

Customer :

Project Name :

Project No. :

Revision No. :

SPECIFICATION for INDUCTION MOTOR



0		For Bidding			
No.	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY

www.hd-hyundaelectric.com



AC INDUCTION MOTOR DATA SHEET

Catalog No.	HES30-12-324/6JM	Item No.		Rev. No.	[]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame Size		326JM		Rated Output		22 kW 30 HP	
Type		PJP		Number of Poles		6	
Enclosure(Protection)		Totally Enclosed / IP55		Rotor Type		Squirrel Cage	
Method of Cooling		IC411(FC)		Starting Method*		D.O.L	
Rated Frequency		60 Hz		Rated Voltage		575 V	460 V 230 V
Number of Phases		3		Current	Full Load	29.7 A	37.1 A 74.2 A
Insulation Class		F			Locked-rotor**	830 %	830 % 830 %
Temp. Rise at full load (by resistance method) at 1.0 S.F 80 deg. C				Efficiency			
					50% Load	90.0 %	
Motor Location		☐ Indoor ☐ Outdoor			75% Load	92.0 %	
Altitude		Less than 1,000 meter			100% Load	93.0 %	
Relative Humidity		Less than 80 %		Power Factor(p.u)			
Ambient Temp.		40 deg. C (Max.)			50% Load	0.650	
Duty Type		Continuous (S1)			75% Load	0.750	
Service Factor		1.15			100% Load	0.800	
Mounting		B35		Speed at Full Load		1175 r.p.m	
Bearing	Type	Anti-Friction		Torque			
	DE/N-DE	6313ZC3 / 6212ZC3			Full Load	131.91 lb.ft	
	Lubricant	Grease(Polyrex-EM)			Locked-rotor**	170 %	
External Thrust		Not applicable			Breakdown**	210 %	
Coupling Method		☒ Direct ☐ V-belt		Moment of Inertia (J)			
Shaft Extension		Single			Load(Max.)	442.185 lb.ft2	
Terminal	Main	Cast Iron			Motor	10.443 lb.ft2	
Box	Aux.	No		Sound Pressure Level (No-load & mean value at 1m from motor)			
	Location	Refer to Outline Drawing				68 dB(A)	
Application				Vibration		3.8 mm/s (peak)	
Area classification		Hazardous		Permissible number of		Cold	3 times
Type of Ex-Protection		Class I&II, Division 2		consecutive starts		Hot	2 times
Applicable Standard		NEMA MG1, CSA C390		Paint	Munsell No.	4.0PB5.4/5.5(VL-451)	

ACCESSORIES	SUBMITTAL DRAWING
	Outline Dimension Drawing \ Motor Weight(Approx.)
	B35 LM-T2326C4MLV25 575 lb.

REMARK
1. Premium efficiency according to NEMA MG1
2. Inverter Duty @ 1.0 Service Factor & F Temperature rise
- 10:1 VT (20:1 VT at 50% load)
- 10:1 CT (1 hour duty, 4:1 continuous)
- CHP up to 1.5 times base speed, NEMA MG1 Part31
3. CSA Certification
- Class I, Division 2, Group A, B, C & D
- Class II, Division 2 Group E, F & G (Group E : up to 320Fr.)
4. Service Factor 1.15 and Temperature rise B are applicable under the condition of sine wave power.
5. Service Factor 1.25 is applicable to motors of 100HP or less with temperature rise F & Non-Hazardous.
6. Temp. code : T3C(160°C) at sine wave
Date DSND CHKD CHKD APPD
2025-09-19 S.H. LEE I.K. KIM R.G. KIM S.W. KIM

[Note] Others not mentioned in this data sheet shall be in accordance with maker standard.

Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.

Inspection and performance test shall be done according to maker standard, if not mentioned.

* In case of Inverter-Fed Motor, performance data is based on sine wave tests. It may be different from test data of Inverter combined motor.

