive shaft end of the motor.**

Wire Gauge	Max Amp Rating Single Phase	Catalog Number	List Price 6 ft or Less	Catalog Number	List Price Each Add'l Foot to 10 Ft. Max
16	13	L5A16	\$89	L5A16ADD	\$1.41
14	18	L5A14	94	L5A14ADD	1.77
12	25	L5A12	99	L5A12ADD	2.11

#L5b Install 6-foot grounded type S.O. cord with plug, 115VAC single phase only. **Specify cord length, shaft rotation (clockwise or counterclockwise) viewed from the drive shaft end of the motor.**

HP	Catalog Number	List Price 6 Ft. or Less	List Price Each Add'l Foot to 10 Ft. Max.
1 and smaller	L5B	\$86	\$1.41

#L5c Add an external grounding screw to the endbell of drip-proof or totally enclosed non-ventilated NEMA 48 or 56 frame motors. Meets UL 1081 swimming pool motor grounding provisions (includes slinger). **List price per motor: \$84. Catalog Number L5C.**



Grounded Cord w/Plug

Mod-Squad™

L6 Switches – Power or Electronic Starting

Three Days

#L6a On-off switch for 2 HP and smaller single phase motors only. Install double-pole, single-throw switch in the conduit box, with switch guard and a 6-foot type S.O. cord with grounded plug, **115 VAC or 230 VAC—please specify. Also specify shaft rotation (clockwise or counterclockwise) viewed from the drive shaft end of the motor.**

HP	Rating	Catalog Number	List Price Per Motor
Thru 2	16-20A/115V or 230V	L6A	\$186



On-Off Switch w/Guard

#L6b Replace mechanical centrifugal switch on single phase motors 2HP and smaller with solid-state, encapsulated, electronic starting switch. Capacitor-start, induction-run motors only. **Subject to engineering approval. List price per motor: \$193. Catalog Number L6B.**

L7 Severe Duty - Cast Iron Fan Covers

Three Days

#L7a Remove steel fan cover and install a cast iron fan cover on LEESON TEFC 150 and 170 series cast iron motors to meet severe duty, mill and chemical duty specifications. Note: These motors have cast iron endbells, frame, and conduit box as standard.

NEMA Frame	Catalog Number	List Price Per Motor
180T	L7A180	\$194
213T-215T	L7A210	218
254T-256T	L7A250	266
284T-286T	L7A280	415
324T-326T	L7A320	430
364T-365T	L7A360	608
404T-405T	L7A400	658



Cast Iron Fan Cover

L8 Condensate Drains - Totally Enclosed Motors

Two Days

#L8a 215T and smaller *steel frame* motors. Drill one or two condensation drain holes on the **periphery or in the face** of each endbell of steel frame 215T frame and smaller totally enclosed motors. **Specify location in both the shaft end and opposite endbell using a drawing or clockface analogy.** When specified, a drain can be added to the face of one endbell for shaft up or down mounting.

NEMA Frame	Catalog Number	List Price Per Motor
215T and smaller	L8A40210	\$137
254T-365T	L8A250360	188



Condensate Drain

#L8b 182T and larger *cast iron frame* motors. Provides an additional one-way, cross-drilled stainless steel condensation drain on the periphery or in the face of each endbell. **Provide a drawing or clockface analogy for position in each endbell.**

NEMA Frame	Catalog Number	List Price Per Motor
215T and smaller	L8B40210	\$137
254T-365T	L8B250360	188

#L8c Close existing condensation drains in 150 and 170 series cast iron motors using slotted head pipe plugs.

NEMA Frame	Catalog Number	List Price Per Motor
215T and smaller	L8C180210	\$113
254T-365T	L88C250360	137

L9 Drip Cover – Open, Drip-Proof Motors

Two Days

#L9a Install a drip cover on steel frame motors. Price includes drip cover.

NEMA Frame	Catalog Number	List Price Per Motor
48-145T	L9A40140	\$89
182T-184T	L9A180	97
213T-215T	L9A210	107



Drip Cover

#L9b Install a drip cover on cast iron motors. Price includes drip cover.

