

NEMA Premium® Efficiency XRI® Series 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 (through Marathon Electric)

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
E2000		1	3600	208–230 / 460	TEFC	56C	056T34F5940	3.0–2.8 / 1.4	28	PDF
E2001A			1800			143TC	143TTFR16053	3.3–3.3 / 1.65	48	PDF
E2002			1200			145TC	145TTFR6078	3.8–3.8 / 1.9	42	PDF
E2004A		1-1/2	1800			145TC	145TTFR16331	4.7–4.6 / 2.3	50	PDF
E2007A		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 Marathon 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.

Warranty service can be arranged through numerous Marathon Electric service centers.

See list of service centers on our Web site at www.automationdirect.com.



NEMA Premium[®] Efficiency XRI[®] Series 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-ft²)
					No Load	Full Load	Locked Rotor	Full Load	Locked Rotor	Break -down					
E2000	1	B	3490	349	0.7	1.4	10	1.5	3.6	5.1	5235	7200	80	84	0.04
E2001A		A	1765	177	1.2	1.7	17	3.0	13.7	16.8	1765	4000	85.5	68	0.12
E2002			1170	117	1.3	1.9	10	4.5	13.5	15.8	1755	5400	82.5	60	0.14
E2004A	1-1/2	B	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

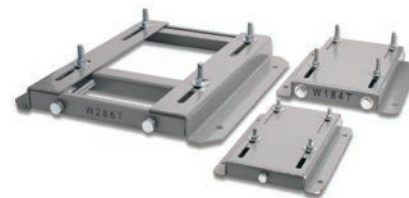
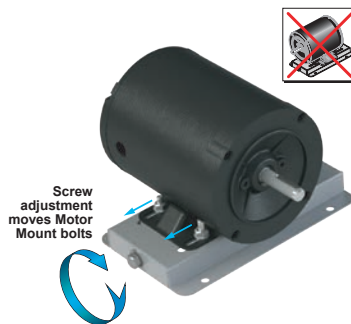
* Maximum Constant HP RPM is for direct coupled loads.

† These specifications are for the Marathon 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 below, or click on 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®	WEG (Part number ending in...)	Marathon			
					WashGuard®		microMAX, Max+, Black Max, Blue Max, SyMAX	XRI GP & NEMA Premium, Jet Pump	Globetrotter	
W56		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			112427.00						
	MTSP-P33-3BD18			112428.00						
	MTSP-P33-3BD18R			112429.00						
	MTSP-P33-3BD18R			112430.00						
	MTSP-P33-3BD36			113019.00						
	MTSP-P33-3BD36R			113023.00						
	MTSN-P50-3BD18			113473.00						
	MTSN-P50-3BD18R			113586.00						
	MTSN-P50-3BD36			113590.00						
	MTSP-P50-3BD12			113591.00						
	MTSP-P50-3BD18			113649.00				Y500		
	MTSP-P50-3BD18R			116644.00				Y502		
	MTSP-P50-3BD36			116645.00				Y360	E2000	
	MTSP-P50-3BD36R			119468.00				Y362	K705	
	MTSN-P75-3BD18			119469.00				Y364	G582	
	MTSN-P75-3BD18R			119471.00				Y280	K707	
	MTSN-P75-3BD36			119475.00			(...)56-S	Y281	D393A	
	MTSP-P75-3BD12			119476.00			(...)56C-S	Y282	D394A	
	MTSP-P75-3BD18			119478.00				Y592(-A772)	K721A	
	MTSP-P75-3BD18R			119480.00				Y534(-A772)	G584A	
	MTSP-P75-3BD36			119482.00				Y535(-A772)	D395A	
	MTSP-P75-3BD36R			119483.00				SY001	G585A	
	MTSN-001-3BD18			191202.00				SY003	J066A	
	MTSN-001-3BD18R			191204.00				SY004		
	MTSN-001-3BD36			191205.00				SY005		
	MTSP-001-3BD18			191206.00						
	MTSP-001-3BD18R			191207.00						
	MTSP-001-3BD36			191208.00						
	MTSP-001-3BD36R			191560.00						
	MTSN-1P5-3BD18			191561.00						
	MTSN-1P5-3BD18R			191562.00						
	MTSN-1P5-3BD36			191563.00						
	MTSP-1P5-3BD18			191564.00						
	MTSP-1P5-3BD18R			191569.00						
	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									

