

AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.		Rev. No.	
Project Name		Project No.		Quantity sets	
GENERAL SPECIFICATION				PERFORMANCE DATA	
Frame Size		200LL		Rated Output 37 kW 50 HP	
Type		HLP-37/6		Number of Poles 6	
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 64.5 A 74.7 A 129.0 A	
Insulation Class		☒ F ☐ B ☐ H		Locked-rotor** 750 % 750 % 750 %	
Temp. Rise at full load (by resistance method)		Efficiency			
at 1.0 S.F 80 deg. C		50% Load 94.0 %			
Motor Location ☒ Indoor ☐ Outdoor		75% Load 94.3 %			
Altitude Less than 1000 meter		100% Load 94.1 %			
Relative Humidity Less than 80 %		Power Factor(p.u)			
Ambient Temp. 40 deg. C (Max.)		50% Load 0.685			
Duty Type Continuous (S1)		75% Load 0.765			
Service Factor 1.15		100% Load 0.800			
Mounting ☐ B3 ☒ B5 ☐ V1 ☐ B3/B5		Speed at Full Load 1175 r.p.m			
Bearing	Type	Anti-Friction		Torque	
	DE/N-DE	6313ZC3 / 6211ZC3		Full Load 30.7 kg·m	
	Lubricant	Grease(Gadus S2 V 100 2)		Locked-rotor** 160 %	
External Thrust Not applicable		Breakdown** 210 %			
Coupling Method ☒ Direct ☐ V-Belt		Moment of Inertia (J)			
Shaft Extension ☒ Single ☐ Double		Load(Max.) 30.700 kg·m²			
Terminal Box	Main	☐ Steel ☒ Cast Iron		Motor 0.781 kg·m²	
	Aux.	☐ Yes ☒ No		Sound Pressure Level (No-load & mean value at 1m from motor) 72 dB(A)	
	Location	Refer to Outline Drawing		Vibration 2.2 mm/sec (r.m.s)	
Application		Vibration		Permissible number of consecutive starts Cold 3 times Hot 2 times	
Area classification Non-Hazardous		Paint Munsell No. 4.4PB5.5/5.6(VL-451)			
Type of Ex-Protection Not applicable					
Applicable Standard KS,IEC, NEMA MG1 Part30(Vpeak)					
ACCESSORIES		SUBMITTAL DRAWING			
		Outline Dimension Drawing \ Motor Weight(Approx.)			
		B3	LM-T1207B3PL001	320	kg
		B5	LM-T1207B5PL001	350	kg
		V1	LM-T1207V1PL001	350	kg
		B3/B5	LM-T1207B4PL001	350	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.

