

AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.		Rev. No. [0]			
Project Name		Project No.		Quantity sets			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame Size	200LL		Rated Output	45 kW 60 HP			
Type	HLP-45/2		Number of Poles	2			
Enclosure(Protection)	Totally Enclosed (IP55)		Rotor Type	Squirrel Cage			
Method of Cooling	IC411(FC)		Starting Method*	☒ D.O.L ☐ Y- Δ			
Rated Frequency	60 Hz		Rated Voltage	440 V	380 V 220 V		
Number of Phases	3		Current	Full Load	70.1 A 81.2 A 140.2 A		
Insulation Class	☒ F ☐ B ☐ H			Locked-rotor**	800 % 800 % 800 %		
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F 80 deg. C			50% Load 92.1 %				
Motor Location	☒ Indoor ☐ Outdoor		75% Load 93.6 %				
Altitude	Less than 1000 meter		100% Load 93.6 %				
Relative Humidity	Less than 80 %		Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)		50% Load 0.865				
Duty Type	Continuous (S1)		75% Load 0.890				
Service Factor	1.15		100% Load 0.900				
Mounting	☐ B3 ☐ B5 ☐ V1 ☒ B3/B5		Speed at Full Load 3560 r.p.m				
Bearing	Type	Anti-Friction	Torque				
	DE/N-DE	6212ZC3 / 6211ZC3	Full Load 12.3 kg·m				
	Lubricant	Grease(Gadus S2 V 100 2)	Locked-rotor** 150 %				
External Thrust		Not applicable	Breakdown** 200 %				
Coupling Method		☒ Direct ☐ V-Belt	Moment of Inertia (J)				
Shaft Extension		☒ Single ☐ Double	Load(Max.) 4.800 kg·m²				
Terminal Box	Main	☐ Steel ☒ Cast Iron	Motor 0.208 kg·m²				
	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing	87 dB(A)				
Application			Vibration 2.2 mm/sec (r.m.s)				
Area classification		Non-Hazardous	Permissible number of				
Type of Ex-Protection		Not applicable	consecutive starts Cold 3 times				
Applicable Standard		KS,IEC, NEMA MG1 Part30(Vpeak)	Hot 2 times				
			Paint	Munsell No.	4.4PB5.5/5.6(VL-451)		
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3	LM-T1207B3CL001	320 kg		
			B5	LM-T1207B5CL001	330 kg		
			V1	LM-T1207V1CL001	330 kg		
			B3/B5	LM-T1207B4CL001	330 kg		
			Main T-Box Ass'y	3M-145864			
SPARE PARTS			REMARK				
			Premium Efficiency				
			*. For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise				
			Date	DSND	CHKD	CHKD	APPD
			2015-09-05	R.G. KIM	-	O.J. KIM	S.H. GO

