

# Blue Chip XRI<sup>®</sup> – Ultra High Efficiency Motors

\*\*\*\* 230/460V and 575V Motors Available \*\*\*\*



**marathon**<sup>®</sup>  
Motors

## Features

- Meets NEMA premium efficiencies
- Inverter duty
- 10:1 variable torque, 20:1 constant torque on VFD with 1.0 service factor
- Class F insulation
- Continuous duty at 40° C ambient
- Cast iron frame construction with rigid base mounting
- F1 standard conduit box location, non-reversible
- 1.15 service factor
- Shaft slinger
- Utilizes double shielded ball bearings
- Exxon Polyrex<sup>®</sup> EM bearing grease
- Electrically reversible
- UL Recognized, CSA Certified, and CE Mark
- Three year warranty (through Marathon Electric)

## Applications

Typical uses include material handling, machine tools, fans, conveyors, cranes and hoists, metal processing, test stands, pumps, compressors, textile processing, and other industrial machinery installed in dusty or dirty environments.

### 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 web site for current shipping method constraints by part number.

### 230/460V Motor Specifications

Part Number *	Price	HP	Base RPM	Volts	Enclosure	NEMA Frame	Model No.	N.P. F.L. Amps	Weight (lb) *
E205	\$1,167.00	15	1800	230/460	TEFC	254T	254TTFNA6026	37.5 / 18.8	322
E206	\$1,457.00	20	1800	230/460	TEFC	256T	256TTFNA6026	48 / 24.1	368
E207	\$1,735.00	25	1800	230/460	TEFC	284T	284TTFNA6026	62 / 31	495
E208	\$2,023.00	30	1800	230/460	TEFC	286T	286TTFNA6026	73 / 36.5	423
E209	\$2,643.00	40	1800	230/460	TEFC	324T	324TTFNA6026	95 / 47.5	675
E210	\$3,250.00	50	1800	230/460	TEFC	326T	326TTFNA6026	120 / 60	745
E211	\$4,650.00	60	1800	230/460	TEFC	364T	364TTFNA6036	138 / 69	920
E212	\$5,890.00	75	1800	230/460	TEFC	365T	365TTFNA6036	172 / 86	1125
E213	\$7,275.00	100	1800	230/460	TEFC	405T	405TTFNA6036	226 / 113	1400

\* Refer to the Motor Shipping Schedule table for shipping information.

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](http://www.automationdirect.com).

### 575V Motor Specifications

Part Number *	Price	HP	Base RPM	Volts	Enclosure	NEMA Frame	Model No.	N.P. F.L. Amps	Weight (lb) *
E307	\$1,150.00	15	1800	575	TEFC	254T	254TTFNA6030	15.0	326
E308	\$1,435.00	20	1800	575	TEFC	256T	256TTFNA6030	19.3	368
E309	\$1,710.00	25	1800	575	TEFC	284T	284TTFNA6030	24.8	565
E310	\$1,985.00	30	1800	575	TEFC	286T	286TTFNA6030	29.2	514
E311	\$2,640.00	40	1800	575	TEFC	324T	324TTFNA6030	38.8	675
E312	\$3,500.00	50	1800	575	TEFC	326T	326TTFNA6030	48.0	640
E313	\$4,645.00	60	1800	575	TEFC	364T	364TTFNA6040	55.2	1025
E315	\$5,890.00	75	1800	575	TEFC	365T	365TTFNA6040	68.8	1125
E314	\$7,275.00	100	1800	575	TEFC	405T	405TTFNA6040	90.4	1400

\* Refer to the Motor Shipping Schedule table for shipping information.

