

HYOSUNG HEAVY INDUSTRIES		INDUCTION MOTOR DATA SHEET		PROJECT No. 2462					
				MODEL No. 24EFFEB					
				L-SPEC No. DSML21195M					
SHEET 1 OF 1		CUSTOMER							
FOR INFORMATION		JOB NO.		ITEM No.					
SERVICE		SITE		QUANTITY					
GENERAL DATA			PERFORMANCE DATA						
FRAME No.		180M		OUTPUT 22 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 21.5 A					
HUMIDITY		LESS THAN 80 %		FULL LOAD CURRENT 44.6 A					
AMBIENT TEMP.		40 °C		LOCKED-ROTOR CURRENT 740 %					
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 65.0 %					
SERVICE FACTOR		1.0		AT 3/4 LOAD 75.0 %					
DRIVE		DIRECT COUPLED		AT FULL LOAD 80.0 %					
SHAFT			TORQUE						
EXTENSION		SINGLE		FULL LOAD 12.04 kg-m					
EXTERNAL THRUST		N/A		118.1 N-m					
NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR)			LOCKED ROTOR 210 %						
NO-LOAD		N/A		BREAKDOWN 260 %					
VIBRATION		N/A		MOTOR GD² 0.991 kg-m²					
NUMBER OF CONSECUTIVE STARTS		N/A		MAX LOAD GD² AT MOTOR SHAFT 50.8 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			-						
BEARING			SPEED-TORQUE & CURRENT CURVE DSML21195M						
TYPE			-						
SPACE HEATER			THERMAL LIMIT & TIME-CURRENT CURVE DSML21195M						
RATING			-						
			LOAD vs POWER FACTOR & EFFICIENCY DSML21195M						
APPLICATION STANDARDS IEC60034-1, ISO 3746			<REMARKS>						
<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.			1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE.						
			2. PREMIUM EFFICIENCY TYPE MOTOR						
REV. NO		DATE		PREPARED		CHECKED		APPROVED	
1		2025-09-23		S.U.LEE		J.H.CHA		Y.J.PARK	