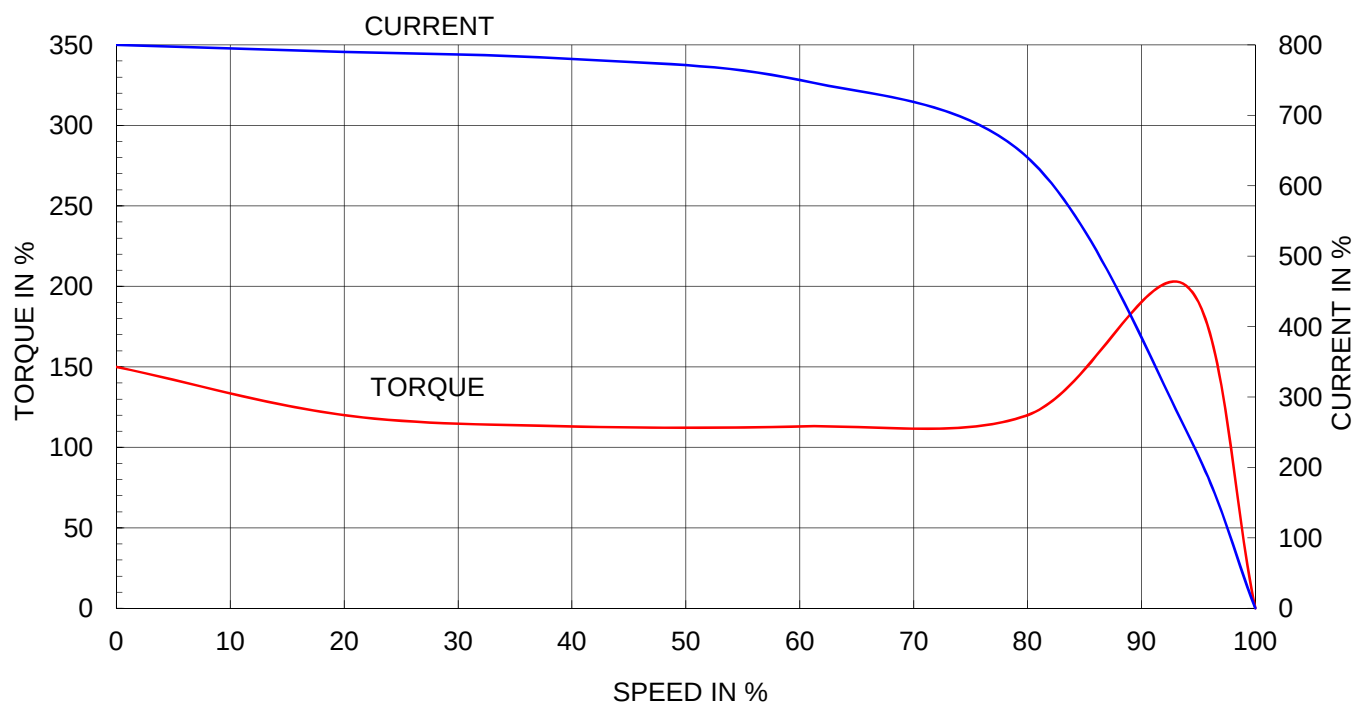
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
 Inspection and performance test shall be maker standard, if not mentioned.
 * In case of Inverter-Fed Motor, performance data is based on sine wave tests.
 ** Data is based on when the motor is supplied at rated voltage & frequency. and the data is expressed as a percentage of full-load value.

HHI W230-131-1 * In case of Inverter or V.V.V.F Motor:Performance data is based on sine wave tests. A4(210mm X 297mm)