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## Performance Data

Motor Performance Data (460 Volt)														
Part Number	HP	F.L. rpm	F.L. Amps @460V	N.L. Amps @460V	F.L. Torque (lb-ft)	B.D. Torque (lb-ft)	F.L. Effic. (%)	F.L. Power Factor	Rotor Inertia (lb-ft <sup>2</sup> )	Ohms/Ph - Equiv. Wye Circuit (460 VAC) (at rated operating temp. in 40° C ambient)				
										R1	R2	X1	X2	XM
E205	15	1775	19	8	44.5	126.4	92.4	81	2.4	0.376	0.238	1.351	1.777	32.508
E206	20	1775	24	8	59.5	144.6	93.0	84	3.2	0.267	0.207	0.990	1.491	28.4
E207	25	1775	31	14	74	215	93.6	81	4.2	0.150	0.154	0.852	1.066	20.064
E208	30	1773	36	15	89	245	94.1	82	4.5	0.125	0.136	0.724	0.937	17.785
E209	40	1780	48	18	118	304	94.1	83	8.5	0.082	0.066	0.597	0.798	13.514
E210	50	1775	60	24	148	340	94.5	82	9.2	0.068	0.062	0.483	0.648	11.068
E211	60	1780	69	22	177	449	95.0	86	16	0.065	0.047	0.412	0.473	11.447
E212	75	1780	86	28	221	574	95.4	86	18	0.048	0.037	0.319	0.386	9.238
E213	100	1780	113	28	295	773	95.4	87	28	0.034	0.028	0.307	0.287	8.920

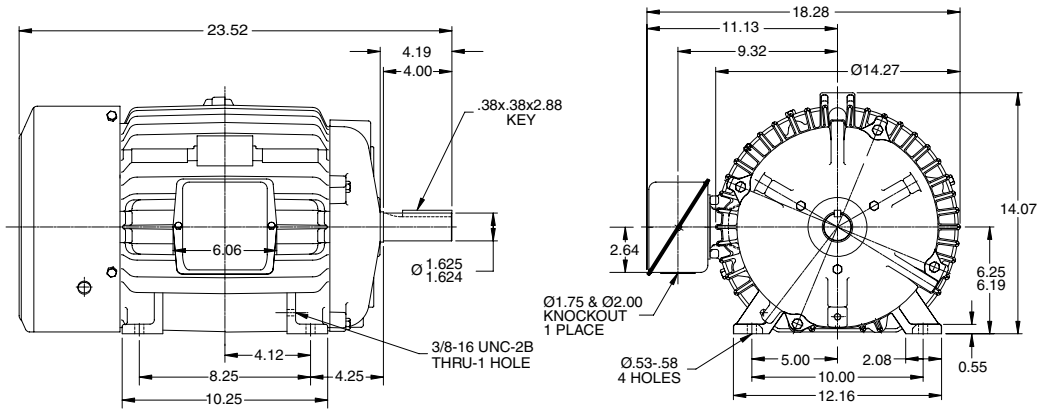
Motor Performance Data (575 Volt)														
Part Number	HP	F.L. rpm	F.L. Amps @460V	N.L. Amps @460V	F.L. Torque (lb-ft)	B.D. Torque (lb-ft)	F.L. Effic. (%)	F.L. Power Factor	Rotor Inertia (lb-ft <sup>2</sup> )	Ohms/Ph - Equiv. Wye Circuit (460 VAC) (at rated operating temp. in 40° C ambient)				
										R1	R2	X1	X2	XM
E307	15	1775	15.2	6.4	44.4	126.4	92.4	81	2.1	0.376	0.238	1.351	1.777	32.508
E308	20	1775	19.2	6.4	59.2	144.6	93.0	84	3.0	0.267	0.207	0.990	1.491	28.400
E309	25	1775	24.8	11.2	74	215	93.6	81	4.2	0.150	0.154	0.852	1.066	20.064
E310	30	1773	28.8	12.0	89	245	94.1	82	4.6	0.125	0.136	0.724	0.937	17.785
E311	40	1775	38.4	13.6	118	304	94.1	82	8.2	0.091	0.072	0.627	0.830	14.747
E312	50	1775	48.0	19.2	148	340	94.5	82	9.5	0.068	0.062	0.483	0.648	11.068
E313	60	1780	55.2	17.6	177	449	95.0	86	16.0	0.065	0.047	0.412	0.473	11.447
E315	75	1780	68.8	22.4	221	574	95.4	86	18.5	0.058	0.037	0.320	0.386	9.242
E314	100	1780	90.4	22.4	295	773	95.4	87	27.5	0.034	0.028	0.307	0.287	8.920

