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ELECTRICAL PRODUCTS

STANDARD STEEL FRAME AND CAST IRON MOTORS

Our standard Rolled Steel and Cast Iron Frame motors provide superior quality and unique designs features compared to competing brands in the marketplace. We provide a full product offering in Cast Iron construction from 56 through 444T Frame designs to meet the harsh application requirements found in today's industry.

Our standard product provides the following outstanding features:

- 3 Phase, 60 Hz., 230/460 Volt or 575 Volt
- Stainless Steel Nameplate
- Cast Iron End Brackets on Rolled Steel or Cast Iron Frames
- Diagonally Split Conduit Box
- Inverter Rated per NEMA MG1-Part 31.4.4.2
- CE, CSA listed and energy efficiency verified to US and Canadian Standards, meets IE3 efficiency

STERLI-SEAL® SMOOTH BODY WASHDOWN STEEL FRAME MOTORS

Our Sterli-Seal Washdown products are designed to withstand the challenges of today's Process Industry where high-pressure washing is required for sanitary requirements.

This product provides a Smooth Rolled Steel Constructed Frame to eliminate buildup of material and to allow ease in cleanup in a sanitary application.

Sterli-Seal Smooth Body Washdown Motors offer the following outstanding features:

- 3 Phase, 60 Hz., 208-230/460 Volt or 575 Volt
- Stainless Steel Etched Nameplate
- 50 Hz. Ratings available refer to factory for details
- Class F Insulation with a 1.15 Service Factor
- Inverter Rated per NEMA MG1-Part 31.4.4.2
- Cast Iron End Brackets with drain holes in four quadrants
- Smooth Body Steel Frame
- Diagonally Split and Gasketed Stamped Steel Conduit Box Rotatable in 90 degree increments
- CE, CSA listed and energy efficiency verified to US and Canadian Standards, meets IE3 efficiency
- Pre-lubricated (Sealed) oversized bearings
- Internally locked drive end bearing
- Lip seals on drive end and opposite drive end brackets
- Base mounted units designed with six mounting holes to provide flexibility for mounting of NEMA 56, 140, 180 and 210 frame sizes

STERLI-SEAL® ALL STAINLESS STEEL INVERTER RATED MOTORS

Our Sterli-Seal® Stainless Steel motors are designed to provide superior performance in sanitary applications.

Our STANDARD product provides the following outstanding features:

- 3 Phase, 60 Hz., 208-230/460 Volt or 575 Volt
- Etched Nameplate
- 50 Hz. Ratings available refer to factory for details
- Class F Insulation with a 1.15 Service Factor
- Inverter Rated per NEMA MG1-Part 31.4.4.2
- Cast 304 Stainless Steel End Brackets with drain holes in four quadrants
- 304 Stainless Steel Frame
- Diagonally Split and Gasketed 304 Stainless Steel Conduit Box Rotatable in 90 degree increments
- CE, CSA listed and energy efficiency verified to US and Canadian Standards, meets IE3 efficiency
- Pre-lubricated (Sealed) oversized bearings
- Internally locked drive end bearing
- Lip seals on drive end and opposite drive end brackets
- Base mounted units designed with six mounting holes to provide flexibility for mounting of NEMA 56, 140, 180 and 210 frame sizes







Sterling Electric produces a full range of electric motors to meet the most demanding applications found in today's industry. From standard duty applications to the harsh environments of the chemical industry or the washdown requirements of the food processing industry, Sterling Electric has the solution.

This Stock Product Catalog provides a full selection of motors that meet the PREMIUM EFFICIENCY Standards as outlined in the Department of Energy Title 10 Part 431 Subpart B

For further information regarding Current Efficiency Regulations please refer to Title 10 of the Code of Federal Regulations Part 431 (10 CFR Part 431), which is available at www.gpoaccess.gov

Premium Efficient motors continue to improve our dependence on oil and other natural resources and allows us energy savings in the future. As we move forward, additional changes will occur with motors that will be required to meet New Department of Energy regulations. Sterling Electric will continue to improve our products to meet or exceed the energy laws and insure our customers the highest quality and energy cost savings in the years ahead.

NEW in this Publication

Our Unique Universal Picker Motor that provides both NEMA and IEC mountings by use of add on Kits.





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Universal Picker Motors

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Complete Product Specifications with Data Sheet, 3D (Step File), AutoCad or PDF File can be obtained from www.sterlingelectric.com

PRODUCT SPECIFICATIONS

FRACTIONAL HORSEPOWER - FRAME 56



INTEGRAL HORSEPOWER - FRAMES 143T THRU 405T

Certifications:	All Styles	CE, CSA, CSE, NRTL/C UL Recognized EEV-CC048A
Insulation:	TEFC Style (Cast Iron) Steel Frame Smooth Body	- Class F - Class F (inverter Rated per NEMA MG1 Part 31.4.4.2
Service Factor:	All Styles	- 1.15
Main Frame:	TEFC Style <i>Sterli-Seal</i> [®] (Washdown) Sterli-Seal [®] Stainless Style	 Steel Frame (smooth body) 56-215T Frame Cast Iron (Ribbed Body) 254T & Larger Steel Frame (smooth body) 56-215T Frame Cast Iron (Ribbed Body) 254T & Larger 304 Stainless steel (smooth body)
End Brackets:	TEFC Style Sterli-Seal[®] (Washdown) Sterli-Seal [®] Stainless Style	 Cast iron Cast iron with double lip seals on stock motors Modified motors supplied with v-ring slinger 304 Stainless steel
Conduit Box:	TEFC Style Sterli-Seal[®] (Washdown)	- Stamped steel as standard. - Stamped Steel (Smooth Body) - Cast Iron (Ribbed body) 254T Frame & Larger
	Sterli-Seal [®] Stainless Style	- 304 Stainless steel
Fan Guard:	TEFC Style	- Stamped steel as standard.
	Sterli-Seal [®] (Washdown)	- Stamped Steel
	Sterli-Seal [®] Stainless Style	- 304 Stainless steel
Shaft:	TEFC Style Sterli-Seal[®] (Washdown)	 Keyed carbon steel Keyed (one piece) 416 stainless steel on 3600 Rpm stock motors or 304 on 1800 Rpm and slower. Modified motors supplied with carbon steel
	Sterli-Seal [®] Stainless Style	- 304 Stainless steel
Bearings:	TEFC Style	 Frames 56 through 286T - 3600, 1800, 1200 and 900 RPM motors have oversized Pre-lubricated ball bearings Frames 324T and larger have oversized regreasable ball bearings with alemite grease fittings, as standard
	Sterli-Seal[®] (Washdown) Style Sterli-Seal [®] Stainless Style	 Oversized sealed ball bearings Oversized sealed ball bearings
Connections:	All Styles	-All Steel Frames are 9 leads suitable for Across-the-line starting. - Frames 254T and larger Cast Iron have 12 leads, suitable for across-the-line, Y-Delta and part winding starting methods. Reference connection diagrams - pages 29 & 30

FOOT MOUNTED

3 Phase, 60 Hz, 230/460 Volt Totally Enclosed Fan Cooled Enclosure

HP	RPM	Frame	F/L	Nominal	Model
			Amps	Efficiency	Number
.33	1800	56	1.36/.68	70.0 %	NBY034FFA 👌
	3600	56	1.50/.75	73.0 %	NBY052FFA 👌
.50	1800	56	1.90/.95	74.5 %	NBY054FFA 👌
	3600	56	2.50/1.25	68.0 %	NBY072FFA 👌
.75	1800	56	2.70/1.35	77.0 %	NBY074FFA 👌
	3600	56	3.00/1.50	77.0 %	NP0012FFA
1.0	1800	56	2.80/1.40	85.5 %	NP0014FFA
	1800	143T	2.80/1.40	85.5 %	DP0014FFA
	1200	145T	3.40/1.70	82.5 %	DP0016FFA
	3600	56	3.80/1.90	84.0 %	NPY152FFA
HP .33 .50 .75 1.0 1.5 2.0 3.0 3.0 5.0 7.5 10 15 20 25 30 40 50 60 75 100	3600	143T	3.80/1.90	84.0 %	DPY152FFA
	1800	56	4.20/2.10	86.5 %	NPY154FFA
	1800	145T	4.20/2.10	86.5 %	DPY154FFA
	1200	182T	5.10/2.55	87.5 %	DPY156FFA
	3600	56	5.20/2.60	85.5 %	NP0022FFA
	3600	145T	5.20/2.60	85.5 %	DP0022FFA
2.0	1800	56	5.40/2.70	86.5 %	NP0024FFA
	1800	145T	5.40/2.70	86.5 %	DP0024FFA
	1200	184T	6.60/3.30	88.5 %	DP0026FFA
	3600	182T	7.00/3.50	86.5 %	DP0032FFA
3.0	1800	182T	8.00/4.00	89.5 %	DP0034FFA
	1200	213T	9.20/4.60	89.5 %	DP0036FFA
	3600	184T	11.4/5.7	88.5 %	DP0052FFA
5.0	1800	184T	12.8/6.4	89.5 %	DP0054FFA
	1200	215T	14.8/7.4	89.5 %	DP0056FFA
	3600	213T	17.2/8.6	89.5 %	DPY752FFA
7.5	1800	213T	18.6/9.3	91.7 %	DPY754FFA
	3600	215T	22.4/11.2	90.2 %	DP0102FFA
10	1800	215T	25.0/12.5	91.7 %	NBY052FFA ◊ NBY054FFA ◊ NBY072FFA ◊ NBY074FFA ◊ NP0012FFA ◊ NP0014FFA ◊ DP0014FFA ◊ DP0014FFA ◊ DP014FFA ◊ DP014FFA ○ DP014FFA ○ DPY152FFA ○ DPY154FFA ○ DPY154FFA ○ DPY154FFA ○ DP0122FFA ○ NP0024FFA ○ DP0032FFA ○ DP0034FFA ○ DP0102FFA ○ DP0102FFA ○ DP0104FFA ○ TH0204FFA ○ TH0304FFA<
	3600	254T	34.8/17.4	91.0 %	TH0152FFA
15	1800	254T	35.8/17.9	93.0 %	TH0154FFA
	3600	256T	46.4/23.2	91.0 %	TH0202FFA
20	1800	256T	47.4/23.7	93.0 %	TH0204FFA
	3600	284TS	56.8/28.4	91.7 %	TH0252FFA
25	1800	284T	47.4/23.7	93.6 %	TH0254FFA
	3600	286TS	68.2/34.1	91.7 %	TH0302FFA
30	1800	286T	69.0/35.0	94.1 %	TH0304FFA
	3600	324TS	90.2/45.1	92.4 %	TH0402FFA
40	1800	324T	90.6/45.3	94.1 %	TH0404FFA
	3600	326TS	112.0/56.0	93.0 %	TH0502FFA
50	1800	326TC	112.6/56.3	94.5 %	TH0504FFA
60	3600	364TS	133.4/66.7	93.6 %	TH0602FFA
	1800	364T	136.0/68.0	95.0 %	TH0604FFA
75	3600	365TS	166.8/83.4	93.6 %	TH0752FFA
	1800	365T	169.4/84.7	95.4 %	TH0754FFA
100	3600	405TS	228/114	94.5 %	EH1002FFA
	1800	405TS	226/113	95.4 %	TH1004FFA

◊ Not Applicable to Current Energy Regulations

C-FACE FOOT MOUNTED 3 Phase, 60 Hz, 208-230/460 Volts Totally Enclosed Fan Cooled Enclosure

HP	RPM	Frame	F/L	Nominal	Model
			Amps	Eff.	Number
.50	1800	56C	1.70/.85	80.0%	NBY054NHA &
.75	1800	56C	2.70/1.35	77.0%	NBY074FHA 🛇
	3600	56C	2.90/1.45	77.0 %	NP0012FHA
1.0	1800	56C	2.80/1.40	85.5 %	NP0014FHA
	1800	143TC	2.80/1.45	85.5 %	DP0014FHA
	3600	56C	3.80/1.90	84.0 %	NPY152FHA
1.5	3600	145TC	3.80/1.90	84.0 %	DPY152FHA
	1800	56C	4.20/1.10	86.5 %	NPY154FHA
	1800	145TC	4.20/1.10	86.5 %	DPY154FHA
	3600	56C	5.20/2.60	85.5 %	NP0022FHA
2.0	3600	145TC	5.20/2.60	85.5 %	DP0022FHA
	1800	56C	5.40/2.70	86.5 %	NP0024FHA
	1800	145TC	5.40/2.70	86.5 %	DP0024FHA
	3600	182TC	7.00/3.50	86.5 %	DP0032FHA
3.0	1800	182TC	8.00/4.00	89.5 %	DP0034FHA
	3600	184TC	11.4/5.7	88.5 %	DP0052FHA
5.0	1800	184TC	12.8/6.4	89.5 %	DP0054FHA
	3600	213TC	17.2/8.6	89.5 %	DPY752FHA
7.5	1800	213TC	18.6/9.3	91.7 %	DPY754FHA
10	3600	215TC	22.4/11.2	90.2 %	DP0102FHA
	1800	215TC	25.0/12.5	91.7 %	DP0104FHA
15	3600	254TC	34.8/17.4	91.0 %	TH0152FHA
	1800	254TC	35.8/17.9	93.0 %	TH0154FHA
20	3600	256TC	46.4/23.2	91.0 %	TH0202FHA
	1800	256TC	47.4/23.7	93.0 %	TH0204FHA
25	3600	284TSC	56.8/28.4	91.7 %	TH0252FHA
	1800	284TC	57.6/28.8	93.6 %	TH0254FHA
30	3600	286TSC	68.2/34.1	91.7 %	TH0302FHA
	1800	286TC	69.0/34.5	94.1 %	TH0304FHA
40	3600	324TSC	90.2/45.1	92.4 %	TH0402FHA
	1800	324TC	90.6/45.3	94.1 %	TH0404FHA
50	3600	326TSC	112.0/56.0	93.0 %	TH0502FHA
	1800	326TC	112.6/56.3	94.5 %	TH0504FHA
60	3600	364TSC	133.4/66.7	93.6 %	TH0602FHA
	1800	364TC	136.0/68.0	95.0 %	TH0604FHA
75	3600	365TSC	166.8/83.4	93.6 %	TH0752FHA
	1800	365TC	169.4/84.7	95.4 %	TH0754FHA
100	1800	405TC	226/113	95.4 %	TH1004FHA

♦ Not Applicable to Current Energy Regulations

Totally Enclosed Non-Ventilated

C-FACE FOOTLESS 3 Phase, 60 Hz, 208-230/460 Volts Totally Enclosed Fan Cooled Enclosure

HP	RPM	Frame	F/L Amps	Nominal Eff.	Model Number
.33	1800	56C	1.36/.68	70.0 %	NBY034FCA 🛇
.50	1800	56C	1.90/.95	74.5 %	NBY054FCA 🛇
.75	1800	56C	2.70/1.35	77.0 %	NBY074FCA
1.0	1800	56C	2.80/1.40	85.5%	NP0014FCA
	1800	143TC	2.80/1.40	85.5 %	DP0014FCA
1.5	1800	56C	4.20/2.10	86.5 %	NPY154FCA
	1800	145TC	4.20/2.10	86.5 %	DPY154FCA
2.0	1800	56C	5.40/2.70	86.5 %	NP0024FCA
	1800	145TC	5.40/2.70	86.5 %	DP0024FCA
3.0	1800	182TC	8.00/4.00	89.5 %	DP0034FCA
5.0	1800	184TC	12.8/6.4	89.5 %	DP0054FCA
7.5	1800	213TC	18.6/9.3	91.7 %	DPY754FCA
10	1800	215TC	25.0/12.5	91.7 %	DP0104FCA
15	1800	254TC	35.8/17.9	93.0 %	TH0154FCA
20	1800	256TC	47.4/23.7	93.0 %	TH0204FCA
25	1800	284TC	57.6/28.8	93.6 %	TH0254FCA
30	1800	286TC	69.0/34.5	94.1 %	TH0304FCA

Not Applicable to Current Energy Regulations

FOOT MOUNTED BRAKEMOTORS 3 Phase, 60 Hz, 230/460 Volt Totally Enclosed Fan Cooled Enclosure

HP	RPM	Frame	F/L Amps	Nominal Eff.	Brake Rating	Model Number
1.0	1800	B143T	2.80/1.40	85.5 %	3 Ft.Lb.	DP0014FSA003S
	1800	B143T	2.80/1.40	85.5 %	6 Ft.Lb.	DP0014FSA006S
1.5	1800	B145T	4.20/2.10	86.5 %	6 Ft.Lb.	DPY154FSA006S
	1800	B145T	4.20/2.10	86.5 %	10 Ft.Lb.	DPY154FSA010S
2.0	1800	B145T	5.40/2.70	86.5 %	6 Ft.Lb.	DP0024FSA006S
	1800	B145T	5.40/2.70	86.5 %	10 Ft.Lb.	DP0024FSA010S
3.0	1800	B182T	8.00/4.00	89.5 %	10 Ft.Lb.	DP0034FSA010S
	1800	B182T	8.00/4.00	89.5 %	15 Ft.Lb.	DP0034FSA015S
5.0	1800	B184T	12.8/6.4	89.5 %	15 Ft.Lb.	DP0054FSA015S
	1800	B184T	12.8/6.4	89.5 %	25 Ft.Lb.	DP0054FSA025S
7.5	1800	B213T	18.6/9.3	91.7 %	25 Ft.Lb.	DPY754FSA025S
	1800	B213T	18.6/9.3	91.7 %	35 Ft.Lb.	DPY754FSA035S
10	1800	B215T	25.0/12.5	91.7 %	35 Ft.Lb.	DP0104FSA035S
	1800	B215T	25.0/12.5	91.7 %	50 Ft.Lb.	DP0104FSA050S