** Data is based on rated voltage & frequency and is expressed as a percentage of full-load value.

MAIN NAMEPLATE

4.72

2.36

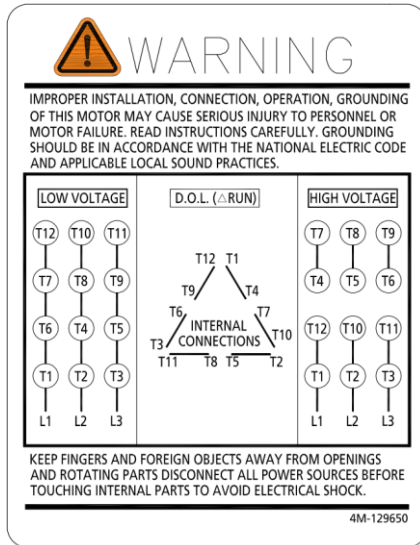
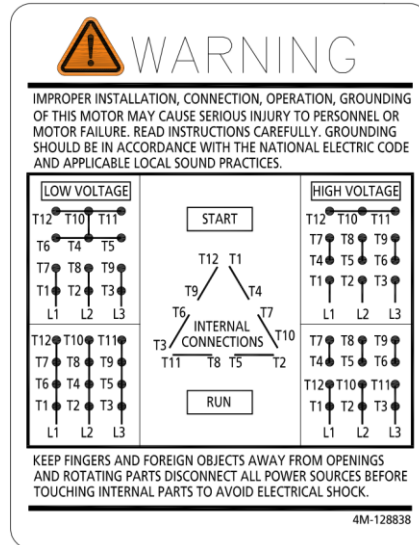
CROWN TRITON G2								
Premium Efficiency AC 3 Phase Motor					C	US		
30HP 6P 230/460V					Cat. No.		HES30-12-324/6JM	
Model HLS326PR335V					INS. Class		F	HD-F1
Type HLS		Duty CONT		Code K		Amb. 40°C		Amps 74.2/37.1A
Frame 326JM		Encl. TEFC		S.F. 1.15		RPM 1175		NEMA Nom. Eff. 93.0%
Bearing	Drive 6313ZC3		S.F. 1.25 (When 100HP or less, Temp Rise F & Non-Hazardous)				3/4 Eff. 92.0%	
	Opp. 6212ZC3		S.F. 1.00 (10:1 C.T., 20:1 V.T., NEMA-MG1 Part31)				NEMA Design B Torque	
Usable at	50Hz 30HP 380V 49.4A 980rpm S.F.: 1.15 Eff.: 91.7% Code: J							
	50Hz 30HP 400/415V 47.8/46.9A 985/985rpm S.F.: 1.15 Eff.: 91.7/91.7% Code: K/L							
CSA Certified for	Model -		Type PJP		Temp. Code (sine wave)	Frame 140~320FR	360~400FR	440FR
	CLASS I, Div. 2, Gr. A, B, C & D		CLASS II, Div. 2 Gr. E, F & G			Amb. 40°C T3C (160°C)	T3B (165°C)	T3A (180°C)
	CLASS I, Zone 2, Gr. IIA, IIB, & IIC		(Gr. E : Up to 320FR)			Amb. 55°C T3A (180°C)	T3A (180°C)	T3 (200°C)
No.	-			Date -		Weight 575 lb		

4M-137666

MARINE DUTY IEEE45

Made in Vietnam H4
Designed By HYUNDAI, Korea

WIRING DIAGRAM

D.O.L
(INVERTER & SOFT STARTER)WYE-DELTA
(Y-D)

APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	CSA Class I, Division2 Severe Duty (HES, JM/JP, 254-326)	DWG SIZE	
CHKD BY	I.K.KIM	SCALE	NONE			A4 (1:1)	
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle			TITLE NAMEPLATE DRAWING	
DSND BY	S.H.LEE	DATE	2024.06.07				
				REF. NO	4M-137666 / 4M-129650	Sheet No.	of
				DWG NO	NP-HES30-12-324/6JM	Revision No.	0

