

HYOSUNG HEAVY INDUSTRIES		INDUCTION MOTOR DATA SHEET		PROJECT No. 2483	
				MODEL No. 24EFFEB	
				L-SPEC No. DSML20694H	
SHEET 1 OF 1		CUSTOMER			
FOR INFORMATION		JOB NO.		ITEM No.	
SERVICE		SITE		QUANTITY	
GENERAL DATA			PERFORMANCE DATA		
FRAME No.		180L		OUTPUT 18.5 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) 1180 r/min	
RATING		S1		PRIMARY	
LOCATION		INDOOR		VOLTAGE 380 V	
ALTITUDE		LESS THAN 1000 m		NO LOAD CURRENT 20.8 A	
HUMIDITY		LESS THAN 80 %		FULL LOAD CURRENT 40.6 A	
AMBIENT TEMP.		40 °C		LOCKED-ROTOR CURRENT 600 %	
EXPLOSION PROOF TYPE		Ex d IIB T4		EFFICIENCY	
MOUNTING		B3		AT 1/2 LOAD 90.0 %	
BEARING TYPE		ANTI-FRICTION		AT 3/4 LOAD 92.0 %	
NDE/DE BRG. No.		6312ZZ / 6312ZZ		AT FULL LOAD 93.0 %	
BRG. LUBRICATION		N/A		POWER FACTOR	
PROTECTION GRADE		IP55		AT 1/2 LOAD 59.5 %	
SERVICE FACTOR		1.0		AT 3/4 LOAD 69.5 %	
DRIVE		DIRECT COUPLED		AT FULL LOAD 74.5 %	
SHAFT			TORQUE		
EXTENSION		SINGLE		FULL LOAD 15.27 kg-m	
EXTERNAL THRUST		N/A		149.8 N-m	
NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR)			LOCKED ROTOR 190 %		
NO-LOAD		N/A		BREAKDOWN 240 %	
VIBRATION		N/A		MOTOR GD² 1.583 kg-m²	
NUMBER OF CONSECUTIVE STARTS		N/A		MAX LOAD GD² AT MOTOR SHAFT 121.6 kg-m²	
ROTATION(VIEWED FROM DE)		C.C.W		MOTOR APPROX. WEIGHT 276 kg	
ACCESSORIES (OPTIONAL)			PAINTING 0.5PB 3.2/4.4 (URETHANE)		
TEMPERATURE DETECTOR			SUBMITTAL DRAWINGS		
WINDING		NO		OUTLINE DIMENSION ES1AS30111	
TYPE		-		CONDUIT BOX & COVER ES1B100915	
BEARING		NO		SPEED-TORQUE & CURRENT CURVE DSML20694H	
TYPE		-		THERMAL LIMIT & TIME-CURRENT CURVE DSML20694H	
SPACE HEATER		NO		LOAD vs POWER FACTOR & EFFICIENCY DSML20694H	
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 CHECKED APPROVED	
				1 2025-09-23 S.U.LEE J.H.CHA Y.J.PARK	