

HYOSUNG HEAVY INDUSTRIES		INDUCTION MOTOR DATA SHEET		PROJECT No. 6992	
				MODEL No. 24EF-FFEB	
				L-SPEC No. DSML21162M	
SHEET 1 OF 1		CUSTOMER			
FOR INFORMATION		JOB NO.		ITEM No.	
SERVICE		SITE		QUANTITY	
GENERAL DATA			PERFORMANCE DATA		
FRAME No.		112M		OUTPUT 3.7 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) 1755 r/min	
RATING		S1		PRIMARY	
LOCATION		INDOOR		VOLTAGE 220/380 V	
ALTITUDE		LESS THAN 1000 m		NO LOAD CURRENT 8.6/5 A	
HUMIDITY		LESS THAN 80 %		FULL LOAD CURRENT 14.2/8.2 A	
AMBIENT TEMP.		40 °C		LOCKED-ROTOR CURRENT 660 %	
EXPLOSION PROOF TYPE		Ex d IIB T4		EFFICIENCY	
MOUNTING		V1		AT 1/2 LOAD 86.5 %	
BEARING TYPE		ANTI-FRICTION		AT 3/4 LOAD 88.5 %	
NDE/DE BRG. No.		6205ZZ / 6207ZZ		AT FULL LOAD 89.5 %	
BRG. LUBRICATION		N/A		POWER FACTOR	
PROTECTION GRADE		IP55		AT 1/2 LOAD 61.5 %	
SERVICE FACTOR		1.0		AT 3/4 LOAD 71.5 %	
DRIVE		DIRECT COUPLED		AT FULL LOAD 76.5 %	
SHAFT			TORQUE		
EXTENSION		SINGLE		FULL LOAD 2.05 kg-m	
EXTERNAL THRUST		N/A		20.1 N-m	
NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR)			LOCKED ROTOR 200 %		
NO-LOAD		N/A		BREAKDOWN 250 %	
VIBRATION		N/A		MOTOR GD² 0.07 kg-m²	
NUMBER OF CONSECUTIVE STARTS		N/A		MAX LOAD GD² AT MOTOR SHAFT 10.5 kg-m²	
ROTATION(VIEWED FROM DE)		C.C.W		MOTOR APPROX. WEIGHT 66 kg	
ACCESSORIES (OPTIONAL)			PAINTING 0.5PB 3.2/4.4 (URETHANE)		
TEMPERATURE DETECTOR			SUBMITTAL DRAWINGS		
WINDING		NO		OUTLINE DIMENSION ES1AS43005	
TYPE		-		CONDUIT BOX & COVER ES1B100911	
BEARING		NO		SPEED-TORQUE & CURRENT CURVE DSML21162M	
TYPE		-		THERMAL LIMIT & TIME-CURRENT CURVE DSML21162M	
SPACE HEATER		NO		LOAD vs POWER FACTOR & EFFICIENCY DSML21162M	
RATING		-		<REMARKS>	
APPLICATION STANDARDS		IEC60034-1, ISO 3746		1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE.	
<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.				2. PREMIUM EFFICIENCY TYPE MOTOR	
REV. NO		DATE		PREPARED	
1		2025-09-23		S.U.LEE	
				CHECKED	
				J.H.CHA	
				APPROVED	
				Y.J.PARK	