

HYOSUNG HEAVY INDUSTRIES		INDUCTION MOTOR DATA SHEET		PROJECT No. 6995	
				MODEL No. 24EF-FFEB	
				L-SPEC No. DSML21192M	
SHEET 1 OF 1		CUSTOMER			
FOR INFORMATION		JOB NO.		ITEM No.	
SERVICE		SITE		QUANTITY	
GENERAL DATA			PERFORMANCE DATA		
FRAME No.		160M		OUTPUT 11 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 220/380 V	
ALTITUDE		LESS THAN 1000 m		NO LOAD CURRENT 18.4/10.7 A	
HUMIDITY		LESS THAN 80 %		FULL LOAD CURRENT 39.3/22.8 A	
AMBIENT TEMP.		40 °C		LOCKED-ROTOR CURRENT 660 %	
EXPLOSION PROOF TYPE		Ex d IIB T4		EFFICIENCY	
MOUNTING		V1		AT 1/2 LOAD 89.4 %	
BEARING TYPE		ANTI-FRICTION		AT 3/4 LOAD 91.4 %	
NDE/DE BRG. No.		6207ZZ / 6309ZZ		AT FULL LOAD 92.4 %	
BRG. LUBRICATION		N/A		POWER FACTOR	
PROTECTION GRADE		IP55		AT 1/2 LOAD 64.5 %	
SERVICE FACTOR		1.0		AT 3/4 LOAD 74.5 %	
DRIVE		DIRECT COUPLED		AT FULL LOAD 79.5 %	
SHAFT			TORQUE		
EXTENSION		SINGLE		FULL LOAD 6.02 kg-m	
EXTERNAL THRUST		N/A		59.1 N-m	
NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR)			LOCKED ROTOR 200 %		
NO-LOAD		N/A		BREAKDOWN 250 %	
VIBRATION		N/A		MOTOR GD² 0.427 kg-m²	
NUMBER OF CONSECUTIVE STARTS		N/A		MAX LOAD GD² AT MOTOR SHAFT 27.6 kg-m²	
ROTATION(VIEWED FROM DE)		C.C.W		MOTOR APPROX. WEIGHT 162 kg	
ACCESSORIES (OPTIONAL)			PAINTING 0.5PB 3.2/4.4 (URETHANE)		
SUBMITTAL DRAWINGS					
TEMPERATURE DETECTOR			OUTLINE DIMENSION ES1AS43008		
WINDING NO			CONDUIT BOX & COVER ES1B100913		
TYPE -			SPEED-TORQUE & CURRENT CURVE DSML21192M		
BEARING NO			THERMAL LIMIT & TIME-CURRENT CURVE DSML21192M		
TYPE -			LOAD vs POWER FACTOR & EFFICIENCY DSML21192M		
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		
2. EXCEPT FOR STATEMENTS SPECIFIED ON THIS SHEET, ANYTHING ELSE SHALL BE IN ACCORDANCE WITH MAKER STANDARD			DATE		
3. THE TEMPERATURE MEASURED AT BEARING HOUSING DOES NOT EXCEED 105°C.			PREPARED		
			CHECKED		
			APPROVED		
			1		
			2025-09-23		
			S.U.LEE		
			J.H.CHA		
			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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