Type : PJP

22kW 30HP 6 P 60 Hz

Full Load Torque : 131.91 lb.ft

Speed at Full Load : 1175 RPM

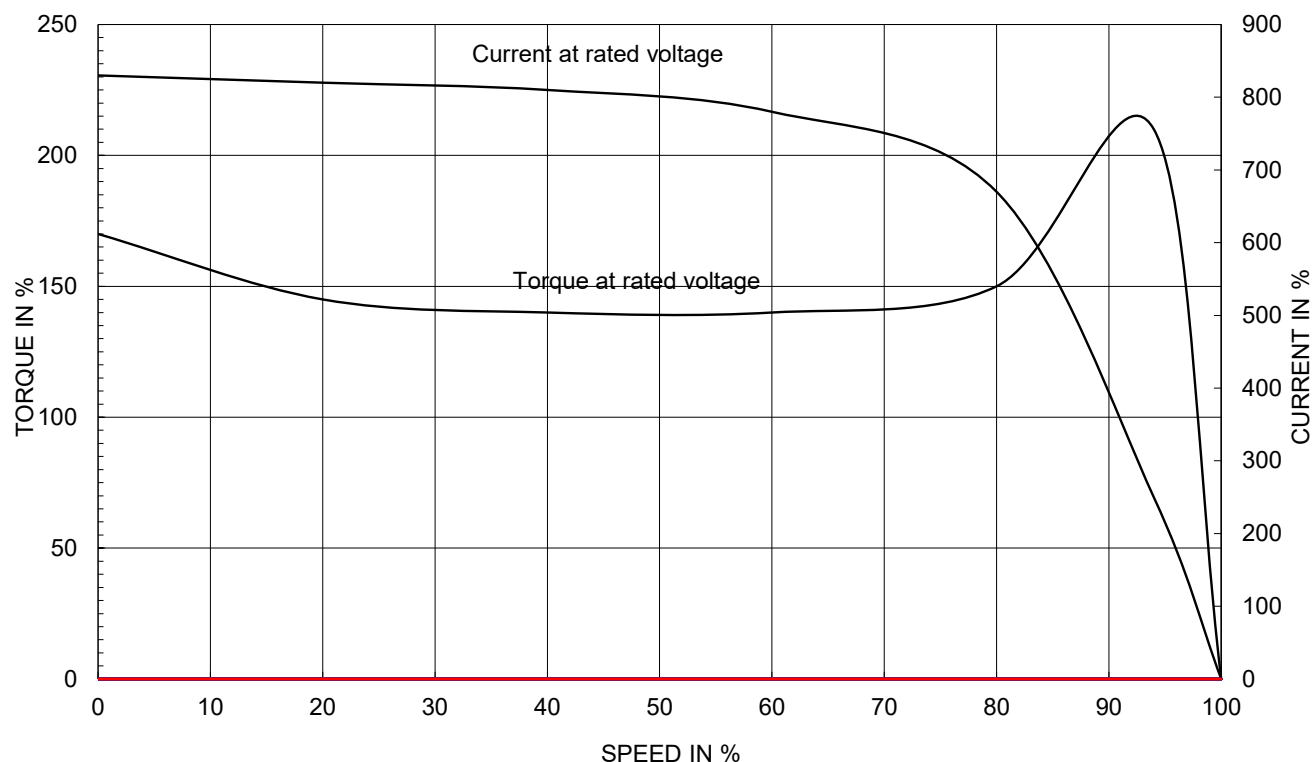
Load moment of Inertia (J) : 442.185 lb.ft²

