

HYOSUNG HEAVY INDUSTRIES		INDUCTION MOTOR DATA SHEET		PROJECT No. 6994	
				MODEL No. 24EF-FFEB	
				L-SPEC No. DSML22082M	
SHEET 1 OF 1		CUSTOMER			
FOR INFORMATION		JOB NO.		ITEM No.	
SERVICE		SITE		QUANTITY	
GENERAL DATA			PERFORMANCE DATA		
FRAME No.		132M		OUTPUT 7.5 kW	
TYPE		EF-F		POLES 4 P	
ENCLOSURE		TE		ROTOR TYPE SQUIRREL CAGE	
COOLING METHOD		FC(IC411)		STARTING METHOD DIRECT ON LINE	
INSULATION CLASS		F CLASS		PHASE 3 PHASE	
TEMP. RISE AT FULL LOAD			FREQUENCY 60 Hz		
RES. METHOD		80 K (at S.F:1.0)		SPEED (AT FULL LOAD) 1770 r/min	
RATING		S1		PRIMARY	
LOCATION		INDOOR		VOLTAGE 220/380 V	
ALTITUDE		LESS THAN 1000 m		NO LOAD CURRENT 14.9/8.6 A	
HUMIDITY		LESS THAN 80 %		FULL LOAD CURRENT 28.2/16.4 A	
AMBIENT TEMP.		40 °C		LOCKED-ROTOR CURRENT 600 %	
EXPLOSION PROOF TYPE		Ex d IIB T4		EFFICIENCY	
MOUNTING		V1		AT 1/2 LOAD 88.7 %	
BEARING TYPE		ANTI-FRICTION		AT 3/4 LOAD 90.7 %	
NDE/DE BRG. No.		6206ZZ / 6209ZZ		AT FULL LOAD 91.7 %	
BRG. LUBRICATION		N/A		POWER FACTOR	
PROTECTION GRADE		IP55		AT 1/2 LOAD 61.0 %	
SERVICE FACTOR		1.0		AT 3/4 LOAD 71.0 %	
DRIVE		DIRECT COUPLED		AT FULL LOAD 76.0 %	
SHAFT			TORQUE		
EXTENSION		SINGLE		FULL LOAD 4.13 kg-m	
EXTERNAL THRUST		N/A		40.5 N-m	
NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR)			LOCKED ROTOR 210 %		
NO-LOAD		N/A		BREAKDOWN 260 %	
VIBRATION		N/A		MOTOR GD² 0.204 kg-m²	
NUMBER OF CONSECUTIVE STARTS		N/A		MAX LOAD GD² AT MOTOR SHAFT 23.2 kg-m²	
ROTATION(VIEWED FROM DE)		C.C.W		MOTOR APPROX. WEIGHT 110 kg	
ACCESSORIES (OPTIONAL)			PAINTING 0.5PB 3.2/4.4 (URETHANE)		
SUBMITTAL DRAWINGS					
TEMPERATURE DETECTOR			OUTLINE DIMENSION ES1AS43007		
WINDING NO			CONDUIT BOX & COVER ES1B100912		
TYPE -			SPEED-TORQUE & CURRENT CURVE DSML22082M		
BEARING NO			THERMAL LIMIT & TIME-CURRENT CURVE DSML22082M		
TYPE -			LOAD vs POWER FACTOR & EFFICIENCY DSML22082M		
SPACE HEATER NO			<REMARKS>		
RATING -			1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE.		
APPLICATION STANDARDS IEC60034-1, ISO 3746			2. PREMIUM EFFICIENCY TYPE MOTOR		
<NOTE>					
1. THESE DATA ARE ONLY DESIGN VALUES AND SHALL BE GUARANTEED WITH TOLERANCE OF APPLICATION STANDARD.			REV. NO		
2. EXCEPT FOR STATEMENTS SPECIFIED ON THIS SHEET, ANYTHING ELSE SHALL BE IN ACCORDANCE WITH MAKER STANDARD			DATE		
3. THE TEMPERATURE MEASURED AT BEARING HOUSING DOES NOT EXCEED 105°C.			PREPARED		
			CHECKED		
			APPROVED		
			1		
			2025-09-23		
			S.U.LEE		
			J.H.CHA		
			Y.J.PARK		

Data are subject to change without notice.(설계 개선 및 제작 환경에 따라 사전 공지 없이 특성 사양치 변경될 수 있음)

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