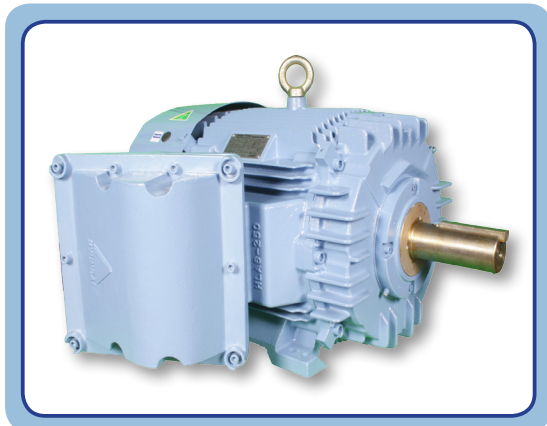
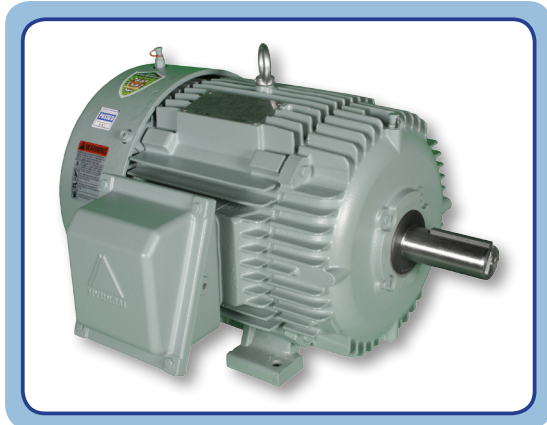
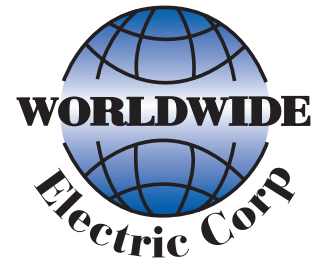
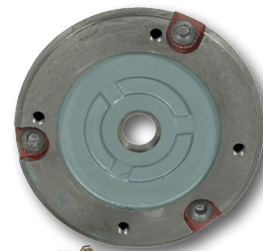
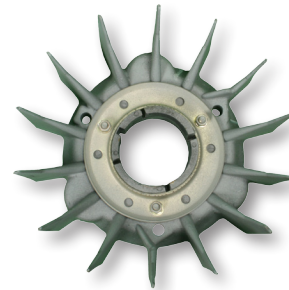


HYUNDAI PARTS AND MAINTENANCE MANUAL

From WorldWide Electric



 **HYUNDAI**



WorldWide Electric Corporation

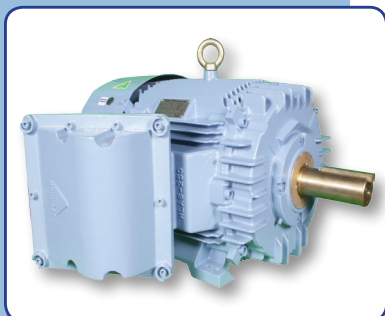
P.O. Box 307, Pittsford, NY 14534 USA

Phone: 800-808-2131 ♦ Fax: 800-711-1616

www.worldwideelectric.net

HYUNDAI PARTS AND MAINTENANCE MANUAL

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IEEE-841

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HYUNDAI PARTS AND MAINTENANCE MANUAL

General Information



MISSION STATEMENT:

To be the most customer and employee focused organization in the markets within which we compete, offering products and a workplace that exceeds expectations for quality, performance, reliability and market innovation.

PRICES:

All prices in this HYUNDAI Parts and Maintenance Manual are list prices. For your cost / multiplier please contact your WorldWide Electric salesperson at 1-800-808-2131 Ext. 3.

PREFACE:

This manual lists all HYUNDAI standard replacement parts. Most parts are available from stock at one of our ten locations and ready for immediate shipment. For next day air shipment please contact WorldWide Electric at 1-800-808-2131 Ext. 3. Parts included in this manual are to be used on HYUNDAI electric motors only.

HOW TO ORDER:

You can either call 1-800-808-2131 Ext. 3 or fax your order to 1-800-711-1616, WorldWide Electric corporate office. When ordering a HYUNDAI replacement part, please have the following information ready: complete part description, motor model number, description of the part and what type of motor the part came off of.

REPLACEMENT PARTS SALES POLICY:

1. Minimum invoice charge per order is \$25.00.
2. All shipments F.O.B. from nearest WorldWide Warehouse. No freight allowance.
3. All orders subject to acceptance by WorldWide Electric. Credit department terms are net 30 days. If credit card is used, the purchaser agrees to pay the issuer of the credit card the total amount shown on the invoice upon presentation of a bill without offset or deduction.
4. Specifications are subject to change without notice. No product can be returned if hooked up or painted. Restocking charge of 15% applies. No parts returned without written authorization.



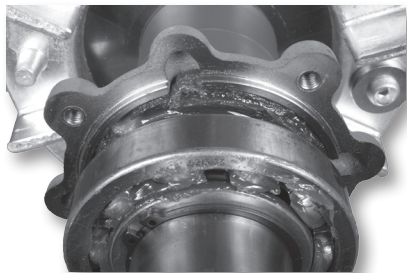
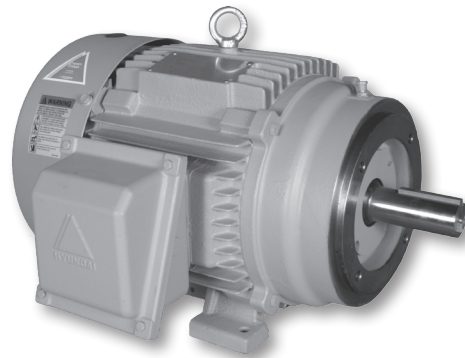
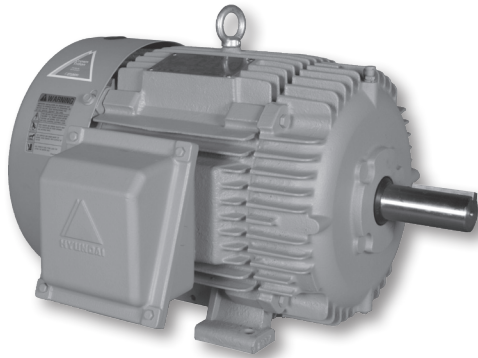
HYUNDAI PARTS AND MAINTENANCE MANUAL

Motor Accessories / Parts

HYUNDAI Crown Triton™ Series ▪ Premium Efficiency



MOTOR
ACCESSORIES / PARTS



BEARING CAP KIT



DRIP COVER KIT

Frame Size	Model Number	Description	List * Price
PREMIUM EFFICIENCY - BEARING CAP KITS - DRIVE-END			
364T / 365T (2 POLE)	HBCDE2P360	DE BEARING CAP KIT FOR FRAMES 364T / 365T - 2 POLE	\$125.00
404T / 405T (2 POLE)	HBCDE2P400	DE BEARING CAP KIT FOR FRAMES 404T / 405T - 2 POLE	\$135.00
404T / 405T (4/6 POLE)	HBCDE400	DE BEARING CAP KIT FOR FRAMES 404T / 405T - 4/6 POLE	\$135.00
444T / 445T / 447T / 449T (2 POLE)	HBCDE2P440	DE BEARING CAP KIT FOR FRAMES 444T / 445T / 447T / 449T - 2 POLE	\$140.00
444T / 445T / 447T / 449T (4/6 POLE)	HBCDE440	DE BEARING CAP KIT FOR FRAMES 444T / 445T / 447T / 449T - 4/6 POLE	\$145.00
PREMIUM EFFICIENCY - BEARING CAP KITS - OPPOSITE DRIVE-END			
364T / 365T	HBCNDE360	ODE BEARING CAP KIT FOR FRAMES 364T / 365T	\$125.00
404T / 405T	HBCNDE400	ODE BEARING CAP KIT FOR FRAMES 404T / 405T	\$135.00
444T / 445T / 447T / 449T (2 POLE)	HBCNDE2P440	ODE BEARING CAP KIT FOR FRAMES 444T / 445T / 447T / 449T - 2 POLE	\$140.00
444T / 445T / 447T / 449T (4/6 POLE)	HBCNDE440	ODE BEARING CAP KIT FOR FRAMES 444T / 445T / 447T / 449T - 4/6 POLE	\$145.00
PREMIUM EFFICIENCY - DRIP COVER KITS			
143T / 145T	DC140	DRIP COVER KIT FOR FRAMES 143T / 145T	\$55.00
182T / 184T	DC180	DRIP COVER KIT FOR FRAMES 182T / 184T	\$75.00
213T / 215T	DC210	DRIP COVER KIT FOR FRAMES 213T / 215T	\$80.00
254T / 256T	DC250	DRIP COVER KIT FOR FRAMES 254T / 256T	\$105.00
284T / 286T	DC280	DRIP COVER KIT FOR FRAMES 284T / 286T	\$150.00
324T / 326T	DC320	DRIP COVER KIT FOR FRAMES 324T / 326T	\$180.00
364T / 365T	DC360	DRIP COVER KIT FOR FRAMES 364T / 365T	\$210.00
404T / 405T	DC400	DRIP COVER KIT FOR FRAMES 404T / 405T	\$250.00
444T / 445T / 447T / 449T	DC440	DRIP COVER KIT FOR FRAMES 444T / 445T / 447T / 449T	\$275.00

* Prices seen here are list - please call for your multiplier.



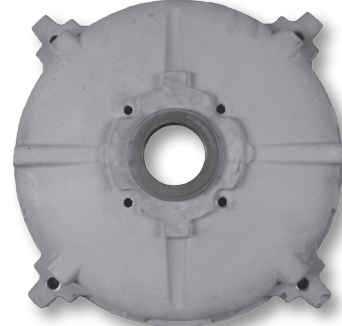
HYUNDAI PARTS AND MAINTENANCE MANUAL

Motor Accessories / Parts

HYUNDAI Crown Triton™ Series ▪ Premium Efficiency



ENDBELL - DE



ENDBELL - ODE

Frame Size	Model Number	Description	List * Price
PREMIUM EFFICIENCY ENDBELLS - DRIVE-END			
143T / 145T	HESDE140	DE ENDBELL FOR FRAMES 143T / 145T	\$105.00
182T / 184T	HESDE180	DE ENDBELL FOR FRAMES 182T / 184T	\$135.00
213T / 215T	HESDE210	DE ENDBELL FOR FRAMES 213T / 215T	\$180.00
254T / 256T	HESDE250	DE ENDBELL FOR FRAMES 254T / 256T	\$330.00
284T / 286T	HESDE280	DE ENDBELL FOR FRAMES 284T / 286T	\$435.00
324T / 326T	HESDE320	DE ENDBELL FOR FRAMES 324T / 326T	\$575.00
364T / 365T (2 POLE)	HESDE2P360	DE ENDBELL FOR FRAMES 364T / 365T - 2 POLE	\$795.00
364T / 365T (4/6 POLE)	HESDE360	DE ENDBELL FOR FRAMES 364T / 365T - 4/6 POLE	\$875.00
404T / 405T (2 POLE)	HESDE2P400	DE ENDBELL FOR FRAMES 404T / 405T - 2 POLE	\$1,125.00
404T / 405T (4/6 POLE)	HESDE400	DE ENDBELL FOR FRAMES 404T / 405T - 4/6 POLE	\$1,050.00
444T / 445T / 447T / 449T (2 POLE)	HESDE2P440	DE ENDBELL FOR FRAMES 444T / 445T / 447T / 449T - 2 POLE	\$1,215.00
444T / 445T / 447T / 449T (4/6 POLE)	HESDE440	DE ENDBELL FOR FRAMES 444T / 445T / 447T / 449T - 4/6 POLE	\$1,315.00
PREMIUM EFFICIENCY ENDBELLS - OPPOSITE DRIVE-END			
143T / 145T	HESNDE140	ODE ENDBELL FOR FRAMES 143T / 145T	\$105.00
182T / 184T	HESNDE180	ODE ENDBELL FOR FRAMES 182T / 184T	\$135.00
213T / 215T	HESNDE210	ODE ENDBELL FOR FRAMES 213T / 215T	\$180.00
254T / 256T	HESNDE250	ODE ENDBELL FOR FRAMES 254T / 256T	\$330.00
284T / 286T	HESNDE280	ODE ENDBELL FOR FRAMES 284T / 286T	\$435.00
324T / 326T	HESNDE320	ODE ENDBELL FOR FRAMES 324T / 326T	\$575.00
364T / 365T	HESNDE360	ODE ENDBELL FOR FRAMES 364T / 365T	\$875.00
404T / 405T	HESNDE400	ODE ENDBELL FOR FRAMES 404T / 405T	\$1,050.00
444T / 445T / 447T / 449T (2 POLE)	HESNDE2P440	ODE ENDBELL FOR FRAMES 444T / 445T / 447T / 449T - 2 POLE	\$1,215.00
444T / 445T / 447T / 449T (4/6 POLE)	HESNDE440	ODE ENDBELL FOR FRAMES 444T / 445T / 447T / 449T - 4/6 POLE	\$1,175.00

* Prices seen here are list - please call for your multiplier.