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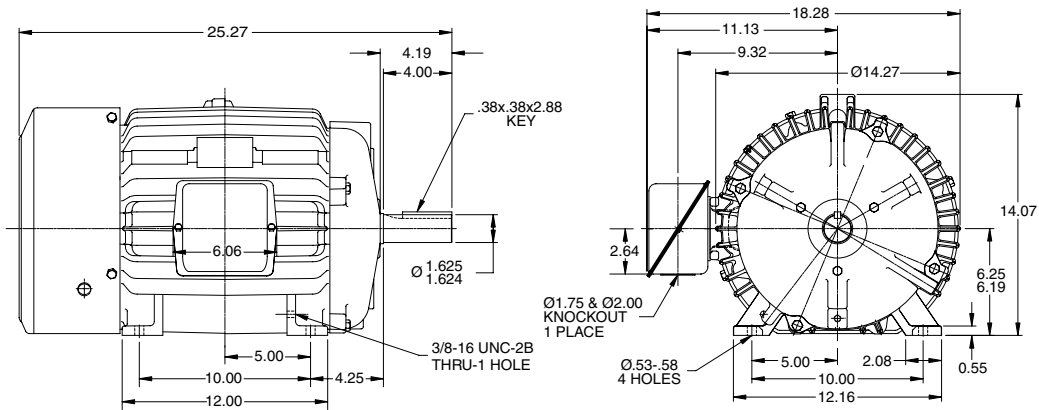
Dimensions (units = inches)

See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings.