C-FACE FOOTLESS BRAKEMOTORS

HP	RPM	Frame	F/L	Nominal	Brake	Model
			Amps	Eff.	Rating	Number
.33	1800	B56C	1.36/.68	70.0 %	3 Ft.Lb.	NBY034FTA003S 🛇
.50	1800	B56C	1.90/.95	74.5 %	3 Ft.Lb.	NBY054FSA003S 🛇
.75	1800	B56C	2.70/1.35	77.0 %	3 Ft.Lb.	NBY074FTA003S 👌
	1800	B56C	2.80/1.40	85.5%	3 Ft.Lb.	NP0014FTA003S
1.0	1800	B56C	2.80/1.40	85.5 %	6 Ft.Lb.	NP0014FTA006S
	1800	B143TC	2.80/1.40	85.5%	3 Ft.Lb.	DP0014FTA003S
	1800	B143TC	2.80/1.40	85.5 %	6 Ft.Lb.	DP0014FTA006S
	1800	B56C	4.50/2.25	80.5 %	6 Ft.Lb.	NPY154FTA006S
1.5	1800	B56C	4.20/2.10	86.5 %	10 Ft.Lb.	NPY154FTA010S
	1800	B145TC	4.50/2.25	80.5 %	6 Ft.Lb.	DPY154FTA006S
	1800	B145TC	4.20/2.10	86.5 %	10 Ft.Lb.	DPY154FTA010S
	1800	B56C	4.20/2.10	86.5 %	6 Ft.lb.	NP0024FTA006S
2.0	1800	B56C	4.20/2.10	86.5 %	10 Ft.Lb	NP0024FTA010S
	1800	B145TC	4.20/2.10	86.5 %	6 Ft.Lb.	DP0024FTA006S
	1800	B145TC	4.20/2.10	86.5 %	10 Ft.Lb.	DP0024FTA010S
3.0	1800	B182TC	8.00/4.00	89.5 %	10 Ft.Lb.	DP0034FTA010S
	1800	B182TC	8.00/4.00	89.5 %	15 Ft.Lb.	DP0034FTA015S
5.0	1800	B184TC	12.8/6.4	89.5 %	15 Ft.Lb.	DP0054FTA015S
	1800	B184TC	12.8/6.4	89.5 %	25 Ft.Lb.	DP0054FTA025S
7.5	1800	B213TC	18.6/9.3	91.7 %	25 Ft.Lb.	DPY754FTA025S
	1800	B213TC	18.6/9.3	91.7 %	35 Ft.Lb.	DPY754FTA035S
10	1800	B215TC	25.0/12.5	91.7 %	35 Ft.Lb.	DP0104FTA035S
	1800	B215TC	25.0/12.5	91.7 %	50 Ft. Lb.	DP0101FTA050S

3 Phase, 60 Hz, 230/460 Volt Totally Enclosed Fan Cooled Enclosure

♦ Not Applicable to Current Energy Regulations

1 Phase, 60 Hz, 115-208/230 Volts Totally Enclosed Fan Cooled Enclosure

HP	RPM	Frame	Design Construction	F/L	Nominal	Model
			_	Amps	Eff.	Number
.33	1800	56C	Rolled Steel	5.40/2.70	59.0 %	NBY034FCW
	1800	56C	Rolled Steel Washdown Duty	5.40/2.70	59.0 %	NBY034PCW
.50	1800	56C	Rolled Steel	8.40/4.20	65.0 %	NBY054FCW
	1800	56C	Rolled Steel Washdown Duty	8.40/4.20	65.0 %	NBY054PCW
.75	1800	56C	Rolled Steel	12.0/6.0	64.0 %	NBY074FCW
	1800	56C	Rolled Steel Washdown Duty	12.0/6.0	64.0 %	NBY074PCW
1.0	1800	56C	Rolled Steel	14.4/7.2	68.0 %	NB0014FCW
	1800	56C	Rolled Steel Washdown Duty	14.4/7.2	68.0 %	NB0014PCW

C-FACE FOOTLESS

STERLI-SEAL® STAINLESS

HP	RPM	Frame	Mounting	F/L	Nominal	Model
				Amps	Eff.	Number
	1800	56	Footed	7.40/3.70	67.0 %	SBY054PFW
.50	1800	56C	C-Face Footed	7.40/3.70	67.0 %	SBY054PHW
	1800	56C	C-Face Footless	7.40/3.70	67.0 %	SBY054PCW
	1800	56C	Footed	11.2/5.6	67.0 %	SBY074PFW
	1800	56C	C-Face Footed	11.2/5.6	67.0 %	SBY074PHW
.75	1800	56C	C-Face Footless	11.2/5.6	67.0 %	SBY074PCW
	1800	56	Footed	15.4/7.7	70.5 %	SB0014PFW
1.0	1800	56C	C-Face Footed	15.4/7.7	70.5 %	SB0014PHW
	1800	56C	C-Face Footless	15.4/7.7	70.5 %	SB0014PCW

PREMIUM EFFICIENT MOTORS

STERLI-SEAL® (Washdown Duty)

3 Phase, 60 Hz, 230/460 Volt

Totally Enclosed Fan Cooled Enclosure

HP	RPM	Frame	F/L	Nominal	Model
			Amps	Eff.	Number
.50	3600	56C	1.50/.75	73.0 %	NBY052MHA&
	1800	56C	1.70/.85	80.0 %	NBY054MHA&
	3600	56C	2.20/1.10	74.0 %	NBY072MHA&
.75	1800	56C	2.20/1.10	81.5 %	NBY074MHA&
	3600	56C	2.90/1.45	77.0 %	NP0012PHA
	1800	143TC	2.80/1.40	85.5 %	NP0014PHA
1.0	1800	143TC	2.80/1.40	85.5 %	DH0014PHA
	3600	56C	3.80/1.90	84.0 %	NPY152PHA
	3600	145TC	3.80/1.90	84.0 %	DPY152PHA
1.5	1800	56C	4.20/2.10	86.5 %	NPY154PHA
	1800	145TC	4.20/2.10	86.5 %	DPY154PHA
	3600	56C	5.20/2.60	85.5 %	NP0022PHA
	3600	145TC	5.20/2.60	85.5 %	DP0022PHA
2.0	1800	56C	5.40/2.70	86.5 %	NP0024PHA
	1800	145TC	5.40/2.70	86.5 %	DP0024PHA
3.0	3600	182TC	7.00/3.50	86.5 %	DP0032PHA
	1800	182TC	8.00/4.00	89.5 %	DP0034PHA
5.0	3600	184TC	11.4/5.70	88.5 %	DP0052PHA
	1800	184TC	12.8/6.40	89.5 %	DP0054PHA
7.5	3600	213TC	17.2/8.60	89.5 %	DPY752PHA
	1800	213TC	18.6/9.30	91.7 %	DPY754PHA
10	3600	215TC	22.4/11.2	90.2 %	DP0102PHA
	1800	215TC	25.0/12.5	91.7 %	DP0104PHA
15	3600	254TC	34.8/17.4	91.0 %	TH0152PHA
	1800	254TC	35.8/17.9	93.0 %	TH0154PHA
20	3600	256TC	46.4/23.2	91.0 %	TH0202PHA
	1800	256TC	47.4/23.7	93.0 %	TH0204PHA
25	3600	284TSC	56.8/28.4	91.7 %	TH0252PHA
	1800	284TC	57.6/28.8	93.6 %	TH0254PHA
30	3600	286TSC	68.2/34.1	91.7 %	TH0302PHA
	1800	286TC	69.0/34.5	94.1 %	TH0304PHA
40	3600	324TSC	90.2/45.1	92.4 %	TH0402PHA
	1800	324TC	90.6/45.3	94.1 %	TH0404PHA
50	3600	326TSC	112.0/56.0	93.0 %	TH0502PHA
	1800	326TC	112.6/56.3	94.5 %	TH0504PHA
60	3600	364TSC	133.4/66.7	93.6 %	TH0602PHA
	1800	364TC	136.0/68.0	95.0 %	TH0604PHA
75	3600	365TSC	166.8/83.4	93.6 %	TH0752PHA
	1800	365T	169.4/84.7	95.4 %	TH0754PHA

C-FACE FOOT MOUNTED

♦ Not Applicable to Current Energy Regulations

Totally Enclosed Non-Ventilated

STERLI-SEAL® (Washdown Duty)

3 Phase, 60 Hz, 230/460 Volt Totally Enclosed Fan Cooled Enclosure

HP	RPM	Frame	F/L Amps	Nominal Eff.	Model Number	
.33	1800	56C	1.20/.60	76.5 %	NBY034MCA&◊	
.50	1800	56C	1.70/.85	80.0 %	NBY054MCA⊕◊	
.75	1800	56C	2.20/1.1	81.5 %	NBY074MCA&	
1.0	1800	143TC	2.80/1.4	85.5 %	NP0014PCA	
	1800	143TC	2.80/1.4	85.5 %	DP0014PCA	
1.5	1800	56C	4.20/2.1	86.5 %	NPY154PCA	
	1800	145TC	4.20/2.1	86.5 %	DPY154PCA	
2.0	1800	56C	5.40/2.7	86.5 %	NP0024PCA	
	1800	145TC	5.40/2.7	86.5 %	DP0024PCA	
3.0	1800	182TC	8.00/4.0	89.5 %	DP0034PCA	
5.0	1800	184TC	12.8/6.4	89.5 %	DP0054PCA	
7.5	1800	213TC	18.6/9.3	91.7 %	DPY754PCA	
10	1800	215TC	25/12.5	91.7 %	DP0104PCA	

C-FACE FOOTLESS

♦ Not Applicable to Current Energy Regulations

Totally Enclosed Non-Ventilated

STERLI-SEAL[®] (Washdown Duty)

3 Phase, 60 Hz, 230/460 Volt INVERTER DUTY (10:1 Constant Torque 6-60 Hz. Operation Totally Enclosed Fan Cooled Enclosure

	HP	RPM	Frame	F/L	Nominal	Model	
				Amps	Eff.	Number	
	1	1800	143TC	2.70/1.35	85.5 %	DI0014PCI ◊	
	1.5	1800	145TC	4.20.2.10	86.5 %	DIY154PCI 🛇	
	2.0	1800	145TC	5.40/2.70	86.5 %	DI0024PCI ()	
	3.0	1800	182TC	8.00/4.00	89.5 %	DI0034PCI (>	
	5.0	1800	184TC	12.8/6.40	89.5 %	DI0054PCI ◊	
	7.5	1800	213TC	18.6/9.30	91.7 %	DIY754PCI 🛇]
	10	1800	215TC	25/12.50	91.7 %	DI0104PCI ◊	
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◊ Not Applicable to Current Energy Regulations

Totally Enclosed Non-Ventilated

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PREMIUM EFFICIENT MOTORS

STERLI-SEAL[®] Encapsulated 3 Phase, 60 Hz, 208-230/460 Volts

Totally Enclosed Fan Cooled Enclosure

HP	RPM	Frame	F/L	Nominal	Model
			Amps	Eff.	Number
.33	1800	56C	1.36/.68	70.0 %	NBY034MHA-E&◊
.50	3600	56C	1.50/.75	73.0 %	NBY052MHA-E&◊
	1800	56C	1.70/.85	80.0 %	NBY054MHA-E⊕◊
.75	3600	56C	2.20/1.10	74.0 %	NBY072MHA-E&◊
	1800	56C	2.20/1.10	81.5 %	NBY074MHA-E&◊
	3600	56C	2.90/1.45	77.0 %	NP0012PHA-E
1.0	1800	56C	2.80/1.40	85.5 %	NP0014PHA-E
	1800	143TC	2.80/1.40	85.5 %	DP0014PHA-E
	3600	56C	3.80/1.90	84.0 %	NPY152PHA-E
1.5	3600	143TC	3.80/1.90	84.0 %	DPY152PHA-E
	1800	56C	4.20/2.10	86.5 %	NPY154PHA-E
	1800	145TC	4.20/2.10	86.5 %	DPY154PHA-E
	3600	56C	5.20/2.60	85.5 %	NP0022PHA-E
2.0	3600	145TC	5.20/2.60	85.5 %	DP0022PHA-E
	1800	56C	5.40/2.70	86.5 %	NP0024PHA-E
	1800	145TC	5.40/2.70	86.5 %	DP0024PHA-E
	3600	182TC	7.00/3.50	86.5 %	DP0032PHA-E
3.0	1800	182TC	8.00/4.00	89.5 %	DP0034PHA-E
	3600	184TC	11.4/5.70	88.5 %	DP0052PHA-E
5.0	1800	184TC	12.8/6.40	89.5 %	DP0054PHA-E
	3600	213TC	17.2/8.60	89.5 %	DPY752PHA-E
7.5	1800	213TC	18.6/9.30	91.7 %	DPY754PHA-E
10	3600	215TC	22.4/11.2	90.2 %	DP0102PHA-E
	1800	215TC	25.0/12.5	91.7 %	DP0104PHA-E

C-FACE FOOT MOUNTED

◊ Not Applicable to Current Energy Regulations

Totally Enclosed Non-Ventilated

C-FACE FOOTLESS

HP	RPM	Frame	F/L Amps	Nominal Eff.	Model Number
.33	1800	56C	1.2060	76.5 %	NBY034MCA-E&◊
.50	1800	56C	1.70/.85	80.0 %	NBY054MCA-E⊕◊
.75	1800	56C	2.20/1.10	81.5 %	NBY074MCA-E⊕◊
1.0	1800	143TC	2.80/1.40	85.5 %	NP0014PCA-E
	1800	143TC	2.80/1.40	85.5 %	DP0014PCA-E
1.5	1800	56C	4.20/2.10	86.5 %	NPY154PCA-E
	1800	145TC	4.20/2.10	86.5 %	DPY154PCA-E
2.0	1800	56C	5.40/2.70	86.5 %	NP0024PCA-E
	1800	145TC	5.40/2.70	86.5 %	DP0024PCA-E
3.0	1800	182TC	8.00/4.00	89.5 %	DP0034PCA-E
5.0	1800	184TC	12.8/6.40	89.5 %	DP0054PCA-E
7.5	1800	213TC	18.6/9.30	91.7 %	DPY754PCA-E
10	1800	215TC	25.0/12.5	91.7 %	DP0104PCA-E

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STERLI-SEAL® STAINLESS

3 Phase, 60 Hz, 208-230/460 Volts C-FACE FOOT MOUNTED

HP	RPM	Frame	F/L	Nominal	Model
			Amps	Eff.	Number
.33	3600	56C	1.20/.60	62.0 %	SBY032MHA&◊
	1800	56C	1.16/.58	80.0 %	SBY034MHA&◊
.50	3600	56C	1.60/.80	70.0 %	SBY052MHA&◊
	1800	56C	1.70/.85	80.0 %	SBY054MHA&◊
	3600	56C	2.30/1.15	77.0 %	SBY072MHA⊕◊
.75	1800	56C	2.20/1.10	83.0 %	SBY074MHA⊕◊
	3600	56C	2.90/1.45	77.0 %	SP0012PHA
	1800	56C	2.80/1.40	85.5 %	SP0014MHA
1.0	1800	56C	2.80/1.40	85.5 %	SH0014PHA
	1800	143TC	2.80/1.40	85.5 %	XP0014PHA
	3600	56C	3.80/1.90	84.0 %	SPY152PHA
	3600	143TC	3.80/1.90	84.0 %	XPY152PHA
1.5	1800	56C	4.20/2.10	86.5 %	SPY154PHA
	1800	145TC	4.20/2.10	86.5 %	XPY154PHA
	3600	56C	5.20/2.60	85.5 %	SP0022PHA
	3600	145TC	5.20/2.60	85.5 %	XP0022PHA
2.0	1800	56C	5.40/2.70	86.5 %	SP0024PHA
	1800	145TC	5.40/2.70	86.5 %	XH0024PHA
	3600	145TC	7.40/3.70	86.5 %	XPH0032PHA
3.0	3600	182TC	7.00/3.50	86.5 %	XP0032PHA
	1800	182TC	8.00/4.00	89.5 %	XP0034PHA
5.0	3600	184TC	11.4/5.70	88.5 %	XP0052PHA
	1800	184TC	12.8/6.40	89.5 %	XP0054PHA
7.5	3600	213TC	17.2/8.60	89.5 %	XPY752PHA
	1800	213TC	18.6/9.30	91.7 %	XPY754PHA
10	3600	215TC	22.4/11.2	90.2 %	XP0102PHA
	1800	215TC	25.0/12.5	91.7 %	XP0104PHA
15	3600	254TC	34.8/17.4	91.0 %	XH0152PHA-1
	1800	254TC	35.8/17.9	92.4 %	XH0154PHA-1
20	3600	256TC	46.4/23.2	91.0 %	XH0202PHA-1
	1800	256TC	47.4/23.7	93.0 %	XH0204PHA-1
25	3600	284TSC	56.8/28.4	91.7 %	XH0252PHA-1
	1800	284TC	57.6/28.8	93.6 %	XH0254PHA-1
30	3600	286TSC	68.2/34.1	91.7 %	XH0302PHA-1
	1800	286TC	69.0/34.5	93.6 %	XH0304PHA-1

