AC INDUCTION MOTOR DATA SHEET
CROWN TRITON™ MOTORS

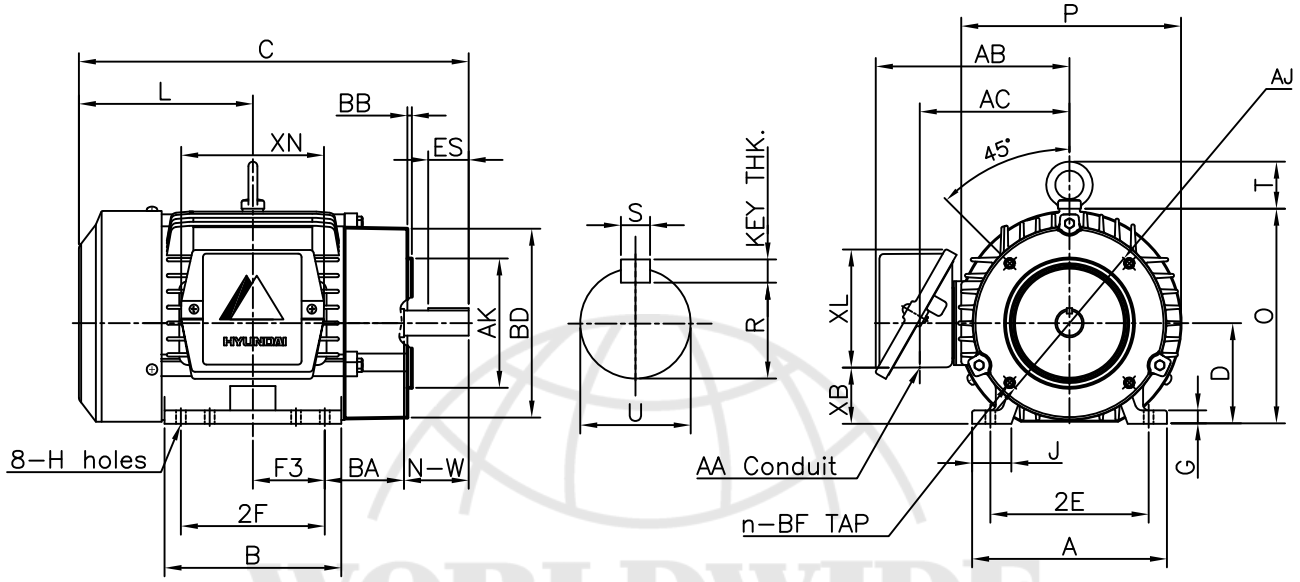
MODEL NUMBER	**HHI2-18-145TC**
HORSEPOWER	**2**
RPM / POLES	**1800 / 4**
VOLTAGE / PHASE	**230 / 460 V / 3**
FRAME	**145TC**
ENCLOSURE / DEGREE OF PROTECTION	**TEFC / IP54**
FREQUENCY	**60 HZ**
FULL LOAD SPEED	**1735 RPM**
SERVICE FACTOR	**1.15 SF at 40° C / 1.0 SF at 65° C**
INSULATION CLASS	**F Class N Varnish**
FULL LOAD AMPS; 230 / 460	**6.0 / 3.0 A**
LOCKED ROTOR CURRENT (% Full Load)	**830 / 830 %**
NEMA CODE LETTER	**L**
EFFICIENCY / POWER FACTOR	LOAD / EFF. / P.F. **100 % / 86.5 % / 73.0 %** **75 % / 86.7 % / 63.0 %** **50 % / 81.0% / 49.0 %**
DUTY CYCLE	**S1 / Continuous**
TORQUE	FULL LOAD / LRT / BDT **6.1 lb.ft. / 250 % / 280 %**
NEMA DESIGN	**B**
MOMENT OF INERTIA	LOAD (Max.) / MOTOR **24.917 lb.ft.^{2} / 0.078 lb.ft.^{2}**
SOUND PRESSURE LEVEL (No Load 1 M From Motor)	**63 dB(A)**
NUMBER OF STARTS (Hot / Cold)	**2 Hot / 3 Cold**
MAX. AMBIENT TEMPERATURE	**40° C at 1.15 SF / 65° C at 1.0 SF**
MAX. ELEVATION	**3300 Ft. Above Sea Level**
TEMPERATURE RISE (At Full Load)	**80° C**
DRIVE-END BEARING	**6205ZZC3**
OPPOSITE DRIVE-END BEARING	**6204ZZC3**
GREASE TYPE	**Mobil Polyrex EM**
MOUNTING	**F1 (F2 Suitable), W6, W8, B3, V5, V6**
ROTATION	**Bi-Directional**
APPROXIMATE WEIGHT	**55 lbs.**
AREA CLASSIFICATION	**Class I, Division 2, Groups A, B, C, D**
INVERTER RATING	**10:1 CT / 20:1 VT**
SPECIFICATION - In Accordance With	**NEMA, CSA**

