LEESON®

NEMA Premium® Efficiency Inverter Duty Motors

Features

- Meets or exceeds NEMA Premium efficiencies
- Inverter duty
- Suitable for use with ALS (across-the-line starting) or IGBT (AC drive)
- 10:1 variable torque and constant torque on VFD with 1.0 service factor
- 1.15 service factor on sinewave; 1.0 service factor on IGBT power
- Class F insulation
- Continuous duty at 40° C ambient
- Rolled steel construction with C-face rigid base mounting
- F3 conduit box location
- Utilizes ball bearings
- Electrically reversible
- UL Recognized, CSA Certified, and CE Mark
- Three-year warranty

Applications

- Typical uses include gear reducers, pumps, machine tools, and other direct-coupled equipment installed in damp, dusty, or dirty environments where long life and ultra-high efficiency is desired.

Motor Shipping Schedule *		
*Same or one day **	*Up to 7 days*	*Up to 10 days*

Color indicates shipping lead time in business days. Check stock status online.

*** Certain heavy and oversized items can be shipped only via LTL. Check our website for current shipping method constraints by part number.**

208–230/460V Motor Specifications

*Part Number**	*Price*	*HP*	*Base RPM*	*Volts*	*Enclosure*	*NEMA Frame*	*Model No.*	*F.L. Amps*	*Weight (lb)**	*Drawing Links*
E2001A	$691.00	1	1800	208–230 / 460	TEFC	143TC	143TTFR16053	3.3–3.3 / 1.65	48	PDF
E2002	$762.00		1200			145TC	145TTFR6078	3.8–3.8 / 1.9	42	PDF
E2004A	$727.00	1-1/2	1800			145TC	145TTFR16331	4.7–4.6 / 2.3	50	PDF
E2007A	$821.00	2	1800			145TC	145TTFR16329	6.2–6.0 / 3.0	65	PDF

*** Refer to the Motor Shipping Schedule table for shipping information.**
Certain heavy and oversized items can be shipped only via LTL. Check our web site for current shipping method constraints by part number.

† These specifications are for the Leeson motor currently being sold. Marathon manufactured a previous version of this Part Number (that had a different model #), and that version had some different specifications. For detailed information on the previous motor, please refer to the "Previous Marathon Model Numbers" table on the next page, or click on the previous motor's specification at www.AutomationDirect.com/Retired-Products.

Notes: Please review the AutomationDirect Terms & Conditions for warranty and service on this product.

NEMA Premium® Efficiency Inverter Duty Motors

Performance Data

Performance Data (460 Volt)															
Part Number	HP	NEMA Design	F.L. RPM	Min RPM	Current (Amps)			Torque (lb·ft)			Max CHP RPM*	Max Safe RPM	F.L. Effic. (%)	F.L. Power Factor	Rotor Inertia ($lb·ft^2$)
					No Load	Full Load	Locked Rotor	Full Load	Locked Rotor	Break -down					
E2001A	1	A	1765	177	1.2	1.7	17	3.0	13.7	16.8	1765	4000	85.5	68	0.12
E2002		B	1170	117	1.3	1.9	10	4.5	13.5	15.8	1755	5400	82.5	60	0.14
E2004A	1-1/2		1755	176	1.5	2.3	24	4.5	21.2	26	1755	4000	86.5	71	0.14
E2007A	2		1760	176	1.9	3.0	30.5	6.0	24.5	33.2	1760	4000	86.5	71	0.14

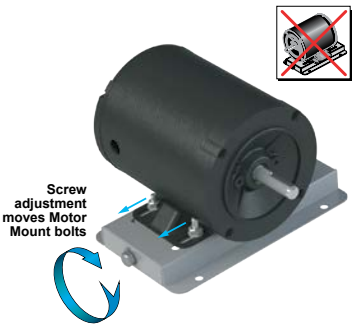
*** Maximum Constant HP RPM is for direct coupled loads.**

† These specifications are for the Leeson motor currently being sold. Marathon manufactured a previous version of this Part Number (that had a different model #), and that version had some different specifications. For detailed information on the previous motor, please refer to the previous motor's specification at www.AutomationDirect.com/Retired-Products.

STABLE™ Motor Slide Bases

Mounting Slide Bases for 56 to 449T NEMA Motors Features

- Allows adjustment of motor mounting position
- Slide direction is perpendicular to motor shaft
- Double adjusting screws for frames 182T–449T
- Manufactured to precise dimensional standards
- Dimensionally interchangeable with existing major makes
- Heavy-duty steel construction
- Painted with oven-baked primer for better adhesion of customer's paint
- All "D" bolts (motor mounting bolts) are fixed to the exact motor foot pattern
- All "D" bolts are welded into position to prevent spinning and dropping from slots
- Nuts and washers are provided for securing the motor to the slide base