HYUNDAI PARTS AND MAINTENANCE MANUAL

Motor Accessories / Parts

HYUNDAI Crown Triton™ Series ▪ Premium Efficiency



MOTOR ACCESSORIES / PARTS



EYEBOLTS



JUNCTION BOX - INCLUDES BOX & COVER

Frame Size	Model Number	Description	List * Price
PREMIUM EFFICIENCY EYEBOLTS			
182T / 184T	NEB180	EYEBOLT FOR FRAMES 182T / 184T	\$25.00
213T / 215T	NEB210	EYEBOLT FOR FRAMES 213T / 215T	\$25.00
254T / 256T	NEB250	EYEBOLT FOR FRAMES 254T / 256T	\$40.00
284T / 286T	NEB280	EYEBOLT FOR FRAMES 284T / 286T	\$40.00
324T / 326T	NEB320	EYEBOLT FOR FRAMES 324T / 326T	\$45.00
364T / 365T	NEB360	EYEBOLT FOR FRAMES 364T / 365T	\$50.00
404T / 405T	NEB400	EYEBOLT FOR FRAMES 404T / 405T	\$60.00
444T / 445T / 447T / 449T	NEB440	EYEBOLT FOR FRAMES 444T / 445T / 447T / 449T	\$85.00
PREMIUM EFFICIENCY JUNCTION BOXES - INCLUDES BOX & COVER			
143T / 145T	HJBOX140	JUNCTION BOX FOR FRAMES 143T / 145T	\$75.00
182T / 184T	HJBOX180	JUNCTION BOX FOR FRAMES 182T / 184T	\$82.00
213T / 215T	HJBOX210	JUNCTION BOX FOR FRAMES 213T / 215T	\$85.00
254T / 256T	HJBOX250	JUNCTION BOX FOR FRAMES 254T / 256T	\$195.00
284T / 286T	HJBOX280	JUNCTION BOX FOR FRAMES 284T / 286T	\$200.00
324T / 326T	HJBOX320	JUNCTION BOX FOR FRAMES 324T / 326T	\$485.00
364T / 365T	HJBOX360	JUNCTION BOX FOR FRAMES 364T / 365T	\$550.00
404T / 405T	HJBOX400	JUNCTION BOX FOR FRAMES 404T / 405T	\$885.00
444T / 445T / 447T / 449T	HJBOX440	JUNCTION BOX FOR FRAMES 444T / 445T / 447T / 449T	\$900.00

* Prices seen here are list - please call for your multiplier.



HYUNDAI PARTS AND MAINTENANCE MANUAL

Motor Accessories / Parts

HYUNDAI Crown Triton™ Series ▪ Premium Efficiency



Frame Size	Model Number	Description	List * Price
PREMIUM EFFICIENCY FANS			
143T / 145T (2 POLE)	HF1402P	FAN FOR FRAMES 143T / 145T - 2 POLE	\$35.00
143T / 145T (4/6 POLE)	HF140	FAN FOR FRAMES 143T / 145T - 4/6 POLE	\$35.00
182T / 184T (2 POLE)	HF1802P	FAN FOR FRAMES 182T / 184T - 2 POLE	\$45.00
182T / 184T (4/6 POLE)	HF1804P6P	FAN FOR FRAMES 182T / 184T - 4/6 POLE	\$45.00
213T / 215T (2 POLE)	HF2102P4P	FAN FOR FRAMES 213T / 215T - 2/4 POLE	\$50.00
213T / 215T (4/6 POLE)	HF2106P	FAN FOR FRAMES 213T / 215T - 6 POLE	\$50.00
254T / 256T (2 POLE)	HF2502P	FAN FOR FRAMES 254T / 256T - 2 POLE	\$110.00
254T / 256T (4/6 POLE)	HF250	FAN FOR FRAMES 254T / 256T - 4/6 POLE	\$100.00
284T / 286T (2 POLE)	HF2802P	FAN FOR FRAMES 284T / 286T - 2 POLE	\$122.00
284T / 286T (4/6 POLE)	HF280	FAN FOR FRAMES 284T / 286T - 4/6 POLE	\$115.00
324T / 326T (2 POLE)	HF3202P	FAN FOR FRAMES 324T / 326T - 2 POLE	\$150.00
324T / 326T (4/6 POLE)	HF320	FAN FOR FRAMES 324T / 326T - 4/6 POLE	\$140.00
364T / 365T (2 POLE)	HF3602P	FAN FOR FRAMES 364T / 365T - 2 POLE	\$195.00
364T / 365T (4 POLE)	HF360	FAN FOR FRAMES 364T / 365T - 4 POLE	\$280.00
364T / 365T (6 POLE)	HF3606P	FAN FOR FRAMES 364T / 365T - 6 POLE	\$280.00
404T / 405T (2 POLE)	HF4002P	FAN FOR FRAMES 404T / 405T - 2 POLE	\$230.00
404T / 405T (4 POLE)	HF400	FAN FOR FRAMES 404T / 405T - 4 POLE	\$280.00
404T / 405T (6 POLE)	HF4006P	FAN FOR FRAMES 404T / 405T - 6 POLE	\$280.00
444T / 445T / 447T / 449T (2 POLE)	HF4402P	FAN FOR FRAMES 444T / 445T / 447T / 449T - 2 POLE	\$280.00
444T / 445T / 447T / 449T (4 POLE)	HF440	FAN FOR FRAMES 444T / 445T / 447T / 449T - 4 POLE	\$280.00
444T (6 POLE)	HF4446P	FAN FOR FRAME 444T - 6 POLE	\$280.00
445T (6 POLE)	HF4456P	FAN FOR FRAME 445T - 6 POLE	\$280.00
447T (6 POLE)	HF4476P	FAN FOR FRAME 447T - 6 POLE	\$280.00
449T (6 POLE)	HF4496P	FAN FOR FRAME 449T - 6 POLE	\$280.00
PREMIUM EFFICIENCY FAN COVERS - STEEL			
143T / 145T	HSFC140	FAN COVER (STEEL) FOR FRAMES 143T / 145T	\$51.00
182T / 184T	HSFC180	FAN COVER (STEEL) FOR FRAMES 182T / 184T	\$73.00
213T / 215T	HSFC210	FAN COVER (STEEL) FOR FRAMES 213T / 215T	\$78.00
254T / 256T	HSFC250	FAN COVER (STEEL) FOR FRAMES 254T / 256T	\$134.00
284T / 286T	HSFC280	FAN COVER (STEEL) FOR FRAMES 284T / 286T	\$185.00
324T / 326T	HSFC320	FAN COVER (STEEL) FOR FRAMES 324T / 326T	\$225.00
364T / 365T	HSFC360	FAN COVER (STEEL) FOR FRAMES 364T / 365T	\$365.00
404T / 405T	HSFC400	FAN COVER (STEEL) FOR FRAMES 404T / 405T	\$425.00
444T / 445T / 447T / 449T	HSFC440	FAN COVER (STEEL) FOR FRAMES 444T / 445T / 447T / 449T	\$500.00
PREMIUM EFFICIENCY FAN COVERS - CAST IRON			
143T / 145T	HCIFC140	FAN COVER (CAST IRON) FOR FRAMES 143T / 145T	\$95.00
182T / 184T	HCIFC180	FAN COVER (CAST IRON) FOR FRAMES 182T / 184T	\$105.00
213T / 215T	HCIFC210	FAN COVER (CAST IRON) FOR FRAMES 213T / 215T	\$140.00
254T / 256T	HCIFC250	FAN COVER (CAST IRON) FOR FRAMES 254T / 256T	\$225.00
284T / 286T	HCIFC280	FAN COVER (CAST IRON) FOR FRAMES 284T / 286T	\$275.00
324T / 326T	HCIFC320	FAN COVER (CAST IRON) FOR FRAMES 324T / 326T	\$375.00
364T / 365T	HCIFC360	FAN COVER (CAST IRON) FOR FRAMES 364T / 365T	\$790.00
404T / 405T	HCIFC400	FAN COVER (CAST IRON) FOR FRAMES 404T / 405T	\$885.00
444T / 445T / 447T / 449T	HCIFC440	FAN COVER (CAST IRON) FOR FRAMES 444T / 445T / 447T / 449T	\$1,005.00

* Prices seen here are list - please call for your multiplier.



HYUNDAI PARTS AND MAINTENANCE MANUAL

Motor Accessories / Parts

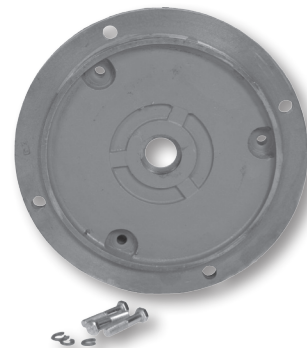
HYUNDAI Crown Triton™ Series ▪ Premium Efficiency



MOTOR ACCESSORIES / PARTS



C-FLANGE KIT



D-FLANGE KIT

Frame Size	Model Number	Description	List * Price
PREMIUM EFFICIENCY C-FLANGE KITS			
143T / 145T	H140TC	C-FLANGE KIT FOR FRAMES 143T / 145T	\$45.00
182T / 184T	H180TC	C-FLANGE KIT FOR FRAMES 182T / 184T	\$64.00
213T / 215T	H210TC	C-FLANGE KIT FOR FRAMES 213T / 215T	\$90.00
254T / 256T	H250TC	C-FLANGE KIT FOR FRAMES 254T / 256T	\$155.00
284T / 286T	H280TC	C-FLANGE KIT FOR FRAMES 284T / 286T	\$195.00
324T / 326T	H320TC	C-FLANGE KIT FOR FRAMES 324T / 326T	\$265.00
364T / 365T (2 POLE)	H3602PTC	C-FLANGE KIT FOR FRAMES 364T / 365T - 2 POLE	\$380.00
364T / 365T (4/6 POLE)	H360TC	C-FLANGE KIT FOR FRAMES 364T / 365T - 4/6 POLE	\$380.00
404T / 405T (2 POLE)	H4002PTC	C-FLANGE KIT FOR FRAMES 404T / 405T - 2 POLE	\$580.00
404T / 405T (4/6 POLE)	H400TC	C-FLANGE KIT FOR FRAMES 404T / 405T - 4/6 POLE	\$580.00
444T / 445T (2 POLE)	H4402PTC	C-FLANGE KIT FOR FRAMES 444T / 445T - 2 POLE	\$580.00
444T / 445T (4/6 POLE)	H445TC	C-FLANGE KIT FOR FRAMES 444T / 445T - 4/6 POLE	\$580.00
447T (2 POLE)	H4402PTC	C-FLANGE KIT FOR FRAME 447T - 2 POLE	\$580.00
447T (4/6 POLE)	H447TC	C-FLANGE KIT FOR FRAME 447T - 4/6 POLE	\$580.00
449T (2 POLE)	H4402PTC	C-FLANGE KIT FOR FRAME 449T - 2 POLE	\$580.00
449T (4/6 POLE)	H449TC	C-FLANGE KIT FOR FRAME 449T - 4/6 POLE	\$615.00
PREMIUM EFFICIENCY D-FLANGE KITS			
143T / 145T	H140TD	D-FLANGE KIT FOR FRAMES 143T / 145T	\$140.00
182T / 184T	H180TD	D-FLANGE KIT FOR FRAMES 182T / 184T	\$183.00
213T / 215T	H210TD	D-FLANGE KIT FOR FRAMES 213T / 215T	\$256.00
254T / 256T	H250TD	D-FLANGE KIT FOR FRAMES 254T / 256T	\$300.00
284T / 286T	H280TD	D-FLANGE KIT FOR FRAMES 284T / 286T	\$356.00
324T / 326T	H320TD	D-FLANGE KIT FOR FRAMES 324T / 326T	\$505.00
364T / 365T (2 POLE)	H3602PTD	D-FLANGE KIT FOR FRAMES 364T / 365T - 2 POLE	\$655.00
364T / 365T (4/6 POLE)	H360TD	D-FLANGE KIT FOR FRAMES 364T / 365T - 4/6 POLE	\$655.00
404T / 405T (2 POLE)	H4002PTD	D-FLANGE KIT FOR FRAMES 404T / 405T - 2 POLE	\$810.00
404T / 405T (4/6 POLE)	H400TD	D-FLANGE KIT FOR FRAMES 404T / 405T - 4/6 POLE	\$810.00
444T / 445T (2 POLE)	H4402PTD	D-FLANGE KIT FOR FRAMES 444T / 445T - 2 POLE	\$1,010.00
444T / 445T (4/6 POLE)	H445TD	D-FLANGE KIT FOR FRAMES 444T / 445T - 4/6 POLE	\$1,010.00
447T (2 POLE)	H4402PTD	D-FLANGE KIT FOR FRAME 447T - 2 POLE	\$1,010.00
447T (4/6 POLE)	H447TD	D-FLANGE KIT FOR FRAME 447T - 4/6 POLE	\$1,010.00
449T (2 POLE)	H4402PTD	D-FLANGE KIT FOR FRAME 449T - 2 POLE	\$1,010.00
449T (4/6 POLE)	H449TD	D-FLANGE KIT FOR FRAME 449T - 4/6 POLE	\$1,060.00

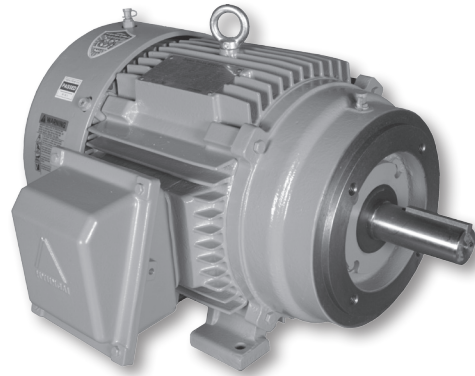
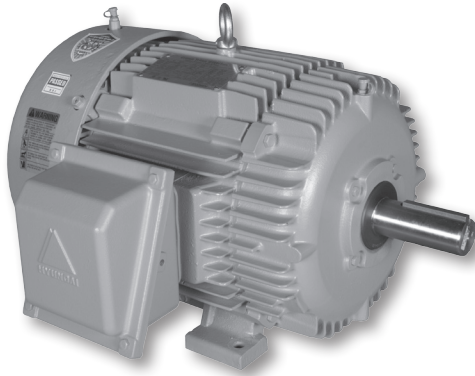
* Prices seen here are list - please call for your multiplier.