♦ Not Applicable to Current Energy Regulations

Totally Enclosed Non-Ventilated

STERLI-SEAL® Inverter Duty Stainless

3 Phase, 60 Hz, 230/460 Volt Class "H" (Spike Resistant) Insulation per NEMA MG-1, Part 31 Class "H" Thermally Protected (10:1 Constant Torque)

Totally Enclosed Fan Cooled Enclosure

HP	RPM	Frame	F/L	Nominal	Model
			Amps	ETT.	Number
.50	1800	56C	1.50/.750	81.5 %	SIY054MHI 🏶
.75	1800	56C	2.34/1.17	80.5 %	SIY074PHI
1.0	1800	56C	2.70/1.35	85.5 %	SI0014PHI
	1800	140TC	2.70/1.35	85.5 %	XI0014PHI
1.5	1800	56C	4.20/2.10	86.5 %	SIY154PHI
	1800	140TC	4.20/2.10	86.5 %	XIY154PHI
2.0	1800	56C	5.40/2.70	86.5 %	SI0024PHI
	1800	140TC	5.40/2.70	86.5 %	XI0024PHI
3.0	1800	180TC	8.00/4.00	89.5 %	XI0034PHI
5.0	1800	180TC	12.8/6.40	89.5 %	XI0054PHI
7.5	1800	210TC	18.6/9.30	91.7 %	XIY754PHI
10	1800	210TC	25.0/12.5	91.7 %	XI0104PHI

C-FACE FOOT MOUNTED

Totally Enclosed Non Ventilated

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HP	RPM	Frame	F/L	Nominal	Model			
			Amps	Eff.	Number			
.50	1800	56C	1.50/.750	81.5 %	SIY054MCI &			
.75	1800	56C	2.34/1.17	80.5 %	SYI074PCI			
1.0	1800	56C	2.70/1.35	85.5 %	SI0014PCI			
	1800	140TC	2.70/1.35	85.5 %	XI0014PCI			
1.5	1800	56C	4.20/2.10	86.5 %	SIY154PCI			
	1800	140TC	4.20/2.10	86.5 %	XIY154PCI			
2.0	1800	56C	5.40/2.70	86.5 %	SI0024PCI			
	1800	140TC	5.40/2.70	86.5 %	XI0024PCI			
3.0	1800	180TC	8.00/4.00	89.5 %	XI0034PCI			
5.0	1800	180TC	12.8//6.40	89.5 %	XI0054PCI			
7.5	1800	210TC	18.6/9.30	91.7 %	XIY754PCI			
10	1800	210TC	25.0/12.5	91.7 %	XI0104PCI			

C-FACE FOOTLESS

Totally Enclosed Non Ventilated

PREMIUM EFFICIENT MOTORS

STERLI-SEAL[®] STAINLESS

3 Phase, 60 Hz, 208-230/460 Volts

Totally Enclosed Fan Cooled Enclosure

HP	RPM	Frame	F/L	Nominal	Model
			Amps	Eff.	Number
.33	1800	56C	1.16/.58	80.0 %	SBY034MCA&◊
	1800	56C	1.70/.85	80.0 %	SBY054MCA&◊
.50	1800	56C	1.70/.85	80.0 %	SBY054PCA 🛇
	1200	56C	1.60/.80	75.5 %	SBY056PCA 🛇
	900	56C	1.90/.95	71.0 %	SBY058PCA 🛇
.75	1800	56C	2.20/1.10	83.0 %	SBY074MCA&◊
	1200	56C	2.75/1.38	74.0 %	SBY076PCA 🛇
1.0	1800	56C	2.80/1.40	85.5 %	SP0014MCA®
	1800	56C	2.80/1.40	85.5 %	SP0014PCA
	1800	143TC	2.80/1.40	85.5 %	XP0014PCA
	1200	56C	3.40/1.70	82.5 %	SP0016PCA
1.5	1800	56C	4.20/2.10	86.5 %	SPY154PCA
	1800	145TC	4.20/2.10	86.5 %	XPY154PCA
2.0	1800	56C	5.40/2.70	86.5 %	SP0024PCA
	1800	145TC	5.40/2.70	86.5 %	XP0024PCA
3.0	1800	182TC	8.00/4.00	89.5 %	XP0034PCA
5.0	1800	184TC	12.8/6.40	89.5 %	XP0054PCA
7.5	1800	213TC	18.6/9.30	91.7 %	XPY754PCA
10	1800	215TC	25.0/12.5	91.7 %	XP0104PCA

C-FACE FOOTLESS

◊ Not Applicable to Current Energy Regulations

Totally Enclosed Non-Ventilated

Close Coupled Pump Motors

HP	RPM	Frame	F/L	Nominal	Model
			Amps	Ett.	Number
1.0	1800	140JM	2.80/1.40	85.5 %	XP0014PJA
1.5	3600	140JM	3.80/1.90	84.0 %	XPY152PJA
	1800	140JM	4.20/2.10	86.5 %	XPY154PJA
2.0	3600	140JM	5.20/2.60	85.5 %	XP0022PJA
	1800	140JM	5.40/2.70	86.5 %	XP0024PJA
3.0	3600	180JM	7.00/3.50	86.5 %	XP0032PJA
	1800	180JM	8.00/4.00	89.5 %	XP0034PJA
5.0	3600	180JM	11.4/5.70	88.5 %	XP0052PJA
	1800	180JM	12.8/6.40	89.5 %	XPH0054PJA
7.5	3600	210JM	17.2/8.60	89.5 %	XPY752PJA
	1800	210JM	18.6/9.30	91.7 %	XPY754PJA
10	3600	210JM	22.4/11.2	90.2 %	XP0102PJA
	1800	210JM	25.0/12.5	91.7 %	XP0104PJA
15	3600	254JM	34.8/17.4	91.0 %	XH0152PJA-M
	1800	254JM	35.8/17.9	92.4 %	XH0154PJA-M
20	3600	256JM	46.4/23.2	91.0 %	XH0202PJA-M
	1800	256JM	47.4/23.7	93.0 %	XH0204PJA-M
25	3600	284JM	56.8/28.4	91.7 %	XH0252PJA-M
	1800	284JM	57.6/28.8	93.6 %	XH0254PJA-M
30	3600	286JM	68.2/34.1	91.7 %	XH0302PJA-M
	1800	286JM	69.0/34.5	93.6 %	XH0304PJA-M

INVERTER DUTY MOTORS

STERLI-SEAL® Inverter Duty Stainless Encapsulated

3 Phase, 60 Hz, 230/460 Volt Class "H" (Spike Resistant) Insulation per NEMA MG-1, Part 31 Class "H" Thermally Protected (10:1 Constant Torque)

Totally Enclosed Fan Cooled Enclosure

HP	RPM	Frame	F/L	Nominal	Model
			Amps	Eff.	Number
.50	1800	56C	1.50/.750	81.5 %	SIY054MHI-E
.75	1800	56C	2.34/1.17	80.5 %	SIY074PHI-E
1.0	1800	56C	2.70/1.35	85.5 %	SI0014PHI-E
	1800	140TC	2.70/1.35	85.5 %	XI0014PHI-E
1.5	1800	56C	4.20/2.10	86.5 %	SIY154PHI-E
	1800	140TC	4.20/2.10	86.5 %	XIY154PHI-E
2.0	1800	56C	5.40/2.70	86.5 %	SI0024PHI-E
	1800	140TC	5.40/2.70	86.5 %	XI0024PHI-E
3.0	1800	180TC	8.00/4.00	89.5 %	XI0034PHI-E
5.0	1800	180TC	12.8/6.40	89.5 %	XI0054PHI-E
7.5	1800	210TC	18.6/9.30	91.7 %	XIY754PHI-E
10	1800	210TC	25.0/12.5	91.7 %	XI0104PHI-E
	1800	210TC	25.0/12.5	91.7 %	XI0104PCI-E

C-FACE FOOT MOUNTED

Totally Enclosed Non Ventilated

HP	RPM	Frame	F/L	Nominal	Model			
			Amps	Eff.	Number			
.50	1800	56C	1.50/.750	81.5 %	SIY054MCI-E&			
.75	1800	56C	2.34/1.17	80.5 %	SYI074PCI-E			
1.0	1800	56C	2.70/1.35	85.5 %	SI0014PCI-E			
	1800	140TC	2.70/1.35	85.5 %	XI0014PCI-E			
1.5	1800	56C	4.20/2.10	86.5 %	SIY154PCI-E			
	1800	140TC	4.20/2.10	86.5 %	XIY154PCI-E			
2.0	1800	56C	5.40/2.70	86.5 %	SI0024PCI-E			
	1800	140TC	5.40/2.70	86.5 %	XI0024PCI-E			
3.0	1800	180TC	8.00/4.00	89.5 %	XI0034PCI-E			
5.0	1800	180TC	12.8//6.40	89.5 %	XI0054PCI-E			
7.5	1800	210TC	18.6/9.30	91.7 %	XIY754PCI-E			
10	1800	210TC	25.0/12.5	91.7 %	XI0104PCI-E			

C-FACE FOOTLESS

Totally Enclosed Non Ventilated

STERLI-SEAL® STAINLESS Encapsulated

3 Phase, 60 Hz, 208-230/460 Volts Totally Enclosed Fan Cooled Enclosure

HP	RPM	Frame	F/L	Nominal	Model
			Amps	Eff.	Number
.33	3600	56C	1.20/.60	62.0 %	SBY032MHA-E&O
	1800	56C	1.16/.58	80.0 %	SBY034MHA-E&
.50	3600	56C	1.60/.80	70.0 %	SBY052MHA-E&O
	1800	56C	1.70/.85	80.0 %	SBY054MHA-E&O
.75	3600	56C	2.3/1.15	77.0 %	SBY072MHA-E&
	1800	56C	2.20/1.1	83.0 %	SBY074MHA-E&
	3600	56C	2.90/1.45	77.0 %	SP0012PHA-E
1.0	1800	56C	2.80/1.40	85.5 %	SP0014MHA-E
	1800	56C	2.80/1.40	85.5 %	SP0014PHA-E
	1800	143TC	2.80/1.40	85.5 %	XP0014PHA-E
	3600	56C	3.80/1.90	84.0 %	SPY152PHA-E
1.5	3600	143TC	3.80/1.90	84.0 %	XPY152PHA-E
	1800	56C	4.20/2.10	86.5 %	SPY154PHA-E
	1800	145TC	4.20/2.10	86.5 %	XPY154PHA-E
	3600	56C	5.20/2.60	85.5 %	SP0022PHA-E
2.0	3600	145TC	5.20/2.60	85.5 %	XP0022PHA-E
	1800	56C	5.40/2.70	86.5 %	SP0024PHA-E
	1800	145TC	5.40/2.70	86.5 %	XP0024PHA-E
	3600	145TC	7.40/3.70	86.5 %	XPH0032PHA-E
3.0	3600	182TC	7.00/3.50	86.5 %	XP0032PHA-E
	1800	182TC	8.00/4.00	89.5 %	XP0034PHA-E
5.0	3600	184TC	11.4/5.70	88.5 %	XP0052PHA-E
	1800	184TC	12.8/6.40	89.5 %	XP0054PHA-E
7.5	3600	213TC	17.2/8.60	89.5 %	XPY752PHA-E
	1800	213TC	18.6/9.30	91.7 %	XPY754PHA-E
10	3600	215TC	22.4/11.2	90.2 %	XP0102PHA-E
	1800	215TC	25.0/12.5	91.7 %	XP0104PHA-E

C-FACE FOOT MOUNTED

C-FACE FOOTLESS

HP	RPM	Frame	F/L	Nominal	Model
00	4000	500	Allips		
.33	1800	560	1.16/.58	80.0 %	SBY034MCA-E&O
	1800	56C	1.70/.85	80.0 %	SBY054MCA-E&⊘
.50	1200	56C	1.60/.80	75.5 %	SBY056PCA-E 🛇
	900	56C	1.90/.95	71.0 %	SBY058PCA-E ◊
.75	1800	56C	2.20/1.1	83.0 %	SBY074MCA-E&O
	1800	56C	2.80/1.40	85.5 %	SP0014MCA-E&
	1800	56C	2.80/1.40	85.5 %	SP0014PCA-E
1.0	1800	143TC	2.80/1.40	85.5 %	XP0014PCA-E
	1800	143TC	2.80/1.40	85.5 %	XP0014PCA-E
1.5	1800	56C	4.20/2.10	86.5 %	SPY154PCA-E
	1800	145TC	4.20/2.10	86.5 %	XPY154PCA-E
2.0	1800	56C	5.40/2.70	86.5 %	SP0024PCA-E
	1800	145TC	5.40/2.70	86.5 %	XP0024PCA-E
3.0	1800	182TC	8.00/4.00	89.5 %	XP0034PCA-E
5.0	1800	184TC	12.8/6.40	89.5 %	XP0054PCA-E
7.5	1800	213TC	18.6/9.30	91.7 %	XPY754PCA-E
10	1800	215TC	25.0/12.5	91.7 %	XP0104PCA-E

◊ Not Applicable to Current Energy Regulations

Totally Enclosed Non-Ventilated

MOTOR INSTALLATION SIMPLIFIED

STERLING ELECTRIC'S YEARS OF EXPERIENCE IN THE MANUFACTURING OF ALL STAINLESS STEEL ENCAPSULATED MOTORS HAS JUST BEEN MADE SIMPLER.

Our unsurpassed quality of Stainless Steel Encapsulated motors has been improved to provide the option of a Pre-Connected product with a 10 Foot, 4 wire, pigtail cord. Use of this option eliminates the headache of mis-connecting a motor, causing premature failure, and does not require use of silicone filled wire nuts or heat shrink tubing over the connection as required by some manufacturers.

Sterling Electric Corded Encapsulated motors reduce downtime and provide the easiest installation of motors in the industry. Our corded motors allow the motor to bedirect wired to the motor control or the ability of wiring a quick disconnect plug.



Motor shown is supplied with our Cast Stainless SteelConduit Box Option (Additional Charge Applies)





FULLY ENCAPSULATED CONDUIT BOX TO PREVENT ENTRANCE OF WATER

All Encapsulated Corded motors provide a **3 Year Warranty** against defects in material or workmanship. This series of motors are also provided with Pre-Installed T-Drains in the Drive End and OppositeDrive End of the motor. Rotating the motor in 90 degree increments requires customer relocation of these drains to the lowest point and maintaining an IP66/69K ingress rating.

Sterling Electric's Encapsulated Corded Motor are designed and tested to meet the harshest applications found in the Food, Beverage and Pharmaceutical Industries by carrying an **IP66/69K** ingress rating to withstand high pressure Temperature water washdowns.