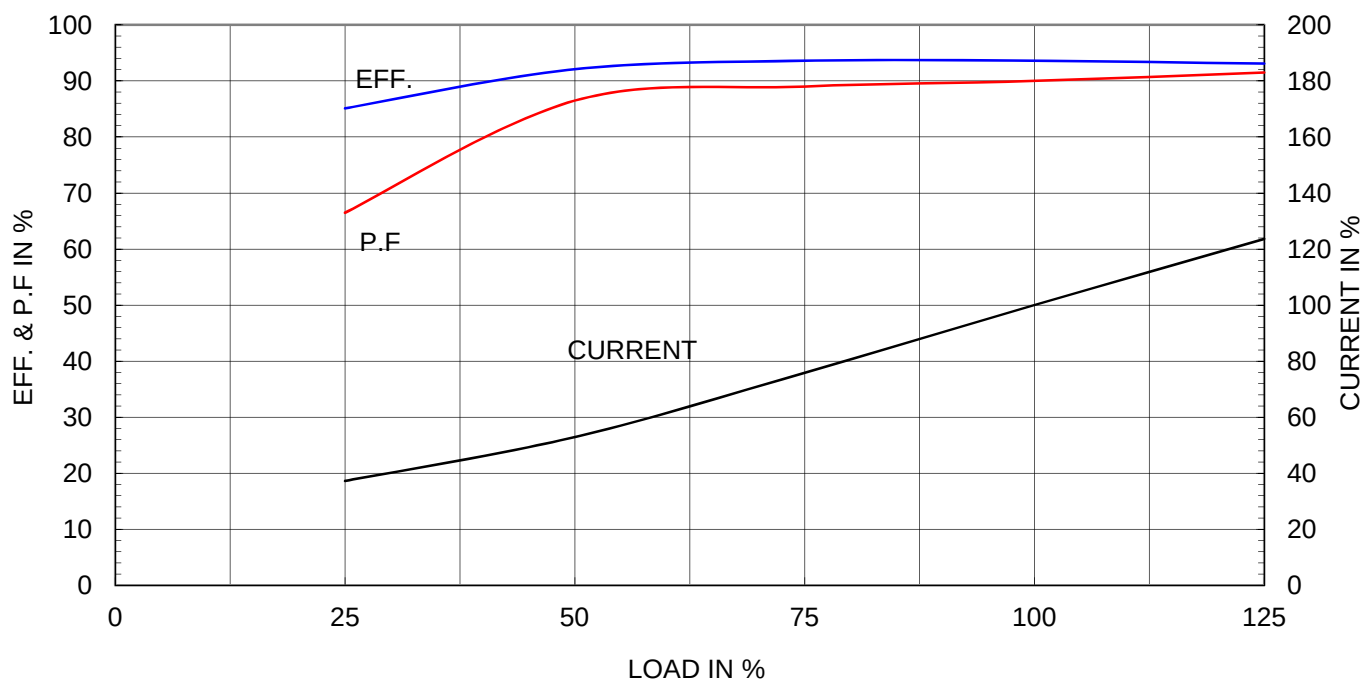
Type	:	HLP-45/2
Full Load Torque	:	12.3 Kg.m
Motor moment of Inertia (J)	:	0.208 Kg.m ²
Load moment of Inertia (J)	:	4.800 Kg.m ²

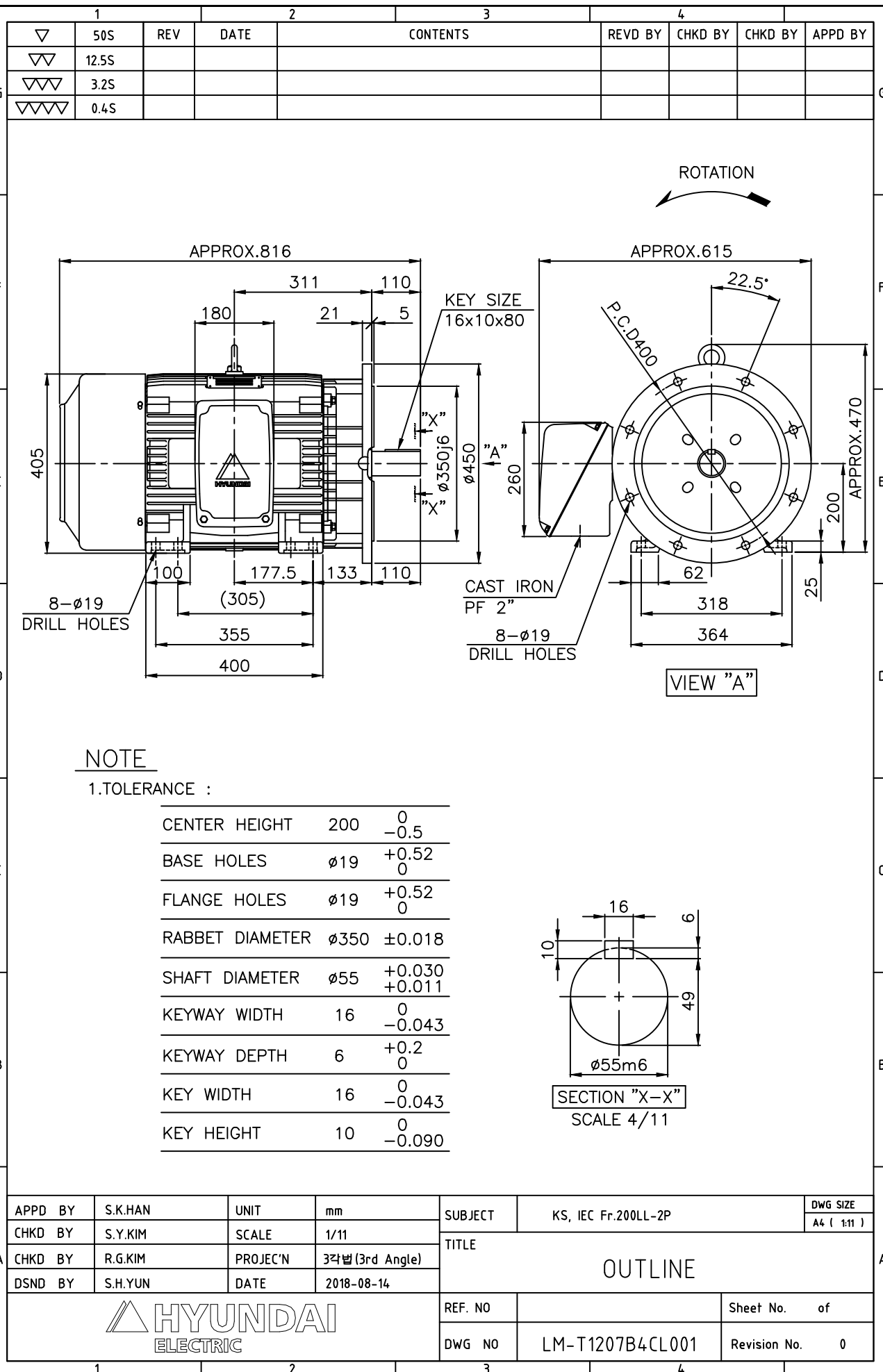
45 kW		2 P		60 Hz	
Speed at Full Load :				3560 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	70.1A	81.2A	140.2A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