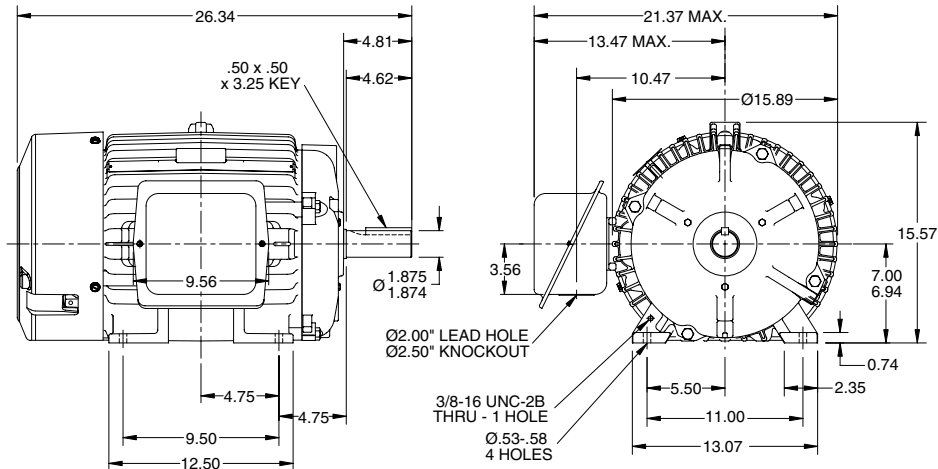
## 254T frame - part number E205 & E307



## 256T frame - part number E206 & E308



## 284T frame - part number E207 & E309

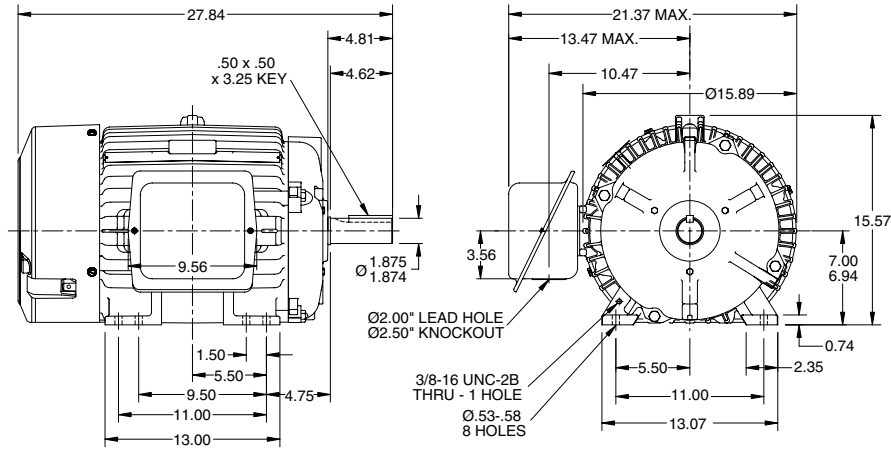


# Blue Chip XRI<sup>®</sup> – Ultra High Efficiency Motors

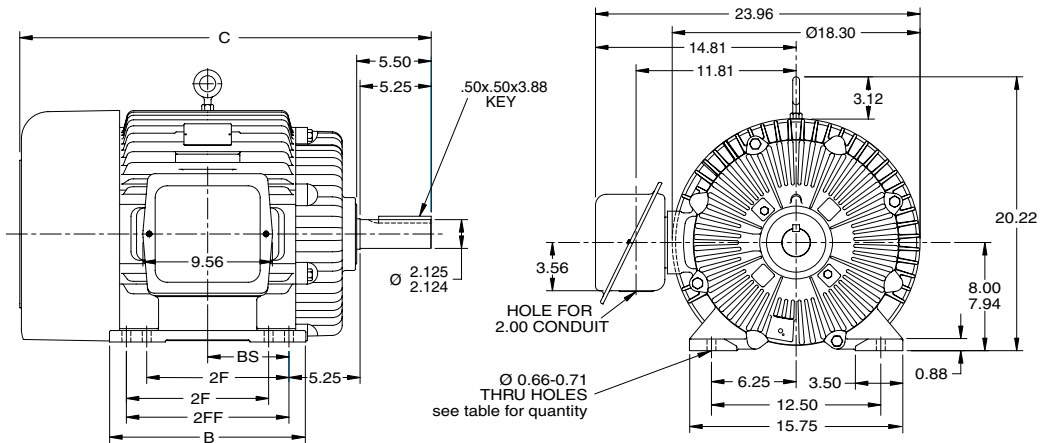
## Dimensions (units = inches)

See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings.

