

HYOSUNG HEAVY INDUSTRIES		INDUCTION MOTOR DATA SHEET		PROJECT No. 2656	
				MODEL No. 24EF-FFEB	
				L-SPEC No. D1ML20608	
SHEET 1 OF 1		CUSTOMER			
FOR INFORMATION		JOB NO.		ITEM No.	
SERVICE		SITE		QUANTITY	
GENERAL DATA			PERFORMANCE DATA		
FRAME No.		315M		OUTPUT 160 kW	
TYPE		EF-F		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 136.4 A	
HUMIDITY		LESS THAN 80 %		FULL LOAD CURRENT 317.2 A	
AMBIENT TEMP.		40 °C		LOCKED-ROTOR CURRENT 670 %	
EXPLOSION PROOF TYPE		Ex d IIB T4		EFFICIENCY	
MOUNTING		V1		AT 1/2 LOAD 92.8 %	
BEARING TYPE		ANTI-FRICTION		AT 3/4 LOAD 94.8 %	
NDE/DE BRG. No.		6316C3 / 6222C3		AT FULL LOAD 95.8 %	
BRG. LUBRICATION		MOBIL Polyrex EM		POWER FACTOR	
PROTECTION GRADE		IP55		AT 1/2 LOAD 65.0 %	
SERVICE FACTOR		1.0		AT 3/4 LOAD 75.0 %	
DRIVE		DIRECT COUPLED		AT FULL LOAD 80.0 %	
SHAFT			TORQUE		
EXTENSION		SINGLE		FULL LOAD 131 kg-m	
EXTERNAL THRUST		N/A		1285.1 N-m	
NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR)			LOCKED ROTOR 130 %		
NO-LOAD		N/A		BREAKDOWN 180 %	
VIBRATION		N/A		MOTOR GD² 20.273 kg-m²	
NUMBER OF CONSECUTIVE STARTS		N/A		MAX LOAD GD² AT MOTOR SHAFT 743 kg-m²	
ROTATION(VIEWED FROM DE)		C.C.W		MOTOR APPROX. WEIGHT 1340 kg	
ACCESSORIES (OPTIONAL)			PAINTING 0.5PB 3.2/4.4 (URETHANE)		
SUBMITTAL DRAWINGS					
TEMPERATURE DETECTOR			OUTLINE DIMENSION ES1AS16728		
WINDING NO			CONDUIT BOX & COVER ES1B100919		
TYPE -			SPEED-TORQUE & CURRENT CURVE D1ML20608		
BEARING NO			THERMAL LIMIT & TIME-CURRENT CURVE D1ML20608		
TYPE -			LOAD vs POWER FACTOR & EFFICIENCY D1ML20608		
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 DATE PREPARED CHECKED APPROVED		
2. EXCEPT FOR STATEMENTS SPECIFIED ON THIS SHEET, ANYTHING ELSE SHALL BE IN ACCORDANCE WITH MAKER STANDARD			1 2025-09-23 S.U.LEE J.H.CHA Y.J.PARK		
3. THE TEMPERATURE MEASURED AT BEARING HOUSING DOES NOT EXCEED 105°C.					