HYUNDAI PARTS AND MAINTENANCE MANUAL

Motor Accessories / Parts

HYUNDAI Crown Triton™ Series ▪ IEEE-841



MOTOR ACCESSORIES / PARTS

Frame Size	Model Number	Description	List * Price
IEEE-841 BEARING CAP KITS - DRIVE-END			
364T / 365T	IHBCDE360	DE BEARING CAP KIT FOR FRAMES 364T / 365T	\$192.00
404T / 405T (2 POLE)	IHBCDE2P400	DE BEARING CAP KIT FOR FRAMES 404T / 405T - 2 POLE	\$192.00
404T / 405T (4/6 POLE)	IHBCDE400	DE BEARING CAP KIT FOR FRAMES 404T / 405T - 4/6 POLE	\$210.00
444T / 445T / 447T / 449T (2 POLE)	IHBCDE2P440	DE BEARING CAP KIT FOR FRAMES 444T / 445T / 447T / 449T - 2 POLE	\$210.00
444T / 445T / 447T / 449T (4/6 POLE)	IHBCDE440	DE BEARING CAP KIT FOR FRAMES 444T / 445T / 447T / 449T - 4/6 POLE	\$258.00
IEEE-841 BEARING CAP KITS - OPPOSITE DRIVE-END			
364T / 365T (2 POLE)	HBCNDE2P360	ODE BEARING CAP KIT FOR FRAMES 364T / 365T - 2 POLE	\$192.00
364T / 365T (4/6 POLE)	HBCNDE360	ODE BEARING CAP KIT FOR FRAMES 364T / 365T - 4/6 POLE	\$192.00
404T / 405T	HBCNDE400	ODE BEARING CAP KIT FOR FRAMES 404T / 405T	\$192.00
444T / 445T / 447T / 449T (2 POLE)	HBCNDE2P440	ODE BEARING CAP KIT FOR FRAMES 444T / 445T / 447T / 449T - 2 POLE	\$210.00
444T / 445T / 447T / 449T (4/6 POLE)	HBCNDE440	ODE BEARING CAP KIT FOR FRAMES 444T / 445T / 447T / 449T - 4/6 POLE	\$258.00
IEEE-841 DRIP COVER KITS			
143T / 145T	IDC140	DRIP COVER KIT FOR FRAMES 143T / 145T	\$73.00
182T / 184T	IDC180	DRIP COVER KIT FOR FRAMES 182T / 184T	\$94.00
213T / 215T	IDC210	DRIP COVER KIT FOR FRAMES 213T / 215T	\$103.00
254T / 256T	IDC250	DRIP COVER KIT FOR FRAMES 254T / 256T	\$150.00
284T / 286T	IDC280	DRIP COVER KIT FOR FRAMES 284T / 286T	\$188.00
324T / 326T	IDC320	DRIP COVER KIT FOR FRAMES 324T / 326T	\$210.00
364T / 365T	IDC360	DRIP COVER KIT FOR FRAMES 364T / 365T	\$253.00
404T / 405T	IDC400	DRIP COVER KIT FOR FRAMES 404T / 405T	\$300.00
444T / 445T / 447T / 449T (2 POLE)	IDC440	DRIP COVER KIT FOR FRAMES 444T / 445T / 447T / 449T	\$334.00

* Prices seen here are list - please call for your multiplier.



HYUNDAI PARTS AND MAINTENANCE MANUAL

Motor Accessories / Parts

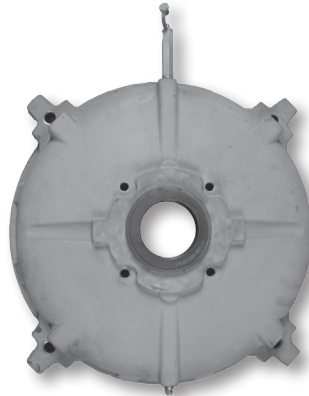
HYUNDAI Crown Triton™ Series ▪ IEEE-841



MOTOR ACCESSORIES / PARTS



ENDBELL - DE



ENDBELL - ODE



ENDBELL - ODE

Frame Size	Model Number	Description	List * Price
IEEE-841 ENDBELLS - DRIVE-END			
143T / 145T	IHESDE140	DE ENDBELL FOR FRAMES 143T / 145T	\$120.00
182T / 184T	IHESDE180	DE ENDBELL FOR FRAMES 182T / 184T	\$150.00
213T / 215T	IHESDE210	DE ENDBELL FOR FRAMES 213T / 215T	\$204.00
254T / 256T	IHESDE250	DE ENDBELL FOR FRAMES 254T / 256T	\$432.00
284T / 286T	IHESDE280	DE ENDBELL FOR FRAMES 284T / 286T	\$569.00
324T / 326T	IHESDE320	DE ENDBELL FOR FRAMES 324T / 326T	\$857.00
364T / 365T (2 POLE)	IHESDE2P360	DE ENDBELL FOR FRAMES 364T / 365T - 2 POLE	\$971.00
364T / 365T (4/6 POLE)	IHESDE360	DE ENDBELL FOR FRAMES 364T / 365T - 4/6 POLE	\$1,055.00
404T / 405T (2 POLE)	IHESDE2P400	DE ENDBELL FOR FRAMES 404T / 405T - 2 POLE	\$1,283.00
404T / 405T (4/6 POLE)	IHESDE400	DE ENDBELL FOR FRAMES 404T / 405T - 4/6 POLE	\$1,331.00
444T / 445T / 447T / 449T (2 POLE)	IHESDE2P440	DE ENDBELL FOR FRAMES 444T / 445T / 447T / 449T - 2 POLE	\$1,690.00
444T / 445T / 447T / 449T (4/6 POLE)	IHESDE440	DE ENDBELL FOR FRAMES 444T / 445T / 447T / 449T - 4/6 POLE	\$1,786.00
IEEE-841 ENDBELLS - OPPOSITE DRIVE-END			
143T / 145T	IHESNDE140	ODE ENDBELL FOR FRAMES 143T / 145T	\$120.00
182T / 184T	IHESNDE180	ODE ENDBELL FOR FRAMES 182T / 184T	\$150.00
213T / 215T	IHESNDE210	ODE ENDBELL FOR FRAMES 213T / 215T	\$204.00
254T / 256T	IHESNDE250	ODE ENDBELL FOR FRAMES 254T / 256T	\$444.00
284T / 286T	IHESNDE280	ODE ENDBELL FOR FRAMES 284T / 286T	\$581.00
324T / 326T	IHESNDE320	ODE ENDBELL FOR FRAMES 324T / 326T	\$797.00
364T / 365T	IHESNDE360	ODE ENDBELL FOR FRAMES 364T / 365T	\$1,031.00
404T / 405T	IHESNDE400	ODE ENDBELL FOR FRAMES 404T / 405T	\$1,259.00
444T / 445T / 447T / 449T (2 POLE)	IHESNDE2P440	ODE ENDBELL FOR FRAMES 444T / 445T / 447T / 449T - 2 POLE	\$1,606.00
444T / 445T / 447T / 449T (4/6 POLE)	IHESNDE440	ODE ENDBELL FOR FRAMES 444T / 445T / 447T / 449T - 4/6 POLE	\$1,606.00
EYEBOLTS			
182T / 184T	NEB180	EYEBOLT FOR FRAMES 182T / 184T	\$25.00
213T / 215T	NEB210	EYEBOLT FOR FRAMES 213T / 215T	\$25.00
254T / 256T	NEB250	EYEBOLT FOR FRAMES 254T / 256T	\$40.00
284T / 286T	NEB280	EYEBOLT FOR FRAMES 284T / 286T	\$40.00
324T / 326T	NEB320	EYEBOLT FOR FRAMES 324T / 326T	\$45.00
364T / 365T	NEB360	EYEBOLT FOR FRAMES 364T / 365T	\$50.00
404T / 405T	NEB400	EYEBOLT FOR FRAMES 404T / 405T	\$60.00
44T / 445T / 447T / 449T	NEB440	EYEBOLT FOR FRAMES 444T / 445T / 447T / 449T	\$85.00

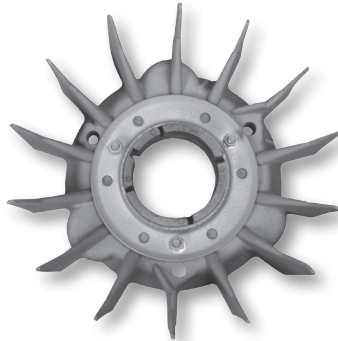
* Prices seen here are list - please call for your multiplier.



HYUNDAI PARTS AND MAINTENANCE MANUAL

Motor Accessories / Parts

HYUNDAI Crown Triton™ Series ▪ IEEE-841



FAN

Frame Size	Model Number	Description	List * Price
IEEE-841 FANS			
143T / 145T (2 POLE)	IHF1402P	FAN FOR FRAMES 143T / 145T - 2 POLE	\$36.00
1 HP / 1.5 HP (4 POLE)	IHF140-1-1.5-4P	FAN FOR 1 HP / 1.5 HP - 4 POLE	\$36.00
2 HP (4 POLE)	IHF140-2-6P	FAN FOR 2 HP - 4 POLE	\$36.00
2 HP (6 POLE)	IHF140-2-6P	FAN FOR 2 HP - 6 POLE	\$36.00
182T / 184T (2 POLE)	IHF1802P	FAN FOR FRAMES 182T / 184T - 2 POLE	\$45.00
182T / 184T (4/6 POLE)	IHF1804P6P	FAN FOR FRAMES 182T / 184T - 4/6 POLE	\$45.00
213T / 215T (2 POLE)	IHF2102P4P	FAN FOR FRAMES 213T / 215T - 2/4 POLE	\$51.00
213T / 215T (4/6 POLE)	IHF2106P	FAN FOR FRAMES 213T / 215T - 6 POLE	\$51.00
254T / 256T (2 POLE)	IHF2502P-2544P	FAN FOR FRAMES 254T / 256T - 2 POLE	\$108.00
254T (4 POLE)	IHF2502P-2544P	FAN FOR FRAME 254T - 4 POLE	\$108.00
256T (4 POLE)	IHF2506P-2564P	FAN FOR FRAME 256T - 4 POLE	\$96.00
254T / 256T (6 POLE)	IHF2506P-2564P	FAN FOR FRAMES 254T / 256T - 6 POLE	\$96.00
284T / 286T (2 POLE)	IHF2802P	FAN FOR FRAMES 284T / 286T - 2 POLE	\$120.00
284T / 286T (4/6 POLE)	IHF280	FAN FOR FRAMES 284T / 286T - 4/6 POLE	\$114.00
324T / 326T (2 POLE)	IHF3202P	FAN FOR FRAMES 324T / 326T - 2 POLE	\$150.00
324T / 326T (4/6 POLE)	IHF320	FAN FOR FRAMES 324T / 326T - 4/6 POLE	\$138.00
364T / 365T (2 POLE)	IHF3602P	FAN FOR FRAMES 364T / 365T - 2 POLE	\$192.00
364T / 365T (4 POLE)	IHF360	FAN FOR FRAMES 364T / 365T - 4 POLE	\$276.00
364T / 365T (6 POLE)	IHF3606P	FAN FOR FRAMES 364T / 365T - 6 POLE	\$276.00
404T / 405T (2 POLE)	IHF4002P	FAN FOR FRAMES 404T / 405T - 2 POLE	\$228.00
404T / 405T (4 POLE)	IHF400	FAN FOR FRAMES 404T / 405T - 4 POLE	\$276.00
404T / 405T (6 POLE)	IHF4006P	FAN FOR FRAMES 404T / 405T - 6 POLE	\$276.00
444T / 445T (2 POLE)	IHF4402P	FAN FOR FRAMES 444T / 445T - 2 POLE	\$551.00
444T / 445T (2 POLE) CCW ODE	IHF4402P-CCWODE	FAN FOR FRAMES 444T / 445T - 2 POLE - CCW ODE	\$551.00
444T (4 POLE)	IHF444	FAN FOR FRAME 444T - 4 POLE	\$276.00
444T (6 POLE)	IHF4446P	FAN FOR FRAME 444T - 6 POLE	\$282.00
445T (4 POLE)	IHF445	FAN FOR FRAME 445T - 4 POLE	\$276.00
445T (6 POLE)	IHF4456P	FAN FOR FRAME 445T - 6 POLE	\$282.00
447T / 449T (2 POLE)	IHF4402P	FAN FOR FRAMES 447T / 449T - 2 POLE	\$551.00
447T / 449T (2 POLE) CCW ODE	IHF4402P-CCWODE	FAN FOR FRAMES 447T / 449T - 2 POLE - CCW ODE	\$551.00
447T (4 POLE)	IHF447	FAN FOR FRAME 447T - 4 POLE	\$276.00
447T (6 POLE)	IHF4476P	FAN FOR FRAME 447T - 6 POLE	\$282.00
449T (4 POLE)	IHF449	FAN FOR FRAME 449T - 4 POLE	\$276.00
449T (6 POLE)	IHF4496P	FAN FOR FRAME 449T - 6 POLE	\$330.00

* Prices seen here are list - please call for your multiplier.

