

MODEL NUMBER	HHI10-18-215TC		
HORSEPOWER	10		
RPM / POLES	1800 / 4		
VOLTAGE / PHASE	230 / 460 V / 3		
FRAME	215TC		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP55		
FREQUENCY	60 HZ		
FULL LOAD SPEED	1760 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	25.6 / 12.8 A Usable On 208 V At 28.3 A		
LOCKED ROTOR CURRENT (% Full Load)	750 / 750 %		
NEMA CODE LETTER	J		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100 %	91.7 %	80.5 %
	75 %	91.7 %	76.0 %
	50 %	89.7 %	66.0 %
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	30.0 lb.ft.	180 %	240 %
NEMA DESIGN	B		
MOMENT OF INERTIA	<u>LOAD (Max.)</u>	<u>MOTOR</u>	
	177.979 lb.ft. ²	0.712 lb.ft. ²	
SOUND PRESSURE LEVEL (No Load 1 M From Motor)	69 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	6307ZZC3		
OPPOSITE DRIVE-END BEARING	6307ZZC3		
GREASE TYPE	Mobil Polyrex EM		
MOUNTING	F1 (F2 Suitable), W6, W8, B3, V5, V6		
ROTATION	Bi-Directional		
APPROXIMATE WEIGHT	165 lbs.		
AREA CLASSIFICATION	Class I, Division 2, Groups A, B, C, D		
INVERTER RATING	10:1 CT / 20:1 VT - Meets NEMA MG1 Part 31		
SPECIFICATION - In Accordance With	NEMA, CSA		



HEAVY INDUSTRIES CO., LTD.

TEFC

THREE PHASE INDUCTION MOTOR

TYPE

KP,IP

CAST IRON FRAME

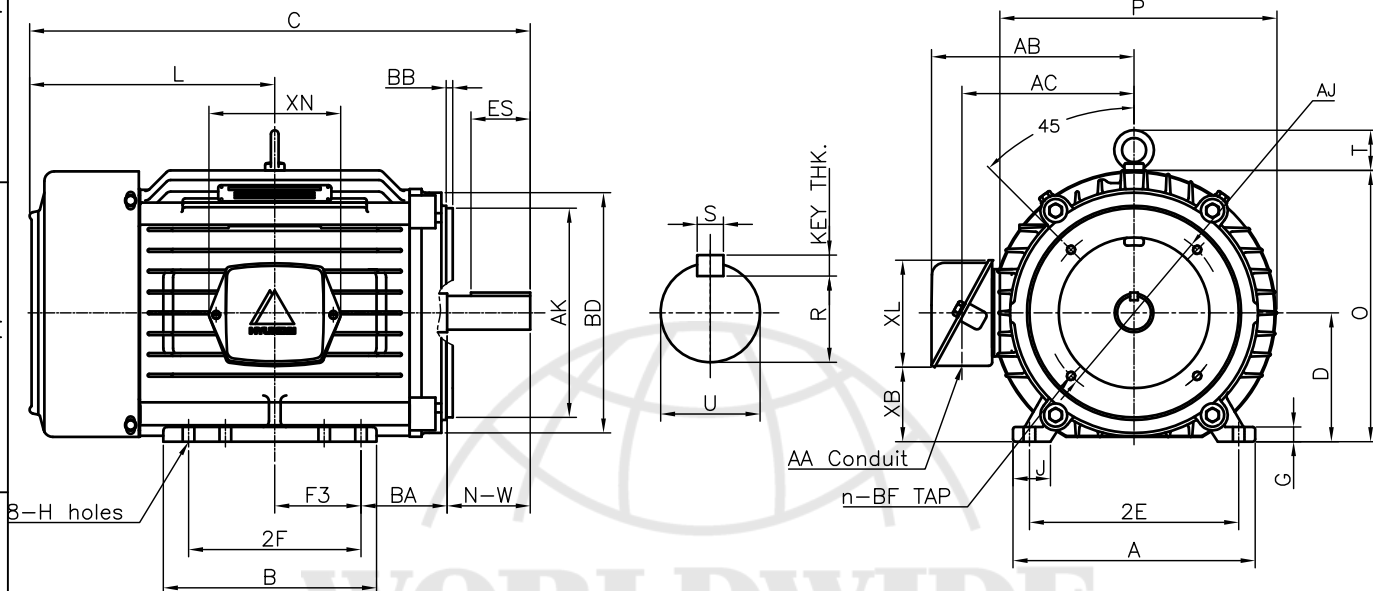
FRAME SIZE

OUTPUT(HP)