C US EEV 109973 CC 038A

REVISED 08/01/13

HYUNDAI HEAVY INDUSTRIES CO., LTD.	TEFC THREE PHASE INDUCTION MOTOR	TYPE	LP,JP CAST IRON FRAME

FRAME SIZE	OUTPUT(HP)	POLES	Hz	TIME RATING



DIMENSIONS

FLANGE						MOUNTING								
AJ	AK	BD	BB	BF	n	A	B	2E	2F	–	F3	G	J	H
5.875	4.50	6.57	0.16	3/8-16	4	6.78	6.15	5.50	5.00	–	2.50	0.47	1.36	0.34

CONDUIT BOX						OVERALL							APPROX. WGT.(LB)
AA	AB	AC	XB	XL	XN	BA	C	D	L	O	P	T	
0.75	6.73	5.2 1	1.95	4.10	4.96	2.75	13.05	3.50	6.05	7.46	7.64	1.63	55

SHAFT					KEY THK.	BEARING	
U	N-W	KEYWAY				DRIVE END	OPP. DRIVE END
		R	ES	S			
0.875	2.25	0.771	1.41	0.188	0.188	6205ZZ	6204ZZ

NOTE

1.Dimension "D" tolerance : +0.00inch – 0.03inch
2.Dimension "U" tolerance : +0.000inch – 0.0005inch
3.Dimension "R" tolerance : +0.000inch – 0.015inch

APPD BY	J.H.KIM	UNIT	INCH	SUBJECT	NEMA 145TC(KIT)	CAD PROJ \ FILE	
CHKD BY	N.D.LEE	SCALE	1/8			SCALE-NEMA\A1302AA	
CHKD BY	K.S.LEE	PROJEC'N	3rd Angle	TITLE	OUTLINE		
DSND BY	S.W.SEO	DATE	2010.12.20				
HYUNDAI HEAVY INDUSTRIES CO., LTD. Electro-Electric System Division				REF. NO	350A1302AA	Sheet No. of	
				DWG NO	350A1302AA	Revision No. 0	

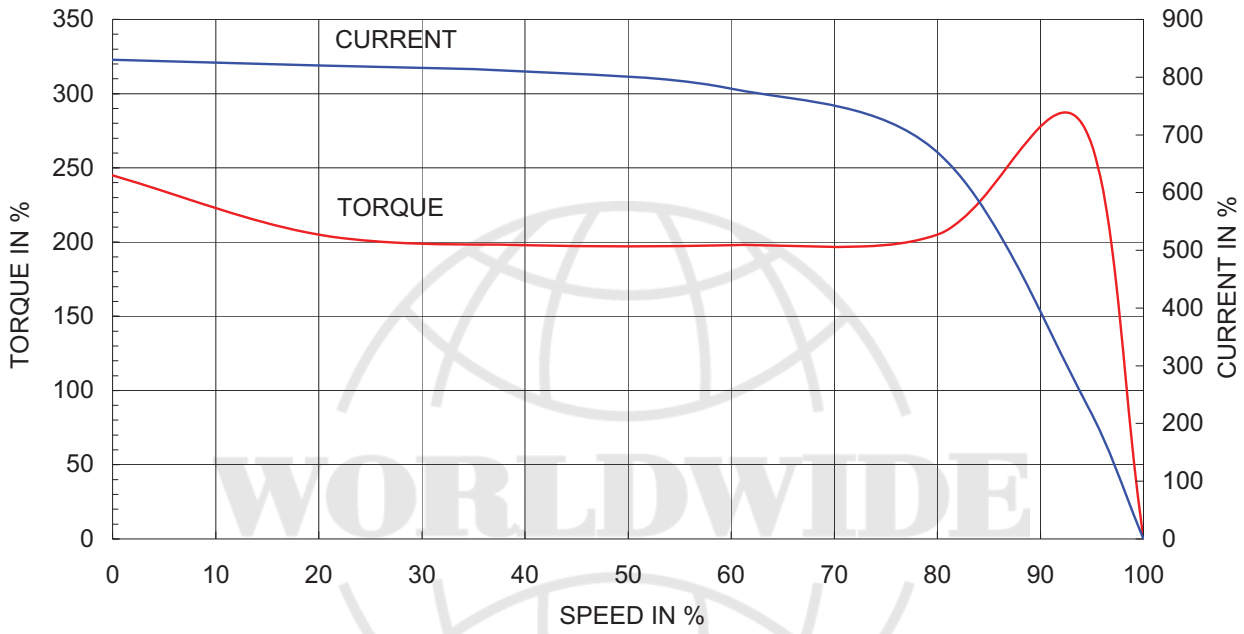
WORLDWIDE Electric Corp.