NEMA Frame	Catalog Number	List Price Per Motor
182T-184T	L9B180	\$97
213T-215T	L9B210	107
254T-256T	L9B250	129

L10 Leads – Reconnect, Remark or Extend

Two Days

#L10a Connect leads in the conduit box or terminal panel to single voltage. **Specify voltage.**

NEMA Frame	Catalog Number	List Price Per Motor
48-145T	L10A40140	\$99
182T-184T	L10A180	155
213T-215T	L10A210	207
254T-256T	L10A250	233
284T-286T	L10A280	307
324T-326T	L10A320	347

#L10c Extend leads up to two feet longer than standard by splicing. **Specify additional length required.**

NEMA Frame	Catalog Number	List Price Per Motor
48-145T	L10C40140	\$99
182T-184T	L10C180	155
213T-215T	L10C210	207
254T-256T	L10C250	233
284T-286T	L10C280	307
324T-326T	L10C320	347

#L10b Remark leads using metal markers. **Specify markings, letters or numbers.** Frames 447T and smaller. Any motor size.
List price per motor: \$103. Specify Catalog Number L10B.

L11 Shaft Seals

Three Days

#L11a Install an oil seal on the shaft end of 215T and smaller steel frame LEESON motors. May be installed on single, three phase or direct current motors, but not explosion-proof motors.

Catalog Number	List Price
L11A	\$259

L12 Mountings

Two Days

#L12a Add a stamped steel rigid base to steel frame motors. For 182-4T frame motors, minimum 8.50" (TEFC, rigid, C face) or 8.00" (ODP, rigid, C face) frame length is required

NEMA Frame	Catalog Number	List Price Per Motor
42-48	L12A4248	\$103
56	L12A56	105
143T-145T	L12A140	105
182T-184T	L12A180	128
213T-215T	L12A210	155

#L12b Remove stamped steel rigid base from steel frame motors.

NEMA Frame	Catalog Number	List Price Per Motor
42-56	L12B4256	\$160
143T-145T	L12B140	160
182T-184T	L12B180	193
213T-215T	L12B210	232

Note: It is not possible to add a base to some three phase motors as the resulting rigid base motor will be subject to EPACT mandated efficiency values. Contact the factory.

L12 Mountings (continued)

Two Days

#L12c Install a NEMA C face on steel frame motors 215T and smaller. **Specify if the rigid base is to be removed. If so, add for modification #L12b listed above.**

NEMA Frame	Catalog Number	List Price Per Motor
42-56*	L12C4256	\$136
143T-145T	L12C140	136
182T-184T	L12C180	147
182T-184T**	L12C180U	147
213T-215T	L12C210	181

* Adding a 48 C-Face results in a non-NEMA BA dimension.
 ** Convert a 182T-184T frame motor to have a C-face dimensions of a 143T-145T or 182U-184U frame motor (AJ = 5 7/8", AK = 4 1/2"). The shaft dimensions and base location will not change.

#L12d Install a NEMA C face to 150 or 170 series cast iron motors. **The rigid base cannot be removed from these cast iron frame motors (non-800 Series).**

NEMA Frame	Catalog Number	List Price Per Motor
182T-184T	L12D180	\$244
213T-215T	L12D210	264
254T-256T	L12D250	337
284T-286T	L12D280	407
324T-326T	L12D320	527
364T-365T	L12D360	572
404T-405T	L12D400	627
444T-445T	L12D440	769
447T-449T	L12D4479	812

#L12e Install a NEMA D flange to open or totally enclosed motors of steel frame construction in 182-4T frame and cast iron 150 and 170 series motors in 213T frames through 365T frame. Steel rigid base can be removed from steel frame 182-4T frame motors. **Specify and add for modification L12b. Rigid base cannot be removed from cast iron frame motors.**

NEMA Frame	Catalog Number	List Price Per Motor
182T-184T	L12E180	\$244
213T-215T	L12E210	264
254T-256T	L12E250	337
284T-286T	L12E280	407
324T-326T	L12E320	527
364T-365T	L12E360	572
404T-405T	L12E400	651

#L12f Convert standard F1 motors to F2, sidewall or ceiling mounting. Consists of repositioning the endbell vents and condensation drains where applicable and the conduit box lead hole. Note: If brakemotor, brake knob will be located at 6 o'clock.

