HYOSUNG HEAVY INDUSTRIES

INDUCTION MOTOR DATA SHEET

PROJECT No.	1652
MODEL No.	24TE-FFEB
L-SPEC No.	DSML21195M

SHEET 1 OF 1	CUSTOMER		
FOR INFORMATION	JOB NO.	ITEM No.	
SERVICE	SITE	QUANTITY	

GENERAL DATA

FRAME No.	180M
TYPE	TE-F
ENCLOSURE	TE
COOLING METHOD	FC(IC411)
INSULATION CLASS	F CLASS
TEMP. RISE AT FULL LOAD	
RES. METHOD	80 K (at S.F:1.0)
RATING	S1
LOCATION	INDOOR
ALTITUDE	LESS THAN 1000 m
HUMIDITY	LESS THAN 80 %
AMBIENT TEMP.	40 °C
EXPLOSION PROOF TYPE	N/A
MOUNTING	V1
BEARING TYPE	ANTI-FRICTION
NDE/DE BRG. No.	6310ZZ / 6312ZZ
BRG. LUBRICATION	N/A
PROTECTION GRADE	IP55
SERVICE FACTOR	1.15
DRIVE	DIRECT COUPLED
SHAFT	
EXTENSION	SINGLE
EXTERNAL THRUST	N/A
NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR)	
NO-LOAD	N/A
VIBRATION	N/A
NUMBER OF CONSECUTIVE STARTS	N/A
ROTATION(VIEWED FROM DE)	C.C.W

PERFORMANCE DATA

OUTPUT	22	kW
POLES	4	P
ROTOR TYPE	SQUIRREL CAGE	
STARTING METHOD	DIRECT ON LINE	
PHASE	3	PHASE
FREQUENCY	60	Hz
SPEED (AT FULL LOAD)	1780	r/min
PRIMARY		
VOLTAGE	380	V
NO LOAD CURRENT	21.5	A
FULL LOAD CURRENT	44.6	A
LOCKED-ROTOR CURRENT	740	%
EFFICIENCY		
AT 1/2 LOAD	90.6	%
AT 3/4 LOAD	92.6	%
AT FULL LOAD	93.6	%
POWER FACTOR		
AT 1/2 LOAD	65.0	%
AT 3/4 LOAD	75.0	%
AT FULL LOAD	80.0	%
TORQUE		
FULL LOAD	12.04	kg-m
	118.1	N-m
LOCKED ROTOR	210	%
BREAKDOWN	260	%
MOTOR GD²	0.991	kg-m²
MAX LOAD GD² AT MOTOR SHAFT	50.8	kg-m²
MOTOR APPROX. WEIGHT	223	kg
PAINTING	0.5PB 3.2/4.4 (URETHANE)	

ACCESSORIES (OPTIONAL)

TEMPERATURE DETECTOR		
WINDING		NO
	TYPE	-
BEARING		NO
	TYPE	-
SPACE HEATER		NO
RATING		-
APPLICATION STANDARDS		IEC60034-1, ISO 3746

SUBMITTAL DRAWINGS

OUTLINE DIMENSION	ES1AS40210
CONDUIT BOX & COVER	ES1B100803
SPEED-TORQUE & CURRENT CURVE	DSML21195M
THERMAL LIMIT & TIME-CURRENT CURVE	DSML21195M
LOAD vs POWER FACTOR & EFFICIENCY	DSML21195M

<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℃.

<REMARKS>
1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE.
2. PREMIUM EFFICIENCY TYPE MOTOR

REV. NO	DATE	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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