### 286T frame - part number E208 & E310

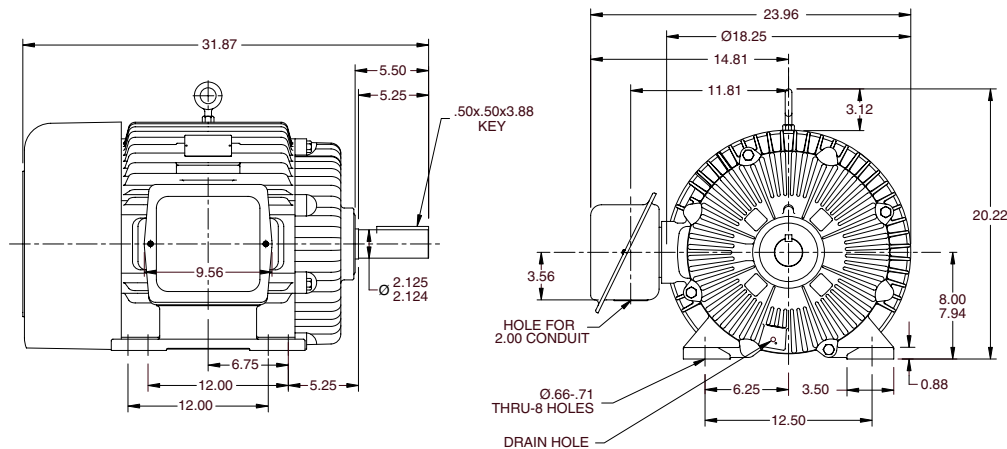


### 324T frame - part number E209 & E311



MOTOR	B	C	2F	2FF	BS	FOOT HOLE QTY
E209	14.50	30.37	10.50	12.00	6.00	8
E311	13.00	28.87	N/A	10.50	5.25	4

### 326T frame - part number E210 & E312

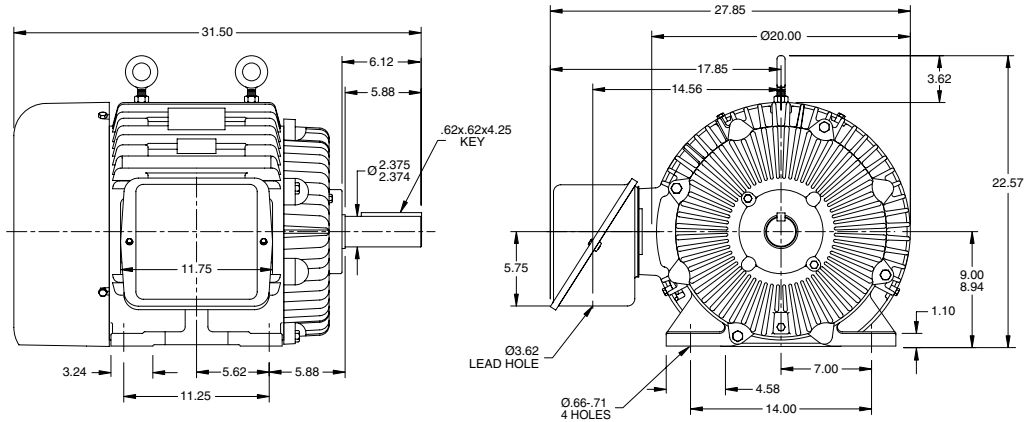


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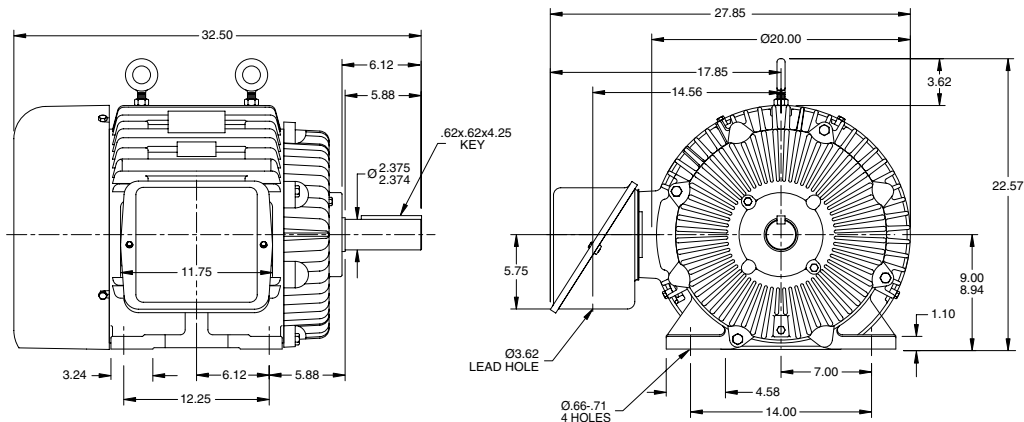
Dimensions (units = inches)

See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings.