STABLE Motor Slide Bases for 3-Phase Motors

Part Number (MTA-BASE-xxx)	Price	Fits Frame Type	Product Wt. (lb)	Fits Motor						Drawing Links
				IronHorse	Leeson® WashGuard®	WEG (Part number ending in...)	Marathon microMAX, Max+, Black Max, Blue Max,SyMAX	Marathon XRI GP & NEMA Premium, Jet Pump	Marathon Globetrotter	
W56	$18.50	56*	2.8	MTPM-P3x-1x18 MTPM-P5x-1x18 MTPM-P7x-1x18 MTPM-0xx-1x18 MTPM-1xx-1x18 MTR(2)(P)-xxx-xxxxx* MTRJ(P)-xxx-xxxxxx MTSN-P33-3BD18 MTSN-P33-3BD18R MTSN-P33-3BD36 MTSP-P33-3BD18 MTSP-P33-3BD18R MTSP-P33-3BD36 MTSP-P33-3BD36R MTSN-P50-3BD18 MTSN-P50-3BD18R MTSN-P50-3BD36 MTSP-P50-3BD12 MTSP-P50-3BD18 MTSP-P50-3BD18R MTSP-P50-3BD36 MTSP-P50-3BD36R MTSN-P75-3BD18 MTSN-P75-3BD18R MTSN-P75-3BD36 MTSP-P75-3BD12 MTSP-P75-3BD18 MTSP-P75-3BD18R MTSP-P75-3BD36 MTSN-001-3BD18 MTSN-001-3BD18R MTSN-001-3BD36 MTSP-001-3BD18 MTSP-001-3BD18R MTSP-001-3BD36 MTSP-001-3BD36R MTSN-1P5-3BD18 MTSN-1P5-3BD18R MTSN-1P5-3BD36 MTSP-1P5-3BD18 MTSP-1P5-3BD18R MTSP-1P5-3BD36 MTSP-1P5-3BD36R MTSN-002-3BD18 MTSN-002-3BD18R MTSN-002-3BD36 MTSP-002-3BD18 MTSP-002-3BD18R MTSP-002-3BD36 MTSP-002-3BD36R	112427.00 112428.00 112429.00 112430.00 113019.00 113023.00 113473.00 113586.00 113590.00 113591.00 113649.00 116644.00 116645.00 119468.00 119469.00 119471.00 119475.00 119476.00 119478.00 119480.00 119482.00 119483.00 191206.00 191561.00 191562.00 191569.00	(...)56-S (...)56C-S	Y500 Y502 Y360 Y362 Y364 Y280 Y281 Y282 Y592(-A772) Y534(-A772) Y535(-A772)	G582	–	PDF

*** IronHorse MTR2 56HC motors have double-punched bases to fit on slide base MTA-BASE-W56.**

STABLE™ Motor Slide Bases

STABLE Motor Slide Bases for 3-Phase Motors

Part Number (MTA-BASE-xxx)	Price	Fits Frame Type	Product Wt. (lb)	Fits Motor						Drawing Links
				IronHorse	Leeson® WashGuard®	WEG (Part number ending in...)	Marathon microMAX, Max+, Black Max, Blue Max,SyMAX	Marathon XRI GP & NEMA Premium, Jet Pump	Marathon Globetrotter	
W143T	$32.50	143T/TC	4.6	MTCP2-001-3BD18(C) MTCP2-1P5-3BD36 MTSN-1P5-3BD36-14 MTSP-1P5-3BD36-14 MTSP-1P5-3BD36R-14	–	(...)145T-S (...)145TC-S	Y536(-A772)	E2001A	–	PDF
W145T	$32.50	145T/TC	5.1	MTCP2-001-3BD12 MTCP2-1P5-3BD18(C) MTCP2-002-3BD18(C) MTCP2-002-3BD36 MTSP-001-3BD12 MTSN-1P5-3BD18-14 MTSN-1P5-3BD18R-14 MTSP-1P5-3BD18-14 MTSP-1P5-3BD18R-14 MTSN-002-3BD18-14 MTSN-002-3BD36-14 MTSP-002-3BD18-14 MTSP-002-3BD18R-14 MTSP-002-3BD36-14	121866.00 121868.00 121870.00 122182.00 122184.00 122185.00 191570.00		Y366 Y368 Y284 Y285 Y537 Y538(-A772) Y551(-A772)	E2002 E2004A E2007A	–	PDF
W182T	$44.00	182T/TC	9.2	MTCP2-1P5-3BD12 MTCP2-003-3BD18(C) MTCP2-003-3BD36 MTSP-1P5-3BD12 MTSN-003-3BD36-18 MTSP-003-3BD18-18 MTSP-003-3BD36-18			Y1999 Y286A Y541A(-A772)	–	GT0010A GT1010A	PDF
W184T	$44.00	184T/TC	10	MTCP2-002-3BD12 MTCP2-005-3BD18(C) MTCP2-005-3BD36 MTF-00x-1C18 MTSP-002-3BD12 MTSP-005-3BD18 MTSP-005-3BD36			Y1372 Y540(-A772) Y543A(-A772)	–	GT0013A GT1013A GT1210A GT1212A GT1213A	PDF
W213T	$64.00	213T/TC	13	MTCP2-003-3BD12 MTCP2-7P5-3BD18(C) MTCP2-7P5-3BD36 MTSP-003-3BD12 MTSP-7P5-3BD18	140822.00 141266.00		Y994 Y542(-A772) Y545(-A772)	–	GT0016A GT1016A GT1216A	PDF
W215T	$64.00	215T/TC	15	MTCP2-005-3BD12 MTCP2-010-3BD18(C) MTCP2-010-3BD36 MTSP-005-3BD12 MTSP-010-3BD18	140820.00 140821.00		Y996 Y544(-A772) Y547(-A772)	–	GT0019A GT1019A GT1218A GT1219A	PDF
W254T	$86.00	254T/TC	18	MTCP2-7P5-3BD12 MTCP2-015-3BD18(C) MTCP2-015-3BD36 MTSP-015-3BD18	–		Y546(-A772) Y549(-A772)	–	GT0059 GT1022A GT1222A	PDF
W256T	$86.00	256T/TC	19	MTCP2-010-3BD12 MTCP2-020-3BD18(C) MTCP2-020-3BD36 MTSP-020-3BD18	–		Y548(-A772)	–	GT0062 GT1025A GT1225A	PDF
W284T	$96.00	284T/TC	20	MTCP2-015-3BD12 MTCP2-025-3BD18(C)	–		–	–	GT0065 GT1028A	PDF
W286T	$96.00	286T/TC	21	MTCP2-020-3BD12 MTCP2-030-3BD18(C)	–		–	–	GT0067 GT1031A	PDF
W324T	$140.00	324T/TC	30	MTCP2-040-3BD18(C)	–		Y571(-A774) Y513(-A775)	–	GT0073 GT1034A	PDF