STERLI-SEAL® STAINLESS Encapsulated

3 Phase, 60 Hz, 230 or 460 Volt ONLY Preconnected with 10 Ft. Cord

Cast Stainless Steel Conduit Box Optional - Consult Factory for Details

HP	RPM	Frame	F/L	Nominal	Model
			Amps	Eff.	Number
.33	3600	56C	1.20/.60	62.0 %	SBY032MH*-EC&◊
	1800	56C	1.16/.58	80.0 %	SBY034MH*-EC&◊
.50	3600	56C	1.60/.80	70.0 %	SBY052MH*-EC&
	1800	56C	1.70/.85	80.0 %	SBY054MH*-EC⊕◊
.75	3600	56C	2.30/1.15	77.0 %	SBY072MH*-EC@0
	1800	56C	2.20/1.10	83.0 %	SBY074MH*-EC@0
	3600	56C	2.90/1.45	77.0 %	SP0012PH*-EC
1.0	1800	56C	2.80/1.40	85.5 %	SP0014MH*-EC
	1800	56C	2.80/1.40	85.5 %	SP0014PH*-EC
	1800	143TC	2.80/1.40	85.5 %	XP0014PH*-EC
	3600	56C	3.80/1.90	84.0 %	SPY152PH*-EC
1.5	3600	143TC	3.80/1.90	84.0 %	XPY152PH*-EC
	1800	56C	4.20/2.10	86.5 %	SPY154PH*-EC
	1800	145TC	4.20/2.10	86.5 %	XPY154PH*-EC
	3600	56C	5.20/2.60	85.5 %	SP0022PH*-EC
2.0	3600	145TC	5.20/2.60	85.5 %	XP0022PH*-EC
	1800	56C	5.40/2.70	86.5 %	SP0024PH*-EC
	1800	145TC	5.40/2.70	86.5 %	XP0024PH*-EC
	3600	145TC	7.40/3.70	86.5 %	XPH0032PH*-EC
3.0	3600	182TC	7.00/3.50	86.5 %	XP0032PH*-EC
	1800	182TC	8.00/4.00	89.5 %	XP0034PH*-EC
5.0	3600	184TC	11.4/5.70	88.5 %	XP0052PH*-EC
	1800	184TC	12.8/6.40	89.5 %	XP0054PH*-EC
7.5	3600	213TC	17.2/8.60	89.5 %	XPY752PH*-EC
	1800	213TC	18.6/9.30	91.7 %	XPY754PH*-EC
10	3600	215TC	22.4/11.2	90.2 %	XP0102PH*-EC
	1800	215TC	25.0/12.5	91.7 %	XP0104PH*-EC

C-FACE FOOT MOUNTED

C-FACE FOOTLESS

	RPM	Frame	F/L	Nominal	Model
HP			Amps	Eff.	Number
.33	1800	56C	1.16/.58	80.0 %	SBY034MC*-EC ⊕◊
	1800	56C	1.70/.85	80.0 %	SBY054MC*-EC &
.50	1800	56C	1.60/.80	75.5 %	SBY054PC*-EC ◊
	1200	56C	2.3/1.15	74.9 %	SBY056PC*-EC ◊
	900	56C	1.90/.95	71.0 %	SBY058PC*-EC ◊
.75	1800	56C	2.20/1.1	83.0 %	SBY074MC*-EC ⊕◊
	1200	56C	2.75/1.38	74.0 %	SBY076PC*-EC ◊
	1800	56C	2.80/1.40	85.5 %	SP0014MC*-EC &
1.0	1800	56C	2.80/1.40	85.5 %	SP0014PC*-EC
	1800	143TC	2.80/1.40	85.5 %	XP0014PC*-EC
	1200	56C	3.40/1.70	82.5 %	SP0016PC*-EC
1.5	1800	56C	4.20/2.10	86.5 %	SPY154PC*-EC
	1800	145TC	4.20/2.10	86.5 %	XPY154PC*-EC
2.0	1800	56C	5.40/2.70	86.5 %	SP0024PC*-EC
	1800	145TC	5.40/2.70	86.5 %	XP0024PC*-EC
3.0	1800	182TC	8.00/4.00	89.5 %	XP0034PC*-EC
5.0	1800	184TC	12.8/6.40	89.5 %	XP0054PC*-E C
7.5	1800	213TC	18.6/9.30	91.7 %	XPY754PC*-EC
10	1800	215TC	25.0/12.5	91.7 %	XP0104PC*-EC

* Insert Letter "C" for 230 Volt or "B" for 460 Volt

STERLI-SEAL® Inverter Duty Stainless Encapsulated

3 Phase, 60 Hz, 230 or 460 Volt ONLY *Preconnected with 10 Ft. Cord* Class "H" (Spike Resistant) Insulation per NEMA MG-1, Part 31 Suitable for (10:1 Constant Torque)

Totally Enclosed Fan Cooled Enclosure

HP	RPM	Frame	F/L	Nominal	Model	
			Amps	Eff.	Number	
.50	1800	56C	1.50/.750	81.5 %	SIY054MH*-EC 🕸	
.75	1800	56C	2.34/1.17	80.5 %	SIY074PH*-EC	
1.0	1800	56C	2.70/1.35	85.5 %	SI0014PH*-EC	
	1800	140TC	2.70/1.35	85.5 %	XI0014PH*-EC	
1.5	1800	56C	4.20/2.10	86.5 %	SIY154PH*-EC	
	1800	140TC	4.20/2.10	86.5 %	XIY154PH*-EC	
2.0	1800	56C	5.40/2.70	86.5 %	SI0024PH*-EC	
	1800	140TC	5.40/2.70	86.5 %	XI0024PH*-EC	
3.0	1800	180TC	8.00/4.00	89.5 %	XI0034PH*-EC	
5.0	1800	180TC	12.8/6.40	89.5 %	XI0054PH*-EC	
7.5	1800	210TC	18.6/9.30	91.7 %	XIY754PH*-EC	
10	1800	210TC	25.0/12.5	91.7 %	XI0104PHI*-EC	

C-FACE FOOT MOUNTED

Totally Enclosed Non Ventilated * Insert Letter "C" for 230 Volt or "B" for 460 Volt

C-FACE FOOTLESS

HP	RPM	Frame	F/L	Nominal	Model
			Amps	Eff.	Number
.50	1800	56C	1.50/.750	81.5 %	SIY054MC*-EC 🗢
.75	1800	56C	2.34/1.17	80.5 %	SYI074PC*-EC
1.0	1800	56C	2.70/1.35	85.5 %	SI0014PC*-EC
	1800	140TC	2.70/1.35	85.5 %	XI0014PC*-EC
1.5	1800	56C	4.20/2.10	86.5 %	SIY154PC*-EC
	1800	140TC	4.20/2.10	86.5 %	XIY154PC*-EC
2.0	1800	56C	5.40/2.70	86.5 %	SI0024PC*-EC
	1800	140TC	5.40/2.70	86.5 %	XI0024PC*-EC
3.0	1800	180TC	8.00/4.00	89.5 %	XI0034PC*-EC
5.0	1800	180TC	12.8//6.40	89.5 %	XI0054PC*-EC
7.5	1800	210TC	18.6/9.30	91.7 %	XIY754PC*-EC
10	1800	210TC	25.0/12.5	91.7 %	XI0104PC*-EC

Totally Enclosed Non Ventilated * Insert Letter "C" for 230 Volt or "B" for 460 Volt

Sterli-Seal treme Encapsulated Stainless Motor

Our unsurpassed quality of Stainless Steel Encapsulated motors has been improved with our New Xtreme Series product, by providing Maintenance Free Operation, when purchased with a 10 Foot, 4 wire, pigtail cord.

Sterling Electric Xtreme Corded Encapsulated Motors reduce downtime and provide the easiest installation of motors in the Industry. Our corded motors allow direct wiring to the motor control, a quick disconnect plug or the ability to have a conduit connector mounted with theremoval of our standard cable gland.





All corded motors are provided with a Stainless Steel 1/2" NPT Adapter that allows removal of the standard supplied cable gland and gives the ability to mount conduit in it's place. All Encapsulated Corded motors provide a **3 Year Warranty** against defects in material or workmanship. Non-Corded Motors require the use of supplied silicone filled wire nuts to maintain 3 year warranty.

Sterling Electric's Encapsulated Corded Motors are designed and tested to meet the harshest applications found in the Food, Beverage and Pharmaceutical

industries by carrying an **IP66/69K** ingress rating to withstand high Pressure/Temperature water washdowns.



Non-Corded Version supplied with Investment Cast Stainless Steel Conduit Box capable of being rotated in 90° Increments (applies to Non-Corded version only).

Conduit Box is supplied with (6) silicone filled wire nuts, investment cast screw off cover with O-Ring to provide a Waterproof Connection.







STERLI-SEAL[®] Xtreme Encapsulated 3 Phase, 60 Hz, 208-230/460 Volt C-FACE FOOT MOUNTED

HP	RPM	Frame	F/L	Nominal	Model
			Amps	Eff.	Number
.33	3600	56C	1.20/.60	62.0 %	SBY032WHA &
	1800	56C	1.16/.58	80.0 %	SBY034WHA &
.50	3600	56C	1.60/.80	70.0 %	SBY052WHA &
	1800	56C	1.70/.85	80.0 %	SBY054WHA &
.75	3600	56C	2.30/1.15	77.0 %	SBY072WHA &
	1800	56C	2.20/1.10	83.0 %	SBY074WHA &
	3600	56C	2.90/1.45	77.0 %	SP0012XHA
1.0	1800	56C	2.80/1.40	85.5 %	SP0014WHA 🏶
	1800	56C	2.80/1.40	85.5 %	SP0014XHA
	1800	143TC	2.80/1.40	85.5 %	XP0014XHA
	3600	56C	3.80/1.90	84.0 %	SPY152XHA
1.5	3600	143TC	3.80/1.90	84.0 %	XPY152XHA
	1800	56C	4.20/2.10	86.5 %	SPY154XHA
	1800	145TC	4.20/2.10	86.5 %	XPY154XHA
	3600	56C	5.20/2.60	85.5 %	SP0022XHA
2.0	3600	145TC	5.20/2.60	85.5 %	XP0022XHA
	1800	56C	5.40/2.70	86.5 %	SP0024XHA
	1800	145TC	5.40/2.70	86.5 %	XP0024XHA
	3600	145TC	7.40/3.70	86.5 %	XPH0032XHA
3.0	3600	182TC	7.00/3.50	86.5 %	XP0032XHA
	1800	182TC	8.00/4.00	89.5 %	XP0034XHA
5.0	3600	184TC	11.4/5.70	88.5 %	XP0052XHA
	1800	184TC	12.8/6.40	89.5 %	XP0054XHA
7.5	3600	213TC	17.2/8.60	89.5 %	XPY752XHA
	1800	213TC	18.6/9.30	91.7 %	XPY754XHA
10	3600	215TC	22.4/11.2	90.2 %	XP0102XHA
	1800	215TC	25.0/12.5	91.7 %	XP0104XHA

C-FACE FOOTLESS

HP	RPM	Frame	F/L Amps	Nominal Eff.	Model Number
.33	1800	56C	1.16/.58	80.0 %	SBY034WCA 🕸 🛇
	1800	56C	1.70/.85	80.0 %	SBY054WCA 🕸 🛇
.50	1800	56c	1.60/.80	75.5 %	SBY054WCA 🛇
	1200	56C	2.3/1.15	74.9 %	SBY056XCA 🛇
	900	56C	1.90/.95	71.0 %	SBY058XCA 🛇
.75	1800	56C	2.20/1.1	83.0 %	SBY074WCA &
	1200	56C	2.75/1.38	74.0 %	SBY076XCA 🛇
	1800	56C	2.80/1.40	85.5 %	SP0014XCA 🕸
1.0	1800	56C	2.80/1.40	85.5 %	SP0014XCA
	1800	143TC	2.80/1.40	85.5 %	XP0014XCA
	1200	56C	3.40/1.70	82.5 %	SP0016XCA
1.5	1800	56C	4.20/2.10	86.5 %	SPY154XCA
	1800	145TC	4.20/2.10	86.5 %	XPY154XCA
2.0	1800	56C	5.40/2.70	86.5 %	SP0024XCA
	1800	145TC	5.40/2.70	86.5 %	XP0024XCA
3.0	1800	182TC	8.00/4.00	89.5 %	XP0034XCA
5.0	1800	184TC	12.8/6.40	89.5 %	XP0054XCA
7.5	1800	213TC	18.6/9.30	91.7 %	XPY754XCA
10	1800	215TC	25.0/12.5	91.7 %	XP0104XCA

✤ Totally Enclosed Non Ventilated

◊ Not Applicable to Current Energy Regulations

STERLI-SEAL[®] Xtreme Encapsulated

3 Phase, 60 Hz, 230 or 460 Volt ONLY Preconnected with 10 Foot Cord C-FACE FOOT MOUNTED

HP	RPM	Frame	F/L	Nominal	Model
			Amps	Eff.	Number
.33	3600	56C	1.20/.60	62.0 %	SBY032WH*-C ��◊
	1800	56C	1.16/.58	80.0 %	SBY034WH*-C &
.50	3600	56C	1.60/.80	70.0 %	SBY052WH*-C ��◊
	1800	56C	1.70/.85	80.0 %	SBY054WH*-C ⊕◊
.75	3600	56C	2.30/1.15	77.0 %	SBY072WH*-C ⊕◊
	1800	56C	2.20/1.10	83.0 %	SBY074WH*-C &
	3600	56C	2.90/1.45	77.0 %	SP0012XH*-C
1.0	1800	56C	2.80/1.40	85.5 %	SP0014WH*-C &
	1800	56C	2.80/1.40	85.5 %	SP0014XH*-C
	1800	143TC	2.80/1.40	85.5 %	XP0014XH*-C
	3600	56C	3.80/1.90	84.0 %	SPY152XH*-C
1.5	3600	143TC	3.80/1.90	84.0 %	XPY152XH*-C
	1800	56C	4.20/2.10	86.5 %	SPY154XH*-C
	1800	145TC	4.20/2.10	86.5 %	XPY154XH*-C
	3600	56C	5.20/2.60	85.5 %	SP0022XH*-C
2.0	3600	145TC	5.20/2.60	85.5 %	XP0022XH*-C
	1800	56C	5.40/2.70	86.5 %	SP0024XH*-C
	1800	145TC	5.40/2.70	86.5 %	XP0024XH*-C
	3600	145TC	7.40/3.70	86.5 %	XPH0032XH*-C
3.0	3600	182TC	7.00/3.50	86.5 %	XP0032XH*-C
	1800	182TC	8.00/4.00	89.5 %	XP0034XH*-C
5.0	3600	184TC	11.4/5.70	88.5 %	XP0052XH*-C
	1800	184TC	12.8/6.40	89.5 %	XP0054XH*-C
7.5	3600	213TC	17.2/8.60	89.5 %	XPY752XH*-C
	1800	213TC	18.6/9.30	91.7 %	XPY754XH*-C
10	3600	215TC	22.4/11.2	90.2 %	XP0102XH*-C
	1800	215TC	25.0/12.5	91.7 %	XP0104XH*-C

C-FACE FOOTLESS

HP	RPM	Frame	F/L Amps	Nominal Eff.	Model Number
.33	1800	56C	1.16/.58	80.0 %	SBY034WC*-C ⊕◊
	1800	56C	1.70/.85	80.0 %	SBY054WC*-C &
.50	1800	56C	1.60/.80	75.5 %	SBY054WC*-C ◊
	1200	56C	2.3/1.15	74.9 %	SBY056XC*-C ◊
	900	56C	1.90/.95	71.0 %	SBY058XC*-C ◊
.75	1800	56C	2.20/1.1	83.0 %	SBY074WC*-C &
	1200	56C	2.75/1.38	74.0 %	SBY076XC*-C ◊
	1800	56C	2.80/1.40	85.5 %	SP0014XC*-C &
1.0	1800	56C	2.80/1.40	85.5 %	SP0014XC*-C
	1800	143TC	2.80/1.40	85.5 %	XP0014XC*-C
	1200	56C	3.40/1.70	82.5 %	SP0016XC*-C
1.5	1800	56C	4.20/2.10	86.5 %	SPY154XC*-C
	1800	145TC	4.20/2.10	86.5 %	XPY154XC*-C
2.0	1800	56C	5.40/2.70	86.5 %	SP0024XC*-C
	1800	145TC	5.40/2.70	86.5 %	XP0024XC*-C
3.0	1800	182TC	8.00/4.00	89.5 %	XP0034XC*-C
5.0	1800	184TC	12.8/6.40	89.5 %	XP0054XC*-C
7.5	1800	213TC	18.6/9.30	91.7 %	XPY754XC*-C
10	1800	215TC	25.0/12.5	91.7 %	XP0104XC*-C

✤ Totally Enclosed Non Ventilated

* Insert Letter "C" for 230 Volt or "B" for 460 Volt

STERLI-SEAL® Inverter Duty Xtreme Encapsulated

3 Phase, 60 Hz, 230 or 460 Volt ONLY *Preconnected with 10 Ft. Cord* Class "H" (Spike Resistant) Insulation per NEMA MG-1, Part 31 Suitable for (10:1 Constant Torque)

C-FACE FOOT MOUNTED								
HP	RPM	Frame	F/L	Nominal	Model			
			Amps	Eff.	Number			
.50	1800	56C	1.50/.750	81.5 %	SIY054WH*-C 🖶			
.75	1800	56C	2.34/1.17	80.5 %	SIY074XH*-C			
1.0	1800	56C	2.70/1.35	85.5 %	SI0014XH*-C			
	1800	140TC	2.70/1.35	85.5 %	XI0014XH*-C			
1.5	1800	56C	4.20/2.10	86.5 %	SIY154XH*-C			
	1800	140TC	4.20/2.10	86.5 %	XIY154XH*-C			
2.0	1800	56C	5.40/2.70	86.5 %	SI0024XH*-C			
	1800	140TC	5.40/2.70	86.5 %	XI0024XH*-C			
3.0	1800	180TC	8.00/4.00	89.5 %	XI0034XH*-C			
5.0	1800	180TC	12.8/6.40	89.5 %	XI0054XH*-C			
7.5	1800	210TC	18.6/9.30	91.7 %	XIY754XH*-C			
10	1800	210TC	25.0/12.5	91.7 %	XI0104XH*-C			

Totally Enclosed Fan Cooled Enclosure

Totally Enclosed Non Ventilated

C-FACE FOOTLESS

HP	RPM	Fram	F/L	Nominal	Model
		е	Amps	Eff.	Number
.50	1800	56C	1.50/.750	81.5 %	SIY054WC*-C 🖶
.75	1800	56C	2.34/1.17	80.5 %	SYI074XC*-C
1.0	1800	56C	2.70/1.35	85.5 %	SI0014XC*-C
	1800	140TC	2.70/1.35	85.5 %	XI0014XC*-C
1.5	1800	56C	4.20/2.10	86.5 %	SIY154XC*-C
	1800	140TC	4.20/2.10	86.5 %	XIY154XC*-C
2.0	1800	56C	5.40/2.70	86.5 %	SI0024XC*-C
	1800	140TC	5.40/2.70	86.5 %	XI0024XC*-C
3.0	1800	180TC	8.00/4.00	89.5 %	XI0034XC*-C
5.0	1800	180TC	12.8//6.40	89.5 %	XI0054XC*-C
7.5	1800	210TC	18.6/9.30	91.7 %	XIY754XC*-C
10	1800	210TC	25.0/12.5	91.7 %	XI0104XC*-C

Totally Enclosed Non Ventilated

* Insert Letter "C" for 230 Volt or "B" for 460 Volt

UNIVERSAL PICKER MOTOR

For 95 Years Sterling Electric has provided SOLUTIONS to critical customer applications with superior products. We are the "go to company" for products used in sanitary applications where other manufacturer's products cannot survive.