HYUNDAI PARTS AND MAINTENANCE MANUAL

Motor Accessories / Parts

HYUNDAI Crown Triton™ Series ▪ IEEE-841



MOTOR ACCESSORIES / PARTS



FAN COVER



JUNCTION BOX - INCLUDES BOX & COVER



C-FLANGE KIT

Frame Size	Model Number	Description	List * Price
IEEE-841 FAN COVERS - CAST IRON			
143T / 145T	IHCIFC140	FAN COVER (CAST IRON) FOR FRAMES 143T / 145T	\$137.00
182T / 184T	IHCIFC180	FAN COVER (CAST IRON) FOR FRAMES 182T / 184T	\$158.00
213T / 215T	IHCIFC210	FAN COVER (CAST IRON) FOR FRAMES 213T / 215T	\$214.00
254T / 256T	IHCIFC250	FAN COVER (CAST IRON) FOR FRAMES 254T / 256T	\$317.00
284T / 286T	IHCIFC280	FAN COVER (CAST IRON) FOR FRAMES 284T / 286T	\$411.00
324T / 326T	IHCIFC320	FAN COVER (CAST IRON) FOR FRAMES 324T / 326T	\$548.00
IEEE-841 JUNCTION BOXES - INCLUDES BOX & COVER			
143T / 145T	IHJBOX140	JUNCTION BOX FOR FRAMES 143T / 145T	\$180.00
182T / 184T	IHJBOX180	JUNCTION BOX FOR FRAMES 182T / 184T	\$276.00
213T / 215T	IHJBOX210	JUNCTION BOX FOR FRAMES 213T / 215T	\$276.00
254T / 256T	IHJBOX250	JUNCTION BOX FOR FRAMES 254T / 256T	\$444.00
284T / 286T	IHJBOX280	JUNCTION BOX FOR FRAMES 284T / 286T	\$444.00
324T / 326T	IHJBOX320	JUNCTION BOX FOR FRAMES 324T / 326T	\$659.00
364T / 365T	IHJBOX360	JUNCTION BOX FOR FRAMES 364T / 365T	\$833.00
404T / 405T	IHJBOX400	JUNCTION BOX FOR FRAMES 404T / 405T	\$1,217.00
444T / 445T / 447T / 449T	IHJBOX440	JUNCTION BOX FOR FRAMES 444T / 445T / 447T / 449T	\$1,217.00
IEEE-841 C-FLANGE KITS			
324T / 326T	IH320TC	C-FLANGE KIT FOR FRAMES 324T / 326T	\$676.00
364T / 365T	IH360TC	C-FLANGE KIT FOR FRAMES 364T / 365T	\$955.00
404T / 405T	IH400TC	C-FLANGE KIT FOR FRAMES 404T / 405T	\$1,130.00
444T / 445T	IH440TC	C-FLANGE KIT FOR FRAMES 444T / 445T	\$1,545.00

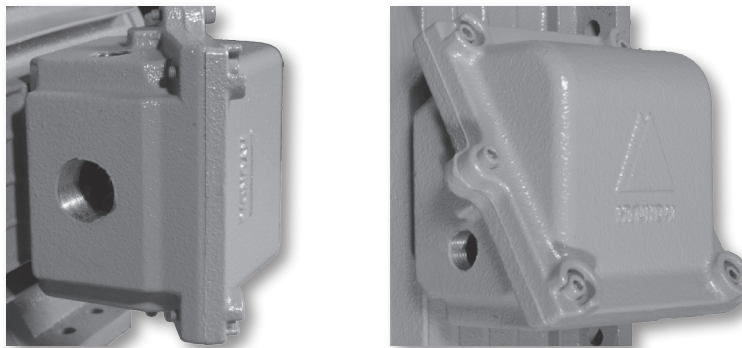
* Prices seen here are list - please call for your multiplier.



HYUNDAI PARTS AND MAINTENANCE MANUAL

Motor Accessories / Parts

HYUNDAI Crown Triton™ Series ▪ Explosion Proof



JUNCTION BOX - INCLUDES BOX & COVER

Frame Size	Model Number	Description	List * Price
EXPLOSION PROOF FAN COVERS - STEEL			
143T / 145T	XHSFC140	FAN COVER (STEEL) FOR FRAMES 143T / 145T	PLEASE CALL FOR PRICING
182T / 184T	XHSFC180	FAN COVER (STEEL) FOR FRAMES 182T / 184T	
213T / 215T	XHSFC210	FAN COVER (STEEL) FOR FRAMES 213T / 215T	
254T / 256T	XHSFC250	FAN COVER (STEEL) FOR FRAMES 254T / 256T	
284T / 286T	XHSFC280	FAN COVER (STEEL) FOR FRAMES 284T / 286T	
324T / 326T	XHSFC320	FAN COVER (STEEL) FOR FRAMES 324T / 326T	
364T / 365T	XHSFC360	FAN COVER (STEEL) FOR FRAMES 364T / 365T	
404T / 405T	XHSFC400	FAN COVER (STEEL) FOR FRAMES 404T / 405T	
444T / 445T / 447T	XHSFC440	FAN COVER (STEEL) FOR FRAMES 444T / 445T / 447T	
449T	XHSFC449	FAN COVER (STEEL) FOR FRAME 449T	
EXPLOSION PROOF JUNCTION BOXES - INCLUDES BOX & COVER			
143T / 145T	XHJBOX140	XP JUNCTION BOX FOR FRAMES 143T / 145T	PLEASE CALL FOR PRICING
182T / 184T	XHJBOX180	XP JUNCTION BOX FOR FRAMES 182T / 184T	
213T / 215T	XHJBOX210	XP JUNCTION BOX FOR FRAMES 213T / 215T	
254T / 256T	XHJBOX250	XP JUNCTION BOX FOR FRAMES 254T / 256T	
284T / 286T	XHJBOX280	XP JUNCTION BOX FOR FRAMES 284T / 286T	
324T / 326T	XHJBOX320	XP JUNCTION BOX FOR FRAMES 324T / 326T	
364T / 365T	XHJBOX360	XP JUNCTION BOX FOR FRAMES 364T / 365T	
404T / 405T	XHJBOX400	XP JUNCTION BOX FOR FRAMES 404T / 405T	
444T / 445T / 447T / 449T	XHJBOX440	XP JUNCTION BOX FOR FRAMES 444T / 445T / 447T / 449T	
EYEBOLTS			
182T / 184T	NEB180	EYEBOLT FOR FRAMES 182T / 184T	\$25.00
213T / 215T	NEB210	EYEBOLT FOR FRAMES 213T / 215T	\$25.00
254T / 256T	NEB250	EYEBOLT FOR FRAMES 254T / 256T	\$40.00
284T / 286T	NEB280	EYEBOLT FOR FRAMES 284T / 286T	\$40.00
324T / 326T	NEB320	EYEBOLT FOR FRAMES 324T / 326T	\$45.00
364T / 365T	NEB360	EYEBOLT FOR FRAMES 364T / 365T	\$50.00
404T / 405T	NEB400	EYEBOLT FOR FRAMES 404T / 405T	\$60.00
44T / 445T / 447T / 449T	NEB440	EYEBOLT FOR FRAMES 444T / 445T / 447T / 449T	\$85.00

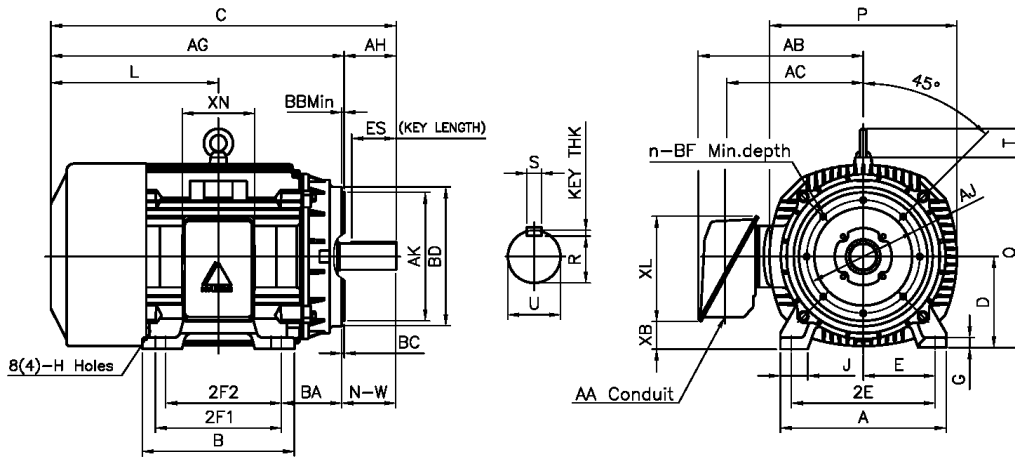
* Prices seen here are list - please call for your multiplier.

HYUNDAI PARTS AND MAINTENANCE MANUAL

Motor Dimensions

HYUNDAI Crown Triton™ Series ▪ Premium Efficiency

TEFC Enclosure ▪ C-Face



ALL DIMENSIONS IN INCHES

Frame	E	2F1	2F2	H	BA	A	B	C	D	G	J	P	O	T	L	S	ES	R	U
143TC	2.75	4.00	5.00	0.34	2.75	6.78	6.15	13.05	3.50	0.45	1.36	7.64	7.46	1.63	6.05	0.188	1.41	0.771	0.875
145TC	2.75	5.00	4.00	0.34	2.75	6.78	6.15	13.05	3.50	0.47	1.36	7.64	7.46	1.63	6.05	0.188	1.41	0.771	0.875
182TC	3.75	4.50	—	0.41	2.75	8.66	6.54	15.52	4.50	0.62	1.74	9.64	9.32	1.63	7.78	0.250	1.78	0.986	1.125
184TC	3.75	5.50	—	0.41	2.75	8.66	6.54	16.55	4.50	0.62	1.74	9.64	9.32	1.63	8.29	0.250	1.78	0.986	1.125
213TC	4.25	5.50	—	0.41	3.50	9.85	6.77	18.86	5.25	0.60	1.52	11.26	11.02	1.63	9.22	0.312	2.41	1.201	1.375
215TC	4.25	7.00	—	0.41	3.50	9.84	8.66	20.36	5.25	0.60	1.52	11.26	11.02	1.63	9.97	0.312	2.41	1.201	1.375
254TC	5.00	8.25	—	0.53	4.25	11.30	9.56	23.13	6.25	0.72	1.93	12.76	12.75	2.01	10.75	0.375	2.91	1.416	1.625
256TC	5.00	10.00	—	0.53	4.25	11.30	11.30	24.86	6.25	0.72	1.93	12.76	12.75	2.01	11.61	0.375	2.91	1.416	1.625
284TC	5.50	9.50	—	0.53	4.75	12.60	11.18	26.21	7.00	0.78	2.20	14.19	14.28	2.01	12.09	0.500	3.28	1.591	1.875
284TSC	5.50	9.50	—	0.53	4.75	12.60	11.18	24.84	7.00	0.78	2.20	14.19	14.28	2.01	12.09	0.375	1.91	1.416	1.625
286TC	5.50	11.00	—	0.53	4.75	12.60	12.68	27.71	7.00	0.78	2.20	14.19	14.28	2.01	12.84	0.500	3.28	1.591	1.875
286TSC	5.50	11.00	—	0.53	4.75	12.60	12.68	26.34	7.00	0.78	2.20	14.19	14.28	2.01	12.84	0.375	1.91	1.416	1.625
324TC	6.25	10.50	12.00	0.66	5.25	14.33	13.78	31.07	8.00	1.11	2.36	15.84	16.19	2.41	14.57	0.500	3.91	1.845	2.125
326TC	6.25	12.00	10.50	0.66	5.25	14.33	13.78	31.07	8.00	1.11	2.36	15.84	16.19	2.41	14.57	0.500	3.91	1.845	2.125
364TC	7.00	11.25	12.25	0.66	5.88	16.14	14.92	34.01	9.00	0.98	2.72	17.75	18.50	2.80	16.13	0.625	4.28	2.021	2.375
365TC	7.00	12.25	11.25	0.66	5.88	16.14	14.92	34.01	9.00	0.98	2.72	17.75	18.50	2.80	16.13	0.625	4.28	2.021	2.375
365TSC	7.00	12.25	11.25	0.66	5.88	16.14	14.92	31.88	9.00	0.98	2.72	17.75	18.50	2.80	16.13	0.500	2.03	1.591	1.875
404TC	8.00	12.25	13.75	0.81	6.62	18.43	16.46	39.42	10.00	1.18	3.03	19.69	20.79	3.55	18.68	0.750	5.65	2.450	2.875
405TC	8.00	13.75	12.25	0.81	6.62	18.43	16.46	39.42	10.00	1.18	3.03	19.69	20.79	3.55	18.68	0.750	5.65	2.450	2.875
405TSC	8.00	13.75	12.25	0.81	6.62	18.43	16.46	36.42	10.00	1.18	3.03	19.69	20.79	3.55	18.68	0.500	2.78	1.845	2.125
444TC	9.00	14.50	16.50	0.81	7.50	20.51	19.21	45.21	11.00	1.42	3.07	22.44	23.19	4.33	20.96	0.875	6.91	2.880	3.375
444TSC	9.00	14.50	16.50	0.81	7.50	20.51	19.21	41.46	11.00	1.42	3.07	22.44	23.19	4.33	20.96	0.625	3.03	2.021	2.375
445TC	9.00	16.50	14.50	0.81	7.50	20.51	19.21	45.21	11.00	1.42	3.07	22.44	23.19	4.33	20.96	0.875	6.91	2.880	3.375
445TSC	9.00	16.50	14.50	0.81	7.50	20.51	19.21	41.46	11.00	1.42	3.07	22.44	23.19	4.33	20.96	0.625	3.03	2.021	2.375
447TC	9.00	20.00	—	0.81	7.50	20.51	22.72	48.71	11.00	1.42	3.07	22.44	23.19	4.33	22.71	0.875	6.91	2.880	3.375
447TSC	9.00	20.00	—	0.81	7.50	20.51	22.72	44.96	11.00	1.42	3.07	22.44	23.19	4.33	22.71	0.625	3.03	2.021	2.375
449TC	9.00	25.00	20.00	0.81	7.50	20.51	27.72	53.83	11.00	1.42	3.07	22.44	23.19	4.33	25.33	0.875	6.91	2.880	3.375

