marathon® Motors

microMAX™ AC Inverter-Duty Motors

1000:1 Constant Torque (TENV), 20:1 Constant Torque (TEFC)

Features

- Constant torque operation from 0 to base speed (TENV ratings)
- Constant torque operation from 1/20 speed to base speed (TEFC ratings)
- Constant horsepower to twice base speed (RPM)
- Class H insulation with CR200 (corona-resistant) magnet wire
- Continuous duty at 40°C ambient
- C-Face with rigid base, except C-Face with removable rigid base as noted
- Service Factor: 1.0
- Utilizes double shielded ball bearings
- Exxon Polyrex® EM bearing grease
- Eliminates brush and commutator maintenance
- Electrically reversible
- UL Recognized, CSA Certified, and CE Mark
- Three year warranty (through Marathon Electric)

Applications

- Replaces 90 volt and 180 volt PMDC motors (when used with AC variable frequency drives)
- Typical uses include: machine tools, conveyors, packaging machines, batching machines, printing equipment, pumps and fans.

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.

Motor Specifications – microMAX

Part Number *	Price	HP	Base RPM	Volts	Encl.	NEMA Frame	Model No.	F.L. Amps	Weight (lb) *	Footnotes	Drawing Links
Y1999 †	$1,105.00	3	1800	230/460	TEFC	182TC	182THFW7729AA	8.4 / 4.2	64	6	PDF
Y1372 †	$1,257.00	5				184TC	184THFW7726AA	13.0 / 6.5	92	6	PDF
Y994	$1,606.00	7-1/2				213TC	213THFW7726	21.4 / 10.7	125	6	PDF
Y996	$2,019.00	10				215TC	215THFW7726	27.6 / 13.8	135	6	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.

† Detailed information on the previous versions of these motors (Y999 & Y372) can be found at www.AutomationDirect.com/Retired-Products.

Footnotes: Q = "Quick Connect" terminal board (1/4-in female spade lug) 6 = Bolt-on, removable base for footless mounting option

Note: 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.

Performance Data (460 Volt except as indicated) – microMAX

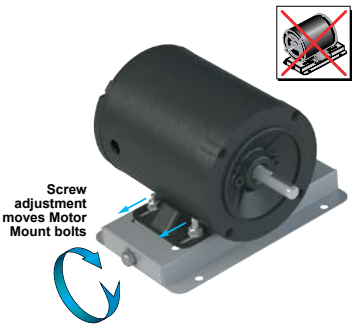
Part Number	HP	NEMA Design	F.L. RPM	Min. RPM	F.L. AMPS @460V	N.L. AMPS @460V	F.L. Torque (lb·ft)	B.D. Torque (lb·ft)	Max. CHP RPM*	Max. Safe RPM	F.L. Effic.	F.L. Power Factor	Rotor Inertia (lb·ft2)
Y1999	3	A	1765	90	4.2	2.2	8.9	33.8	3530	4000	87.5	76.4	0.38
Y1372	5		1760	90	6.5	2.8	15	48.6	3520	4000	87.5	81.6	0.357
Y994	7-1/2		1770	90	10.7	6.2	22.3	80.0	3565	4000	89.5	72.5	0.75
Y996	10	B	1770	90	13.8	7.8	30.0	110	3570	4000	91.0	74.0	1.00

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

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	–	–	–	–	–	–

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