Keeping our SOLUTIONS philosophy in mind, we have developed our Universal Picker Motor to provide features that cannot be found with competing brand products. In addition, our product provides one Base Model that allows for NEMA or Metric Mounting configurations reducing maintenance inventory requirements.

The following outstanding features set us apart from our Competition:

	STERLING ELECTRIC	COMPETITION	
Frame	CAST IRON	Rolled Steel	
End Brackets	CAST IRON	Die Cast Aluminum	
Fan Cover	Stainless Steel	Stainless Steel	
Terminal Box	CAST IRON -	Die Cast Aluminum	
	Cast in Frame		
Connection Lead Seal	Potted as	No or Potted as	
	Standard	Option	
Silicone Filled Wire	Standard	NO or Heat Shrink	
Nuts		Tubing	
Drive End Bearing	Double Row	Sealed Ball	
	Sealed	6205LL	
	5206LL		
Opposite Drive	Double Row	Sealed Ball	
End Bearing	5204LL	6203LL	
Insulation	Class F	Class F	
Service Factor	1.15	1.0	
Motor Shaft	Stainless Steel	Stainless Steel	
Encapsulate Windings	Standard	Not Available or	
		Optional	
Condensation Drain	Stainless Steel	Open Hole or	
	T-Drain	Breather	
Inverter Rated per	Standard	Standard	
MG1- Part 31.4.4.2			



Our unique design allows various mounting options depending upon the customer requirements of a NEMA145T/145TC or IEC 100L/100LC Frame.

All motors are supplied, as standard, with Two Part Epoxy White Paint. Fan Guard And Terminal Box Cover are of Stainless Steel materials. Encapsulated Motor windings and Potted Connection Leads, as standard. Double Row Sealed Bearings on drive end and opposite drive end for greater overhung loads, as standard.

143T Frame—TEFC/IP66 Enclosure, NEMA Design "D"5-8% Slip, 3HP, 3 Phase, 60Hz. 208-230/460

MODEL NUMBER	DESCRIPTION
TDH0034PXA	Base Motor
TDH0O34PX*-C	Base Moto w/10FT. Cord
TBH140BKIT	143T Base Mounting Kit
TBHM100LBKIT	100L Base Mounting Kit
TBHM112MBKIT	112M Base Mounting Kit
TBH140CFKIT	143TC C-Face Kit
TBHMB5KIT	Metric B5 Flange Kit
TBHMB14KIT	Metric B14 Face Kit
TBHM100SKIT	Metric Shaft Kit

For Corded Motors insert "C" for 230V or "B" for 460V in the above listed Model Number



The flexibility of our Universal Picker Motor allows for ONE Base Model Motor, that can be carried in inventory, to make both NEMA and IEC mountings with the addition of two base kits or three output flange mounting kits and a metric shaft kit.

With this flexible design, the Sterling Universal Picker Motor is interchangeable with many competing brands, and provides greater durability with a Cast Iron Heavy Duty Frame. Our standard motor provides, as standard, a Stainless Steel Fan Guard and Conduit Box Cover. All nameplate data is permanently etched into the conduit box cover for ease in making electrical connection or reference of motor performance characteristics.

Sterling's Universal Picker Motor provides optimum motor insulation protection with Encapsulated Windings, as standard. All connection leads are potted with polymer to eliminate intrusion of water to internal components. Each motor is provided with silicone filled wire nuts to insure electrical connections are free from any water intrusion caused by the severe environment found in picker applications.

Double Sealed Double Row bearings each end provide greater overhung load capability for use with the HTD pulley used inpicker applications.

INTERCHANGE GUIDE

The Listed Competing Brands can be Replaced by the Universal Picker Motor with the purchase of the proper Bolt On Accessories

HP/KW	RPM	FRAME	LEESON CATALOG NUMBER	LEESON MODEL NUMBER	BALDOR CATALOG NUMBER	BLUFFTON CATALOG NUMBER	BLUFFTON MODEL NUMBER
3HP/2.2KW	1800	145T	121944.00	C145T17FB92	WDM3561TP-9	13993	1311017141
3HP/2.2KW	1800	D100C	193359.60	C100T17FZ45	MVM3611C	53211	1311017174

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PERFORMANCE DATA

HP	Full	Frame	Full	Locked	EF	FICIENC	Y	POW	/ER FAC	TOR	F.L.	Locked	Break-
	Load		Load	Rotor							Ft.	Rotor	Down
	RPM		Amps @	Amps @	Full	3/4	1/2	Full	3/4	1/2	Lbs.	%	%
			230V	230V	Load	Load	Load	Load	Load	Load			
.33	1750	56	1.20	9.0	76.5	75.4	71.4	68.0	56.0	43.0	.976	300	380
	1750	56	1.38	7.2	70.0	66.0	61.0	65.0	55.0	44.0	.976	220	300
	3600	56	1.50	11.4	73.0	69.7	62.8	85.5	79.8	70.0	.745	250	350
.50	1750	56	1.70	11.5	80.0	79.8	75.0	69.0	59.0	46.0	1.504	300	360
	1750	56	1.90	11.2	74.5	72.5	65.0	67.8	57.0	45.0	1.504	200	300
	3510	56	2.20	18.0	74.0	72.8	66.6	85.0	78.4	68.0	1.121	250	350
.75	3450	56	2.50	13.0	68.0	68.5	65.0	84.0	80.5	65.0	1.143	200	250
	1750	56	2.70	16.2	77.0	76.8	74.0	69.0	58.0	45.0	2.278	260	340

Frame 56 Models with Prefix NB and RB

Totally Enclosed Non-Ventilated Enclosure Data

Models with Prefix DP, NP, SP and XP

HP	Full	Frame	Full	Locked	EF	FICIENC	CY	POW	/ER FAC	TOR	F.L.	Locked	Break-
	RPM		Amps	Amps							Ft. Lbs.	Rotor %	Down %
			@	@	Full	3/4	1/2	Full	3/4	1/2		,,,	,,,
			230V	230V	Load	Load	Load	Load	Load	Load			
.33	3460	56C	1.20	7.0	62.0	60.0	55.0	85.0	78.0	68.0	.51	200	300
	1750	56C	1.16	8.5	80.0	79.0	77.0	66.0	58.0	43.0	1.00	300	350
	3500	56C	1.60	11	70.0	66.0	61.0	84.0	76.0	66.0	.74	250	300
	1750	56C	1.70	13	80.0	79.0	74.0	69.5	61.0	46.0	1.50	300	450
.50	1725	56C	1.60	13	75.5	74.5	72.0	77.0	59.0	56.0	1.51	250	340
	1150	56C	2.30	12	74.9	70.5	63.0	55.0	45.0	35.0	2.28	200	300
	820	56C	1.90	7.1	71.0	73.5	72.0	70.0	58.8	45.0	3.18	220	230
	3500	56C	2.30	18	77.0	75.0	70.0	84.0	76.0	62.0	1.12	280	350
.75	1750	56C	2.20	19	73.0	82.5	79.5	77.0	71.0	59.0	2.24	250	400
	1750	56C	2.34	17	80.5	78.5	73.5	74.6	66.4	53.9	2.24	250	380
	1145	56C	2.75	11	74.0	73.5	70.0	69.0	59.0	46.0	3.44	160	220
	3500	56C	2.90	21	77.0	76.0	72.0	84.0	77.0	65.0	1.50	250	380
	1750	56C	2.80	24	85.5	85.0	83.0	78.0	68.8	55.0	2.99	280	380
1.0	1750	56/140TC	2.80	23	85.5	85.0	83.0	76.0	68.0	55.0	2.99	300	380
	1150	56/140TC	3.40	19.5	82.5	82.0	79.0	65.0	56.0	43.0	4.54	220	320
	3500	56/140TC	3.80	34	84.0	83.5	80.5	88.0	83.3	73.2	2.26	320	370
1.5	1750	56/140TC	4.20	33.5	86.5	85.5	83.0	77.5	70.0	58.0	4.51	280	350
	3525	56/140TC	5.20	52	85.5	84.2	81.0	82.8	78.0	66.0	3.00	300	400
2.0	1750	56/140TC	5.40	43	86.5	85.7	84.0	80.0	72.7	60.2	6.00	280	360
	3500	145TC	7.40	73.5	86.5	86.4	86.0	86.5	83.7	72.1	4.51	250	310
3.0	3525	182TC	7.00	70	86.5	86.0	84.0	92.6	89.0	84.0	4.478	250	310
	1760	182TC	8.00	66	89.5	89.0	87.0	79.0	74.6	63.0	8.96	230	350
	3500	184TC	11.4	105	88.5	88.5	87.5	93.0	90.5	85.5	7.50	220	350
5.0	1750	184TC	12.8	105	89.5	89.0	87.5	80.5	73.9	62.0	14.97	200	370
	3550	213TC	17.2	121	89.5	89.0	87.0	92.1	90.0	85.0	11.17	210	310
7.5	1770	213TC	18.6	110	91.7	91.0	90.3	82.0	76.0	66.0	22.38	180	300
	3550	215TC	22.4	172	90.2	90.1	89.2	92.0	87.5	80.5	22.4	180	250
10	1770	215TC	25.0	160	91.7	91.3	90.5	82.0	79.1	69.2	29.68	170	290

Totally Enclosed Non-Ventilated Enclosure Data

PERFORMANCE DATA

NEMA Premium Efficient – TEFC Enclosure Models with Prefix EH or TH

HP	Full	Frame	Full	Locked	EFF	ICIENCY		POV	VER FACT	OR	F.L.	Locked	Break- Down
	Load		Load	Rotor	Full	3/4	1/2	Full	3/4	1/2	Ft.	Rotor	%
	RPIVI		@	@ 230V	Load	Load	Load	Load	Load	Load	LDS.	%	
			230V										
7.5	1170	254T	20.2	127	91.7	92.0	91.5	77.0	72.0	61.5	33.6	200	240
10	1170	256T	26.4	162	91.7	92.1	91.7	79.0	74.5	65.0	44.9	200	240
	3510	254T/TC	34.8	226	91.0	91.2	90.9	89.0	91.8	88.1	22.1	185	275
15	1760	254T/TC	35.8	222	93.0	92.3	91.8	84.0	87.1	80.5	44.4	205	260
	1170	284T/TC	38.8	232	92.4	92.6	91.3	80.0	75.5	66.3	67.3	210	230
	3510	256T/TC	46.4	280	91.0	91.3	91.2	89.0	92.5	89.5	29.5	180	250
20	1760	256T/TC	47.4	288	93.0	92.6	92.2	85.0	87.8	81.8	59.2	210	250
	1170	286T/TC	51.0	290	92.4	92.8	91.5	81.0	78.0	70.0	89.8	210	225
	3520	284TS	56.8	336	91.7	92.0	91.8	90.0	93.2	91.3	36.8	165	225
25	1765	284T	57.6	334	93.6	93.2	92.8	87.0	88.3	82.9	73.9	185	245
	1175	324T	60.4	365	93.0	93.1	92.2	85.0	81.0	71.0	111.8	210	250
	3525	286TS	68.2	402	91.7	92.3	92.2	90.0	93.1	91.3	44.2	170	220
30	1765	286T	69.0	388	94.1	93.4	93.1	87.0	89.0	84.3	88.7	180	230
50	1175	326T	72.0	435	93.0	93.3	92.5	85.5	81.5	72.0	134.1	215	255
	3530	324TS	90.2	488	92.4	92.1	91.6	90.0	90.9	86.9	58.8	155	265
40	1770	324T	90.6	542	94.1	93.7	93.3	88.0	86.0	79.3	118.0	170	250
	1180	364T	96.0	580	94.5	94.7	93.7	84.0	82.0	75.0	178.1	200	220
	3550	326TS	112.0	598	93.0	92.8	92.4	90.0	91.4	87.9	73.5	155	255
50	1770	326T	112.6	680	94.5	94.0	93.7	88.0	87.2	80.1	147.5	175	250
	1180	365T	120.0	725	94.5	94.8	94.3	84.0	83.0	75.5	222.6	200	230
	3565	364TS	133.4	806	93.6	93.4	93.0	90.0	93.4	91.1	88.1	165	255
60	1770	364T	136.0	824	95.0	94.1	93.8	87.0	87.2	81.2	176.5	160	250
	1180	404T	148.0	870	95.0	95.1	94.3	82.0	79.5	72.0	267.1	200	240
	3565	365TS	166.8	958	93.6	93.8	93.6	90.0	93.2	91.1	110.1	165	240
75	1770	365T	169.4	1042	95.4	94.5	94.1	87.0	87.7	81.9	220.6	165	250
	1180	405T	181.0	1085	95.0	95.3	94.5	83.0	80.5	73.0	333.8	200	240
	3540	405TS	228.0	1450	94.5	94.5	93.4	88.0	87.0	82.5	148.4	160	240
100	1775	405T	226.0	1348	95.4	94.8	94.4	87.0	86.2	79.7	294.1	155	250
	1180	444T	242.0	1450	95.0	95.1	94.2	82.5	80.5	73.0	445.1	200	250
125	3550	444TS	290.0	1815	94.5	94.7	93.5	86.5	84.5	77.0	184.9	160	220
120	1775	444T	280.0	1656	95.4	95.0	94.7	88.0	89.5	85.0	367.2	165	240

NNECTION INFORMATION OF STERLING 3-PHASE T-FRAME MOTORS T SERIES	
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		PART INDING TART	/ HIGH /	N/A
		4 2 v	LOW V	#5
		TART	HIGH V	2#
	-RPM	Υ-Δ S	LOW V	9#
	1200	OSS LINE \RT	HIGH V	#4
		ACR THE ST/	LOW V	#3
		NUMBER OF LEADS		12
		RT DING ART	HIGH V	N/A
		PA WINI ST/	LOW V	45
		TART	HIGH <	47
	0-RPM	Υ-Δ S	LOW V	9#
EFC	180	LINE ART	HIGH >	#4
F		ACR THE ST/	LOW V	#3
		NUMBER OF LEADS		12
		RT DING ART	HIGH V	N/A
		A WIN ST,	LOW V	N/A
		TART	HIGH <	L#
	0-RPM	γ-Λ S	LOW V	9#
	360	ROSS LINE ART	HIGH V	#4
		ACF	LOW V	#3
		NUMBER OF LEADS		12
		₽		7.5 - 125

9#
 7.5-125
 12
 #3
 #4
 #6
 #7
 N/A
 N/A
 12
 #3
 #4

 NOTE: FOR SINGLE VOLTAGE 575V UNITS WITH 6-LEADS, REFER TO CONNECTION #10.