Dimensions shown in this manual are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

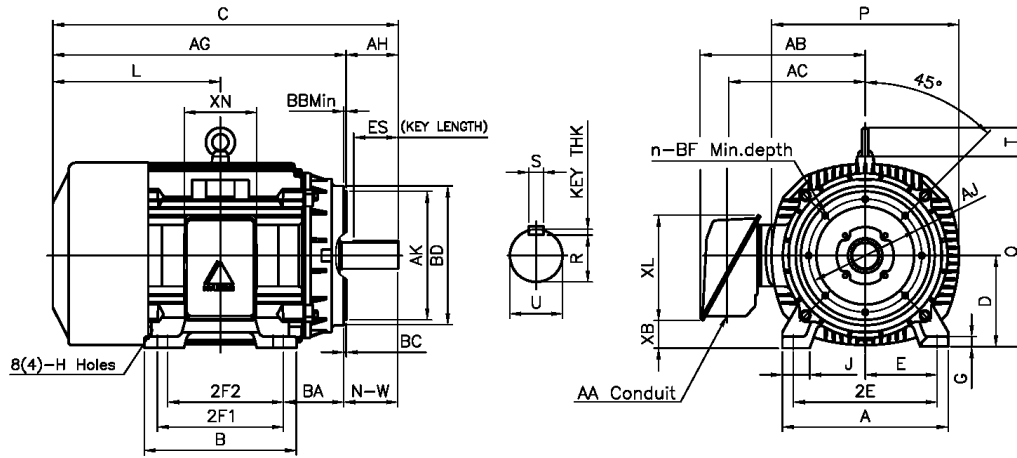


HYUNDAI PARTS AND MAINTENANCE MANUAL

Motor Dimensions

HYUNDAI Crown Triton™ Series ▪ Premium Efficiency

TEFC Enclosure ▪ C-Face



ALL DIMENSIONS IN INCHES

Frame	AA	AB	AC	XB	XL	XN	AJ	AK	BD	BB	BC	AH	BF	n
143TC	0.75	6.73	5.21	1.95	4.10	4.96	5.875	4.50	6.50	0.16	0.12	2.12	3/8 - 16	4
145TC	0.75	6.73	5.21	1.95	4.10	4.96	5.875	4.50	6.50	0.16	0.12	2.12	3/8 - 16	4
182TC	0.75	7.47	6.23	3.03	4.35	5.35	7.250	8.50	8.70	0.25	0.12	2.62	1/2 - 13	4
184TC	0.75	7.47	6.23	2.29	4.35	5.35	7.250	8.50	8.70	0.25	0.12	2.62	1/2 - 13	4
213TC	1.00	8.23	7.34	3.03	4.35	5.35	7.250	8.50	9.00	0.25	0.25	3.12	1/2 - 13	4
215TC	1.00	8.23	7.34	3.03	4.35	5.35	7.250	8.50	9.00	0.25	0.25	3.12	1/2 - 13	4
254TC	1.25	11.88	9.08	1.66	7.56	5.35	7.250	8.50	9.68	0.25	0.25	3.75	1/2 - 13	4
256TC	1.25	11.88	9.08	1.66	7.56	3.35	7.250	8.50	9.68	0.25	0.25	3.75	1/2 - 13	4
284TC	1.50	12.43	9.64	2.31	7.56	5.35	9.000	10.50	10.90	0.25	0.25	4.38	1/2 - 13	4
284TSC	1.50	12.43	9.64	2.31	7.56	3.35	9.000	10.50	10.90	0.25	0.25	3.00	1/2 - 13	4
286TC	1.50	12.43	9.64	2.31	7.56	5.35	9.000	10.50	10.90	0.25	0.25	4.38	1/2 - 13	4
286TSC	1.50	12.43	9.64	2.31	7.56	5.35	9.000	10.50	10.90	0.25	0.25	3.00	1/2 - 13	4
324TC	2.00	15.20	11.21	1.57	10.16	7.01	11.000	12.50	13.27	0.25	0.25	5.00	3/8 - 11	4
326TC	2.00	15.20	11.21	1.57	10.16	7.01	11.000	12.50	13.27	0.25	0.25	5.00	3/8 - 11	4
364TC	3.00	17.13	13.82	2.70	10.24	7.09	11.000	12.50	13.38	0.25	0.25	5.62	3/8 - 11	8
365TC	3.00	17.13	13.82	2.70	10.24	7.09	11.000	12.50	13.38	0.25	0.25	5.62	3/8 - 11	8
365TSC	3.00	17.13	13.82	2.70	10.24	7.09	11.000	12.50	13.78	0.25	0.25	3.50	3/8 - 11	8
404TC	3.00	20.28	14.85	2.83	11.65	10.63	11.000	12.50	13.78	0.25	0.25	7.00	3/8 - 11	8
405TC	3.00	20.28	14.85	2.83	11.65	10.63	11.000	12.50	13.78	0.25	0.25	7.00	3/8 - 11	8
405TSC	3.00	20.28	14.85	2.83	11.65	10.63	11.000	12.50	13.78	0.25	0.25	4.00	3/8 - 11	8
444TC	3.00	21.26	18.03	3.83	11.65	10.63	14.000	16.00	16.93	0.25	0.25	8.25	3/8 - 11	8
444TSC	3.00	21.26	18.03	3.83	11.65	10.63	14.000	16.00	16.93	0.25	0.25	4.50	3/8 - 11	8
445TC	3.00	21.26	18.03	3.83	11.65	10.63	14.000	16.00	16.93	0.25	0.25	8.25	3/8 - 11	8
445TSC	3.00	21.26	18.03	3.83	11.65	10.63	14.000	16.00	16.93	0.25	0.25	4.50	3/8 - 11	8
447TC	3.00	21.26	18.03	3.83	11.65	10.63	14.000	16.00	16.93	0.25	0.25	8.25	3/8 - 11	8
447TSC	3.00	21.26	18.03	3.83	11.654	10.63	14.000	16.00	16.93	0.25	0.25	4.50	3/8 - 11	8
449TC	3.00	21.26	18.03	3.83	11.65	10.63	14.000	16.00	16.93	0.25	0.25	8.25	3/8 - 11	8

MOTOR DIMENSIONS

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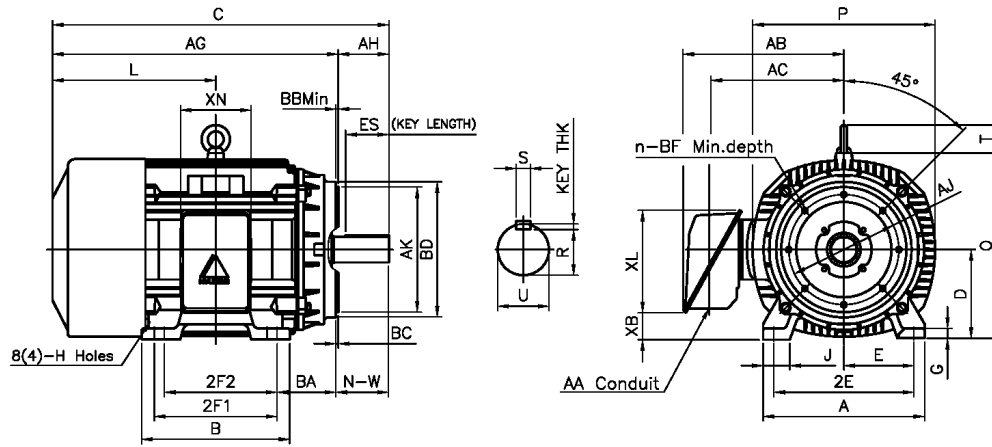


HYUNDAI PARTS AND MAINTENANCE MANUAL

Motor Dimensions

HYUNDAI Crown Triton™ Series ▪ IEEE-841

TEFC Enclosure ▪ C-Face



ALL DIMENSIONS IN INCHES

Frame	E	2F1	2F2	H	BA	A	B	C	D	G	J	P	O	T	L	S	ES	R	U
143TC	2.75	4.00	5.00	0.34	2.75	6.78	6.15	13.05	3.50	0.47	1.36	7.64	7.46	1.63	6.05	0.188	1.41	0.771	0.875
145TC	2.75	5.00	4.00	0.34	2.75	6.78	6.15	13.05	3.50	0.47	1.36	7.64	7.46	1.63	6.05	0.188	1.41	0.771	0.875
182TC	3.75	4.50	—	0.41	3.50	8.66	5.52	15.09	4.50	0.62	1.74	9.64	9.32	1.63	7.64	0.250	1.78	0.986	1.125
184TC	3.75	5.50	—	0.41	3.50	8.66	6.54	16.12	4.50	0.62	1.74	9.64	9.32	1.63	7.85	0.250	1.78	0.986	1.125
213TC	4.25	5.50	—	0.41	4.25	9.85	6.77	18.86	5.25	0.60	1.52	11.26	11.02	1.63	9.22	0.312	2.41	1.201	1.375
215TC	4.25	7.00	—	0.41	4.25	9.84	8.66	20.36	5.25	0.60	1.52	11.26	11.02	1.63	9.97	0.312	2.41	1.201	1.375
254TC	5.00	8.25	—	0.53	4.75	11.30	9.56	24.93	6.25	0.72	1.93	12.76	12.75	2.01	11.68	0.375	2.91	1.416	1.625
256TC	5.00	10.00	—	0.53	4.75	11.30	11.30	24.93	6.25	0.72	1.93	12.76	12.75	2.01	11.68	0.375	2.91	1.416	1.625
284TC	5.50	9.50	—	0.53	4.75	12.60	11.18	24.93	7.00	0.78	2.20	14.19	14.28	2.01	11.68	0.500	3.28	1.591	1.875
284TSC	5.50	9.50	—	0.53	4.75	12.60	11.18	26.28	7.00	0.78	2.20	14.19	14.28	2.01	12.16	0.375	1.91	1.416	1.625
286TC	5.50	11.00	—	0.53	4.75	12.60	12.68	26.28	7.00	0.78	2.20	14.19	14.28	2.01	12.16	0.500	3.28	1.591	1.875
286TSC	5.50	11.00	—	0.53	4.75	12.60	12.68	26.28	7.00	0.78	2.20	14.19	14.28	2.01	12.16	0.375	1.91	1.416	1.625
324TC	6.25	10.50	12.00	0.66	5.25	14.33	13.78	32.90	8.00	1.11	2.36	15.84	16.19	2.41	14.90	0.500	3.91	1.845	2.125
324TSC	6.25	10.50	12.00	0.66	5.25	14.33	13.78	32.90	8.00	1.11	2.36	15.84	16.19	2.41	14.90	0.500	2.03	1.591	1.875
326TC	6.25	12.00	10.50	0.66	5.25	14.33	13.78	32.90	8.00	1.11	2.36	15.84	16.19	2.41	14.90	0.500	3.91	1.845	2.125
326TSC	6.25	12.00	10.50	0.66	5.25	14.33	13.78	32.90	8.00	1.11	2.36	15.84	16.19	2.41	14.90	0.500	2.03	1.591	1.875
364TC	7.00	11.25	12.25	0.66	5.88	16.14	14.92	35.20	9.00	0.98	2.72	18.23	18.50	2.80	17.32	0.625	4.28	2.021	2.375
365TC	7.00	12.25	11.25	0.66	5.88	16.14	14.92	35.20	9.00	0.98	2.72	18.23	18.50	2.80	17.32	0.625	4.28	2.021	2.375
405TC	8.00	13.75	12.25	0.81	5.88	18.43	16.46	41.01	10.00	1.18	3.03	20.16	20.79	3.55	20.57	0.750	5.65	2.450	2.875

MOTOR DIMENSIONS

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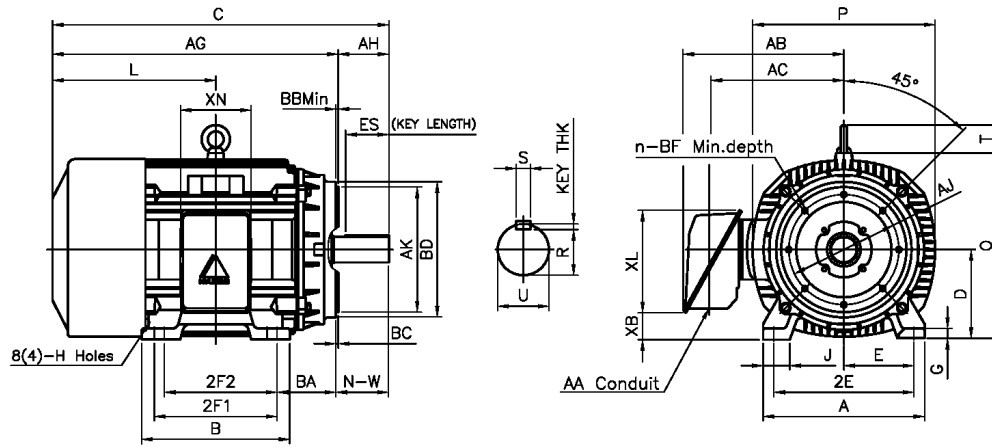