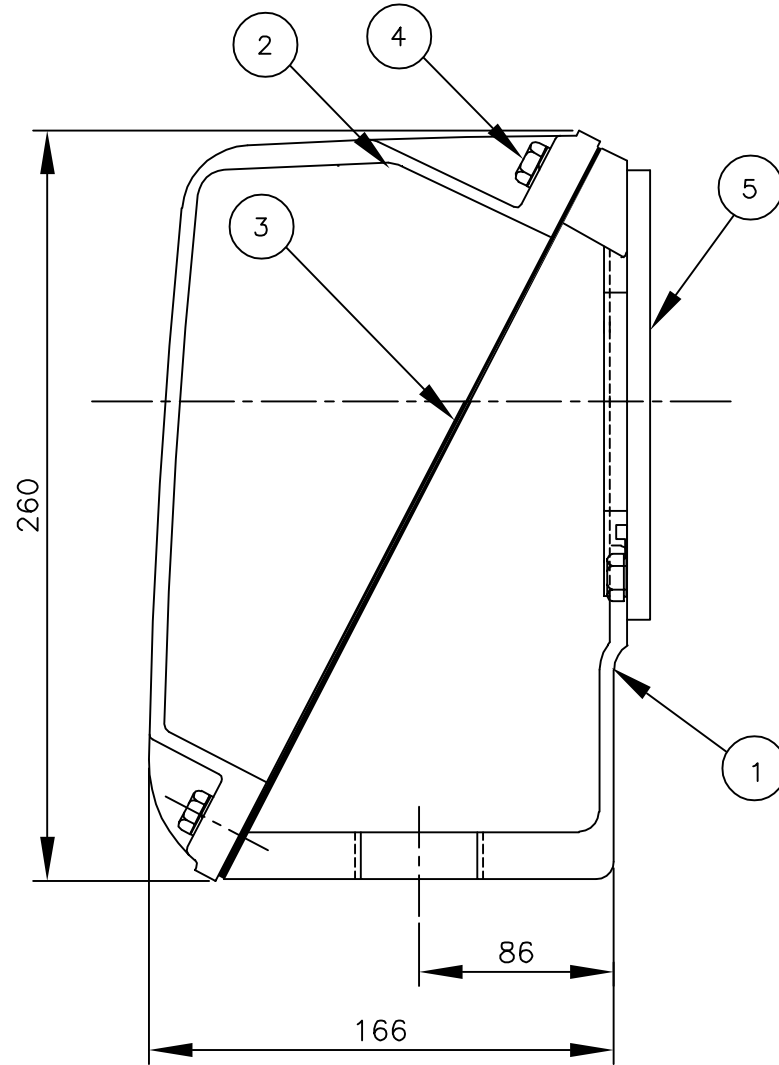
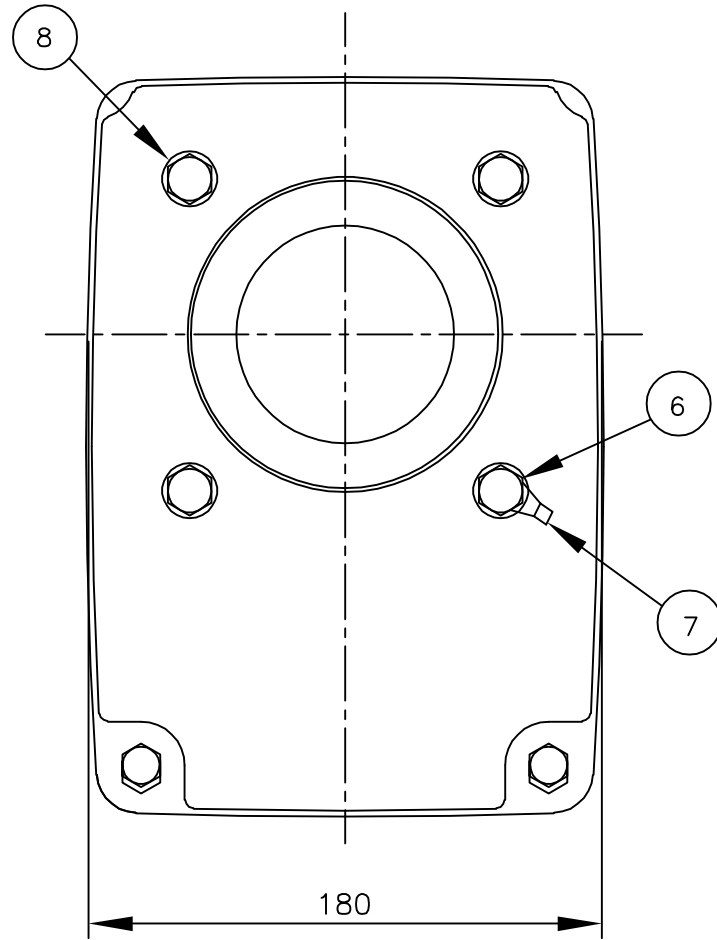




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허가없이 복사할 수 없음 (취급주의)

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PT	DESCRIPTION	MATERIAL	DIMENSION	Q,TY
1	CONDUIT BOX	FC20		1
2	C/B COVER	FC20		1
3	GASKET(COVER)	N.B.R	T2X170X210	1
4	SCREW(COVER)	S45C	M8XL20	4
5	GASKET(C/B)	N.B.R		1
6	SCREW(C/B)	S45C	M8XL20	4
7	TERMINAL GROUND	CU	T1.6	1
8	WASHER	S45C	M8 X L10	4

▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY	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	강경중	UNIT	mm	SUBJECT	IEC-Fr.200	DWG SIZE	
CHKD BY	이노덕	SCALE	1/2			A3 (1:2)	
CHKD BY	김인규	PROJEC'N	3각법(3rd Angle)	TITLE	Main Terminal Box Assembly		
DSND BY	김은성	DATE	2011-08-30	REF. NO	227B8003CB5	Sheet No.	of
				DWG NO	3M-145864	Revision No.	1

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