CONNECTION INFORMATION OF STERLING 3-PHASE T-FRAME MOTORS R, S, N, D AND X SERIES (TENV AND TEFC)

			360	D-RPM						1800	-RPM						1200	-RPM			
₽	NUMBER OF LEADS	ACR THE STA	OSS LLINE \RT	Υ-Δ S	TART	PA WINE STA	RT DING VRT	NUMBER OF LEADS	ACR	OSS LINE .RT	γ-Δ S	TART	PA WINE STA	RT DING VRT	NUMBER OF LEADS	ACR(THE L STA	SSS LINE RT	Υ-Δ ST	TART	PA WINE STA	RT ING RT
		LOW V	HIGH V	LOW V	HIGH	LOW V	HIGH V		LOW V	HIGH V	LOW V	HIGH <	LOW V	HIGH V		LOW V	HIGH V	LOW V	HIGH V	LOW V	HIGH V
0.33 - 0.75	6	#1	#2	N/A	N/A	N/A	N/A	6	#1	#2	N/A	N/A	N/A	N/A	6	#1	#2	N/A	N/A	N/A	N/A
1-5	6	#1	#2	N/A	N/A	N/A	N/A	6	#1	#2	N/A	N/A	N/A	N/A	6	#1	#2	N/A	N/A	N/A	N/A
7.5 - 10	6	#1	#2	N/A	N/A	N/A	N/A	6	#1	#2	N/A	N/A	N/A	N/A							

CONNECTION INFORMATION OF STERLING 1-PHASE T-FRAME MOTORS S, N, D AND X SERIES (TENV AND TEFC)

	ALI	L SPEEDS	
đ	NUMBER OF LEADS	ACRO: LINE 5	SS THE START
	- 1	LOW V	HIGH V
0.25 - 1.5	9	#12	#13
0.25 - 1.5	7	#14	#15

CONNECTION INFORMATION



ENGINEERING DATA

Bearing Sizes

FRAME	T-SERIES	T-SERIES	E-SERIES	E-SERIES	N,R-SERIES	N,R-SERIES	S,X,D-SERIES	S,X,D-SERIES
	7	8	7	8	7	8	7	8
56					6205ZZ*	6204ZZ	6205LL	6204LL
140T	6205LL	6205LL	6205ZZ	6205ZZ			6205LL	6204LL
180T	6206LL	6206LL	6207ZZ	6206ZZ			6306LL	6206LL**
210T	6208LL	6208LL	6308ZZ	6208ZZ			6308LL	6306LL
250T	6309LL	6309LL	6310ZZ	6208ZZ			6309LL	6309LL
280T	6311CLL	6311CLL	6310ZZ	6210ZZ			6311LL	6311LL
280TS	6311C3LL	6311C3LL	6310C3	6210C3			6311C3LL	6311C3LL
320T	6312C3	6312C3	6312ZZ	6212ZZ				
320TS	6312C3	6312C3	6312C3	6212C3				
360T	6314	6314	NU215	6312				
360TS	6314C3	6314C3	6312C3	6312C3				
400T	6316	6316	NU218	6313				
400TS	6316C3	6316C3	6313C3	6313C3				
440T	NU316	6316	NU220	6315				
440TS	6316C3	6316C3	6313C3	6313C3				

Inverter Rated Motors

In many instances, Sterling Electric's Premium Efficient NEMA design "B" motor is suitable for applications using solid state, variable frequency, variable voltage controllers (Inverters). To properly select a motor and the proper controller for an application, requires several pieces of information.

Type of Load:	Variable torque, constant torque, constant horsepower
Speed Variation Required:	High speed/low speed
Starting Torque Required:	Applications requiring NEMA design "C" high starting torque
	may need a special motor and controller design
Duty Cycle:	Hours per day, number of starts and stops, run time at low speeds
Over Hauling Loads:	Can the motor be driven (by the load) above synchronous speed, or in reverse
	direction ?
Coupling Method:	Direct coupled, sprocket, sheave, pinion/gear

Most variable torque applications with speed ranges of 10:1 (60Hz - 6 Hz), constant torque applications with speed ranges of 7:1 (60Hz - 8.5 Hz) or less, both with inverters that do not produce excessive peak voltages can be serviced by a Premium Efficient Sterling motor --- open drip proof or totally enclosed fan cooled enclosure --- depending upon the location and environment.

Use of standard motors on variable frequency, variable voltage controllers should be limited as follows:

- 1. Maximum total line distance between the controller and motor is not to exceed 50 Feet.
- 2. Maximum switching (carrier) frequency of the control is not to exceed 8 kHz.

3600 - RPM motors operating at lower frequencies can become unstable, noisy, and produce "cogging".

Small motors, such as the above will require varying degrees of voltage "boost" or "forcing" in order to produce rated torque at low frequency operation. Refer to NEMA MG1-1998, Part 31.

Note: The use of standard Sterling motors on high switching frequency, IGBT type inverters may void the warranty relating to winding and possible bearing failures. Inverter duty motors are recommended on Pages 10, 13, 15, 19, and 23 of this Catalog.

DANGER: The maximum allowable speed for these motors is not to exceed the values shown in the table listed below. Operating the motors beyond this speed can cause severe damage to both equipment and personnel. Consult factory for applications that require motor speeds beyond the values listed in the table or larger frame sizes.

Sterling Rolled Steel frame, Cast Iron frame and Stainless Steel frame motors (Model Prefixes NB, DB, SB, XB, DH or XH and TH) can withstand dielectric stresses of 1600 volts, peak voltage terminal to terminal with maximum .5 V/ns dv/dt* rate of rise with no noticeable adverse effect on the insulation system life.

For application Questions or Assistance Consult Factory





FRAME	А	В	с	D	E	2E	F*	2F	G	н	N-W	Р	R	S	U
56T	6.50	5.75	13.60	3.50	2.44	4.88	2.00	3.00	.10	.79 x .34	1.88	7.02	.517	.188	0.625
145T	6.96	6.10	13.85	3.50	2.75	5.50	1.00	4.00	.10	.79 x .34	2.25	7.02	.771	.188	0.875
182T	8.82	6.50	16.37	4.50	3.75	7.50	1.00	4.50	.15	.71 x .47	2.75	8.45	0.986	.250	1.125
184T	8.82	6.50	17.16	4.50	3.75	7.50	1.00	4.50	.15	.71 x .47	2.75	8.45	0.986	.250	1.125
213T	10.32	7.32	17.92	5.25	4.25	8.50	-	5.50	.20	.71 x .47	3.38	10.77	1.201	.31	1.375
215T	10.32	7.32	19.10	5.25	4.25	8.50	1.50	5.50	.20	.71 x .47	3.38	10.77	1.201	.31	1.375

*Alternate mounting on same base. ** All motors shown at longest frame length.

FRAME	AA	AB	AC	BA	BD	ES
56T	0.87	5.55	4.25	2.75	6.46	1.41
145T	0.87	5.59	4.25	2.25	6.46	1.41
145T	0.87	5.59	4.25	2.25	6.46	1.41
182T	1.10	6.50	5.17	2.75	7.67	1.78
184T	1.10	6.50	5.17	2.75	7.67	1.78
213T	1.10	7.68	6.38	3.50	10.07	2.41
215T	1.10	7.68	6.38	3.50	10.07	2.41

Dimensions subject to change without notice. Refer to factory for Certified drawing.

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TH – Series Motors (Frame 254-449T/TS)



Motor Mounting Dimensions **400 ABOVE USES SQUARE CAST FAN COVER**

FRAME	E	F	н	BA	A	В	с	D	G	J	0	Ρ	R	S	т	AA	AB	AC	N-W	U	D.E. BRG	O.D.E. BRG
254T	5.0	4.125	0.53	4.25	12.2	10.1	23.5	6.25	0.83	2.56	13.0	13.5	1.416	.375	2.4	1-1/4	11.0	8.6	4.00	1.625	6309	6309
256T	5.0	5.00	0.53	4.25	12.2	12.8	25.2	6.25	0.83	2.56	13.0	13.5	1.416	.375	2.4	1-1/4	11.0	8.6	4.00	1.625	6309	6309
284T	5.5	4.75	0.53	4.75	13.8	12.3	26.6	7.0	0.94	2.76	14.6	15	1.591	.500	2.4	1-1/2	13.4	10.0	4.62	1.875	6311	6311
284TS	5.5	4.75	0.53	4.75	13.8	12.3	25.2	7.0	0.94	2.76	14.6	15	1.416	.375	2.4	1-1/2	13.4	10.0	3.25	1.625	6311	6311
286T	5.5	5.50	0.53	4.75	13.8	13.8	28.1	7.0	0.94	2.76	14.6	15	1.591	.500	2.4	1-1/2	13.4	10.0	4.62	1.875	6311	6311
286TS	5.5	5.50	0.53	4.75	13.8	13.8	26.7	7.0	0.94	2.76	14.6	15	1.416	.375	2.4	1-1/2	13.4	10.0	3.25	1.625	6311	6311
324T	6.25	5.25	0.66	5.25	15.4	14.8	31.7	8.0	0.98	2.76	15.8	16.7	1.845	.500	2.5	2	15.0	10.9	5.25	2.125	6312	6312
324TS	6.25	5.25	0.66	5.25	15.4	14.8	30.2	8.0	0.98	2.76	15.8	16.7	1.591	.500	2.5	2	15.0	10.9	3.75	1.875	6312	6312
326T	6.25	6.00	0.66	5.25	15.4	16.3	33.3	8.0	0.98	2.76	15.8	16.7	1.845	.500	2.5	2	15.0	10.9	5.25	2.125	6312	6312
326TS	6.25	6.00	0.66	5.25	15.4	16.3	31.7	8.0	0.98	2.76	15.8	16.7	1.591	.500	2.5	2	15.0	10.9	3.75	1.875	6312	6312
364T	7.0	5.625	0.66	5.88	17.1	15.0	33.7	9.0	0.94	3.11	17.8	18.1	2.021	.625	2.5	3	17.5	12.9	5.88	2.375	6314	6314
364TS	7.0	5.625	0.66	5.88	17.1	15.0	31.5	9.0	0.94	3.11	17.8	18.1	1.591	.500	2.5	3	17.5	12.9	3.75	1.875	6314	6314
365T	7.0	6.125	0.66	5.88	17.1	17.4	37.1	9.0	0.94	3.11	17.8	18.1	2.021	.625	2.5	3	17.5	12.9	5.88	2.375	6314	6314
365TS	7.0	6.125	0.66	5.88	17.1	16.2	34.9	9.0	0.94	3.11	17.8	18.1	1.591	.500	2.5	3	17.5	12.9	3.75	1.875	6314	6314
404T	8.0	6.125	0.81	6.62	20.0	19.0	37.8	10.0	1.18	3.15	20.1	20.3	2.45	.750	2.5	3	18.8	12.2	7.25	2.875	6316	6316
404TS	8.0	6.125	0.81	6.62	20.0	19.0	34.8	10.0	1.18	3.15	20.1	20.3	1.845	.500	2.5	3	18.8	12.2	4.25	2.125	6316	6316
405T	8.0	6.875	0.81	6.62	20.0	19.0	39.2	10.0	1.18	3.15	20.1	20.3	2.45	.750	2.5	3	18.8	12.2	7.25	2.875	6316	6316
405TS	8.0	6.125	0.81	6.62	20.0	19.0	36.2	10.0	1.18	3.15	20.1	20.3	1.845	.500	2.5	3	18.8	12.2	4.25	2.125	6316	6316
444T	9.0	7.25	0.81	7.5	21.7	20.0	45.1	11.0	1.38	3.46	22.5	23.1	2.88	.875	3.7	3	19.7	14.8	8.50	3.375	NU318	NU318
444TS	9.0	8.25	0.81	7.5	21.7	20.0	41.4	11.0	1.38	3.46	22.5	23.1	2.021	.625	3.7	3	19.7	14.8	4.75	2.375	6316	6316
445T	9.0	8.25	0.81	7.5	21.7	20.0	45.1	11.0	1.38	3.46	22.5	23.1	2.88	.875	3.7	3	19.7	14.8	8.50	3.375	NU318	NU318
445TS	9.0	8.25	0.81	7.5	21.7	20.0	41.4	11.0	1.38	3.46	22.5	23.1	2.021	.625	3.7	3	19.7	14.8	4.75	2.375	6316	6316
447T	9.0	10.0	0.81	7.5	21.7	28.0	53.6	11.0	1.38	3.46	22.5	23.1	2.88	.875	3.7	3	19.7	14.8	8.50	3.375	NU320	NU320
447TS	9.0	12.5	0.81	7.5	21.7	28.0	50.0	11.0	1.38	3.46	22.5	23.1	2.021	.625	3.7	3	19.7	14.8	4.75	2.375	6316	6316
449T	9.0	12.5	0.81	7.5	21.7	28.0	53.6	11.0	1.38	3.46	22.5	23.1	2.88	.875	3.7	3	19.7	14.8	8.50	3.375	NU320	NU320
449TS	9.0	12.5	0.81	7.5	21.7	28.0	50.0	11.0	1.38	3.46	22.5	23.1	2.021	.625	3.7	3	19.7	14.8	4.75	2.375	6316	6316







 Motor C-Face Mounting Dimensions **400 ABOVE USES SQUARE CAST FAN COVER**

 FRAME
 AJ
 AK
 BA
 BB MIN
 BD MAX
 # OF TAPS
 THREAD
 DEPTH OF TAP
 U
 AH
 R
 ES
 S

 254TC.2561C
 7.25
 8.50
 4.25
 .25
 9.00
 4
 1/2-13
 0.75
 1.625
 3.75
 1.416
 2.91
 0.375

 284TC.266TC
 9.00
 10.50
 4.75
 .25
 11.25
 4
 1/2-13
 0.75
 1.825
 3.00
 1.416
 1.91
 0.375

 284TC.286TC
 9.00
 10.50
 4.75
 .25
 11.25
 4
 1/2-13
 0.75
 1.625
 3.00
 1.416
 1.91
 0.375

 284TC.286TSC
 9.00
 12.50
 5.25
 12.5
 4
 1/2-13
 0.75
 1.625
 3.00
 1.416
 1.91
 0.375

 324TC.386TSC
 11.00
 12.50
 5.25
 12.5
 4
 5/8-11
 0.94
 2.125
 5.00
 1.865

2841SC.2861SC	9.00	10.50	4./5	.25	11.25	4	1/2-13	0.75	1.625	3.00	1.416	1.91	0.3/5
324TC.326TC	11.00	12.50	5.25	.25	14.00	4	5/8-11	0.94	2.125	5.00	1.845	3.91	0.500
324TSC.326TSC	11.00	12.50	5.25	.25	14.00	4	5/8-11	0.94	1.875	3.50	1.591	2.03	0.500
364TC.365TC	11.00	12.50	5.88	.25	14.00	8	5/8-11	0.94	2.375	5.62	2.021	4.28	0.625
364TSC.365TSC	11.00	12.50	5.88	.25	14.00	8	5/8-11	0.94	1.875	3.50	1.591	2.03	0.500
404TC.405TC	11.00	12.50	6.62	.25	15.50	8	5/8-11	0.94	2.875	7.00	2.45	5.65	0.750
404TSC.405TSC	11.00	12.50	6.62	.25	15.50	8	5/8-11	0.94	2.125	4.00	1.845	2.78	0.500
444TC.445TC	14.00	16.00	7.50	.25	18.00	8	5/8-11	0.94	3.375	8.25	2.88	6.91	0.875
444TSC.445TSC	14.00	16.00	7.50	.25	18.00	8	5/8-11	0.94	2.375	4.50	2.021	3.03	0.625
447TC.449TC	14.00	16.00	7.50	.25	18.00	8	5/8-11	0.94	3.375	8.25	2.88	6.91	0.875
447TSC.449TSC	14.00	16.00	7.50	.25	18.00	8	5/8-11	0.94	2.375	4.50	2.021	3.03	0.625
4041C.4051C 404TSC.405TSC 444TSC.445TC 444TSC.445TSC 447TSC.449TSC	11.00 11.00 14.00 14.00 14.00 14.00	12.50 12.50 16.00 16.00 16.00 16.00	6.62 7.50 7.50 7.50 7.50 7.50	.25 .25 .25 .25 .25 .25 .25	15.50 15.50 18.00 18.00 18.00 18.00	8 8 8 8 8 8	5/8-11 5/8-11 5/8-11 5/8-11 5/8-11 5/8-11	0.94 0.94 0.94 0.94 0.94 0.94 0.94	2.875 2.125 3.375 2.375 3.375 2.375	4.00 8.25 4.50 8.25 4.50	2.45 1.845 2.88 2.021 2.88 2.021	2.78 6.91 3.03 6.91 3.03	0.730 0.500 0.875 0.625 0.875 0.625

C-Face TENV Rolled Steel Motors













HP	RPM	FRAME	А	В	с	D	E	2E	F*	2F	G	н	N-W	Р	R	s	U
0.50	3600 1800	56C	6.50	3.75	9.60	3.50	2.44	4.88	2	3.00	.10	.79 x .34	1.88	6.50	.517	.188	.625
0.75	3600 1800	56C	6.50	3.75 5.75	9.60 10.19	3.50	2.44	4.88	2.00	3.00	.10	.79 x .34	1.88	6.50	.517	.188	.625

^{*}Alternate mounting on same base.

HP	RPM	FRAME	AA	AB	AC	AG	АН	AJ	AK	BA	BB	BD	BF	BV	ES
0.50	3600 1800	56C	.87	5.53	4.25	7.54	2.06	5.88	4.50	2.75	.16	6.50	3/8-16	5.06	1.41
0.75	3600 1800	56C	.87	5.53	4.25	7.54 8.13	2.06	5.88	4.50	2.75	.16	6.50	3/8-16	5.06 5.65	1.41

Dimensions subject to change without notice. Refer to factory for Certified drawing.

C-Face Rolled Steel Motors Frame (56C-145TC)









HP	RPM	FRAME	А	В	с	D	E	2E	F*	2F	G	н	N-W	Р	R	s	U
10	3600 1800	56C	6.50	3.74 5.75	11.37 11.96	3.50	2.44	4.88	2.00	3.00	.10	.79 x .34	1.88	7.02	.517	.188	.625
1.0	3600 1800	143TC	6.96	6.10	12.02	3.50	2.75	5.50	1.00	4.00	.10	.79 x .34	2.25	7.02	.771	.188	.875
1.5	3600 1800	56C	6.50	5.75	12.36	3.50	2.44	4.88	2.00	3.00	.10	.79 x .34	1.88	7.02	.517	.188	.625
1.5	3600 1800	145TC	6.96	6.10	12.42 13.01	3.50	2.75	5.50	1.00	4.00	.10	.79 x .34	2.25	7.02	.771	.188	.875
	3600 1800	56C	6.50	5.75	12.95	3.50	2.44	4.88	2.00	3.00	.10	.79 x .34	1.88	7.02	.517	.188	.625
2.0	3600 1800	145TC	6.96	6.10	13.01 13.60	3.50	2.75	5.50	1.00	4.00	.10	.79 x .34	2.25	7.02	.771	.188	.875

*Alternate mounting on same base.