HYUNDAI PARTS AND MAINTENANCE MANUAL

Motor Dimensions

HYUNDAI Crown Triton™ Series ▪ IEEE-841

TEFC Enclosure ▪ C-Face



ALL DIMENSIONS IN INCHES

Frame	AA	AB	AC	XB	XL	XN	AJ	AK	BD	BB	BC	AH	BF	n
143TC	0.75	7.02	5.34	1.53	5.26	4.61	5.875	4.50	6.50	0.16	0.12	2.12	3/8 - 16	4
145TC	0.75	7.02	5.34	1.53	5.26	4.61	5.875	4.50	6.50	0.16	0.12	2.12	3/8 - 16	4
182TC	0.75	9.06	7.14	1.93	5.97	5.71	7.250	8.50	8.70	0.25	0.12	2.62	1/2 - 13	4
184TC	0.75	9.06	7.14	1.93	5.97	5.71	7.250	8.50	8.70	0.25	0.12	2.62	1/2 - 13	4
213TC	1.00	9.82	7.90	2.67	5.97	5.71	7.250	8.50	9.00	0.25	0.25	3.12	1/2 - 13	4
215TC	1.00	9.82	7.90	2.67	5.97	5.71	7.250	8.50	9.00	0.25	0.25	3.12	1/2 - 13	4
254TC	1.25	11.88	9.08	2.63	7.56	6.61	7.250	8.50	9.68	0.25	0.25	3.75	1/2 - 13	4
256TC	1.25	11.88	9.08	2.63	7.56	6.61	7.250	8.50	9.68	0.25	0.25	3.75	1/2 - 13	4
284TC	1.50	12.43	9.64	3.42	7.56	6.61	9.000	10.50	10.90	0.25	0.25	4.38	1/2 - 13	4
284TSC	1.50	12.43	9.64	3.42	7.56	6.61	9.000	10.50	10.90	0.25	0.25	3.00	1/2 - 13	4
286TC	1.50	12.43	9.64	3.42	7.56	6.61	9.000	10.50	10.90	0.25	0.25	4.38	1/2 - 13	4
286TSC	1.50	12.43	9.64	3.42	7.56	6.61	9.000	10.50	10.90	0.25	0.25	3.00	1/2 - 13	4
324TC	2.00	15.20	11.21	1.57	10.16	7.01	11.000	12.50	13.27	0.25	0.25	5.00	3/8 - 11	4
324TSC	2.00	15.20	11.21	1.57	10.16	7.01	11.000	12.50	13.27	0.25	0.25	3.50	3/8 - 11	4
326TC	2.00	15.20	11.21	1.57	10.16	7.01	11.000	12.50	13.27	0.25	0.25	5.00	3/8 - 11	4
326TSC	2.00	15.20	11.21	1.57	10.16	7.01	11.000	12.50	13.27	0.25	0.25	3.50	3/8 - 11	4
364TC	3.00	17.13	13.82	2.70	10.24	7.09	11.000	12.50	13.38	0.25	0.25	5.62	3/8 - 11	8
365TC	3.00	17.13	13.82	2.70	10.24	7.09	11.000	12.50	13.38	0.25	0.25	5.62	3/8 - 11	8
405TC	3.00	20.28	14.85	2.83	11.65	10.63	11.000	12.50	13.78	0.25	0.25	7.00	3/8 - 11	8

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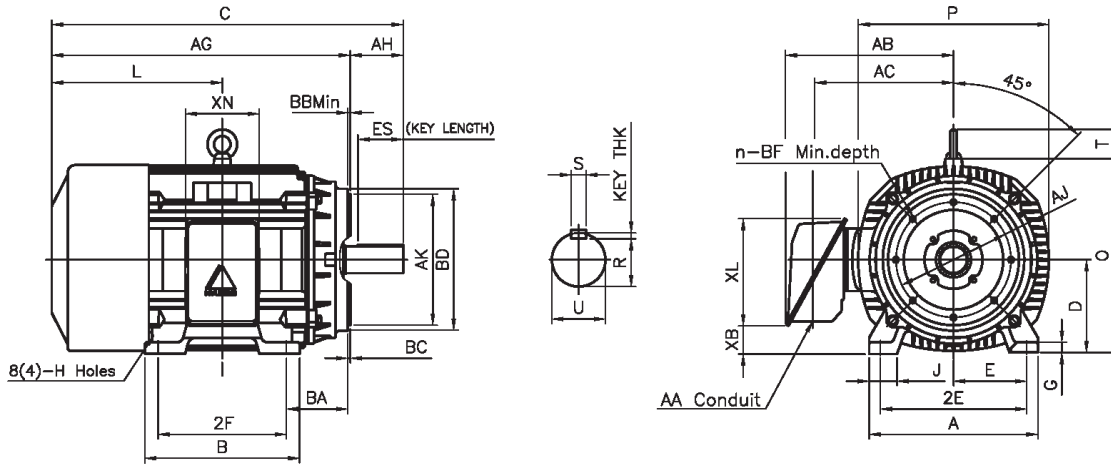


HYUNDAI PARTS AND MAINTENANCE MANUAL

Motor Dimensions

HYUNDAI Crown Triton™ Series ▪ Explosion Proof

TEXP Enclosure ▪ C-Face



ALL DIMENSIONS IN INCHES

Frame	E	2F	H	BA	A	B	C	D	G	J	P	O	T	L	S	ES	R	U
145TC	2.75	5.00	0.34	2.75	6.78	6.15	13.05	3.50	0.47	1.36	7.64	7.46	1.63	6.05	0.188	1.41	0.771	0.875
182TC	3.75	4.50	0.41	2.75	8.66	5.52	15.52	4.50	0.62	1.74	9.64	9.32	1.63	7.78	0.250	1.78	0.986	1.125
184TC	3.75	5.50	0.41	2.75	8.66	6.54	16.55	4.50	0.62	1.74	9.64	9.32	1.63	8.29	0.250	1.78	0.986	1.125
213TC	4.25	5.50	0.41	3.50	9.85	6.77	18.86	5.25	0.60	1.52	11.26	11.02	1.63	9.22	0.312	2.41	1.201	1.375
215TC	4.25	7.50	0.41	3.50	9.84	8.66	20.36	5.25	0.60	1.52	11.26	11.02	1.63	9.97	0.312	2.41	1.201	1.375
254TC	5.00	8.25	0.53	4.25	11.30	9.56	23.13	6.25	0.72	1.93	12.76	12.75	2.01	10.75	0.375	2.91	1.416	1.625
256TC	5.00	10.00	0.53	4.25	11.30	11.30	24.86	6.25	0.72	1.93	12.76	12.75	2.01	11.61	0.375	2.91	1.416	1.625
284TC	5.50	9.50	0.53	4.75	12.60	11.18	26.21	7.00	0.78	2.20	14.19	14.28	2.01	12.09	0.500	3.28	1.519	1.875
286TC	5.50	11.00	0.53	4.75	12.60	12.68	27.71	7.00	0.78	2.20	14.19	4.28	2.01	12.84	0.500	3.28	1.591	1.875
324TC	6.25	10.50	0.66	5.25	14.33	15.74	33.03	8.00	1.11	2.35	15.84	16.19	2.41	15.55	0.500	3.91	1.845	2.125
326TC	6.25	12.00	0.66	5.25	14.33	15.74	33.03	8.00	1.11	2.36	15.84	16.19	2.41	15.55	0.500	3.91	1.845	2.125
364TC	7.00	11.25	0.66	5.88	15.98	14.41	34.38	9.00	0.98	2.44	18.03	18.70	2.80	16.51	0.625	4.28	2.021	2.375
365TC	7.00	12.25	0.66	5.88	15.98	14.41	34.38	9.00	0.98	2.44	18.03	18.70	2.80	16.51	0.625	4.28	2.021	2.375
365TSC	7.00	12.25	0.66	5.88	15.98	14.41	34.01	9.00	0.98	2.44	18.03	18.70	2.80	16.51	0.500	2.03	1.591	1.875
405TC	8.00	13.75	0.81	6.62	18.11	15.98	39.33	10.00	1.18	2.59	20.00	20.94	3.55	18.60	0.750	5.65	2.450	2.875
405TSC	8.00	13.75	0.81	6.62	18.11	15.98	36.33	10.00	1.18	2.59	20.00	20.94	3.55	18.60	0.500	2.78	1.845	2.125

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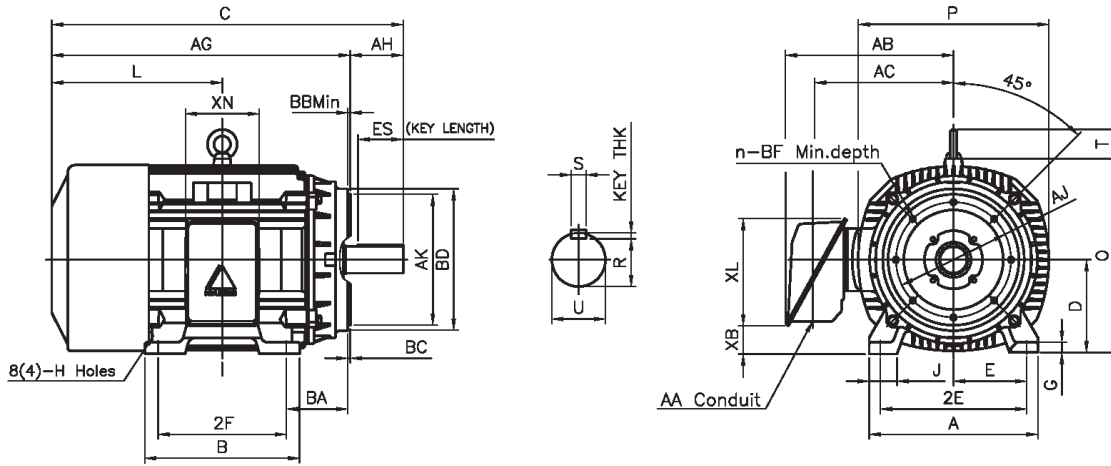


HYUNDAI PARTS AND MAINTENANCE MANUAL

Motor Dimensions

HYUNDAI Crown Triton™ Series ▪ Explosion Proof

TEXP Enclosure ▪ C-Face



ALL DIMENSIONS IN INCHES

Frame	AA	AB	AC	XB	XL	XN	AJ	AK	BD	BB	BC	AH	BF	n
145TC	0.75	8.39	5.59	—	6.69	5.98	5.875	4.50	6.57	0.16	0.12	2.12	3/8 - 16	4
182TC	0.75	9.38	6.58	—	6.69	5.98	7.250	8.50	8.70	0.25	0.12	2.62	1/2 - 13	4
184TC	0.75	9.38	6.58	—	6.69	5.98	7.250	8.50	8.70	0.25	0.12	2.62	1/2 - 13	4
213TC	1.00	10.15	7.35	—	6.69	5.98	7.250	8.50	9.00	0.25	0.25	3.12	1/2 - 13	4
215TC	1.00	10.15	7.35	—	6.69	5.98	7.250	8.50	9.00	0.25	0.25	3.12	1/2 - 13	4
254TC	1.25	12.01	9.51	3.15	6.30	7.32	7.250	8.50	9.68	0.25	0.25	3.75	1/2 - 13	4
256TC	1.25	12.01	9.51	3.15	6.30	7.32	7.250	8.50	9.68	0.25	0.25	3.75	1/2 - 13	4
284TC	1.50	12.60	10.10	3.94	6.30	7.32	9.000	10.50	10.90	0.25	0.25	4.38	1/2 - 13	4
286TC	1.50	12.60	10.10	3.94	6.30	7.32	9.000	10.50	10.90	0.25	0.25	4.38	1/2 - 13	4
324TC	2.00	15.27	11.02	3.94	7.87	11.26	11.000	12.50	13.27	0.25	0.25	5.00	3/8 - 11	4
326TC	2.00	15.27	11.02	3.94	7.87	11.26	11.000	12.50	13.27	0.25	0.25	5.00	3/8 - 11	4
364TC	3.00	18.89	14.37	2.24	12.28	10.86	11.000	12.50	13.38	0.25	0.25	5.62	3/8 - 11	8
365TC	3.00	18.89	14.37	2.24	12.28	10.86	11.000	12.50	13.38	0.25	0.25	5.62	3/8 - 11	8
365TSC	3.00	18.89	14.37	2.24	12.28	10.86	11.000	12.50	13.78	0.25	0.25	3.50	3/8 - 11	8
405TC	3.00	22.83	17.32	2.16	15.35	13.97	11.000	12.50	13.78	0.25	0.25	7.00	3/8 - 11	8
405TSC	3.00	22.83	17.32	2.16	15.35	13.97	11.000	12.50	13.78	0.25	0.25	4.00	3/8 - 11	8

MOTOR DIMENSIONS

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HYUNDAI PARTS AND MAINTENANCE MANUAL

Warranty Policy



WARRANTY LENGTH:

The warranty length for HYUNDAI electric motors is as follows:

HYUNDAI PREMIUM EFFICIENCY MOTORS	Three (3) years from date of sale (invoice)
HYUNDAI IEEE-841 MOTORS	Five (5) years from date of sale (invoice)
HYUNDAI EXPLOSION PROOF MOTORS	Three (3) years from date of sale (invoice)

PROCEDURE:

ALL HYUNDAI ELECTRIC MOTORS WITH THE EXCEPTION OF EXPLOSION PROOF MOTORS:

1. Motors up to and including 40 HP are covered by our no-fault policy. If the motor has failed within the warranty period, the nameplate must be mailed to WorldWide Electric for credit. WorldWide shall not be liable for any labor or operating costs connected with the replacement of the motor. The purchaser shall be responsible for any transportation charges connected with the replacement of the motor.
2. Motors 50 HP and above must be inspected by an authorized EASA service center or other approved motor shop for determination of cause of failure. Authorized EASA service centers are available inside and outside of the United States. Visit the EASA website at www.easa.com to find the nearest authorized service center. These shops may also be able to assist with non-warranty service.
3. The service center must provide a written estimate for inspection and a purchase order must be issued by WorldWide Electric prior to the motor inspection.
4. If the failure is determined to be from a defect in material or workmanship when operated under normal conditions and in accordance with nameplate characteristic limits, WorldWide Electric shall either repair or replace the motor. WorldWide Electric shall not be liable for any labor or operating costs connected with the repair / replacement of the motor.
5. Should WorldWide choose to repair the motor, the service center must provide a written estimate for repair and a purchase order must be issued by WorldWide Electric prior to the repair being performed.
6. Should WorldWide Electric choose to replace the motor, the purchaser shall be responsible for any transportation charges connected with the replacement of the motor.

