

HYOSUNG HEAVY INDUSTRIES		INDUCTION MOTOR DATA SHEET		PROJECT No. 7017	
				MODEL No. 24EF-FFEB	
				L-SPEC No. DSML20976H	
SHEET 1 OF 1		CUSTOMER			
FOR INFORMATION		JOB NO.		ITEM No.	
SERVICE		SITE		QUANTITY	
GENERAL DATA			PERFORMANCE DATA		
FRAME No.		160L		OUTPUT 11 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) 1180 r/min	
RATING		S1		PRIMARY	
LOCATION		INDOOR		VOLTAGE 220/380 V	
ALTITUDE		LESS THAN 1000 m		NO LOAD CURRENT 20.8/12 A	
HUMIDITY		LESS THAN 80 %		FULL LOAD CURRENT 42/24.3 A	
AMBIENT TEMP.		40 °C		LOCKED-ROTOR CURRENT 650 %	
EXPLOSION PROOF TYPE		Ex d IIB T4		EFFICIENCY	
MOUNTING		V1		AT 1/2 LOAD 88.7 %	
BEARING TYPE		ANTI-FRICTION		AT 3/4 LOAD 90.7 %	
NDE/DE BRG. No.		6207ZZ / 6309ZZ		AT FULL LOAD 91.7 %	
BRG. LUBRICATION		N/A		POWER FACTOR	
PROTECTION GRADE		IP55		AT 1/2 LOAD 60.0 %	
SERVICE FACTOR		1.0		AT 3/4 LOAD 70.0 %	
DRIVE		DIRECT COUPLED		AT FULL LOAD 75.0 %	
SHAFT			TORQUE		
EXTENSION		SINGLE		FULL LOAD 9.08 kg-m	
EXTERNAL THRUST		N/A		89.1 N-m	
NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR)			LOCKED ROTOR 230 %		
NO-LOAD		N/A		BREAKDOWN 280 %	
VIBRATION		N/A		MOTOR GD² 0.913 kg-m²	
NUMBER OF CONSECUTIVE STARTS		N/A		MAX LOAD GD² AT MOTOR SHAFT 61.7 kg-m²	
ROTATION(VIEWED FROM DE)		C.C.W		MOTOR APPROX. WEIGHT 177 kg	
ACCESSORIES (OPTIONAL)			PAINTING 0.5PB 3.2/4.4 (URETHANE)		
SUBMITTAL DRAWINGS					
TEMPERATURE DETECTOR			OUTLINE DIMENSION ES1AS43009		
WINDING			CONDUIT BOX & COVER ES1B100913		
TYPE			-		
BEARING			SPEED-TORQUE & CURRENT CURVE DSML20976H		
TYPE			-		
SPACE HEATER			THERMAL LIMIT & TIME-CURRENT CURVE DSML20976H		
RATING			-		
			LOAD vs POWER FACTOR & EFFICIENCY DSML20976H		
APPLICATION STANDARDS IEC60034-1, ISO 3746			<REMARKS>		
<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.			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	
				J.H.CHA	
				APPROVED	
				Y.J.PARK	

Data are subject to change without notice.(설계 개선 및 제작 환경에 따라 사전 공지 없이 특성 사양치 변경될 수 있음)

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