

HYOSUNG HEAVY INDUSTRIES		INDUCTION MOTOR DATA SHEET		PROJECT No. 2461	
				MODEL No. 24EFFEB	
				L-SPEC No. DSML21855M	
SHEET 1 OF 1		CUSTOMER			
FOR INFORMATION		JOB NO.		ITEM No.	
SERVICE		SITE		QUANTITY	
GENERAL DATA			PERFORMANCE DATA		
FRAME No.		180M		OUTPUT 18.5 kW	
TYPE		EF		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 380 V	
ALTITUDE		LESS THAN 1000 m		NO LOAD CURRENT 15.5 A	
HUMIDITY		LESS THAN 80 %		FULL LOAD CURRENT 36.6 A	
AMBIENT TEMP.		40 °C		LOCKED-ROTOR CURRENT 680 %	
EXPLOSION PROOF TYPE		Ex d IIB T4		EFFICIENCY	
MOUNTING		B3		AT 1/2 LOAD 90.6 %	
BEARING TYPE		ANTI-FRICTION		AT 3/4 LOAD 92.6 %	
NDE/DE BRG. No.		6312ZZ / 6312ZZ		AT FULL LOAD 93.6 %	
BRG. LUBRICATION		N/A		POWER FACTOR	
PROTECTION GRADE		IP55		AT 1/2 LOAD 67.0 %	
SERVICE FACTOR		1.0		AT 3/4 LOAD 77.0 %	
DRIVE		DIRECT COUPLED		AT FULL LOAD 82.0 %	
SHAFT			TORQUE		
EXTENSION		SINGLE		FULL LOAD 10.12 kg-m	
EXTERNAL THRUST		N/A		99.3 N-m	
NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR)			LOCKED ROTOR 190 %		
NO-LOAD		N/A		BREAKDOWN 240 %	
VIBRATION		N/A		MOTOR GD² 0.874 kg-m²	
NUMBER OF CONSECUTIVE STARTS		N/A		MAX LOAD GD² AT MOTOR SHAFT 42 kg-m²	
ROTATION(VIEWED FROM DE)		C.C.W		MOTOR APPROX. WEIGHT 250 kg	
ACCESSORIES (OPTIONAL)			PAINTING 0.5PB 3.2/4.4 (URETHANE)		
SUBMITTAL DRAWINGS					
TEMPERATURE DETECTOR			OUTLINE DIMENSION ES1AS30110		
WINDING			CONDUIT BOX & COVER ES1B100913		
TYPE			SPEED-TORQUE & CURRENT CURVE DSML21855M		
BEARING			THERMAL LIMIT & TIME-CURRENT CURVE DSML21855M		
TYPE			LOAD vs POWER FACTOR & EFFICIENCY DSML21855M		
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			