* 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®	WEG (Part number ending in...)	Marathon			
					WashGuard®		microMAX, Max+, Black Max, Blue Max, SyMAX	XRI GP & NEMA Premium, Jet Pump	Globetrotter	
W143T		143T/ TC	4.6	MTCP2-001-3BD18(C) MTCP2-1P5-3BD36 MTSN-1P5-3BD36-14 MTSP-1P5-3BD36-14 MTSP-1P5-3BD36R-14	191487.00 191565.00	(…) 145T-S (…) 145TC-S	Y536(-A772)	E2001A	-	PDF
W145T		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-002-3BD18R-14 MTSN-002-3BD36-14 MTSP-002-3BD18-14 MTSP-002-3BD18R-14 MTSP-002-3BD36-14 MTSP-002-3BD36R-14	121866.00 121868.00 121870.00 122182.00 122184.00 122185.00 191490.00 191491.00 191570.00		Y366 Y368 Y284 Y285 Y537 Y538(-A772) Y551(-A772)	E2002 E2004A E2007A	-	PDF
W182T		182T/ TC	9.2	MTCP2-1P5-3BD12 MTCP2-003-3BD18(C) MTCP2-003-3BD36 MTSP-1P5-3BD12 MTSN-003-3BD18-18 MTSN-003-3BD36-18 MTSP-003-3BD18-18 MTSP-003-3BD36-18	132196.00 132198.00		Y1999 Y286A Y541A(-A772)	-	GT0010A GT1010A	PDF
W184T		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	132197.00 132200.00 132201.00 132440.00		Y1372 Y540(-A772) Y543A(-A772) SY067	-	GT0013A GT1013A GT1210A GT1212A GT1213A	PDF
W213T		213T/ TC	13	MTCP2-003-3BD12 MTCP2-7P5-3BD18(C) MTCP2-7P5-3BD36 MTSP-003-3BD12 MTSP-7P5-3BD18	140819.00 140822.00 141266.00		Y994 Y542(-A772) Y545(-A772) SY068	-	GT0016A GT1016A GT1216A	PDF
W215T		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) SY069	-	GT0019A GT1019A GT1218A GT1219A	PDF
W254T		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		256T/ TC	19	MTCP2-010-3BD12 MTCP2-020-3BD18(C) MTCP2-020-3BD36 MTSP-020-3BD18	-		Y548(-A772)	-	GT0062 GT1025A GT1225A	PDF
W284T		284T/ TC	20	MTCP2-015-3BD12 MTCP2-025-3BD18(C)	-		-	-	GT0065 GT1028A	PDF
W286T		286T/ TC	21	MTCP2-020-3BD12 MTCP2-030-3BD18(C)	-		-	-	GT0067 GT1031A	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®	WEG (Part number ending in...)	Marathon			
					WashGuard®		microMAX, Max+, Black Max, Blue Max, SyMAX	XRI GP & NEMA Premium, Jet Pump	Globetrotter	
W324T		324T/ TC	30	MTCP2-040-3BD18(C)	–		Y571(-A774) Y513(-A775)	–	GT0073 GT1034A	PDF
W326T		326T/ TC	31	MTCP2-050-3BD18(C)	–		Y572(-A774) Y514(-A775)	–	GT0077 GT1037A	PDF
W364T		364T/ TC	43	MTCP2-060-3BD18(C)	–		Y573(-A774) Y515(-A775)	–	GT1040A	PDF
W365T		365T/ TC	43	MTCP2-075-3BD18(C)	–		Y574(-A774) Y516(-A775)	–	GT1043A	PDF
W404T		404T/ TC	58	–	–		–	–	–	PDF
W405T		405T/ TC	60	MTCP2-100-3BD18(C)	–		Y575(-A774) Y517(-A775)	–	GT1046A	PDF
W444T		444T	63	MTCP2-125-3BD18	–		–	–	–	PDF
W445T		445T	65	MTCP2-150-3BD18	–		–	–	–	PDF
W447T		447T	89	MTCP2-200-3BD18	–		–	–	–	PDF
W449T		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
<u>MTA-BASE-W56</u>		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 114317.00 191475.00 191477.00 191479.00	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 D316
<u>MTA-BASE-W143T</u>		143T / TC	4.6	–	–	C188A	–	–	–
<u>MTA-BASE-W145T</u>		145TC / TC	5.1	–	–	I127	–	–	–
<u>MTA-BASE-W182T</u>		182T / TC	9.2	–	–	–	–	–	–
<u>MTA-BASE-W184T</u>		184 / TC	10	MTF-00x-1C18	–	–	–	–	–
<u>MTA-BASE-W213T</u>		213T / TC	13	–	–	–	–	–	–
<u>MTA-BASE-W215T</u>		215T T TC	15	–	–	–	–	–	–

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