HP	RPM	FRAME	AA	AB	AC	AG	AH	AJ	AK	BA	BB	BD	BF	BV	ES
	3600 1800	56C	.87	5.55	4.25	9.31 9.9	2.06	5.88	4.50	2.75	.16	6.50	3/8-16	5.06 5.65	1.41
1.0	3600 1800	143TC	.87	5.55	4.25	9.90	2.12	5.88	4.50	2.75	.16	6.50	3/8-16	5.65	1.41
1.5	3600 1800	56C	.87	5.55	4.25	10.30	2.06	5.88	4.50	2.75	.16	6.50	3/8-16	6.05	1.41
1.5	3600 1800	145TC	.87	5.55	4.25	10.30	2.12	5.88	4.50	2.75	.16	6.50	3/8-16	6.05	1.41
	3600 1800	56C	.87	5.55	4.25	10.89	2.06	5.88	4.50	2.75	.16	6.50	3/8-16	6.64	1.41
2.0	3600	145TC	.87	5.55	4.25	10.89	2.12	5.88	4.50	2.75	.16	6.50	3/8-16	6.64	1.41

C-Face Rolled Steel Motors Frame (182-215TC)











FRAME	A	В	с	D	E	2E	F*	2F	G	н	N-W	Р	R	s	U
182TC	8.82	6.50	16.37	4.50	3.75	7.50	1.00	4.50	.15	.71 x .47	2.75	8.45	0.986	.250	1.125
184TC	8.82	6.50	17.16	4.50	3.75	7.50	1.00	4.50	.15	.71 x .47	2.75	8.45	0.986	.250	1.125
213TC	10.32	7.32	18.51	5.25	4.25	8.50	120	5.50	.20	.71 x .47	3.38	10.77	1.201	.31	1.375
215TC	10.32	9.30	19.10	5.25	4.25	8.50	1.50	5.50	.20	.71 x .47	3.38	10.77	1.201	.31	1.375

*Alternate mounting on same base. ** All motors shown at longest frame length

FRAME	AA	AB	AC	AG	АН	AJ	AK	BA	BB	BD	BF	BV	ES
182TC	1.10	6.50	5.17	12.97	2.62	7.25	8.50	3.50	.25	8.86	1/2-13	8.08	1.78
184TC	1.10	6.50	5.17	13.75	2.62	7.25	8.50	3.50	.25	8.86	1/2-13	8.67	1.78
213IC	1.10	7.68	6.38	14.80	3.12	7.25	8.50	4.25	.25	9.00	1/2-13	9.33	2.41
215TC	1.10	7.68	6.38	15.98	3.12	7.25	8.50	4.25	.25	9.00	1/2-13	10.50	2.41



FRAME	AJ	AK	BB MIN	BD MAX	# TAPS	THREAD	TAP DEPTH	с	Р	U	АН	R	ES	S	т	AA	AB	AC	N-W	D.E.	O.D.E.
DEATC	7.05	0.50	0.25	9.00		1/2.12	0.75	22.6	127	1 (25	2.75	1 414	2.01	0.275	24	1.1.4	11.0	0 /	4.00	BRG	BRG
25410	7.25	0.50	0.25	7.00	4	1/2-13	0.75	23.3	10.0	1.025	0.75	1.410	2.71	0.375	2.4	1-1/4	11.0	0.0	4.00	6307	(200
23610	7.23	0.00	0.25	9.00	4	1/2-13	0.75	23.2	15.0	1.623	3.75	1.416	2.71	0.373	2.4	1-1/4	10.4	0.0	4.00	6307	6307
28410	9.00	10.50	0.25	11.25	4	1/2-13	0.75	26.6	15.1	1.8/5	4.38	1.591	3.28	0.500	2.4	1-1/2	13.4	10.0	4.62	6311	6311
28413C	9.00	10.50	0.25	11.25	4	1/2-13	0.75	23.2	15.1	1.620	3.00	1.416	1.91	0.375	2.4	1-1/2	13.4	10.0	3.23	6311	6311
2861C	9.00	10.50	0.25	11.25	4	1/2-13	0.75	28.1	15.1	1.8/5	4.38	1.591	3.28	0.500	2.4	1-1/2	13.4	10.0	4.62	6311	6311
2861SC	9.00	10.50	0.25	11.25	4	1/2-13	0.75	26.7	15.1	1.625	3.00	1.416	1.91	0.3/5	2.4	1-1/2	13.4	10.0	3.25	6311	6311
324TC	11.00	12.50	0.25	14.00	4	5/8-11	0.94	31.7	16./	2.125	5.00	1.845	3.91	0.500	2.5	2	15.0	10.9	5.25	6312	6312
3241SC	11.00	12.50	0.25	14.00	4	5/8-11	0.94	30.2	16./	1.875	3.50	1.591	2.03	0.500	2.5	2	15.0	10.9	3.75	6312	6312
326TC	11.00	12.50	0.25	14.00	4	5/8-11	0.94	33.3	16.7	2.125	5.00	1.845	3.91	0.500	2.5	2	15.0	10.9	5.25	6312	6312
326TSC	11.00	12.50	0.25	14.00	4	5/8-11	0.94	31.7	16.7	1.875	3.50	1.591	2.03	0.500	2.5	2	15.0	10.9	3.75	6312	6312
364TC	11.00	12.50	0.25	14.00	8	5/8-11	0.94	33.7	18.1	2.375	5.62	2.021	4.28	0.625	2.5	3	17.5	12.9	5.88	6314	6314
364TSC	11.00	12.50	0.25	14.00	8	5/8-11	0.94	31.5	18.1	1.875	3.50	1.591	2.03	0.500	2.5	3	17.5	12.9	3.75	6314	6314
365TC	11.00	12.50	0.25	14.00	8	5/8-11	0.94	37.1	18.1	2.375	5.62	2.021	4.28	0.625	2.5	3	17.5	12.9	5.88	6314	6314
365TSC	11.00	12.50	0.25	14.00	8	5/8-11	0.94	34.9	18.1	1.875	3.50	1.591	2.03	0.500	2.5	3	17.5	12.9	3.75	6314	6314
404TC	11.00	12.50	0.25	15.50	8	5/8-11	0.94	37.8	20.3	2.875	7.00	2.45	5.65	0.750	2.5	3	18.8	12.2	7.25	6316	6316
404TSC	11.00	12.50	0.25	15.50	8	5/8-11	0.94	34.8	20.3	2.125	4.00	1.845	2.78	0.500	2.5	3	18.8	12.2	4.25	6316	6316
405TC	11.00	12.50	0.25	15.50	8	5/8-11	0.94	39.2	20.3	2.875	7.00	2.45	5.65	0.750	2.5	3	18.8	12.2	7.25	6316	6316
405TSC	11.00	12.50	0.25	15.50	8	5/8-11	0.94	36.2	20.3	2.125	4.00	1.845	2.78	0.500	2.5	3	18.8	12.2	4.25	6316	6316
444TC	14.00	16.00	0.25	18.00	8	5/8-11	0.94	45.1	23.1	3.375	8.25	2.88	6.91	0.875	3.7	3	19.7	14.8	8.50	NU318	NU318
444TSC	14.00	16.00	0.25	18.00	8	5/8-11	0.94	41.4	23.1	2.375	4.50	2.021	3.03	0.625	3.7	3	19.7	14.8	4.75	6316	6316
445TC	14.00	16.00	0.25	18.00	8	5/8-11	0.94	45.1	23.1	3.375	8.25	2.88	6.91	0.875	3.7	3	19.7	14.8	8.50	NU318	NU318
445TSC	14.00	16.00	0.25	18.00	8	5/8-11	0.94	41.4	23.1	2.375	4.50	2.021	3.03	0.625	3.7	3	19.7	14.8	4.75	6316	6316
447TC	14.00	16.00	0.25	18.00	8	5/8-11	0.94	53.6	23.1	3.375	8.25	2.88	6.91	0.875	3.7	3	19.7	14.8	8.50	NU320	NU320
447TSC	14.00	16.00	0.25	18.00	8	5/8-11	0.94	50.0	23.1	2.375	4.50	2.021	3.03	0.625	3.7	3	19.7	14.8	4.75	6316	6316
449TC	14.00	16.00	0.25	18.00	8	5/8-11	0.94	53.6	23.1	3.375	8.25	2.88	6.91	0.875	3.7	3	19.7	14.8	8.50	NU320	NU320
449TSC	14.00	16.00	0.25	18.00	8	5/8-11	0.94	50.0	23.1	2.375	4.50	2.021	3.03	0.625	3.7	3	19.7	14.8	4.75	6316	6316





SHAFT	DETAILS	
JUNIT	DEIAILO	

FRAME	A	В	с	D	E	2E	F*	2F	G	н	Ρ	R	S	U	AA	AB	AC	BA	ES	N-W
143T	6.96	6.10	12.82	3.50	2.75	5.50	1.00	4.00	.10	.79 x .34	7.18	0.771	.188	.875	.87	5.55	4.29	2.25	1.41	2.25
145T	6.96	6.10	13.80	3.50	2.75	5.50	1.00	4.00	.10	.79 x .34	7.18	0.771	.188	.875	.87	5.55	4.29	2.25	1.41	2.25
182T	8.82	6.50	17.05	4.50	3.75	7.50	1.00	4.50	.15	.71 x .47	8.82	0.986	.250	1.125	1.10	6.50	5.17	2.75	1.78	2.75
184T	8.82	6.50	17.05	4.50	3.75	7.50	1.00	4.50	.15	.71 x .47	8.82	0.986	.250	1.125	1.10	6.50	5.17	2.75	1.78	2.75
213T	10.32	7.32	18.97	5.25	4.25	8.50	1.21	5.50	.20	.71 x .47	11.18	1.201	.312	1.375	1.10	7.68	6.38	3.50	2.41	3.38
215T	10.32	7.32	20.05	5.25	4.25	8.50	1.50	5.50	.20	.71 x .47	11.18	1.201	.312	1.375	1.10	7.68	6.38	3.50	2.41	3.38

*Alternate mounting on same base.

	BRAKE INFO														
FRAME	FT. LB.	STANDARD ENCLOSURE	XC*	XL	XP	WT/DT ENCLOSURE	XC*	XL	XP						
B140T	3	56,000 SERIES	2.94	4.06	6.54	56,000 SERIES	2.94	4.06	6.54						
B140T	6	56,000 SERIES	2.94	4.06	6.54	56,000 SERIES	2.94	4.06	6.54						
B140T	10	56,000 SERIES	2.94	4.06	6.54	56,000 SERIES	2.94	4.06	6.54						
B140/180T	15	56,000 SERIES	2.94	4.06	6.54	56,000 SERIES	2.94	4.06	6.54						
B180T	25	56,000 SERIES	2.94	4.50	6.54	56,000 SERIES	2.94	4.51	6.54						
B210T	25	87,000 SERIES	4.63	7.57	9.00	87,000 SERIES	4.69	7.75	9.00						
B210T	35	87,000 SERIES	4.63	7.57	9.00	87,000 SERIES	4.69	7.75	9.00						
B210T	50	87,000 SERIES	4.63	8.07	9.00	87,000 SERIES	4.69	8.25	9.00						

*Clearance required to remove brake cover. All brake dimensions given are with Stearns Brakes.

Dimensions subject to change without notice. Refer to factory for Certified drawing. ** All motors shown at longest frame length

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BRAKE INFO														
FRAME	FT. LB.	STANDARD ENCLOSURE	XC*	XL	XP	WT/DT ENCLOSURE	XC*	XL	XP					
B140TC	3	56,000 SERIES	2.94	4.06	6.54	56,000 SERIES	2.94	4.06	6.54					
B140TC	6	56,000 SERIES	2.94	4.06	6.54	56,000 SERIES	2.94	4.06	6.54					
B140TC	10	56,000 SERIES	2.94	4.06	6.54	56,000 SERIES	2.94	4.06	6.54					
B140/180TC	15	56,000 SERIES	2.94	4.06	6.54	56,000 SERIES	2.94	4.06	6.54					
B180TC	25	56.000 SERIES	2.94	4.50	6.54	56,000 SERIES	2.94	4.51	6.54					
B210TC	25	87,000 SERIES	4.63	7.57	9.00	87,000 SERIES	4.69	7.75	9.00					
B210TC	35	87,000 SERIES	4.63	7.57	9.00	87,000 SERIES	4.69	7.75	9.00					
B210TC	50	87,000 SERIES	4.63	8.07	9.00	87,000 SERIES	4.69	8.25	9.00					

*Clearance required to remove brake cover. All brake dimensions given are with Stearns Brakes.

Dimensions subject to change without notice. Refer to factory for Certified drawing. ** All motors shown at longest frame length

AH

BB

ES







56TC-140TC



182TC-215TC

FRAME	с	Р	R	S	U	AA	AB	AC	AH	AJ	AK	BB	BD	BF	ES	N-W
143TC	13.81	7.18	0.771	.188	.875	.87	5.55	4.29	2.12	5.88	4.50	.16	6.50	3/8-16	1.41	2.25
145TC	15.00	7.18	0.771	.188	.875	.87	5.55	4.29	2.12	5.88	4.50	.16	6.50	3/8-16	1.41	2.25
182TC	17.00	8.82	0.986	.250	1.125	1.10	6.50	5.17	2.62	7.25	8.50	.25	8.86	1/2-13	1.78	2.75
184TC	17.85	8.82	0.986	.250	1.125	1.10	6.50	5.17	2.62	7.25	8.50	.25	8.86	1/2-13	1.78	2.75
213TC	19.55	11.18	1.201	.312	1.375	1.10	7.68	6.38	3.12	7.25	8.50	.25	9.00	1/2-13	2.41	3.38
215TC	20.05	11.18	1.201	.312	1.375	1.10	7.68	6.38	3.12	7.25	8.50	.25	9.00	1/2-13	2.41	3.38

	BRAKE INFO														
FRAME	FT. LB.	STANDARD ENCLOSURE	XC*	XL	XP	WT/DT ENCLOSURE	XC*	XL	XP						
B140TC	3	56,000 SERIES	2.94	4.06	6.54	56,000 SERIES	2.94	4.06	6.54						
B140TC	6	56,000 SERIES	2.94	4.06	6.54	56,000 SERIES	2.94	4.06	6.54						
B140TC	10	56,000 SERIES	2.94	4.06	6.54	56,000 SERIES	2.94	4.06	6.54						
B140/180TC	15	56,000 SERIES	2.94	4.06	6.54	56,000 SERIES	2.94	4.06	6.54						
B180TC	25	56,000 SERIES	2.94	4.50	6.54	56,000 SERIES	2.94	4.51	6.54						
B210TC	25	87,000 SERIES	4.63	7.57	9.00	87,000 SERIES	4.69	7.75	9.00						
B210TC	35	87,000 SERIES	4.63	7.57	9.00	87,000 SERIES	4.69	7.75	9.00						
B210TC	50	87,000 SERIES	4.63	8.07	9.00	87,000 SERIES	4.69	8.25	9.00						

*Clearance required to remove brake cover. All brake dimensions given are with Stearns Brakes.

Dimensions subject to change without notice. Refer to factory for Certified drawing. ** All motors shown at longest frame length

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Stainless Steel C-Face TENV Motors





SHAFT DETAILS







POLES FRAME F* U HP А В С D Е 2E 2F G н N-W Ρ R S 2 4 0.33 56C 6.50 3.75 9.52 3.50 2.44 4.88 3.00 .10 .79 x .34 1.88 6.50 .517 .188 .625 3.75 5.75 9.52 10.20 2 4 0.50 56C 6.50 3.50 2.44 4.88 2.00 3.00 .10 .79 x .34 1.88 6.50 .517 .188 .625 0.75 2 4 56C 6.50 5.75 10.20 .79 x .34 .625 3.50 2.44 4.88 2.00 3.00 .10 1.88 6.50 .517 .188 24 1.00 6.50 5.75 11.18 3.50 2.44 4.88 2.00 3.00 .10 .19 x .34 1.88 6.50 .517 .188 .625 56C

*Alternate mounting on same base.