Rated Voltage	575V	460V	230V
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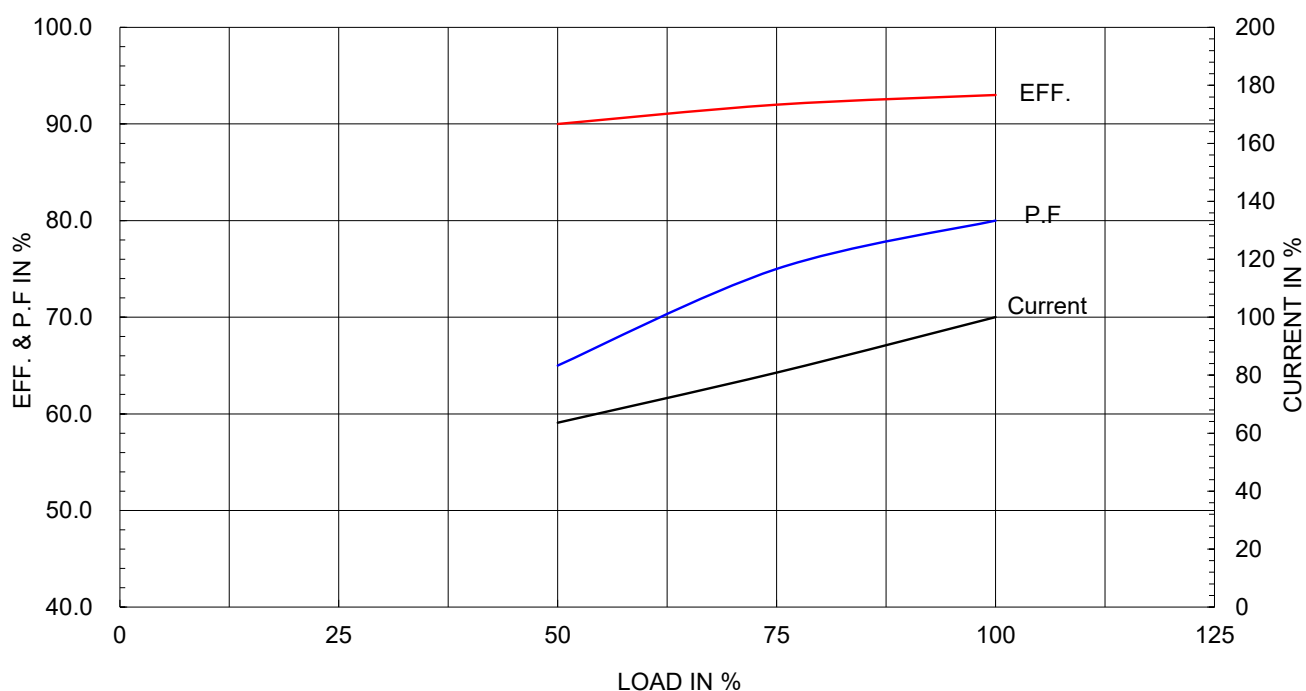
Motor moment of Inertia (J) : 10.443 lb.ft²

