

HYOSUNG HEAVY INDUSTRIES		INDUCTION MOTOR DATA SHEET		PROJECT No. 1651	
				MODEL No. 24TE-FFEB	
				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		TE-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) 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		N/A		EFFICIENCY	
MOUNTING		V1		AT 1/2 LOAD 90.6 %	
BEARING TYPE		ANTI-FRICTION		AT 3/4 LOAD 92.6 %	
NDE/DE BRG. No.		6310ZZ / 6312ZZ		AT FULL LOAD 93.6 %	
BRG. LUBRICATION		N/A		POWER FACTOR	
PROTECTION GRADE		IP55		AT 1/2 LOAD 67.0 %	
SERVICE FACTOR		1.15		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 223 kg	
ACCESSORIES (OPTIONAL)			PAINTING 0.5PB 3.2/4.4 (URETHANE)		
SUBMITTAL DRAWINGS					
TEMPERATURE DETECTOR			OUTLINE DIMENSION ES1AS40210		
WINDING NO			CONDUIT BOX & COVER ES1B100803		
TYPE -			SPEED-TORQUE & CURRENT CURVE DSML21855M		
BEARING NO			THERMAL LIMIT & TIME-CURRENT CURVE DSML21855M		
TYPE -			LOAD vs POWER FACTOR & EFFICIENCY DSML21855M		
SPACE HEATER NO			<REMARKS>		
RATING -			1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE.		
APPLICATION STANDARDS IEC60034-1, ISO 3746			2. PREMIUM EFFICIENCY TYPE MOTOR		
<NOTE>					
1. THESE DATA ARE ONLY DESIGN VALUES AND SHALL BE GUARANTEED WITH TOLERANCE OF APPLICATION STANDARD.			REV. NO		
2. EXCEPT FOR STATEMENTS SPECIFIED ON THIS SHEET, ANYTHING ELSE SHALL BE IN ACCORDANCE WITH MAKER STANDARD			DATE		
3. THE TEMPERATURE MEASURED AT BEARING HOUSING DOES NOT EXCEED 105°C.			PREPARED		
			CHECKED		
			APPROVED		
			1		
			2025-09-22		
			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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