NEMA Frame*	Catalog Number	List Price Per Motor
56-184T	L12F56180	\$207
213T-215T	L12F210	225
254T-326T	L12F250320	269
364T-365T	L12F360	347

* Three phase only; single phase motors cannot be converted.

#L12g Rotate standard conduit box position by 90° increments. **Specify by clock face, i.e. 9 o'clock, 12 o'clock, etc. for position (viewed from shaft end).** Consists of repositioning the endbell vents and condensation drains where applicable and the conduit box lead hole. Note: If brakemotor, brake knob will be rotated 90° from conduit box.

NEMA Frame*	Catalog Number	List Price Per Motor
56-184T	L12G56180	\$207
213T-215T	L12G210	225

* Three phase rolled steel only; single phase motors cannot be converted.

#L12h Install a metric (IEC) B5 flange to 190 series cast aluminum or cast iron AC motors and DC steel frame motors.

NEMA Frame	Catalog Number	List Price Per Motor
63	L12H63	\$132
71	L12H71	137
71(DC)	L12HD71	137
80	L12H80	140
80 (DC)	L12HD80	140
90	L12H90	143
90 (DC)	L12HD90	143
100	L12H100	157
112	L12H112	163
100/112(DC)	L12HD100112	163
132	L12H132	186
160	L12H160	264
180	L12H180	302

#L12j Install a metric (IEC) B14 face to 190 series cast aluminum or cast iron AC motors and DC steel frame motors. ***Note:** C-face kit (B14) not available in NEMA frame 180.

NEMA Frame	Catalog Number	List Price Per Motor
63	L12J63	\$127
71	L12J71	132
71 (DC)	L12JD71	132
80	L12J80	136
80 (DC)	L12JD80	136
90	L12J90	139
90 (DC)	L12JD90	139
100	L12J100	153
112	L12J112	157
100/112 (DC)	L12JD100112	157
132	L12J132	180
160	L12J160	259

#L12k Reposition feet and nameplate (to relocate conduit box) on AC aluminum-frame IEC motors (63 thru 90L frame).

IEC Frame	Catalog Number	List Price Per Motor
63	L12K63	\$92
71	L12K71	98
80	L12K80	103
90	L12K90	130

L13 Nameplates

Three Days

#L13a Provide an extra motor nameplate-unmounted. Add customer part number or change to other voltage or frequency service. **List price: \$75.** ① **Add \$1 (net) for each additional aluminum nameplate** ②: **Add \$2 (net) for each additional stainless steel nameplate.** ② **Catalog Number L13A.**

#L13b Replace, existing nameplate. Add customer part number or change to other voltage or frequency service and mount to motor. **List price per motor: \$89.** ① **Add \$2 (net) for each additional stainless steel nameplate.** ②

#L13c Replace standard aluminum nameplate with stainless steel nameplate. LEESON cast iron, WASHGUARD® and severe duty motors have stainless steel nameplates as standard. **List price per motor: \$89.** ① **Add \$2 (net) for each additional stainless steel nameplate.** ②

① Must specify catalog number and date code of motor's existing nameplate.

② Additional nameplates must be identical.

L14 Paint

Two Days*

#L14a Repaint motor to another LEESON stock paint color. A sample of choices include LEESON blue, white epoxy, farm duty red, light gray epoxy, black, or black epoxy. **Specify color.**

***Note:** Epoxy paint requires extra curing time. Please allow one additional day.

	Frame	Catalog Number	List Price Per Motor
NEMA	42-215T	L14A40210	\$89
NEMA	254T-365T	L14A250360	180
IEC	63-90	L14A6390	89
IEC	100-225	L14A100225	181

L15 Rodent Screens

Two Days

#L15a Add rodent screens to open drip-proof motors, steel frame, 326T and smaller.

