

HYOSUNG HEAVY INDUSTRIES		INDUCTION MOTOR DATA SHEET		PROJECT No. 6996									
				MODEL No. 24EF-FFEB									
				L-SPEC No. DSML21193M									
SHEET 1 OF 1		CUSTOMER											
FOR INFORMATION		JOB NO.		ITEM No.									
SERVICE		SITE		QUANTITY									
GENERAL DATA			PERFORMANCE DATA										
FRAME No.		160L		OUTPUT 15 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) 1775 r/min									
RATING		S1		PRIMARY									
LOCATION		INDOOR		VOLTAGE 220/380 V									
ALTITUDE		LESS THAN 1000 m		NO LOAD CURRENT 26.6/15.4 A									
HUMIDITY		LESS THAN 80 %		FULL LOAD CURRENT 53.6/31 A									
AMBIENT TEMP.		40 °C		LOCKED-ROTOR CURRENT 650 %									
EXPLOSION PROOF TYPE		Ex d IIB T4		EFFICIENCY									
MOUNTING		V1		AT 1/2 LOAD 90.0 %									
BEARING TYPE		ANTI-FRICTION		AT 3/4 LOAD 92.0 %									
NDE/DE BRG. No.		6207ZZ / 6309ZZ		AT FULL LOAD 93.0 %									
BRG. LUBRICATION		N/A		POWER FACTOR									
PROTECTION GRADE		IP55		AT 1/2 LOAD 64.0 %									
SERVICE FACTOR		1.0		AT 3/4 LOAD 74.0 %									
DRIVE		DIRECT COUPLED		AT FULL LOAD 79.0 %									
SHAFT			TORQUE										
EXTENSION		SINGLE		FULL LOAD 8.23 kg-m									
EXTERNAL THRUST		N/A		80.7 N-m									
NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR)			LOCKED ROTOR 200 %										
NO-LOAD		N/A		BREAKDOWN 250 %									
VIBRATION		N/A		MOTOR GD² 0.522 kg-m²									
NUMBER OF CONSECUTIVE STARTS		N/A		MAX LOAD GD² AT MOTOR SHAFT 39.2 kg-m²									
ROTATION(VIEWED FROM DE)		C.C.W		MOTOR APPROX. WEIGHT 177 kg									
ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS										
TEMPERATURE DETECTOR			OUTLINE DIMENSION ES1AS43009										
WINDING		NO		CONDUIT BOX & COVER ES1B100913									
TYPE		-		SPEED-TORQUE & CURRENT CURVE DSML21193M									
BEARING		NO		THERMAL LIMIT & TIME-CURRENT CURVE DSML21193M									
TYPE		-		LOAD vs POWER FACTOR & EFFICIENCY DSML21193M									
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	

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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