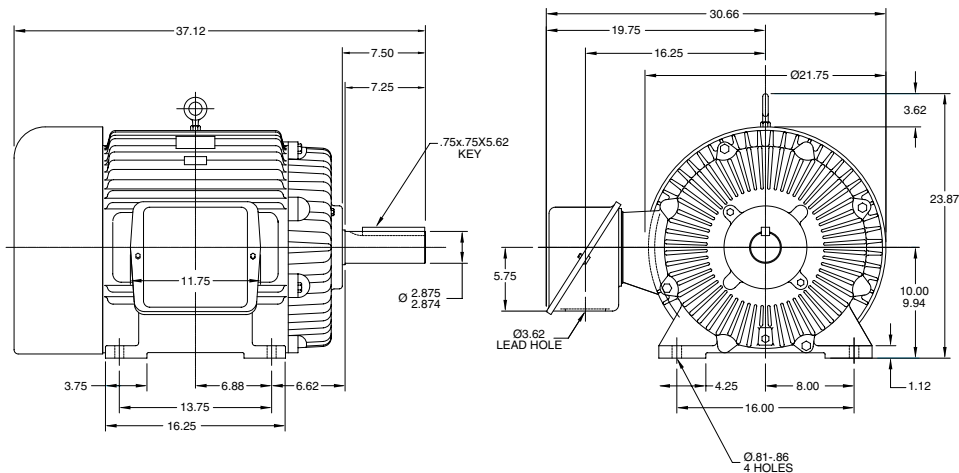
## 364T frame - part number E211 & E313



## 365T frame - part number E212 & E315



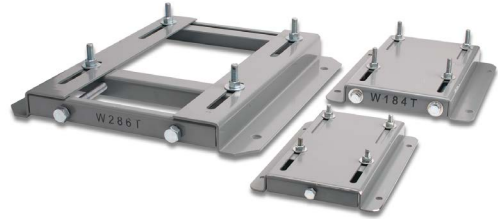
## 405T frame - part number E213 & E314



# 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

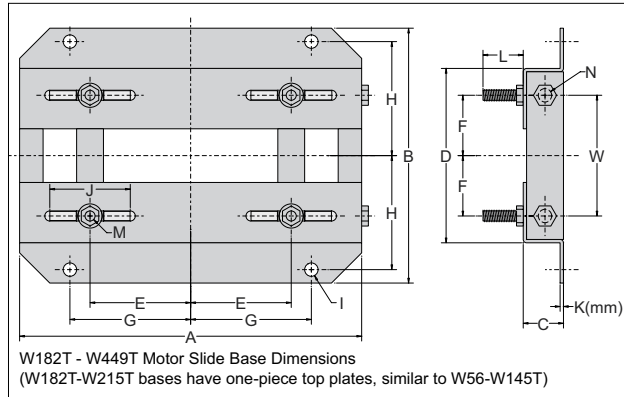
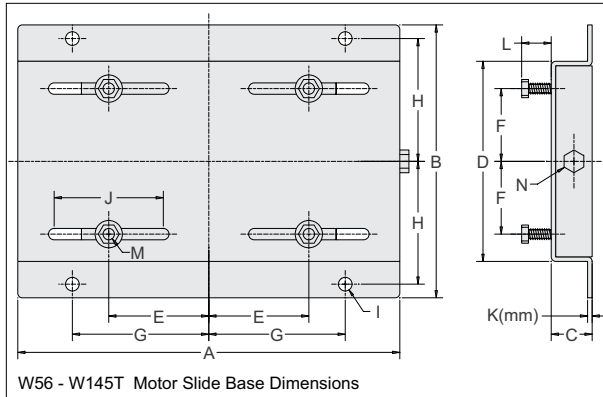


