

HYOSUNG HEAVY INDUSTRIES		INDUCTION MOTOR DATA SHEET		PROJECT No. 2487	
				MODEL No. 24EFFEB	
				L-SPEC No. D1ML20602	
SHEET 1 OF 1		CUSTOMER			
FOR INFORMATION		JOB NO.		ITEM No.	
SERVICE		SITE		QUANTITY	
GENERAL DATA			PERFORMANCE DATA		
FRAME No.		225S		OUTPUT 45 kW	
TYPE		EF		POLES 6 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) 1190 r/min	
RATING		S1		PRIMARY	
LOCATION		INDOOR		VOLTAGE 380 V	
ALTITUDE		LESS THAN 1000 m		NO LOAD CURRENT 44.4 A	
HUMIDITY		LESS THAN 80 %		FULL LOAD CURRENT 91.6 A	
AMBIENT TEMP.		40 °C		LOCKED-ROTOR CURRENT 670 %	
EXPLOSION PROOF TYPE		Ex d IIB T4		EFFICIENCY	
MOUNTING		B3		AT 1/2 LOAD 91.5 %	
BEARING TYPE		ANTI-FRICTION		AT 3/4 LOAD 93.5 %	
NDE/DE BRG. No.		6312C3 / 6314C3		AT FULL LOAD 94.5 %	
BRG. LUBRICATION		MOBIL Polyrex EM		POWER FACTOR	
PROTECTION GRADE		IP55		AT 1/2 LOAD 64.0 %	
SERVICE FACTOR		1.0		AT 3/4 LOAD 74.0 %	
DRIVE		DIRECT COUPLED		AT FULL LOAD 79.0 %	
SHAFT			TORQUE		
EXTENSION		SINGLE		FULL LOAD 36.8 kg-m	
EXTERNAL THRUST		N/A		361.0 N-m	
NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR)			LOCKED ROTOR 120 %		
NO-LOAD		N/A		BREAKDOWN 270 %	
VIBRATION		N/A		MOTOR GD² 4.492 kg-m²	
NUMBER OF CONSECUTIVE STARTS		N/A		MAX LOAD GD² AT MOTOR SHAFT 334.8 kg-m²	
ROTATION(VIEWED FROM DE)		C.C.W		MOTOR APPROX. WEIGHT 490 kg	
ACCESSORIES (OPTIONAL)			PAINTING 0.5PB 3.2/4.4 (URETHANE)		
SUBMITTAL DRAWINGS					
TEMPERATURE DETECTOR			OUTLINE DIMENSION ES1AS30116		
WINDING NO			CONDUIT BOX & COVER ES1B100917		
TYPE -			SPEED-TORQUE & CURRENT CURVE D1ML20602		
BEARING NO			THERMAL LIMIT & TIME-CURRENT CURVE D1ML20602		
TYPE -			LOAD vs POWER FACTOR & EFFICIENCY D1ML20602		
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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