HYUNDAI HEAVY INDUSTRIES CO.,LTD.	PERFORMANCE CURVE	CURVE NO.
		P-PLP145SR2

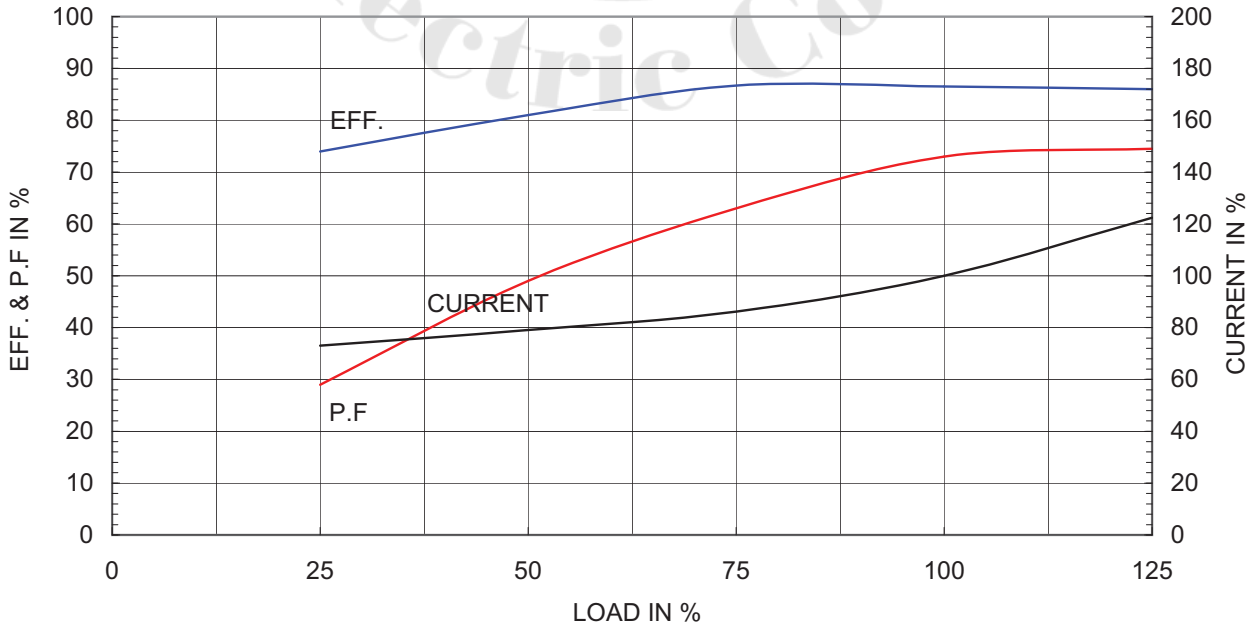
Type :	PLP	
Full Load Torque :	6.1	lb.ft
Motor moment of Inertia (J) :	0.078	lb.ft ^{2}
Load moment of Inertia (J) :	24.917	lb.ft ^{2}

1.5 kW	2 HP	60 Hz	
4 P	Rated Speed :	1735 RPM	
Rated Voltage	575V	460V	230V
Full Load Current	2.4A	3.0A	6.0A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



WORLDWIDE Electric CoTP