

HYOSUNG HEAVY INDUSTRIES		INDUCTION MOTOR DATA SHEET		PROJECT No. 2624									
				MODEL No. 24EF-FFEB									
				L-SPEC No. DSML21195M									
SHEET 1 OF 1		CUSTOMER											
FOR INFORMATION		JOB NO.		ITEM No.									
SERVICE		SITE		QUANTITY									
GENERAL DATA			PERFORMANCE DATA										
FRAME No.		180M		OUTPUT 22 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) 1780 r/min									
RATING		S1		PRIMARY									
LOCATION		INDOOR		VOLTAGE 380 V									
ALTITUDE		LESS THAN 1000 m		NO LOAD CURRENT 21.5 A									
HUMIDITY		LESS THAN 80 %		FULL LOAD CURRENT 44.6 A									
AMBIENT TEMP.		40 °C		LOCKED-ROTOR CURRENT 740 %									
EXPLOSION PROOF TYPE		Ex d IIB T4		EFFICIENCY									
MOUNTING		V1		AT 1/2 LOAD 90.6 %									
BEARING TYPE		ANTI-FRICTION		AT 3/4 LOAD 92.6 %									
NDE/DE BRG. No.		6312ZZ / 6312ZZ		AT FULL LOAD 93.6 %									
BRG. LUBRICATION		N/A		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 12.04 kg-m									
EXTERNAL THRUST		N/A		118.1 N-m									
NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR)			LOCKED ROTOR 210 %										
NO-LOAD		N/A		BREAKDOWN 260 %									
VIBRATION		N/A		MOTOR GD² 0.991 kg-m²									
NUMBER OF CONSECUTIVE STARTS		N/A		MAX LOAD GD² AT MOTOR SHAFT 50.8 kg-m²									
ROTATION(VIEWED FROM DE)		C.C.W		MOTOR APPROX. WEIGHT 263 kg									
ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS										
TEMPERATURE DETECTOR			OUTLINE DIMENSION ES1AS43010										
WINDING		NO		CONDUIT BOX & COVER ES1B100913									
TYPE		-		SPEED-TORQUE & CURRENT CURVE DSML21195M									
BEARING		NO		THERMAL LIMIT & TIME-CURRENT CURVE DSML21195M									
TYPE		-		LOAD vs POWER FACTOR & EFFICIENCY DSML21195M									
SPACE HEATER		NO		<REMARKS> 1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE. 2. PREMIUM EFFICIENCY TYPE MOTOR									
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.				REV. NO		DATE		PREPARED		CHECKED		APPROVED	
				1		2025-09-23		S.U.LEE		J.H.CHA		Y.J.PARK	