Type : HLP-37/6

Full Load Torque : 30.7 Kg.m

 Motor moment of Inertia (J) : 0.781 Kg.m²

 Load moment of Inertia (J) : 30.700 Kg.m²

37 kW

6 P

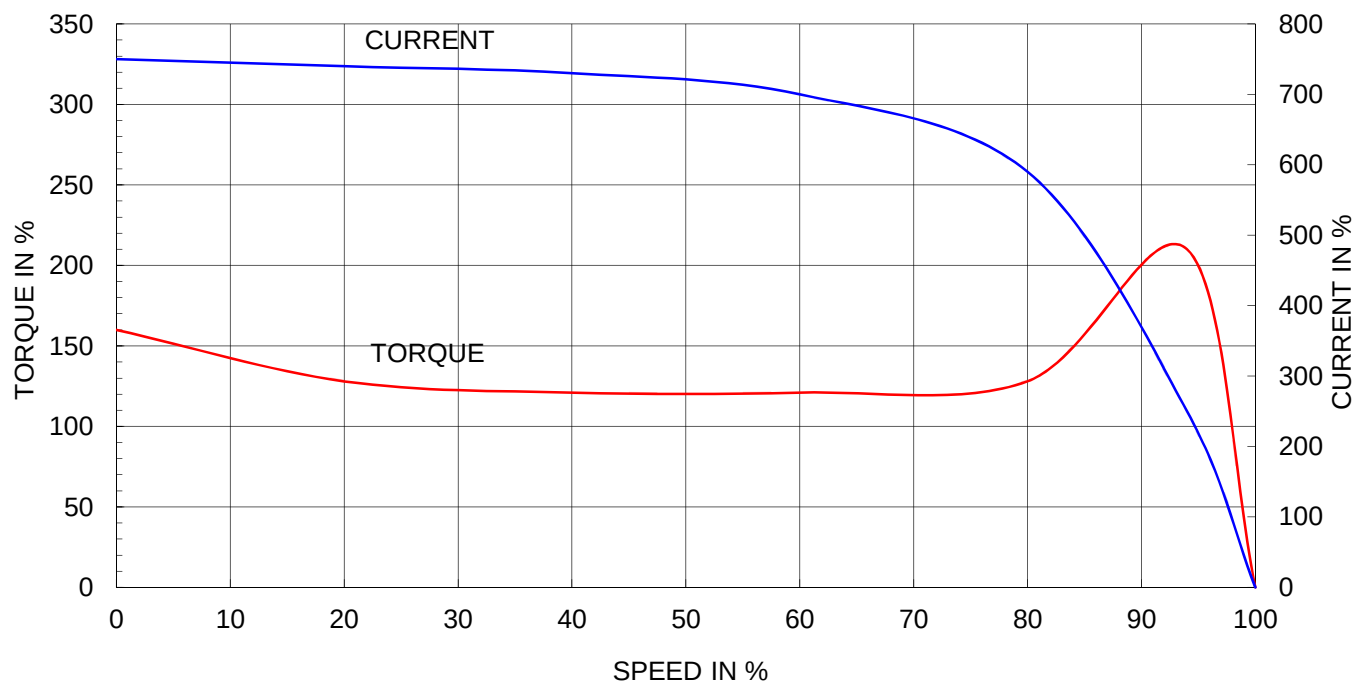
60 Hz

Speed at Full Load : 1175 RPM

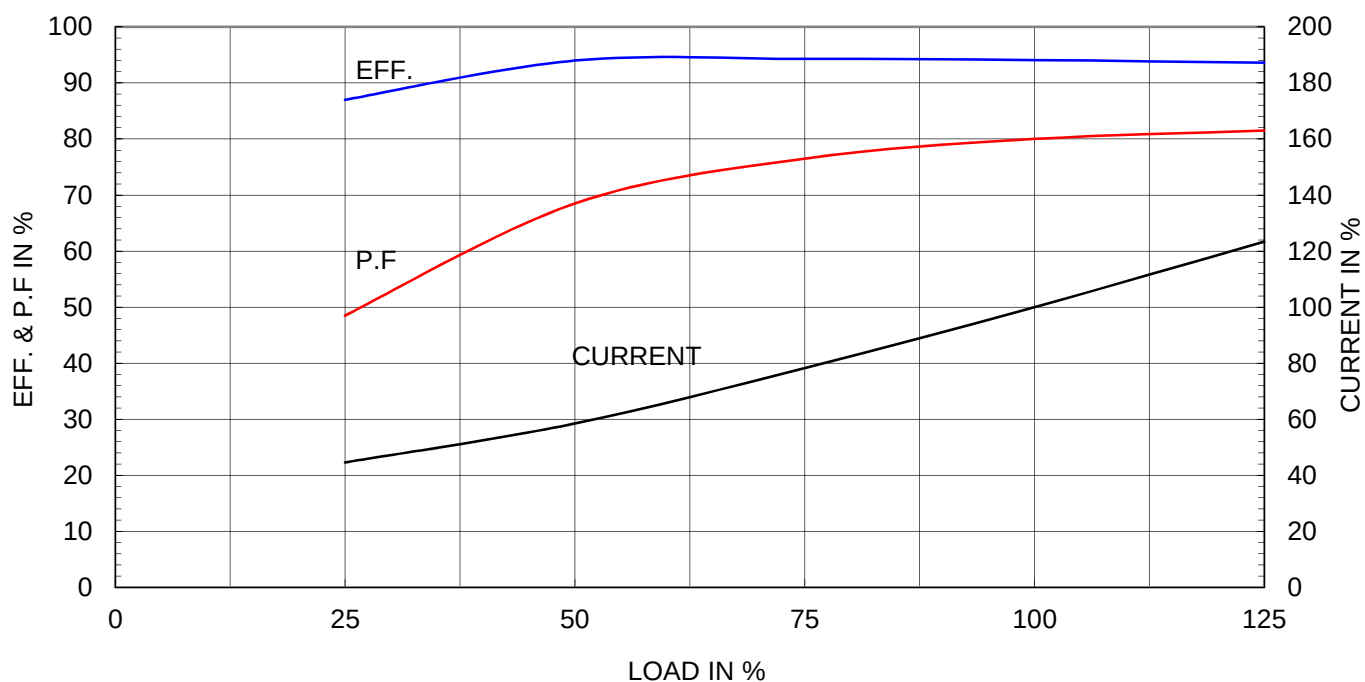
Rated Voltage	440V	380V	220V
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Full Load Current	64.5A	74.7A	129.0A
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SPEED VS TORQUE & CURRENT CURVE