HP	RPM	FRAME	AA	AB	AC	AG	AH	AJ	AK	BA	BB	BD	BF	BV	ES
0.33	2 4	56C	.87	5.53	4.25	7.46	2.06	5.88	4.50	2.75	.16	6.50	3/8-16	4.55	1.41
0.50	2 4	56C	.87	5.55	4.25	7.46 8.14	2.06	5.88	4.50	2.75	.16	6.50	3/8-16	4.55 5.65	1.41
0.75	2 4	56C	.87	5.55	4.25	8.14 9.12	2.06	5.88	4.50	2.75	.16	6.50	3/8-16	5.65 6.04	1.41
1.00	2	56C	.87	5.55	4.25	9.12	2.06	5.88	4.50	2.75	.16	6.50	3/8-16	6.04	1.41



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FOOTLESS





HP	POLES	FRAME	А	В	с	D	E	2E	F≈	2F	G	н	N-W	P	R	S	U
	2 4	56C	6.50	6.10	12.24	3.50	2.44	4.88	2.00	3.00	.10	.79 x .34	1.88	7.00	.517	.188	.625
1.0	2 4	143TC	6.96	6.10	12.34	3.50	2.75	5.50	1.00	4.00	.10	.79 x .34	2.25	7.02	.771	.188	.875
	2 4	56C	6.50	6.10	13.54	3.50	2.44	4.88	2.00	3.00	.10	.79 x .34	1.88	7.00	.517	.188	.625
1.5	2 4	145TC	6.96	6.10	13.60	3.50	2.75	5.50	1.00	4.00	.10	.79 x .34	2.25	7.02	.771	.188	.875
	2 4	56C	6.50	6.10	13.91	3.50	2.44	4.88	2.00	3.00	.10	.79 x .34	1.88	7.00	.517	.188	.625
2.0	2 4	145TC	6.96	6.10	13.97	3.50	2.75	5.50	1.00	4.00	.10	.79 x .34	2.25	7.02	.771	.188	.875

*Alternate mounting on same base. ** All motors shown at longest frame length.

HP	POLES	FRAME	AA	AB	AC	AG	AH	AJ	AK	BA	BB	BD	BF	BV	ES
	2 4	56C	.87	5.53	4.25	10.18	2.06	5.88	4.50	2.75	.16	6.50	3/8-16	7.71	1.41
1.0	2 4	143TC	.87	5.55	4.25	10.22	2.12	5.88	4.50	2.75	.16	6.50	3/8-16	5.93	1.41
	2 4	56C	.87	5.55	4.25	11.48	2.06	5.88	4.50	2.75	.16	6.50	3/8-16	7.71	1.41
1.5	2 4	145TC	.87	5.55	4.25	11.48	2.12	5.88	4.50	2.75	.16	6.50	3/8-16	6.32	1.41
	2 4	56C	.87	5.55	4.25	11.85	2.06	5.88	4.50	2.75	.16	6.50	3/8-16	6.04	1.41
2.0	2	145TC	.87	5.55	4.25	11.85	2.12	5.88	4.50	2.75	.16	6.50	3/8-16	6.91	1.41

Stainless Steel C-Face TEFC Motors Frame (182TC-286TC) 43









S

FRAME	Α	В	С	D	E	2E	F*	2F	G	н	N-W	P	R	5	U
182TC	8.82	6.50	16.57	4.50	3.75	7.50	1.00	4.50	.15	.71 x .47	2.75	8.45	0.986	.250	1.125
184TC	8.82	6.50	17.36	4.50	3.75	7.50	1.00	4.50	.15	.71 x .47	2.75	8.45	0.986	.250	1.125
213TC	10.32	7.32	17.92	5.25	4.25	8.50	-	5.50	.20	.71 x .47	3.38	10.77	1.201	.31	1.375
215TC	10.32	9.30	19.21	5.25	4.25	8.50	1.50	5.50	.20	.71 x .47	3.38	10.77	1.201	.31	1.375
254TC	11.18	9.53	24.00	6.25	5.00	10.00		8.25	.47	Ø.53	4.01	12.36	1.416	.38	1.625
254TC	11.18	11.28	25.40	6.25	5.00	10.00	-	10.00	.47	Ø.53	4.01	12.36	1.416	.38	1.625
284TC	12.20	11.08	27.00	7.00	5.50	11.00	14	9.50	.78	Ø.53	4.62	14.00	1.519	.50	1.875
284TSC	12.20	11.08	25.60	7.00	5.50	11.00	-	9.50	.78	Ø.53	3.25	14.00	1.416	.38	1.625
286TC	12.20	12.57	28.00	7.00	5.50	11.00		11.00	.78	Ø.53	4.62	14.00	1.519	.50	1.875
286TSC	12.20	12.57	26.60	7.00	5.50	11.00	12	11.00	78	0 53	3.25	14.00	1.416	38	1.625

*Alternate mounting on same base. ** All motors shown at longest frame length.

FRAME	AA	AB	AC	AG	AH	AJ	AK	BA	BB	BD	BF	BV	ES
182TC	1.10	6.50	5.17	13.95	2.62	7.25	8.50	3.50	.25	8.86	1/2-13	8.28	1.78
184TC	1.10	6.50	5.17	14.74	2.62	7.25	8.50	3.50	.25	8.86	1/2-13	8.87	1.78
213IC	1.10	7.68	6.38	14.80	3.12	7.25	8.50	4.25	.25	9.00	1/2-13	9.33	2.41
215TC	1.10	7.68	6.38	16.09	3.12	7.25	8.50	4.25	.25	9.00	1/2-13	10.50	2.41
254TC	1.43	9.84	8.00	20.07	3.75	7.25	8.50	4.75	.25	11.85	1/2-13	12.01	2.91
254TC	1.43	9.84	8.00	21.38	3.75	7.25	8.50	4.75	.25	11.85	1/2-13	13.58	2.91
284TC	2.04	11.42	9.2	22.38	4.62	9.00	10.50	4.75	.25	13.27	1/2-13	13.8	3.28
284TSC	2.04	11.42	9.2	22.38	3.25	9.00	10.50	4.75	.25	13.27	1/2-13	13.8	1.91
286TC	2.04	11.42	9.2	23.38	4.62	9.00	10.50	4.75	.25	13.27	1/2-13	14.0	3.28
286TSC	2.04	11.42	9.2	23.38	3.25	9.00	10.50	4.75	.25	13.27	1/2-13	14.0	1.91





SHAFT DETAILS



FRAME	A	В	с	D	E	2E	F*	2F	G	н	P	R	S	U	AA	AB
143JM	6.97	6.10	14.48	3.50	2.75	5.50	1.00	4.00	.10	.79 x .34	6.79	.771	.188	.8745	0.87	5.58
145JM	6.97	6.10	16.83	3.50	2.75	5.50	1.00	4.00	.10	.79 x .34	6.79	.771	.188	.8745	0.87	5.58
182JM	8.82	6.50	18.20	4.50	3.75	7.50	1.00	4.50	.10	.71 x .47	8.45	.771	.188	.8745	1.10	6.48
184JM	8.82	6.50	18.99	4.50	3.75	7.50	1.00	4.50	.10	.71 x .47	8.45	.771	.188	.8745	1.10	6.48

*Alternate mounting on same base. ** All motors shown at longest frame length.

FRAME	AC	AG	AH	AJ	AK	BA	BB	BD	BF	BV	EL	EM	EN	EQ	ES	ET
143JM	4.25	10.23	4.25	5.88	4.50	3.06	.16	6.50	3/8-16	5.93	1.156	1.00	3/8-16	.625	1.65	2.88
145JM	4.25	11.8	4.25	5.88	4.50	3.06	.16	6.50	3/8-16	8.29	1.156	1.00	3/8-16	.625	1.65	2.88
182JM	5.18	13.95	4.25	5.88	4.50	3.66	.16	6.50	3/8-16	8.62	1.250	1.00	3/8-16	.625	1.65	2.88
184JM	5.18	14.74	4.25	5.88	4.50	3.66	.16	6.50	3/8-16	9.6	1.250	1.00	3/8-16	.625	1.65	2.88

ØBD

ØAK

(4) BF

b

1

L_G



FRAME	A	В	с	D	E	2E	F*	2F	G	н	Р	R	S	U	AA	AB
213JM	10.32	7.32	19.2	5.25	4.25	8.50	70	5.47	.16	.71 x .44	10.77	.771	.188	.8745	1.10	7.68
215JM	10.32	9.29	20.4	5.25	4.25	8.50	1.50	5.47	.16	.71 x .44	10.77	.771	.188	.8745	1.10	7.68
254JM	11.20	9.43	25.25	6.25	5.00	10.00	2	8.25	.60	Ø0.53	12.50	1.112	.250	1.2495	1.40	9.24
256JM	11.20	11.18	26.9	6.25	5.00	10.00		10.00	.60	Ø0.53	12.50	1.112	.250	1.2495	1.40	9.24
284JM	12.20	11.00	27.6	7.00	5.50	11.00	-	9.50	.78	Ø0.53	14.0	1.112	.250	1.2495	2.04	11.4
286JM	12.20	12.57	29.5	7.00	5.50	11.00	ā	11.00	.78	Ø0.53	14.0	1.112	.250	1.2495	2.04	11.4

*Alternate mounting on same base. **All motors shown at longest frame length.

FRAME	AC	AG	AH	AJ	AK	BA	BB	BD	BF	BV	EL	EM	EN	EQ	ES	ET
213JM	6.38	14.8	4.25	7.25	8.50	5.14	.25	9.00	1/2-13	9.32	1.250	1.00	3/8-16	.625	1.65	2.88
215JM	6.38	16.9	4.25	7.25	8.50	5.14	.25	9.00	1/2-13	10.51	1.250	1.00	3/8-16	.625	1.65	2.88
254JM	7.7	20.0	5.25	7.25	8.50	5.01	.25	11.73	1/2-13	12.5	1.750	1.375	1/2-13	.625	2.53	3.00
256JM	7.7	21.6	5.25	7.25	8.50	5.64	.25	11.73	1/2-13	13.77	1.750	1.375	1/2-13	.625	2.53	3.00
284JM	9.3	22.35	5.25	11.00	12.5	5.64	.25	13.27	5/8-11	13.8	1.750	1.375	1/2-13	.625	2.53	3.00
286JM	9.3	24.25	5.25	11.00	12.5	5.64	.25	13.27	5/8-11	14.0	1.750	1.375	1/2-13	.625	2.53	3.00

46 Notes



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CONDITIONS OF SALE

Acceptance of your order is subject to the following terms and conditions as well as the condition of sale stated in the Price Book, which may not be superseded or modified in any manner by the terms of your purchase order unless specifically agreed to in writing by Sterling Electric, Inc. ("the Company");

1. WARRANTY - The Company warrants that all of its own manufactured products will be of the kind and quality described in the specifications established at time of purchase, and no other warranty, except of title, is herein expressed and none shall be implied. The conditions of any test of the products shall be mutually agreed upon, and the Company shall be notified of and may be represented at all tests that may be made. If any failure to comply with the specifications appears within one year from the date of shipment the Purchaser shall notify the Company thereof immediately. Failure to notify the Company within such period shall relieve said Company from any and all obligations. The liability of the Company (except as to title) arising out of the supplying of said products or their use, whether on warranties or otherwise, shall not in any case exceed the least of the cost or correcting defects in the products, by repair or by supplying a replacement, f.o.b. factory, of the defective part or parts. Upon expiration of (1) year from the date of shipment all such liability shall terminate.

THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, WITH RESPECT TO THE PRODUCT. INCLUDING ANY IMPLIED OR STATUTORY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. NEITHER COMPANY NOR ITS SUPPLIERS SHALL BE LIABLE, WHETHER IN CONTRACT OR IN TORT OR UNDER ANY OTHER LEGAL THEORY, FOR LOSS OF USE, REVENUE OR PROFIT, OR FOR COST OF CAPITOL OR OF SUBSTAITUTE USE OR PERFORMANCE, OR FOR INCIDENTAL, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, OR FOR ANY OTHER LOSS OR COST OF SIMILAR TYPE, OR FOR CLAIMS BY PURCHASER FOR DAMAGES OR PURCHASER'S CUSTOMERS.

The Company is not responsible for damage to products or injury to persons or property due to abuse, improper installation or storage, alteration or modification, use other than for which originally sold, or through operations above rated load, either intentionally or otherwise, of any product or part. Further the Company shall not under any circumstances, be liable for the fault, negligence, or wrongful acts of purchaser of Purchaser's employees, or Purchaser's other contractors or suppliers. If any Purchaser fails to comply with the stipulated conditions of operation, or fails to permit the Company to inspect defects before repairing, or alters the product in any way, or fails to maintain the equipment in as-is shipped condition in storage, the Company's responsibility shall terminate.

2. CHANGE OF PRICES/ORDERS - A minimum charge of \$50.00 shall be charged on any order. Any order changes requested by Purchaser after order has been entered shall incur a minimum charge of \$50.00. In addition, charges will be made to cover the cost of re-engineering, drafting, parts scrapped because of the change and Price Book modifications caused by the change. In the event of a price change, prices on the unshipped portions of all orders are subject to the price in effect at the time of Shipment. Exceptions to these terms are stated in the Price Book Conditions of Sale.

3. SHIPPING AND STORAGE - Products shall be shipped f.o.b. point of shipment, no freight allowed. Shipping methods or carriers are at the discretion of the Company. Date of shipment shall be the date shown on bill of lading for receipt of shipment by initial carrier. The Company is not responsible for any damage incurred during delivery by common carrier. Purchaser shall file claim against the carrier. All storage claims must be filled within (10) days of the receipt of shipment. Special storage preparation is recommended for products that will not be put in service within ninety days of shipment. Charges for this service are specified in catalog 705 and the Conditions of Sale. Failure to request such storage preparation will void the warranty on products stored over ninety days.

4. TERMS OF PAYMENT - Unless otherwise arranged, terms of payment are cash in full within thirty days of invoice date. Payment will be in U.S. Dollars. On late payments, in the contract price shall, without prejudice to the Company's right to immediate payment, be increased 1?% per month on the unpaid balance, but not to exceed the maximum permitted by law.

If at anytime in the Company's judgment the Purchaser may be or may become unable or unwilling to meet the terms specified, the Company may require satisfactory assurances, full or partial payment, as a condition to commencing or continuing manufacture of making shipment, and may, if shipment has been made, recover the product(s) from the carrier, pending receipt of such assurances. 5. CANCELLATION - Cancellation of this order may be made by written notice to Company provided that payment of cost incurred by the Company, to the time such notice is received, is made by Purchaser.

6. PATENTS - The Company shall defend any suit or proceeding brought against the Purchaser so far as based on a claim that any product, or any part thereof, furnished under this contract constitutes an infringement of any patent of the United States. If notified promptly in writing and given authority, information and assistance (at the Company's expense) for the defense of same, and the Company shall pay all damages and cost awarded therein against the Purchaser. In case said product, or any part thereof, is in such suit held to constitute infringement and the use of said product or part is enjoined, the Company shall, at its own expense, either procure for the Purchaser the right to continue using said product or part; or replace same with non-infringing product; or modify it so that it becomes non-infringing; or remove said product and refund the purchase price and the transportation and installation costs thereof. The forgoing states the entire liability of the company for patent infringement by said product or any part thereof.

7. DELIVERY/DELAY - Shipping dates are estimates and are based upon prompt receipt of all necessary information. The Company shall not be liable for delay due to causes beyond its reasonable control, including but not limited to acts of God, acts of failure to act of government, acts or regulations of the federal or state governments, acts or omissions of the Purchaser, acts of civil or military authorities, priorities, fires, strikes, blizzards, earthquakes, tornadoes, floods, epidemics, quarantine restrictions, war, riots, delays in transportation, car, shortages, and inability, due to reasons beyond its reasonable control, to obtain necessary labor, material, or manufacturing facilities. In the event of any such delay, the date of the delivery shall be extended for a period equal to the time lost by reason of the delay and its consequences. Delay caused by Purchaser's request or amendment or addition to order shall cause the Company to apply those prices and price policy clauses in effect as of the date said order is finally released.

8. TAXES - The Company's prices do not include sales, use, excise, license or similar taxes. Consequently, in addition to the price specified herein, the amount of any present or future sales, use, excise, license or other similar tax applicable to the sale of the equipment, parts or accessories hereunder shall be paid by the Purchase, or in lieu thereof the Purchaser shall provide the Company with a tax exemption certificate acceptable to the taxing authorities.

9. TITLE - The title and right of possession of the equipment, parts or accessories sold hereunder shall remain with the Company and such equipment shall remain personal property until all payments hereunder (including deferred payments, whether evidenced by notes or otherwise) shall have been made in full in cash and the Purchaser agrees to do all acts necessary to protect and maintain such right and title in the Company.

10. WAIVER/INDEMNITY - No waiver or modification of any of these terms and conditions of sale shall be valid unless it is made in writing and signed by both Company and Purchaser. Failure by the Company to enforce any right possessed under the foregoing terms and conditions shall not constitute a waiver thereof or establish a custom. Purchaser shall protect, defend, indemnify and hold harmless the Company for all loss, cost or expense arising out of any breach of these Conditions of Sale or negligent act of the Purchaser.

11. LAWS/LIMITATIONS – The Company will comply with all applicable Federal, State and local laws, and hereby represents that any goods to be delivered hereunder will be produced in compliance with the requirements of the Fair Labor Standards Act of 1938, as amended. The laws of the State of California shall govern the validity, interpretation and enforcement of this contract. No action, regardless of form, arising out of the sale of use of the products which are the subject of this contract may be brought by either party more than one year after the cause of action has accrued, except on action for nonpayment of the purchase price brought within one year after the last payment due date.







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