

HYOSUNG HEAVY INDUSTRIES		INDUCTION MOTOR DATA SHEET		PROJECT No. 7013					
				MODEL No. 24EF-FFEB					
				L-SPEC No. DSML20918H					
SHEET 1 OF 1		CUSTOMER							
FOR INFORMATION		JOB NO.		ITEM No.					
SERVICE		SITE		QUANTITY					
GENERAL DATA			PERFORMANCE DATA						
FRAME No.		112M		OUTPUT 2.2 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) 1165 r/min					
RATING		S1		PRIMARY					
LOCATION		INDOOR		VOLTAGE 220/380 V					
ALTITUDE		LESS THAN 1000 m		NO LOAD CURRENT 6.6/3.9 A					
HUMIDITY		LESS THAN 80 %		FULL LOAD CURRENT 9.6/5.6 A					
AMBIENT TEMP.		40 °C		LOCKED-ROTOR CURRENT 700 %					
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 52.0 %					
SERVICE FACTOR		1.0		AT 3/4 LOAD 62.0 %					
DRIVE		DIRECT COUPLED		AT FULL LOAD 67.0 %					
SHAFT			TORQUE						
EXTENSION		SINGLE		FULL LOAD 1.84 kg-m					
EXTERNAL THRUST		N/A		18.1 N-m					
NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR)			LOCKED ROTOR 180 %						
NO-LOAD		N/A		BREAKDOWN 230 %					
VIBRATION		N/A		MOTOR GD² 0.107 kg-m²					
NUMBER OF CONSECUTIVE STARTS		N/A		MAX LOAD GD² AT MOTOR SHAFT 14.2 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 DSML20918H					
TYPE		-		THERMAL LIMIT & TIME-CURRENT CURVE DSML20918H					
SPACE HEATER		NO		LOAD vs POWER FACTOR & EFFICIENCY DSML20918H					
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	

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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