POLES

Hz

TIME RATING



DIMENSIONS

FLANGE						M O U N T I N G								
AJ	AK	BD	BB	BF	n	A	B	2E	2F	—	F3	G	J	H
7.25	8.50	9.00	0.25	1/2-13	4	9.84	8.66	8.50	7.00	—	3.50	0.60	1.52	0.41

CONDUIT BOX						O V E R A L L							APPROX. WGT.(LB)
AA	AB	AC	XB	XL	XN	BA	C	D	L	O	P	T	
1.00	8.23	7.34	3.03	4.35	5.35	3.50	20.36	5.25	9.97	11.02	11.26	1.63	165

S H A F T					KEY THK.	B E A R I N G	
U	N-W	KEYWAY				DRIVE END	OPP. DRIVE END
		R	ES	S			
1.375	3.38	1.201	2.41	0.312	0.312	6307ZZC3	6307ZZC3

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 215TC(KIT)	CAD PROJ \ FILE
CHKD BY	N.D.LEE	SCALE	1/8			SCALE-NEMA\A1306AA
CHKD BY	K.S.LEE	PROJEC'N	3rd Angle	TITLE	OUTLINE	
DSND BY	S.W.SEO	DATE	2010.12.20			

OUTLINE

HYUNDAI
HEAVY INDUSTRIES CO., LTD.
Electro-Electric System Division

REF. NO

350A1306AA

Sheet No. of

DWG NO

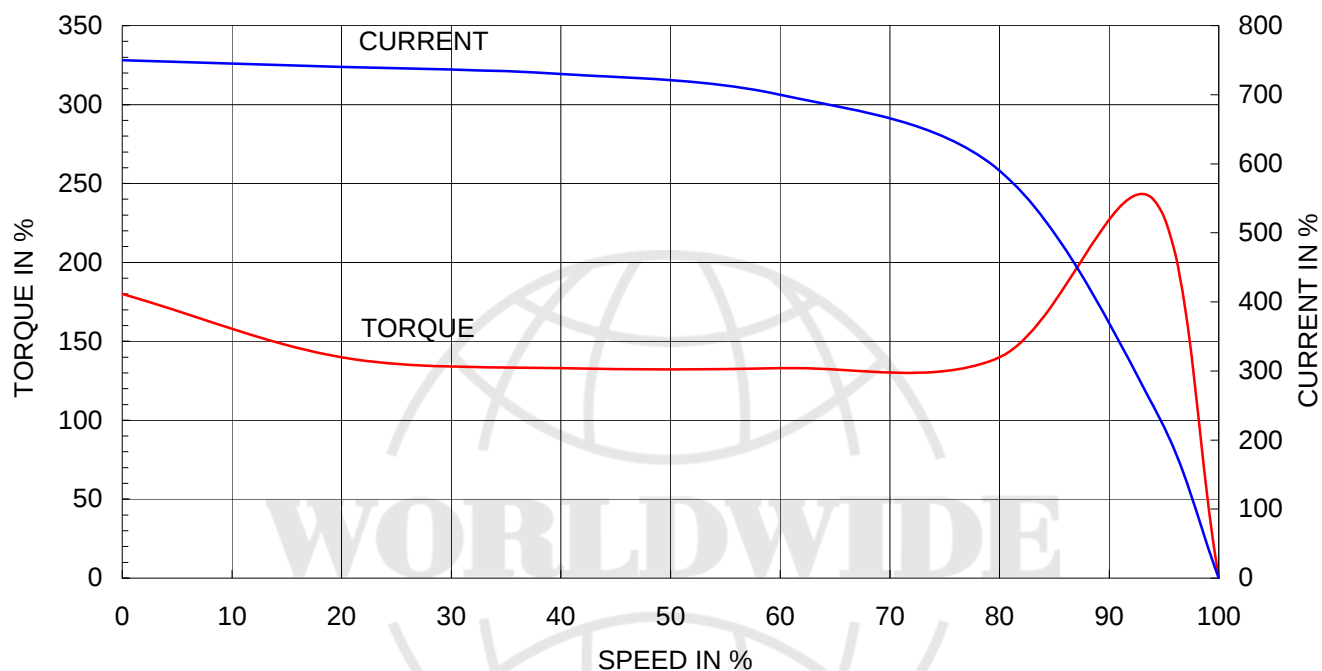
350A1306AA

Revision No. 0

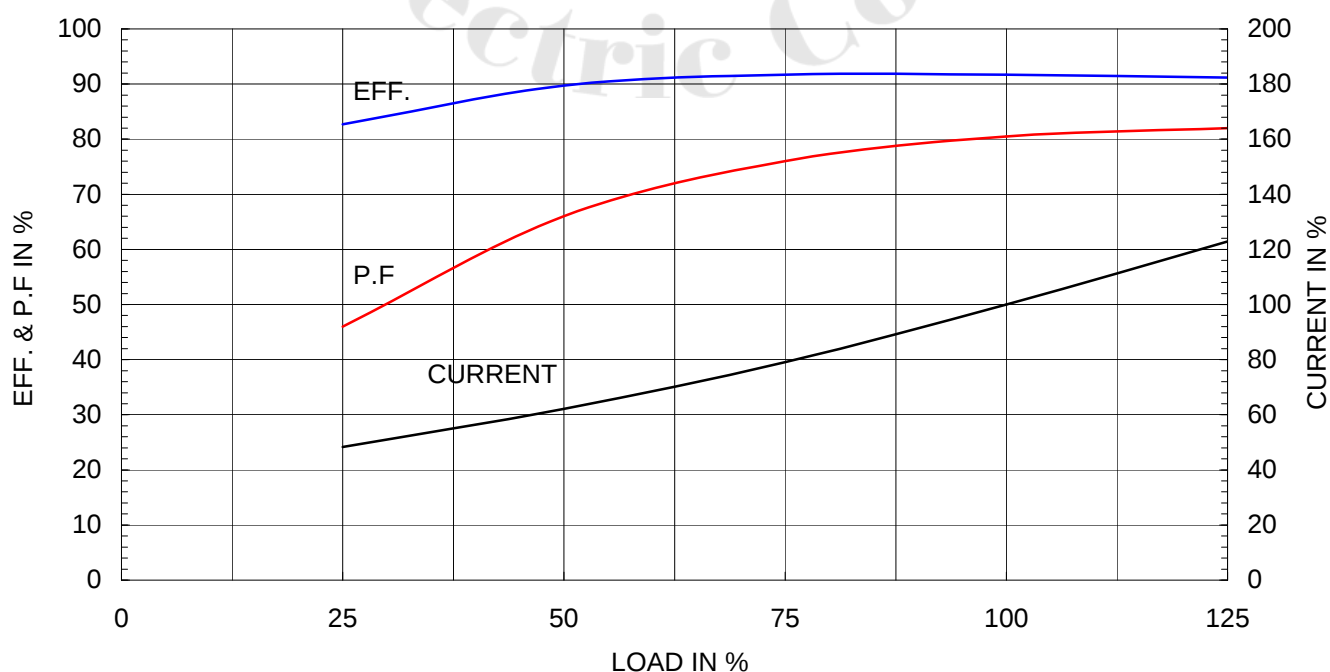
Type :	PKP
Full Load Torque :	30.0 lb.ft
Motor moment of Inertia (J) :	0.712 lb.ft ²
Load moment of Inertia (J) :	177.979 lb.ft ²

7.5 kW	10 HP	60 Hz
4 P	Rated Speed : 1760 RPM	
Rated Voltage	575V	460V
Full Load Current	10.2A	12.8A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