NEMA Frame	Catalog Number	List Price Per Motor
182T-S213T	L15A40210	\$141
254T-286T	L15A250280	324
324T-326T	L15A320	436

L16 Space Heaters, Anti-Condensation

Five Days

#L16a Add anti-condensation space heaters to totally enclosed or open motors. Standard space heater voltage is 115 VAC. **Heaters for 230 or 460 VAC are available. Specify circuit voltage.** May be installed in single, three phase or direct current motors, but not explosion-proof motors.

NEMA Frame	Catalog Number	List Price Per Motor
145T and smaller	L16A40140	\$197
182T-215T	L16A180210	249
254T-365T	L16A250360	373

L17 Lint-Proof Textile Service Motors

Two Days

#L17a Convert a standard totally enclosed-fan cooled motor to textile service by modifying the fan cover to reduce “snagging” of lint and reduction in cooling air for the motor. Price includes kit cost.

NEMA Frame	Catalog Number	List Price Per Motor
56-145T	L17A40140	\$180
182T-184T	L17A180	237



Lint-Proof Kit

L18 Motor Protection

Two Days

#L18a Thermostats on the winding. Install one or more thermostats in the windings of NEMA frame AC motors on the brush plate of DC motors or on the inside of frame on Sub-FHP DC motors. These are pilot or signal devices only, to be used in series with a motor controller or starter to remove power from the motor. Red color leads are brought into the conduit box.

Specify normally open or closed contacts.

Normally closed thermostats connected in series.

Thermostats cannot be installed in explosion-proof motors. **Note: Not available for IEC motors.**

Type	NEMA Frame	Catalog Number	List Price Per Motor	No. of Devices
Single Phase	All	L18AS40210	\$113	1
Three Phase	42-215T	L18AT40210	128	2
Three Phase	254T-365T	L18AT250360	347	2
Direct Current	42-56	L18AD4056	128	1

#L18b For a motor equipped with a thermal overload, exchange a manual or automatic reset thermal overload to the opposite style. Delivery is dependent upon availability of the thermal overload.

Note: Automatic thermal overloads return power to the motor automatically after cooling-off. Automatic thermal overloads should not be used in installations where a sudden restart could cause injury.

NEMA Frame	Catalog Number	List Price Per Motor
48-56	L18B4056	\$141
143T-145T	L18B140	145
182T-184T	L18B180	166
213T-215T	L18B210	232

L19 Fungus Proofing and Tropicalization

Two Days

#L19a Special treatment of the motor's windings and mechanical parts to resist tropical environments. Not available on brakemotors.

NEMA Frame	Catalog Number	List Price Per Motor	
		AC	DC
42-215T	L19A40210	\$150	\$150
254T-365T	L19A250360	217	—

L20 Weatherproofing – Three Phase, Totally Enclosed Motors*

Five Days

#L20a Treatment of mechanical and electrical components of LEESON steel frame totally enclosed motors to resist weather in application outside or in high-moisture conditions. NOTE: LEESON 150 and 170 series cast iron motors are weatherproofed as standard. LEESON WASHGUARD® motors are also well-suited for outside and high-moisture applications. Not available on brakemotors.

NEMA Frame	Catalog Number	List Price Per Motor	
		AC	DC
42-215T	L20A40210	\$146	\$146

* For single phase weatherproofed motors, see WASHGUARD® motors on page 28.

L21 Marine Service (IEEE 45) Motors – Three Phase, Totally Enclosed

Five Days

#L21a Treatment of mechanical and electrical components for application below deck aboard ships. Meets IEEE 45 marine specifications. Includes tapped lead hole and nameplate stamped 50°C ambient and marked IEEE 45. Standard LEESON blue epoxy paint will be applied unless otherwise specified. Not available on brakemotors and subject to engineering approval.