STABLE Motor Slide Bases												
Part Number	Price	Fits Frame Type	Product Weight (lb)	Fits Motor								
				IronHorse	Marathon					NEMA Premium XRI	Blue Chip XRI 230/460V	Blue Chip XRI 575V
					micro-MAX	MAX+	Black Max 230/460V	Black Max 575V	Blue Max			
<b>MTA-BASE-W56*</b>	\$9.75	56*	2.8	MTPM-P3x-1x18 MTPM-P5x-1x18 MTPM-P7x-1x18 MTPM-0xx-1x18 MTPM-1xx-1x18 MTR(2)(P)-xxx-xxxx*	Y500 Y502 Y360 Y362 Y364	Y280 Y281 Y282	Y592(-A772) Y534(-A772) Y535(-A772)	Y555(-A772) Y556(-A772)	-	E2000	-	-
<b>MTA-BASE-W143T</b>	\$18.00	143T/TC	4.6	MTC(P)-001-3BD18(C)(CK) MTC(P)-1P5-3BD36	-	-	Y536(-A772)	-	-	E2001A E2003	-	-
<b>MTA-BASE-W145T</b>	\$18.00	145T/TC	5.1	MTC(P)-001-3BD12 MTC(P)-1P5-3BD18(C)(CK) MTC(P)-002-3BD18(C)(CK) MTC(P)-002-3BD36	Y366 Y368	Y284 Y285	Y537(-A772) Y538(-A772) Y551(-A772)	Y557(-A772)	-	E2002 E2004A E2006 E2007A	-	-
<b>MTA-BASE-W182T</b>	\$24.00	182T/TC	9.2	MTC(P)-1P5-3BD12 MTC(P)-003-3BD18(C)(CK) MTC(P)-003-3BD36 MTF-002-1C18-182	Y1999	Y286A	Y541A(-A772)	Y558A(-A772)	-	E2005 E2009 E2010	-	-
<b>MTA-BASE-W184T</b>	\$24.00	184T/TC	10	MTC(P)-002-3BD12 MTC(P)-005-3BD18(C)(CK) MTC(P)-005-3BD36 MTF-00x-1C18	Y1372	Y287A	Y540(-A772) Y543A(-A772)	Y559A(-A772)	-	E2008 E2012 E2013	-	-
<b>MTA-BASE-W213T</b>	\$35.00	213T/TC	13	MTC(P)-003-3BD12 MTC(P)-7P5-3BD18(C)(CK) MTC(P)-7P5-3BD36	Y994	-	Y542(-A772) Y545(-A772)	Y560(-A772)	-	E2011 E2015 E2016A	-	-
<b>MTA-BASE-W215T</b>	\$35.00	215T/TC	15	MTC(P)-005-3BD12 MTC(P)-010-3BD18(C)(CK) MTC(P)-010-3BD36	Y996	-	Y544(-A772) Y547(-A772)	Y561(-A772)	-	E2014 E2018 E2019A	-	-
<b>MTA-BASE-W254T</b>	\$49.00	254T/TC	18	MTC(P)-7P5-3BD12 MTC(P)-015-3BD18(C)(CK) MTCP-015-3BD36	-	-	Y546(-A772) Y549(-A772)	Y562(-A772)	-	-	E205	E307
<b>MTA-BASE-W256T</b>	\$49.00	256T/TC	19	MTC(P)-010-3BD12 MTC(P)-020-3BD18(C)(CK) MTCP-20-3BD36	-	-	Y548(-A772) Y552(-A772)	Y563(-A772)	-	-	E206	E308
<b>MTA-BASE-W284T</b>	\$54.00	284T/TC	20	MTCP-015-3BD12 MTC(P)-025-3BD18(C)(CK)	-	-	Y553(-A772)	-	-	-	E207	E309
<b>MTA-BASE-W286T</b>	\$54.00	286T/TC	21	MTCP-20-3BD12 MTC(P)-030-3BD18(C)(CK)	-	-	Y393(-A772)	-	-	-	E208	E310
<b>MTA-BASE-W324T</b>	\$81.00	324T/TC	30	MTC(P)-040-3BD18(C)(CK)	-	-	-	-	Y571(-A774) Y513(-A775)	-	E209	E311
<b>MTA-BASE-W326T</b>	\$81.00	326T/TC	31	MTC(P)-050-3BD18(C)(CK)	-	-	-	-	Y572(-A774) Y514(-A775)	-	E210	E312
<b>MTA-BASE-W364T</b>	\$110.00	364T/TC	43	MTC(P)-060-3BD18(C)(CK)	-	-	-	-	Y573(-A774) Y515(-A775)	-	E211	E313
<b>MTA-BASE-W365T</b>	\$110.00	365T/TC	43	MTC(P)-075-3BD18(C)(CK)	-	-	-	-	Y574(-A774) Y516(-A775)	-	E212	E315
<b>MTA-BASE-W404T</b>	\$136.00	404T/TC	58	-	-	-	-	-	-	-	-	-
<b>MTA-BASE-W405T</b>	\$136.00	405T/TC	60	MTC(P)-100-3BD18(C)(CK)	-	-	-	-	Y575(-A774) Y517(-A775)	-	E213	E314
<b>MTA-BASE-W444T</b>	\$157.00	444T	63	MTC(P)-125-3BD18	-	-	-	-	-	-	-	-
<b>MTA-BASE-W445T</b>	\$157.00	445T	65	MTC(P)-150-3BD18	-	-	-	-	-	-	-	-
<b>MTA-BASE-W447T</b>	\$207.00	447T	89	MTC(P)-200-3BD18	-	-	-	-	-	-	-	-
<b>MTA-BASE-W449T</b>	\$207.00	449T	94	MTC-250-3D18 MTC-300-3D18	-	-	-	-	-	-	-	-