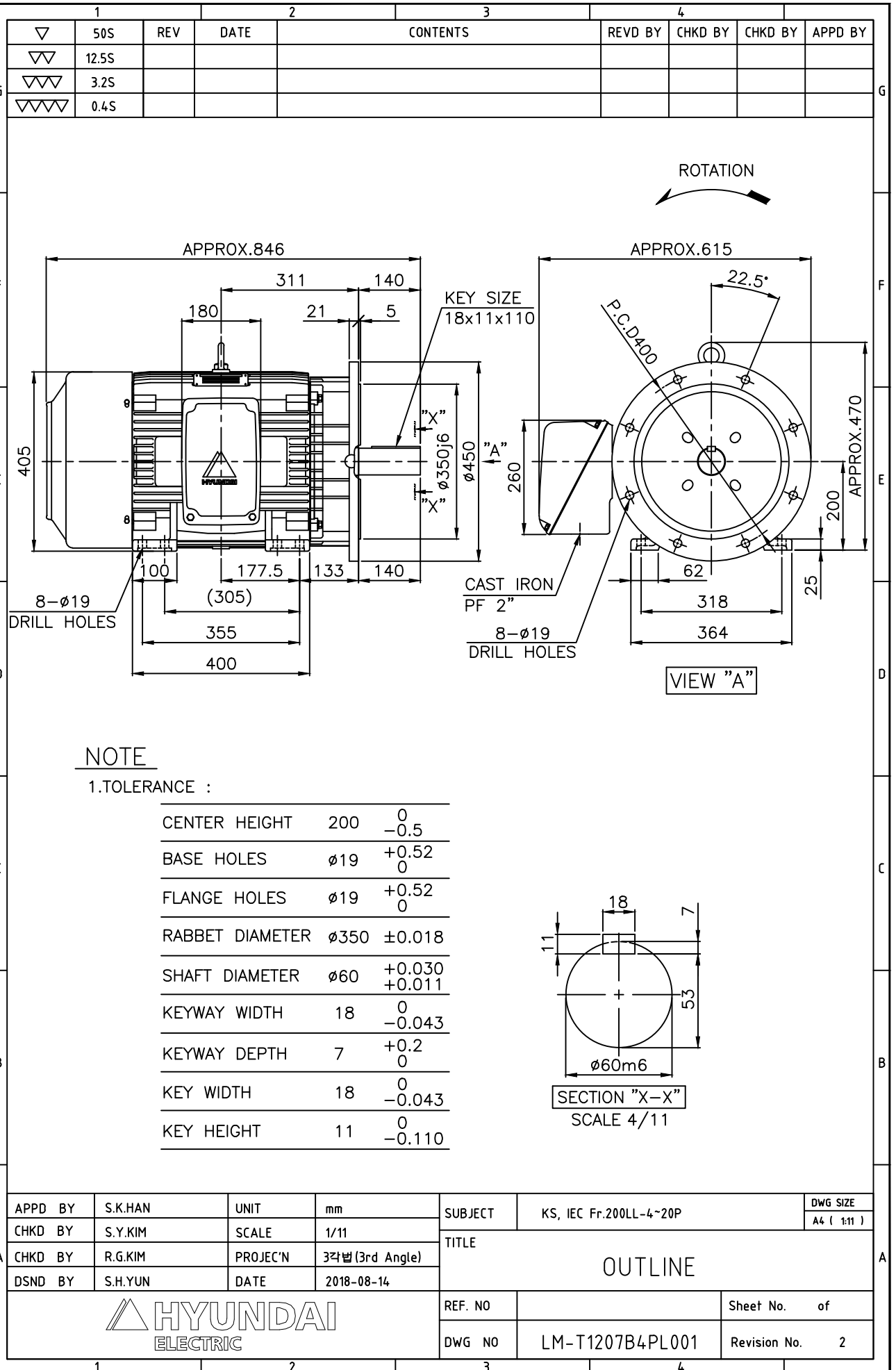
OUTPUT VS EFF., P.F & CURRENT CURVE



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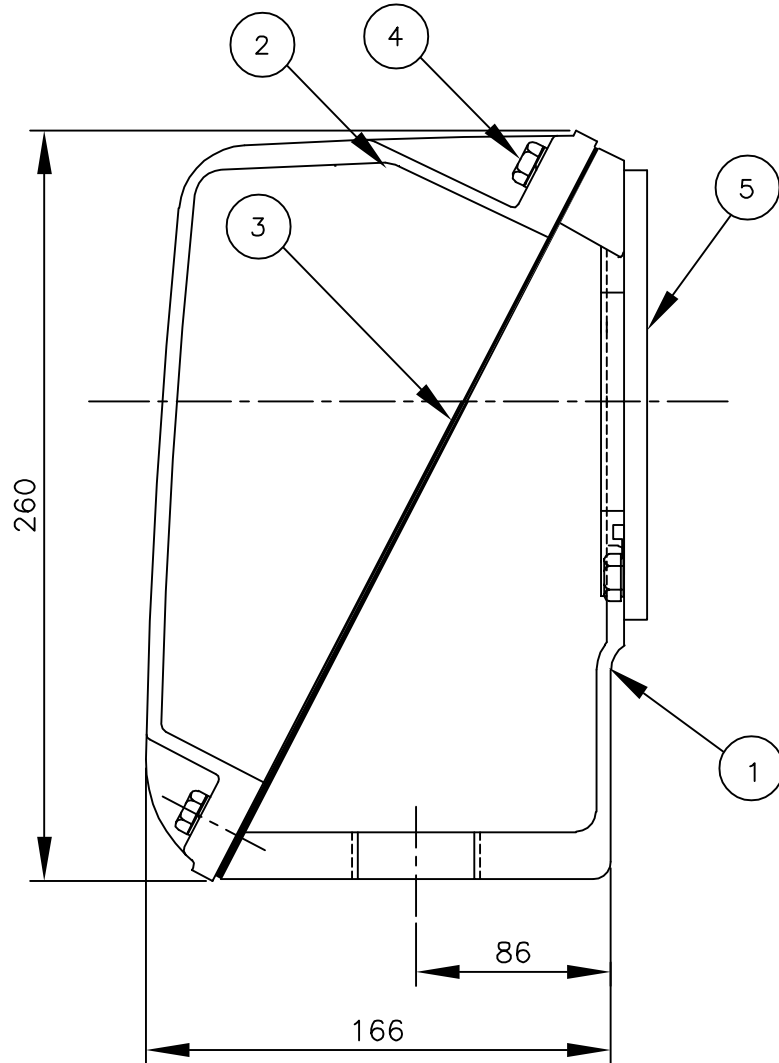
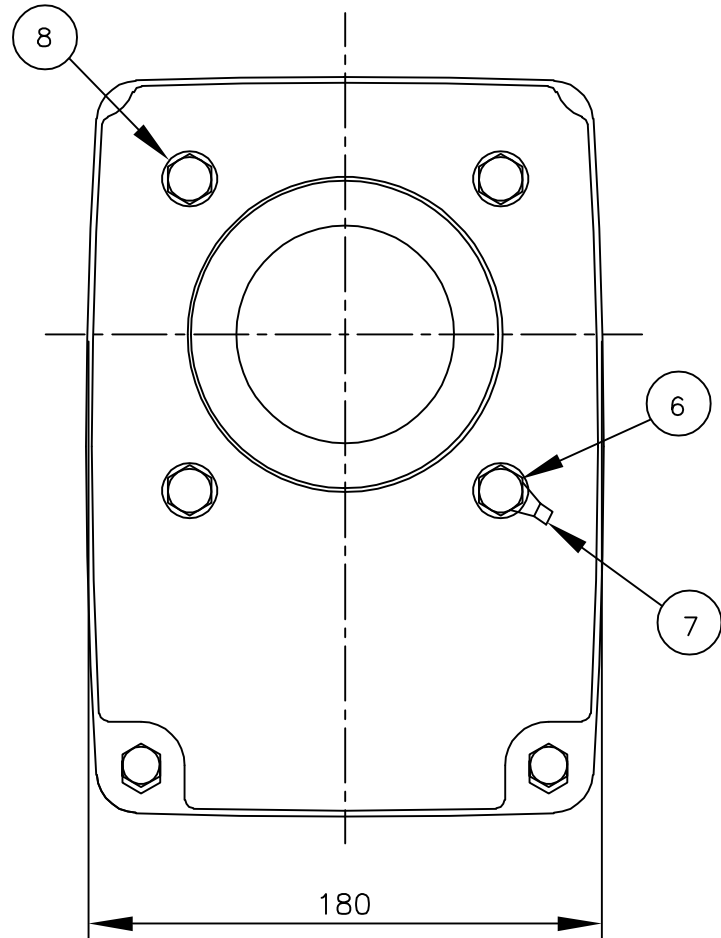
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PT	DESCRIPTION	MATERIAL	DIMENSION	Q,TY
1	CONDUIT BOX	FC20		1
2	C/B COVER	FC20		1
3	GASKET(COVER)	N.B.R	T2X170X210	1
4	SCREW(COVER)	S45C	M8XL20	4
5	GASKET(C/B)	N.B.R		1
6	SCREW(C/B)	S45C	M8XL20	4
7	TERMINAL GROUND	CU	T1.6	1
8	WASHER	S45C	M8 X L10	4

▽	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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