

HYOSUNG HEAVY INDUSTRIES		INDUCTION MOTOR DATA SHEET		PROJECT No. 7016	
				MODEL No. 24EF-FFEB	
				L-SPEC No. DSML20691H	
SHEET 1 OF 1		CUSTOMER			
FOR INFORMATION		JOB NO.		ITEM No.	
SERVICE		SITE		QUANTITY	
GENERAL DATA			PERFORMANCE DATA		
FRAME No.		160M		OUTPUT 7.5 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 16.6/9.6 A	
HUMIDITY		LESS THAN 80 %		FULL LOAD CURRENT 30/17.4 A	
AMBIENT TEMP.		40 °C		LOCKED-ROTOR CURRENT 700 %	
EXPLOSION PROOF TYPE		Ex d IIB T4		EFFICIENCY	
MOUNTING		V1		AT 1/2 LOAD 88.0 %	
BEARING TYPE		ANTI-FRICTION		AT 3/4 LOAD 90.0 %	
NDE/DE BRG. No.		6207ZZ / 6309ZZ		AT FULL LOAD 91.0 %	
BRG. LUBRICATION		N/A		POWER FACTOR	
PROTECTION GRADE		IP55		AT 1/2 LOAD 57.0 %	
SERVICE FACTOR		1.0		AT 3/4 LOAD 67.0 %	
DRIVE		DIRECT COUPLED		AT FULL LOAD 72.0 %	
SHAFT			TORQUE		
EXTENSION		SINGLE		FULL LOAD 6.19 kg-m	
EXTERNAL THRUST		N/A		60.7 N-m	
NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR)			LOCKED ROTOR 250 %		
NO-LOAD		N/A		BREAKDOWN 300 %	
VIBRATION		N/A		MOTOR GD² 0.714 kg-m²	
NUMBER OF CONSECUTIVE STARTS		N/A		MAX LOAD GD² AT MOTOR SHAFT 45.6 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			CONDUIT BOX & COVER ES1B100913		
TYPE			SPEED-TORQUE & CURRENT CURVE DSML20691H		
BEARING			THERMAL LIMIT & TIME-CURRENT CURVE DSML20691H		
TYPE			LOAD vs POWER FACTOR & EFFICIENCY DSML20691H		
SPACE HEATER			NO		
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.			<REMARKS> 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		APPROVED			
J.H.CHA		Y.J.PARK			