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

# STABLE Motor Slide Bases

## Dimensions – Mounting Slide Bases for NEMA Motors



Dimensions [inches, except as noted] - STABLE Motor Slide Bases															
MTA-BASE-Wxxxx	A	B	C	D	E	F	G	H	I	J	K(mm)	L	M	N	W
<b>56</b>	10-5/8	6-1/2	1-1/8	4-1/2	2-7/16	1-1/2	3-13/16	2-7/8	3/8	3	2 mm	7/8	5/16 x 1	3/8 x 4	n/a
<b>143T</b>	10-1/2	7-1/2	1-1/8	5-1/2	2-3/4	2	3-3/4	3-3/8	3/8	3	3 mm	13/16	5/16 x 1	3/8 x 4	n/a
<b>145T</b>	10-1/2	8-1/2	1-1/8	6-1/2	2-3/4	2-1/2	3-3/4	3-7/8	3/8	3	3 mm	13/16	5/16 x 1	3/8 x 4	n/a
<b>182T</b>	12-3/4	9-1/2	1-1/2	6-1/2	3-3/4	2-1/4	4-1/2	4-1/4	1/2	3	3.5 mm	1-1/2	3/8 x 1-3/4	1/2 x 6	4-1/2
<b>184T</b>	12-3/4	10-1/2	1-1/2	7-1/2	3-3/4	2-3/4	4-1/2	4-3/4	1/2	3	3.5 mm	1-1/2	3/8 x 1-3/4	1/2 x 6	5-1/2
<b>213T</b>	15	11	1-3/4	7-1/2	4-1/4	2-3/4	5-1/4	4-3/4	1/2	3-1/2	3.8 mm	1-1/2	3/8 x 1-3/4	1/2 x 6	5-1/2
<b>215T</b>	15	12-1/2	1-3/4	9	4-1/4	3-1/2	5-1/4	5-1/2	1/2	3-1/2	3.8 mm	1-1/2	3/8 x 1-3/4	1/2 x 6	7
<b>254T</b>	17-3/4	15-1/8	2	10-3/4	5	4-1/8	6-1/4	6-5/8	5/8	4	4.6 mm	1-7/16	1/2 x 1-3/4	5/8 x 6	5-5/16
<b>256T</b>	17-3/4	16-7/8	2	12-1/2	5	5	6-1/4	7-1/2	5/8	4	4.6 mm	1-7/16	1/2 x 1-3/4	5/8 x 6	7
<b>284T</b>	19-3/4	16-7/8	2	12-1/2	5-1/2	4-3/4	7	7-1/2	5/8	4-1/2	4.6 mm	1-11/16	1/2 x 2	5/8 x 6	7
<b>286T</b>	19-3/4	18-3/8	2	14	5-1/2	5-1/2	7	8-1/4	5/8	4-1/2	4.6 mm	1-11/16	1/2 x 2	5/8 x 6	8
<b>324T</b>	22-3/4	19-1/4	2-1/2	14	6-1/4	5-1/4	8	8-1/2	3/4	5-1/4	4.6 mm	2-3/16	5/8 x 2-1/2	3/4 x 9	7
<b>326T</b>	22-3/4	20-3/4	2-1/2	15-1/2	6-1/4	6	8	9-1/4	3/4	5-1/4	4.6 mm	2-3/16	5/8 x 2-1/2	3/4 x 9	8-1/2
<b>364T</b>	25-1/2	20-1/2	2-1/2	15-1/2	7	5-5/8	9	9-1/8	3/4	6	5.8 mm	2-1/16	5/8 x 2-1/2	3/4 x 9	7-3/4
<b>365T</b>	25-1/2	21-1/2	2-1/2	16-1/2	7	6-1/8	9	9-5/8	3/4	6	5.8 mm	2-1/16	5/8 x 2-1/2	3/4 x 9	8-3/4
<b>404T</b>	28-3/4	22-3/8	3	16-1/2	8	6-1/8	10	9-7/8	7/8	7	5.8 mm	2-1/2	3/4 x 3	3/4 x 11	8-3/4
<b>405T</b>	28-3/4	23-7/8	3	18	8	6-7/8	10	10-5/8	7/8	7	5.8 mm	2-1/2	3/4 x 3	3/4 x 11	10-1/4
<b>444T</b>	31-1/4	24-5/8	3	19-1/4	9	7-1/4	11	11	7/8	7-1/2	5.8 mm	2-1/2	3/4 x 3	3/4 x 11	11
<b>445T</b>	31-1/4	26-5/8	3	21-1/4	9	8-1/4	11	12	7/8	7-1/2	5.8 mm	2-1/2	3/4 x 3	3/4 x 11	13
<b>447T</b>	31-1/4	30-1/8	3	24-3/4	9	10	11	13-3/4	7/8	7-1/2	8 mm	3	3/4 x 3-1/2	3/4 x 11	16-1/2
<b>449T</b>	31-1/4	35-1/8	3	29-3/4	9	12-1/2	11	16-1/4	7/8	7-1/2	8 mm	3	3/4 x 3-1/2	3/4 x 11	21-1/2