

HYOSUNG HEAVY INDUSTRIES		INDUCTION MOTOR DATA SHEET		PROJECT No. 2630	
				MODEL No. 24EF-FFEB	
				L-SPEC No. D1ML20425	
SHEET 1 OF 1		CUSTOMER			
FOR INFORMATION		JOB NO.		ITEM No.	
SERVICE		SITE		QUANTITY	
GENERAL DATA			PERFORMANCE DATA		
FRAME No.		250M		OUTPUT 90 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) 1785 r/min	
RATING		S1		PRIMARY	
LOCATION		INDOOR		VOLTAGE 380 V	
ALTITUDE		LESS THAN 1000 m		NO LOAD CURRENT 70.8 A	
HUMIDITY		LESS THAN 80 %		FULL LOAD CURRENT 173.7 A	
AMBIENT TEMP.		40 °C		LOCKED-ROTOR CURRENT 630 %	
EXPLOSION PROOF TYPE		Ex d IIB T4		EFFICIENCY	
MOUNTING		V1		AT 1/2 LOAD 92.4 %	
BEARING TYPE		ANTI-FRICTION		AT 3/4 LOAD 94.4 %	
NDE/DE BRG. No.		6313C3 / 6316C3		AT FULL LOAD 95.4 %	
BRG. LUBRICATION		MOBIL Polyrex EM		POWER FACTOR	
PROTECTION GRADE		IP55		AT 1/2 LOAD 67.5 %	
SERVICE FACTOR		1.0		AT 3/4 LOAD 77.5 %	
DRIVE		DIRECT COUPLED		AT FULL LOAD 82.5 %	
SHAFT			TORQUE		
EXTENSION		SINGLE		FULL LOAD 49.1 kg-m	
EXTERNAL THRUST		N/A		481.7 N-m	
NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR)			LOCKED ROTOR 170 %		
NO-LOAD		N/A		BREAKDOWN 220 %	
VIBRATION		N/A		MOTOR GD² 5.533 kg-m²	
NUMBER OF CONSECUTIVE STARTS		N/A		MAX LOAD GD² AT MOTOR SHAFT 210.8 kg-m²	
ROTATION(VIEWED FROM DE)		C.C.W		MOTOR APPROX. WEIGHT 860 kg	
ACCESSORIES (OPTIONAL)			PAINTING 0.5PB 3.2/4.4 (URETHANE)		
SUBMITTAL DRAWINGS					
TEMPERATURE DETECTOR			OUTLINE DIMENSION ES1AS16720		
WINDING			CONDUIT BOX & COVER ES1B100919		
TYPE			SPEED-TORQUE & CURRENT CURVE D1ML20425		
BEARING			THERMAL LIMIT & TIME-CURRENT CURVE D1ML20425		
TYPE			LOAD vs POWER FACTOR & EFFICIENCY D1ML20425		
SPACE HEATER			NO		
RATING			-		
APPLICATION STANDARDS			IEC60034-1, ISO 3746		
<NOTE> 1. THESE DATA ARE ONLY DESIGN VALUES AND SHALL BE GUARANTEED WITH TOLERANCE OF APPLICATION STANDARD. 2. EXCEPT FOR STATEMENTS SPECIFIED ON THIS SHEET, ANYTHING ELSE SHALL BE IN ACCORDANCE WITH MAKER STANDARD 3. THE TEMPERATURE MEASURED AT BEARING HOUSING DOES NOT EXCEED 105°C.			<REMARKS> 1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE. 2. PREMIUM EFFICIENCY TYPE MOTOR		
REV. NO		DATE		PREPARED	
1		2025-09-23		S.U.LEE	
CHECKED		APPROVED			
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) A4(210X297)