NEMA Frame	Catalog Number	List Price Per Motor	
		AC	DC
42-215T	L21A40210	\$150	\$150
254T-365T	L21A250360	252	—
404T-405T	L21A400	373	—

L22 Shaft Modifications

Five Days

#L22a Drill and tap one hole in either end of motor's shaft or mill a flat on the drive end shaft extension. **Provide details of hole or flat with the order.** List price is per modification. For example, a motor modified by adding a tapped hole and flat would be priced by adding the list price twice.

NEMA Frame	Catalog Number	List Price Per Modification
42-145T	L22A40140	\$135
182T-184T	L22A180	141
213T-215T	L22A210	197

#L22b TEFC to air-over service. Convert a motor from totally enclosed, fan cooled construction to totally enclosed, air-over service by removing fan cover and fan and cutting off the fan end shaft. The modified motor must be mounted in the air stream of the driven fan for cooling purposes.

NEMA Frame	Catalog Number	List Price Per Modification
42-145T	L22B40140	\$135
182T-184T	L22B180	141
213T-215T	L22B210	197

L23 Tachometer Mounting Provisions – DC Motors

Five Days

#L23a Add a tachometer mounting kit to NEMA frame size Direct Current motors. See page 71 for availability of tachometer mounting kits. Does not include tachometer.

NEMA Frame	Catalog Number	List Price For Kit & Mounting
S56	L23AS56	\$259
SS56	L23ASS56	322
56/145T	L23A56140	334



Tach Kit Adaptor

L24 CE Marking*

Five Days

#L24 Modify motor to comply with the nameplate designation, lead markings and connection diagrams required by the IEC34 motor specification. Modification includes a nameplate with the CE logo or a separate CE decal and a CE Declaration of Conformity document.

Catalog Number	List Price per motor
L24	\$125



#L24b CE Marking Kit - Includes new nameplate with data in IEC34 format, lead markers for IEC lead designations, a connection diagram, and a CE Declaration of Conformity document. The nameplate will have the CE logo, or a CE decal will be provided.

Catalog Number	List Price per motor
L24B	\$75

*CE Marking is typically required for motors being shipped to Europe where 50Hz power is standard. For this reason, CE Marking includes adding 50Hz data to the motor nameplate. Not all motors can be used with 50Hz power – especially single-phase motors with centrifugal switches. Contact LEESON to verify acceptability for CE Marking.

L25 Micro Series Inverter - Remote Keypad Option

Two Days

#L25 A remote keypad for Micro Series inverters is available only as a factory installed option. The keypad is mounted in a gasketed steel faceplate that must be mounted in an enclosure for protection. An inverter modified for remote operation can only be operated from the remote keypad. Price includes remote keypad, faceplate, cable and factory modification charges.



Catalog Number	List Price	Disc. Sym.	Description
L25A25	\$304	A	Keypad with 2.5 foot cable
L25A50	330	A	Keypad with 5 foot cable
L25A100	388	A	Keypad with 10 foot cable

L26 IEEE 841 Modifications*

Only cast iron WATTS-AVER® motors (170 Series) can be modified to meet IEEE-841. This conversion adds the following severe duty features:

- Rust-inhibiting coatings of all internal motor components, except bearings.
- Motor component sealing of the endshields, conduit box, conduit box cover and bearing caps using high temp RTV silicone, latex or anaerobic cure materials.
- All fastening hardware is hex head type with plating. Plating is zinc, chrome, nickel or cadmium to prevent rust.
- Shaft extensions are sealed from the motor using positive lip-seals or labyrinth seals or a combination of both to exclude moisture and dirt from contaminating the motor bearings.
- The exterior of the motor is painted with a two-part gray-silver epoxy.
- Cross-drilled replaceable brass/bronze condensate drains.
- Mounting foot flatness within +/- .005 inches.
- Additional grounding lug on the motor frame (same side as conduit box).
- Fan rotation sticker.
- Additional nameplate provided inside the conduit box when condensate heaters are used, containing the following information: watts used, voltage, and wire connection scheme.
- Test card providing the following mechanical and electrical tests:
 - 1) Motor precision balance/testing where by unfiltered vibration will not exceed .08 in/sec peak velocity for 2, 4, 6-pole machines and .06 in/sec peak velocity for 8-pole machines.
 - 2) Filtered vibration not to exceed .05 in/sec peak velocity at twice speed (2n) of (2f) twice frequency.
 - 3) Unfiltered axial vibration not to exceed .06 in/sec at the bearing housing, excluding roller bearings.
 - 4) Winding resistance.
 - 5) No-load readings of amperage power and speed at rated voltage & frequency.
 - 6) High-potential test.
- Nameplate stamped IEEE 841-1994