EXPLOSION PROOF MOTORS:

1. Motors must be inspected by a UL certified / authorized EASA service center for determination of cause of failure. Authorized EASA service centers are available inside and outside of the United States. Visit the EASA website at www.easa.com to find the nearest authorized service center. These shops may also be able to assist with non-warranty service.
2. The service center must provide a written estimate for inspection and a purchase order must be issued by WorldWide Electric prior to the motor inspection.
3. If the failure is determined to be from a defect in material or workmanship when operated under normal conditions and in accordance with nameplate characteristic limits, WorldWide Electric shall either repair or replace the motor. WorldWide Electric shall not be liable for any labor or operating costs connected with the repair / replacement of the motor.
4. Should WorldWide choose to repair the motor, the service center must provide a written estimate for repair and a purchase order must be issued by WorldWide Electric prior to the repair being performed.
5. Should WorldWide Electric choose to replace the motor, the purchaser shall be responsible for any transportation charges connected with the replacement of the motor.

This warranty does not apply if the failure is caused or contributed to by the following: improper handling of the motor, improper storage, improper installation, abuse, unsuitable or wrong application of the product, lack of reasonable and necessary maintenance, improper packaging for return, or repairs made or attempted by any other company, which in the judgement of WorldWide Electric adversely affects the product's performance or reliability. In no event shall WorldWide Electric be liable for loss of profits, indirect or consequential.

No products shall be returned to WorldWide Electric without its prior consent and a written return authorization number. All item(s) must be properly packaged with RGA number affixed to the package and shipped prepaid unless otherwise stated in the RGA.



HYUNDAI PARTS AND MAINTENANCE MANUAL

Installation and Maintenance



This manual includes procedures for the safe and proper transportation, installation, connection, operation and maintenance of HYUNDAI electric motors. Read these instructions carefully before attempting to install, operate or service the motors and retain for future reference.

Safety precautions must be observed to protect personnel from possible injury which can be caused by improper handling of the motor, including high voltages, hot surfaces and rotating parts.

RECEIVING:

- ☑ Check the motor nameplate data (HP, # of poles / RPM, voltage, frame size, enclosure, etc.) and confirm that it corresponds to your requirements.
- ☑ Check for any damage that could have been caused by transportation. Make sure that there are no loose parts on the motor, inside the fan cover on TEFC motors, or visible through the cooling openings on ODP motors.
- ☑ If a shaft clamp or other shipping braces (painted yellow) are installed on the motor for transport, remove these and retain for future use.
- ☑ Turn the shaft by hand to ensure that it rotates freely and smoothly. Listen for any sounds of mechanical resistance or impact. If any are present, please check with your local representative.



CAUTION: If the motor is supplied with eyebolts for lifting purposes, make certain that these are tightened securely. Use these for lifting the motor only. Do not use these for lifting any equipment mounted to the motor. Note that the direction of lift should not exceed 15 degrees from the shank of the eyebolt.

WARNINGS:

- ! High Voltage, hot surfaces and rotating parts of electrical machinery can cause serious or fatal injury to persons and property. Only properly trained, qualified personnel should perform installation, operation and maintenance on the equipment and this should be done in accordance with NEMA MG-2, National Electrical Code, CSA C22-100 (C.E.C), IEC 364 (prEN50110-01), and all local and utility regulations and safety standards.
- ! When preparing to service the motor, all power sources to the motor and accessory devices must be de-energized and disconnected. All rotating parts of the equipment must be at a standstill. Follow all regulations in locking out the power source to prevent accidental reconnection.
- ! Before the motor is re-energized, make sure that all safety guards are in place and that the shaft key is fully captive or removed.
- ! When working near machinery, high noise levels and proper ear protection must be used. Refer to local and national safety regulations.
- ! Automatic reset thermal protection should not be used where an unexpected automatic restart would be hazardous to personnel.
- ! The motor should be grounded properly to protect against fatal injury to personnel. Refer to NEC, CSA, and local utility regulations for correct method of doing this. Note that grounding cables must be securely fastened to be effective and that lugs must be crimped to the cable using a proper crimping tool.

HYUNDAI PARTS AND MAINTENANCE MANUAL

Installation and Maintenance



WARNINGS: (Continued)

- ! The repair of explosion proof motors should only be made by an authorized service center that is certified by Underwriters Laboratories (UL), Canadian Standards Association (CSA) or any other appropriate agency. Failure to comply with this will violate the hazardous duty certifications of the motor. The use of a non explosion proof motor in hazardous areas is strictly prohibited. Contact WorldWide Electric or your local authorized representative for assistance.

STORAGE:

1. When motor is not in operation, the following precautionary measures must be undertaken to ensure that motor life is not reduced:
 - The location should be dry, without direct sunlight, well ventilated, and free of dust or corrosive gas.
 - The motor should not be stored near a heat or cold source (i.e. boiler / freezer).
 - The storage area should be free of vibration.
 - The motor should be easily accessible.
2. Specific precautions should be taken to prevent the entrance of moisture, dust or dirt.
3. Before commissioning, the motor's insulation should be tested with a 500VDC megger. If the resistance value of the insulation is less than 1MΩ, the windings must be dried prior to energizing.

LOCATION:

- ☑ Open drip proof motors (IEC protection ≤ IP23) are intended for use in a well ventilated area where the atmosphere is reasonably free of dirt, moisture, corrosive agents, and is not intended for use outdoors.
- ☑ Totally enclosed motors (IEC protection ≥ IP44) are intended for use where they are exposed to dirt, moisture, dust and most outdoor conditions. Standard enclosed motors require special features in environments where there is extremely fine abrasive dust or corrosive chemicals present, or in outdoor applications where weather protection should be considered.
- ☑ Explosion proof motors are intended for use in hazardous areas classified by UL, National Electrical Code (NEC), CSA, and IEC79 (EN 50 014 and EN 50 018).
- ☑ Mill and chemical, heavy duty totally enclosed motors are intended for use in areas the same as standard enclosed motors, but where there are also corrosive agents or high moisture content in the environment.
- ☑ Standard motors are suitable for use in ambient temperatures between -20°C (-40°C with low temperature grease) to +40°C, and at elevations at or below 1,000 meters (3,300 feet) above sea level.

MOUNTING:

1. Make certain that the underside of the motor feet and/or the flange are clean and free of dirt. If necessary, wipe with clean cloth using a non abrasive cleaning solution. Remove any masking materials or any rust inhibitive coating from the mounting surfaces and the shaft.
2. Motors must be mounted securely on a firm and flat base or onto a rigid flange capable of supporting the entire motor weight. The mounting bolts must be tightened evenly to a minimum of the torque specified in (TABLE 1) to prevent a change in alignment and the resulting damage to equipment. These values are for medium carbon steel bolts (identified by 3 radial lines at 120° on the bolt head-ANSI Grade 5). For low carbon steel bolts (ANSI Grade 2) use 50% of this torque.





MOUNTING: (Continued)

MOUNTING TABLE 1:

Bolt Size		Recommended Torque	
Inch	Metric	Ft. lb.	N-M
1/4	M6	7-11	9-15
5/16	M8	14-21	19-28
3/8	M10	25-37	34-50
1/2	M12	60-90	81-122
5/8	M16	120-180	163-244
3/4	M20	210-320	285-433

3. All ball bearing motors (frame up to and including NEMA 326T(IEC 200L)) can be mounted in all positions shown in NEMA MG1-4.03 provided that the mounting surface is stable, solid and the drain holes are located properly. For recommendations for other applications please contact WorldWide Electric.
4. When using a direct coupling, align motor shaft to driven shaft as accurately as possible. Although a flexible coupling is designed to transmit power with some angular and parallel misalignment, this will affect the life of the motor bearings.
5. If bolted-on bases are removed from totally enclosed motors, the integrity of the enclosure must be maintained by resealing the bolt holes using shorter bolts. Do not reuse the original bolts as these will be too long and will interfere in the proper operation of the motor.
6. Remove drain plugs from the endshield or frame on totally enclosed motors. It is critical that the motor be mounted with these at the lowest point of the frame. If the motor is to be mounted with the feet in any position except down, these must be relocated to the appropriate position. Contact a WorldWide Electric representative for assistance.
7. The use of pulleys, sheaves, sprockets or gears on motor shafts is defined in NEMA MG1-14.07. The application of V-belt sheave dimensions on AC motors is shown in NEMA MG1-14.41. The pitch diameter must not be less than indicated in (TABLE 2) and the maximum sheave width must not exceed:
 - (N-W) for Narrow Type (3V, 5V, 8V) sheaves
 - 2x (N -W)- ¼" for Conventional Type (A, B, C, D, E) sheaves
 - (N-W) is the usable shaft length (IEC designation is dim. E)
8. For sheave ratios greater than 5:1 and center distances less than the diameter of the large sheave, please contact WorldWide Electric Corporation.
9. Mount the pulley or half coupling to the motor shaft using a non-impact method. Do not hammer on the motor shaft as this will cause brinelling of the bearings, leading to premature failure of the motor.
10. The motor is balanced using a half key. Therefore, the motor pulley or half coupling should be balanced with a half key.
11. After mounting the coupling or the belt and pulleys, a guard must be placed over all of the moving parts to protect against accidental contact and injury.
12. Do not over tension the belts as this will lead to excessive overhung load on the motor bearing, causing a significant reduction in bearing life and premature failure of the motor.
13. Make certain that there is an adequate space around the motor for ventilation. If using a belt pulley, the ventilation opening at the rim of the pulley is essential for the motor's cooling. All ventilation openings must not be obstructed and any wall or divider should be mounted a minimum of 1inch (25mm) away from the motor.



HYUNDAI PARTS AND MAINTENANCE MANUAL

Installation and Maintenance



MOUNTING: (Continued)

MOUNTING TABLE 2:

Horsepower at Synchronous Speed, RPM				V-Belt Sheave	
				Conventional A, B, C, D, E	Narrow 3V, 5V, 8V
3600	1800	1200	900	Minimum Pitch Diameter (inch)	Minimum Outside Diameter (inch)
1.5	1	0.75	0.5	2.2	2.2
2-3	1.5-2	1	0.75	2.4	2.4
3	3	1.5	1	2.4	2.4
---	---	2	1.5	2.4	2.4
5	---	---	---	2.6	2.4
7.5-10	5-7.5	3-5	2-3	3.0	3.0
15	10	7.5	5	3.8	3.8
20-25	15	10	7.5	4.4	4.4
---	20	15	10	4.6	4.4
---	25	---	---	5.0	4.4
---	30	20	15	5.4	5.2
---	40	25	20	6.0	6.0
---	50	30-40	25-30	6.8	6.8
---	60	---	---	7.4	7.4
---	---	50	40	8.2	8.2
---	75	---	---	9.0	8.6
---	---	60	---	9.0	8.0
---	---	---	50	9.0	8.4
---	100	---	---	10.0	8.6
---	---	75	60	10.0	10.0
---	125	---	---	11.5	10.5
---	---	100	---	11.0	10.0
---	---	---	75	10.5	9.5
---	150	---	---	---	10.5
---	---	125	100	12.5	12.0
---	200	---	---	---	13.2



CAUTION: In all cases, no surrounding structure should obstruct normal flow of ventilation air through or over the motor.



POWER SUPPLY AND CONNECTIONS:

1. The wiring of the motor and control, as well as the grounding and overload protection, must be performed in accordance with National Electrical Code, CSA C22-100(C.E.C) and all local and utility regulations and safety standards. Installation should be done only by properly trained and qualified personnel.
2. The power supply must agree with the nameplate voltage and frequency. The permissible variation on the power supply is:
 - For NEMA rate motors:
Rated voltage: $\pm 10\%$
Rated frequency: $\pm 5\%$
Combined: $\pm 10\%$ (with frequency component not to exceed $\pm 5\%$)
 - For IEC rated motors (per IEC 34-1, EN60034-1):
Rated voltage: $\pm 5\%$
Rated frequency: $\pm 2\%$
3. Thermally protected motors will have 2 wires in the main terminal box identified as "P1" and "P2". These should be connected to the motor starter or control circuit according to the connection diagram found inside the terminal box.



CAUTION: All explosion proof motors are equipped with thermostats. These must be connected to the motor control in order to maintain the factory warranty and for the installation to comply with CSA, UL, NFPA, WCB and other governing regulations.

Motors equipped with a manual reset button or automatic reset overloads do not require any external hook up to the control circuitry. Manual protected motors can be reset after the motor has cooled down by pushing the "RESET" button. Automatic type overloads do not have an external button and will reset by themselves when the motor has cooled down sufficiently.



CAUTION: Do not use automatic reset protected motor where unexpected start could cause injury to operating personnel.