Type : PKP10-18-215T

FULL LOAD TORQUE : 30.0 lb.ft

J OF LOAD : - lb.ft²

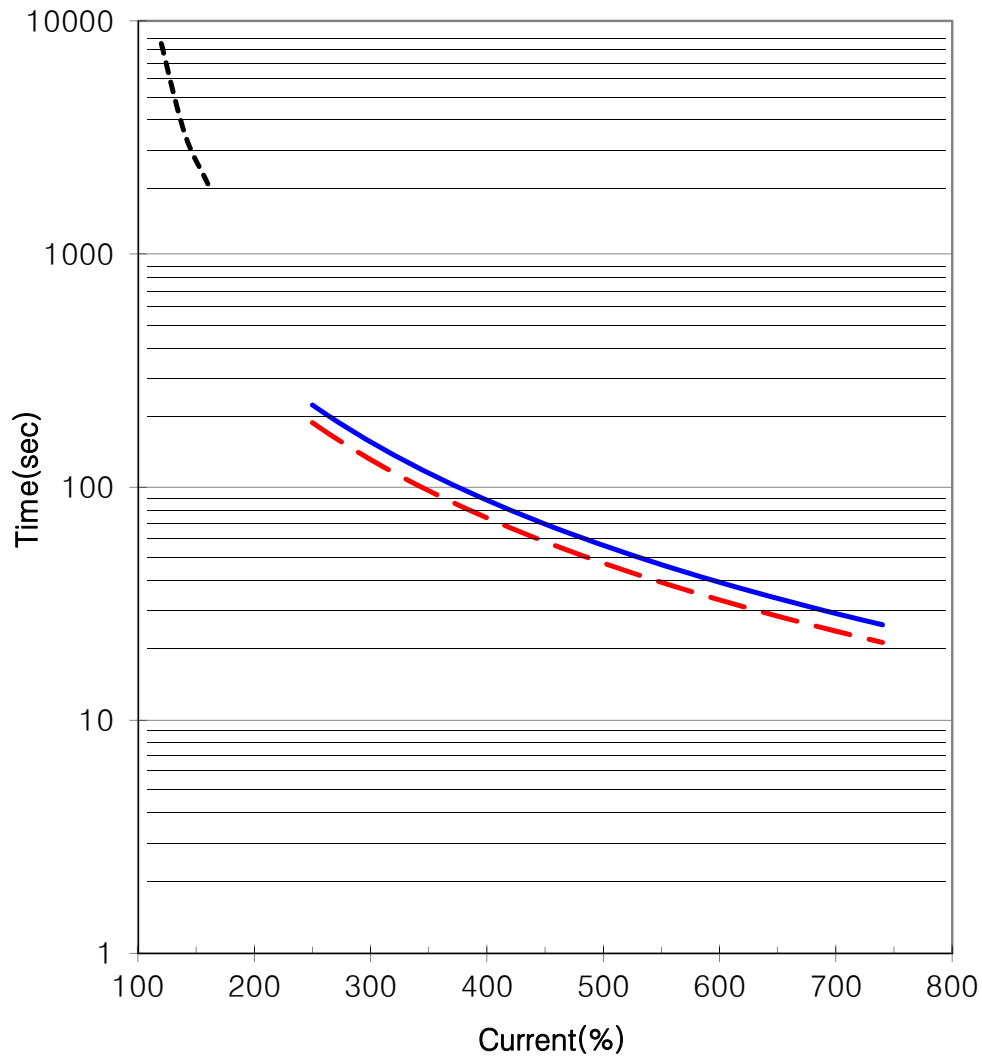
J OF MOTOR : 0.7 lb.ft²

10 HP 4 P 60 Hz

RATED SPEED : 1760 rpm

VOLTAGE 460 V 575 V

RATED CURRENT 12.8A 10.2A



— THERMAL LIMIT CURVE AT COLD CONDITION

- - THERMAL LIMIT CURVE AT HOT CONDITION

STARTING TIME

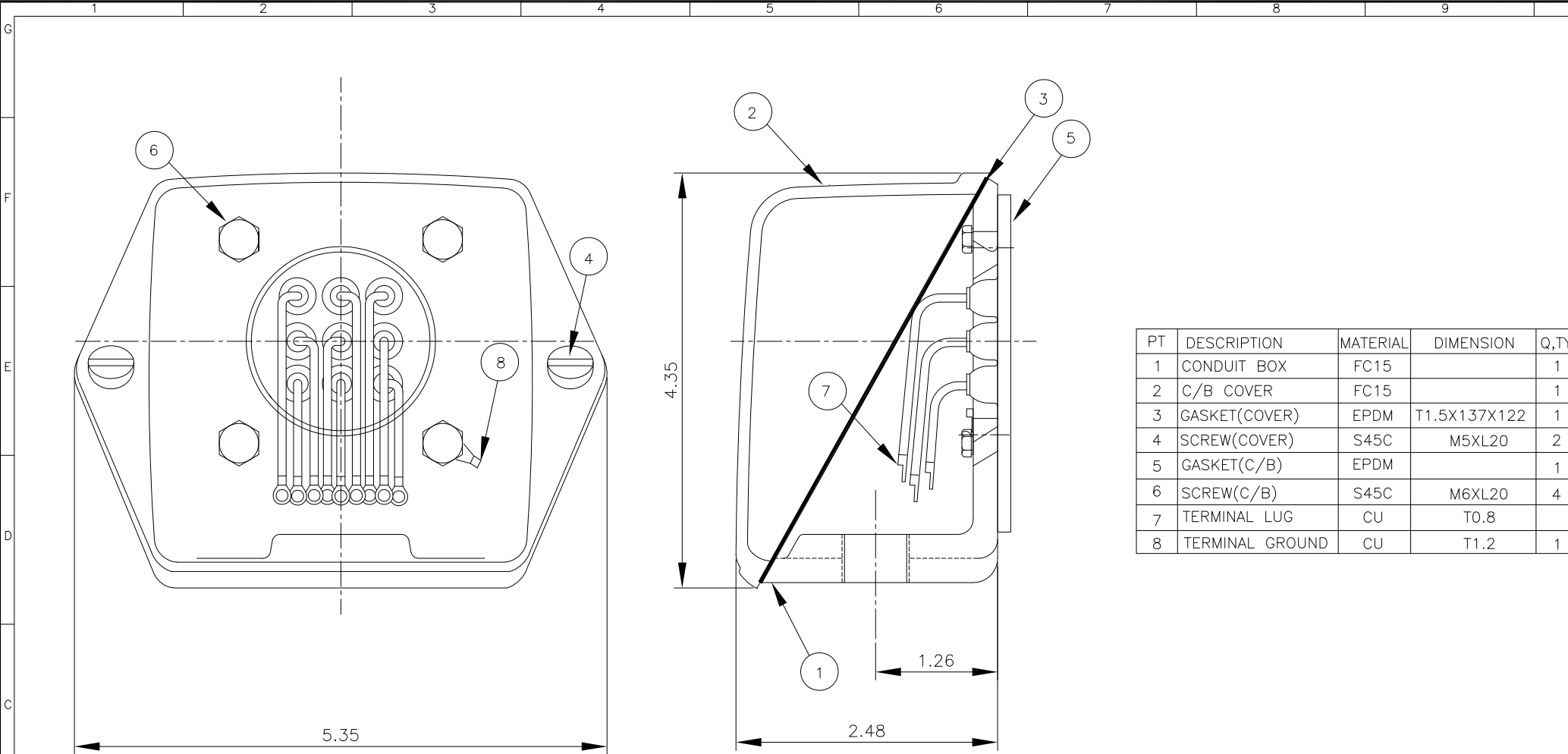
- at rated voltage starting

- at 80% of rated voltage starting

SAFE STALL TIME

21 sec. at Hot condition

25 sec. at Cold condition



PT	DESCRIPTION	MATERIAL	DIMENSION	Q,TY
1	CONDUIT BOX	FC15		1
2	C/B COVER	FC15		1
3	GASKET(COVER)	EPDM	T1.5X137X122	1
4	SCREW(COVER)	S45C	M5XL20	2
5	GASKET(C/B)	EPDM		1
6	SCREW(C/B)	S45C	M6XL20	4
7	TERMINAL LUG	CU	T0.8	
8	TERMINAL GROUND	CU	T1.2	1

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
1						
2						
3						
4						

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	KIM JIN HONG	UNIT	INCH	SUBJECT	NEMA 180, 210	CAD PROJ 8 \ FILE 8	
CHKD BY	KIM YU SUNG	SCALE	1/2			XSMOUT\B8003CB2	
CHKD BY	GO SECK HAN	PROJEC'N	3 200(3rd Angle)	TITLE	CONDUIT BOX & COVER ASS'Y		
DSND BY	LEE KWANG SOO	DATE	94.12.15	REF. NO	B8003CB	Sheet No.	of
 HYUNDAI HEAVY INDUSTRIES CO., LTD. INDUSTRIAL & POWER SYSTEMS				DWG NO	227B8003CB	Revision No.	0