#L26a IEEE 841 Basic Modification

Modification of motors 215T and below includes lip seals both on DE and ODE.

Modification of motors 254T and above includes Inpro seal (bronze) on DE and lip seal on ODE.

NEMA Frame	Catalog Number	List Price Per Modification
182-184T	L26A180	\$441
213-215T	L26A210	525
254-256T	L26A250	681
284-286T	L26A280	805
324-326T	L26A320	904
364-365T	L26A360	1089

#L26b Additional Drive-End Inpro Seal Modification (MUST BE USED IN CONJUNCTION WITH L26a)

For motors 215T and below only.

Standard Inpro seal is bronze (call for other materials).



NEMA Frame	Catalog Number	List Price Adder
182-184T	L26B180	\$123
213-215T	L26B210	135
254-256T**	—	—
284-286T**	—	—
324-326T**	—	—
364-365T**	—	—

**Included with L26a modification.

#L26c Additional Non-Drive-End Seal Modification (MUST BE USED IN CONJUNCTION WITH L26a)

For motors 365T and below.

Standard seal is bronze (call for other materials).

NEMA Frame	Catalog Number	List Price Adder
182-184T	L26C180	\$123
213-215T	L26C210	123
254-256T	L26C250	140
284-286T	L26C280	168
324-326T	L26C320	213
364-365T	L26C360	257

For other seal materials, please contact your local LEESON representative for pricing and delivery.

*Contact LEESON for leadtime.

L27 Terminal Blocks -- NEMA Motors

Five Days

#L27a Add a terminal block in the conduit box of rolled steel motor from 56 to 215T-frame. Install ring terminals on the motor leads.

- Conduit box on 56-frame motors will be changed to a longer version to accommodate the terminal board.
- Use with single-phase or three-phase motors with no protector.
- Specify connection voltage and direction of rotation for single-phase.
- Not intended for 56, 143T & 145T-frame TENV or ODP motors that have a built-in conduit box. Contact LEESON for the suitability of adding a terminal board to one of these motors.

NEMA Frame	List Price	
	Catalog Number	Per Modification
56/143T/145T	L27A56140	\$146
182T/184T/S213T	L27A180	163
213T-215T	L27A210	179

#L27b Install a terminal block kit in the conduit box of a cast iron NEMA frame motor. Price includes kit. (IEC motors have a terminal block installed as standard.)

NEMA Frame	List Price	
	Catalog Number	Per Modification
180/210T	L27B180210	\$179
250/280T	L27B250280	212
320/360T	L27B320360	244
400/440T	L27B400440	320

L28 Dynamic Braking Board -- Micro Series Drives

Two Days

#L28 Install Dynamic Braking board in Micro Series drive. Note: Does not include Dynamic Braking resistor, which is ordered as a separate line item. See Micro Series accessory section of catalog for resistor selection.

HP Rating	Voltage	Catalog Number	List Price Per Modification
1/2 - 3HP	All	L28A174184	\$587
5HP	200-230V	L28A174185	614
5HP	460-480V	L28A174185	614
5HP	550-575V	L28A174184	587
7 1/2HP	200-230V	L28A174192	578
7 1/2HP	460-480V	L28A174193	578
7 1/2HP	550-575V	L28A174193	578
10-60HP	All	L28A174192	578