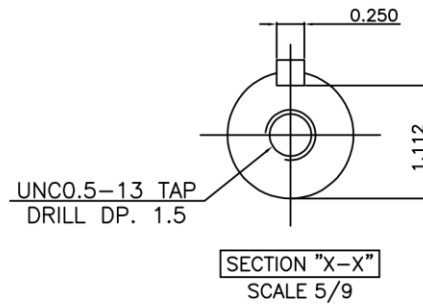
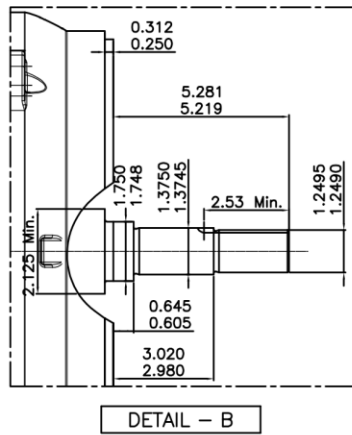
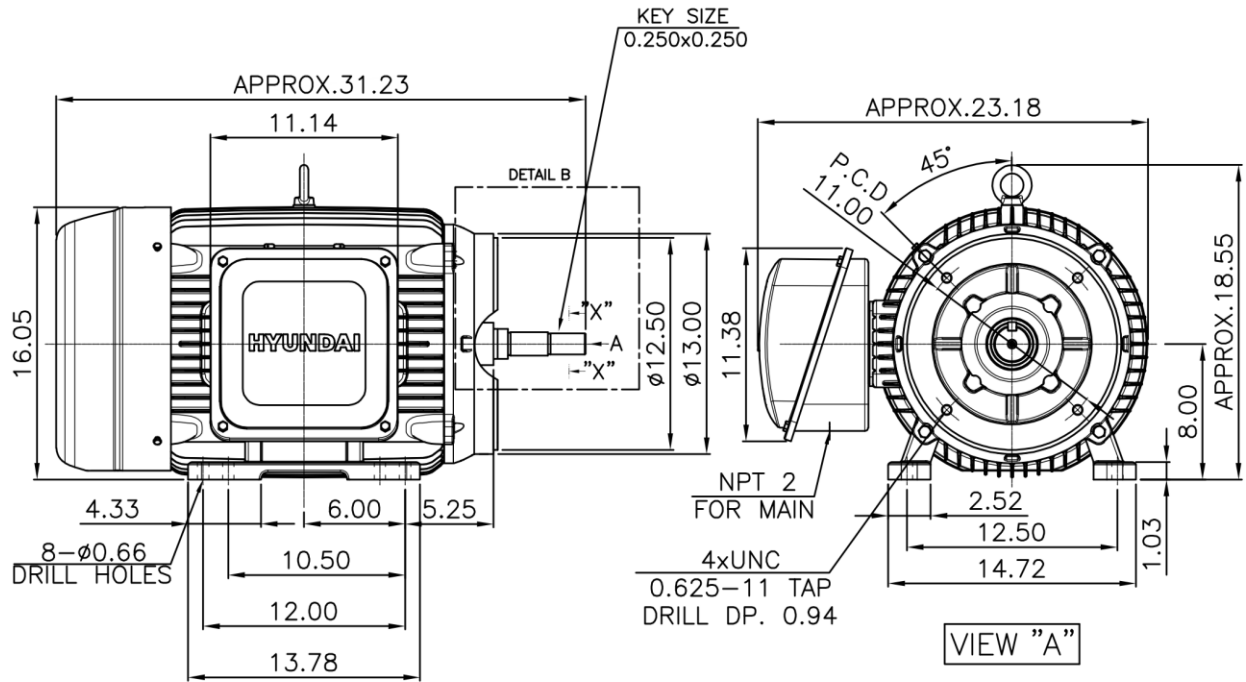
Full Load Current	29.7A	37.1A	74.2A
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SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