*** IronHorse MTR2 56HC motors have double-punched bases to fit on slide base MTA-BASE-W56.**

STABLE™ Motor Slide Bases

STABLE Motor Slide Bases for 3-Phase Motors

Part Number (MTA-BASE-xxx)	Price	Fits Frame Type	Product Wt. (lb)	Fits Motor						Drawing Links
				IronHorse	Leeson® WashGuard®	WEG (Part number ending in...)	Marathon microMAX, Max+, Black Max, Blue Max,SyMAX	Marathon XRI GP & NEMA Premium, Jet Pump	Marathon Globetrotter	
W326T	$140.00	326T/TC	31	MTCP2-050-3BD18(C)	–		Y572(-A774) Y514(-A775)	–	GT0077 GT1037A	PDF
W364T	$190.00	364T/TC	43	MTCP2-060-3BD18(C)	–		Y573(-A774) Y515(-A775)	–	–	PDF
W365T	$190.00	365T/TC	43	MTCP2-075-3BD18(C)	–		Y574(-A774) Y516(-A775)	–	–	PDF
W404T	$232.00	404T/TC	58	–	–		–	–	–	PDF
W405T	$232.00	405T/TC	60	MTCP2-100-3BD18(C)	–		Y575(-A774) Y517(-A775)	–	–	PDF
W444T	$264.00	444T	63	MTCP2-125-3BD18	–		–	–	–	PDF
W445T	$264.00	445T	65	MTCP2-150-3BD18	–		–	–	–	PDF
W447T	$347.00	447T	89	MTCP2-200-3BD18	–		–	–	–	PDF
W449T	$347.00	449T	94	MTCP2-250-3D18 MTCP2-300-3D18	–		–	–	–	PDF

*** IronHorse MTR2 56HC motors have double-punched bases to fit on slide base MTA-BASE-W56.**

STABLE™ Motor Slide Bases

Mounting Slide Bases for 56 to 215T NEMA Motors Features

STABLE Motor Slide Bases for 1-phase Motors									
Part Number	Price	Fits Frame Type	Product Wt. (lb)	Fits Motor					
				IronHorse	Leeson®	Marathon			
					Washguard®	Marathon DP GP (NEMA Service Factor)	Marathon DP Air Compressor	Fan & Blower	Marathon TE GP 4-in-1
MTA-BASE-W56	$18.50	56*	2.8	MTR2-xxx-1AB18 MTR2-xxx-1AB36 MTPM-xxx-1L18 MTPM-xxx-1M18	112431.00 112527.00 112528.00 112529.00 113583.00 114311.00 114313.00 191477.00	G915A C167A C187A E261A E268A	D010	C216 C1153 C1155 B319 D118 C1158 C235 D115 C1160 C1161 B352	G570 D311 G571 D312 G572 D313 G573 D314 G574 D315 G575
MTA-BASE-W143T	$32.50	143T / TC	4.6	–	–	C188A	–	–	–
MTA-BASE-W145T	$32.50	145TC / TC	5.1	–	–	I127	–	–	–
MTA-BASE-W182T	$44.00	182T / TC	9.2	–	–	–	–	–	–
MTA-BASE-W184T	$44.00	184 / TC	10	MTF-00x-1C18	–	–	–	–	–
MTA-BASE-W213T	$64.00	213T / TC	13	–	–	–	–	–	–
MTA-BASE-W215T	$64.00	215T T TC	15	–	–	–	–	–	–

*** IronHorse MTR2 56HC motors have double-punched bases to fit on slide base MTA-BASE-W56.**