4. Dual voltage motors can be hooked up for the desired voltage as shown in the connection diagram inside the conduit box.
5. The main terminal box supplied with the motor has been sized to provide adequate space for the connections between the motor leads and the incoming power cables. These connections must be made and insulated in a workmanlike manner following the best trade practices and in strict adherence to local regulations.
6. Before closing the terminal box, make certain that the opening around the incoming power cables and any other opening is completely sealed and a proper cable gland is in place. When installing the terminal box cover to the base, install the gasket provided and ensure that the components fit together properly. Any modifications done to the terminal box must allow it to maintain the same enclosure as that of the motor and the original box.
7. For the motors equipped with a mechanical brake, check that the brake operates properly prior to commissioning the motor.
8. Standard connections for three-phase motors are shown in Diagrams (A-E). Use appropriately sized cable connectors when making the connections, and ensure that these are tight and insulated properly before applying power. To change the direction of rotation, interchange any of two of the incoming power leads

CONNECTION DIAGRAMS:



CAUTION: If rotation must be changed, ALLOW THE MOTOR TO STOP COMPLETELY.

DIAGRAM A

a) Single Voltage, 3 leads

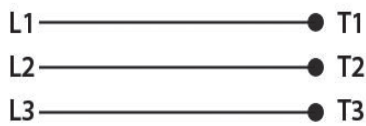


DIAGRAM B

HYUNDAI 6 LEAD MOTORS
(150 HP AND ABOVE)

DELTA RUN

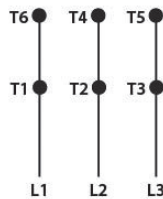
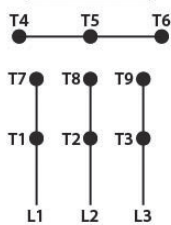


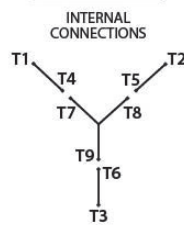
DIAGRAM C

HYUNDAI 9 LEAD MOTORS
215T FRAME AND BELOW

LOW VOLTAGE



CONNECTIONS



HIGH VOLTAGE

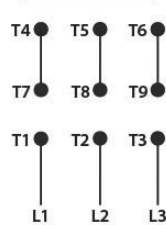
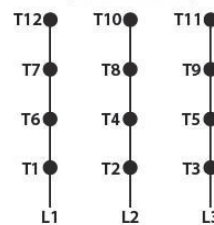


DIAGRAM D

HYUNDAI 12 LEAD MOTORS
254T AND ABOVE (125 HP MAX)

LOW VOLTAGE



HIGH VOLTAGE

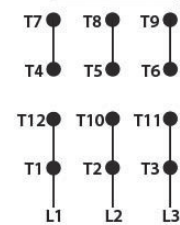
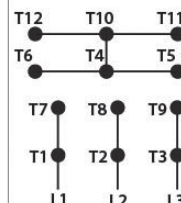


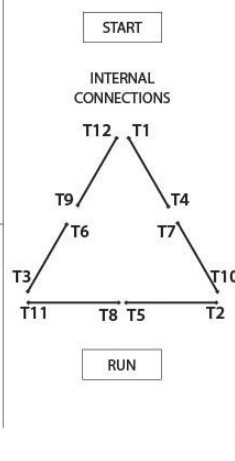
DIAGRAM E

a) Dual voltage, 12 leads
b) Wye Start/Delta Run

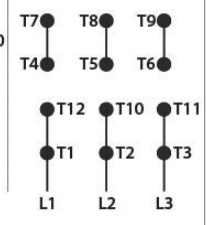
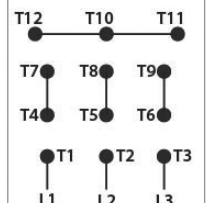
LOW VOLTAGE



CONNECTIONS



HIGH VOLTAGE



HYUNDAI PARTS AND MAINTENANCE MANUAL

Installation and Maintenance



TESTING:

If the motors have been in storage for an extensive period of time or have been subjected to adverse moisture conditions, it is best to check the insulation resistance of the stator winding with a megohmmeter. Depending on the length and condition of storage, it may be necessary to regrease or change rusted bearings. If resistance is lower than 1 megohm, the windings should be dried in one of the following ways:

1. Bake in oven at temperature below 194°F until insulation resistance remains constant for a minimum of 30 minutes
2. Enclose the motor with a canvas or similar covering, leaving an opening at the top for moisture to escape. Insert a heater or lamps into this enclosure, taking care not to place these devices in a way that creates hot spots in the motor windings. Leave the heating devices in the enclosure until the insulation resistance remains constant for a minimum of 30 minutes.
3. With the rotor locked, apply low voltage (approximately 10% of nameplate voltage) and gradually increase current through windings until temperature measured with thermometer reaches 85°C (184°F). Do not exceed this temperature. Maintain this temperature until the insulation resistance remains constant for a minimum of 30 minutes. Turn the shaft manually to check for any deterioration in the bearings on the motor. Depending on the length and conditions of the storage it may be necessary to regrease or change rusted bearings.

START-UP:

1. Start the motor with the load disconnected (make sure key is removed from motor shaft). Check direction of rotation. Interchange any two leads of a three-phase motor to change the direction of rotation.
2. Connect the load and operate for an initial period of at least one hour. Check for any unusual noise, vibration or hot spots. These items should also be checked periodically as a part of a maintenance schedule even after a successful start-up. Acceptable vibration levels at no load condition are defined in:
 - *NEMA MG1-7:*
 - 2-6 pole: 0.15in/s peak
 - 8 pole: 0.12in/s peak
 - *IEC 60034-14*
 - 56≤H≤132: 1.6mm/s r.m.s. (free suspension)
1.3mm/s r.m.s. (rigid mounting)
 - 132<H≤280: 2.2mm/s r.m.s. (free suspension)
1.8mm/s r.m.s. (rigid mounting)
 - H>280: 2.8mm/s r.m.s. (free suspension)
2.3mm/s r.m.s. (rigid mounting)
3. Check the operating current against the nameplate current. Be careful not to exceed the value of the nameplate amperes under continuous load. Motors with a service factor greater than 1.0 can be operated continuously with the current not exceeding the nameplate value multiplied by the service factor.
4. When operating 208-230/460 voltage motors at 200 volts, the slip of the motor will increase by approximately 30%, and the torques will be reduced (20% to 30%). Before starting the unit, make certain the motor will start and accelerate the load without injurious heating and adequate torque. Contact WorldWide Electric for assistance.

HYUNDAI PARTS AND MAINTENANCE MANUAL

Installation and Maintenance



INSPECTION:

When the motor is in operation examine the motor at regular intervals. Keep motor clean and ventilation openings clear. If the motor is to be in storage for one month or longer:

- The shaft must be turned by hand to check for smooth rotation of the bearings each month.
- The insulation resistance should be tested with a megger at least once every three months (refer to "Testing" for a minimum value and corrective action).

LUBRICATION:

1. Standard motors contain prelubricated, double shielded/sealed ball bearings which are adequately greased for life at the factory and do not require relubrication.
2. Motors with open type or single shielded/sealed ball bearings have provisions for grease nipples and discharge plugs on the motor to allow grease to be inserted into the bearing cavity in more severe condition applications. Motors are shipped with grease for initial running and do not need additional lubrication except in certain instances (i.e storage in excess of 3 months or in the presence of construction dust). In order to provide the maximum bearing life, refer to (LUBRICATION TABLE) for guidelines. Note that excessive or too frequent lubrication may damage the motor.

LUBRICATION TABLE:

Conditions	Standard	Severe	Very Severe
Hours / Day	8 Hrs, 1 or 2 Shifts	24 Hrs, Continuous	---
Loading	Normal or High	Light Shock / Vibration	Heavy Shock / Vibration
Ambient	≤40°C, Clean	Dirt, Dust	Dirt, Dust, >40°C
0.5-7.5 HP	7 years	3 years	9 months
10-30 HP	3 years	1 year	4 months
40-75 HP	10 months	6 months	3 months
100-150 HP	6 months	4 months	2 months
200-350 HP	3 months	1 month	0.5 months

3. Make certain that the fittings are clean and free from dirt. Using a low pressure grease gun, pump in the recommended amount of grease until new grease appears at grease discharge point.
4. Use MOBIL POLYREX-EM grease or equivalent polyurea based grease with the same thermal properties, unless a special grease is specified on the nameplate. Failure to maintain grease compatibility will shorten bearing life significantly.
5. Regreasing of the bearings should be performed with the motor running. This will ensure an even dispersion of the grease in the bearing and cavity. After regreasing, continue to run the motor for ten to thirty minutes.



WARNING: Make sure all guards are in place and stay clear of all moving parts.

6. After re-greasing, continue to run the motor for ten to thirty minutes.

SERVICE:

HYUNDAI motors should only be serviced by properly trained and qualified personnel using the proper tools, equipment and genuine HYUNDAI replacement parts. For further information please contact WorldWide Electric. When ordering spares or replacement parts please specify complete nameplate information such as model number, serial number, HP (or KW) frame size, number of poles, enclosure, etc.



WORLDWIDE ELECTRIC CORPORATION

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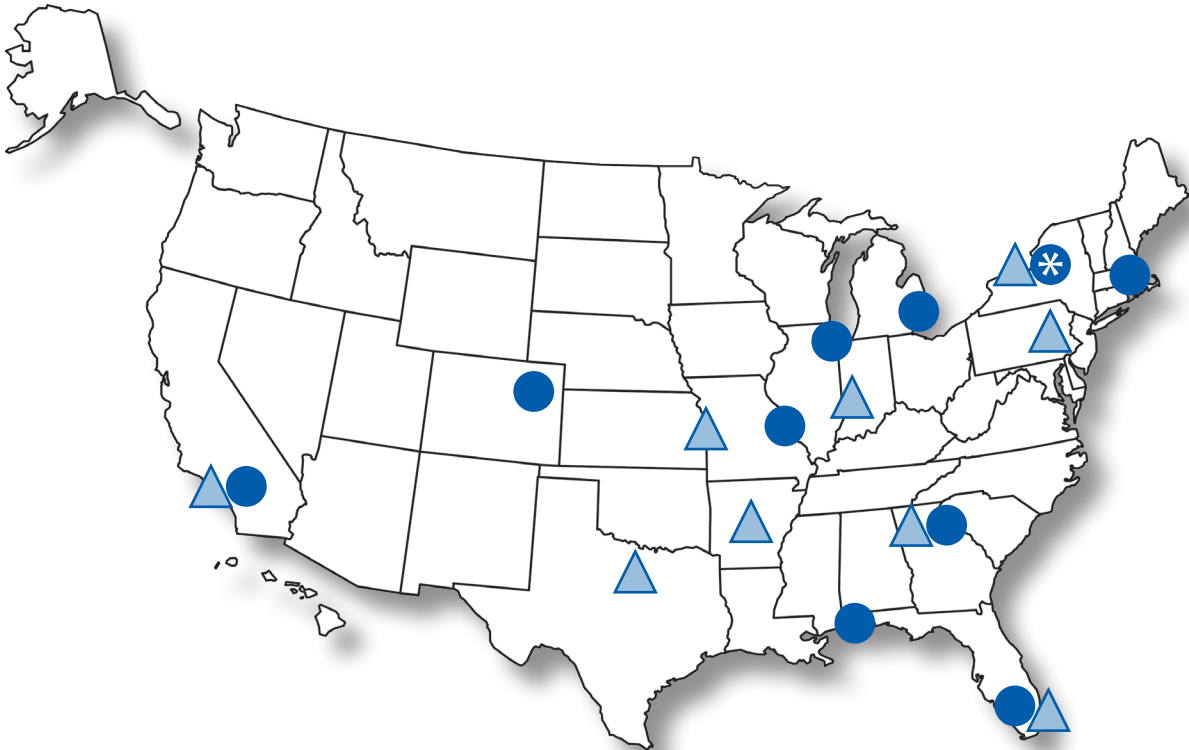


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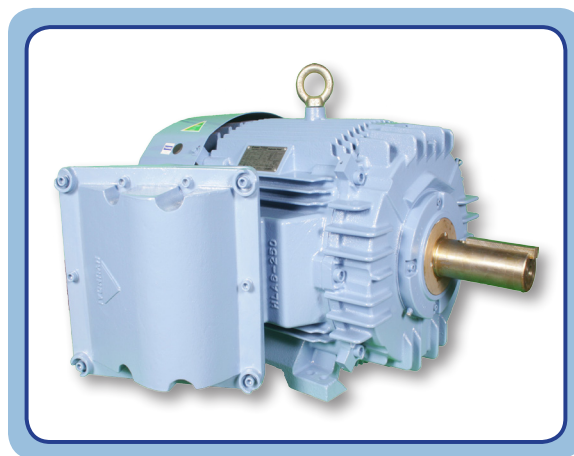
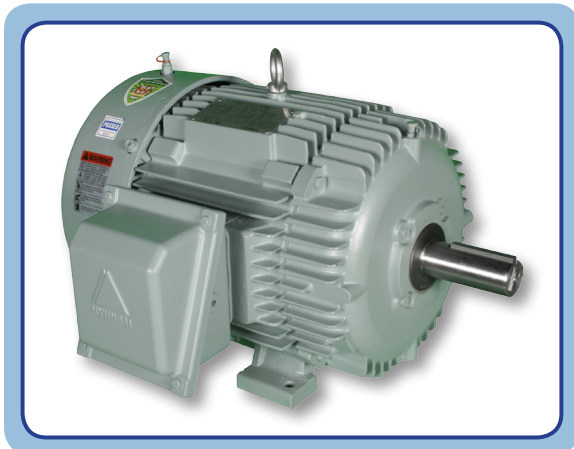


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