**NOTE**

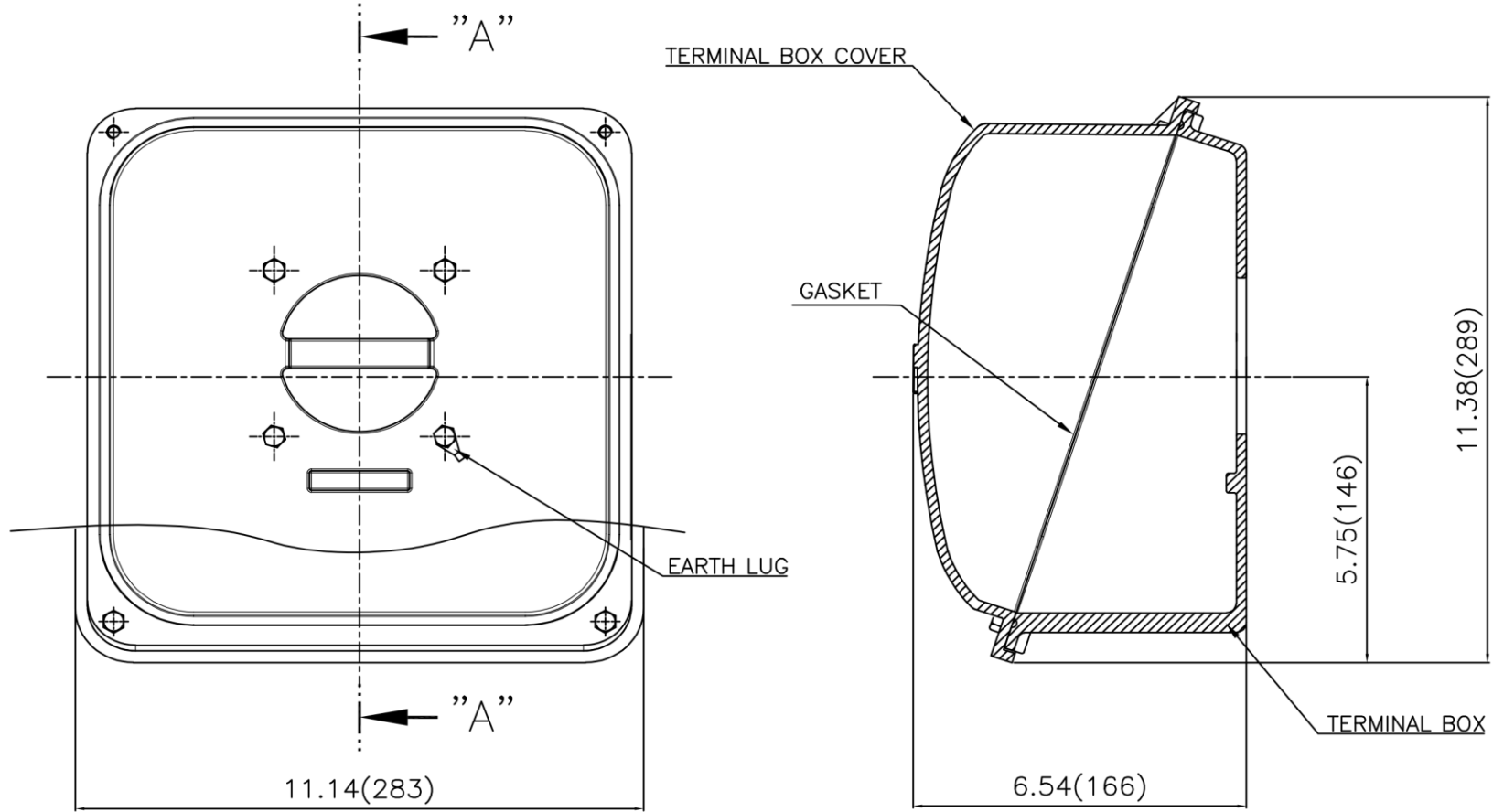
[TOLERANCE]

- CENTER HEIGHT : +0.00inch - 0.03inch
- SHAFT DIAMETER : +0.000inch - 0.001inch
- KEYWAY DEPTH : +0.000inch - 0.015inch

APPD BY	S.W.KIM	UNIT	INCH	SUBJECT	NEMA 324/6TC (JM) (Dual hole)	DWG SIZE
CHKD BY	R.G.KIM	SCALE	1/11	TITLE		A4 (1:11)
CHKD BY		PROJEC'N	3rd Angle			
DSND BY	S.H.LEE	DATE	2025-01-14			
 HD HYUNDAI ELECTRIC				REF. NO		Sheet No. of
				DWG NO	LM-T2326C4MLV25	Revision No. 1

Cls. I&II, Div. 2

IEEE 841



▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

일반가공공차		일반계관공차	
1-4	±0.1	6-30	±0.5
4-18	±0.2	30-120	±0.8
18-63	±0.3	120-315	±1.2
63-250	±0.5	315-1000	±2.0
250-	±0.8	1000-	±3.0

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	S.Y.KIM	UNIT	inch(mm)	SUBJECT	FR. 320 (CAST IRON)	DWG SIZE	A3 (1:2.5)
CHKD BY		SCALE	1/2.5	TITLE	TERMINAL BOX ASS'Y		
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	REF. NO		Sheet No.	of
DSND BY	네슬의	DATE	2023-10-19	DWG NO	3M-248459	Revision No.	0

