

		<h1 style="text-align: center;">INDUCTION MOTOR</h1> <h2 style="text-align: center;">DATA SHEET</h2>		PROJECT No. P42-4160-201904-1163			
				HS No. 201904-6426_12000_003			
				L-SPEC No. DSML20409F003M			
SHEET 1 OF 1		CUSTOMER :					
FOR PROPOSAL		JOB No. : N/A		ITEM No. :			
SERVICE : N/A		SITE :		QUANTITY 1 SET			
GENERAL DATA			PERFORMANCE DATA				
FRAME No.	180M		OUTPUT	18.5 kW			
TYPE	TEFC		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	50 Hz			
RES. METHOD	80 K (at S.F.:1.0)		SPEED (AT FULL LOAD)	1470 r/min			
RATING	S1		PRIMARY				
LOCATION	INDOOR		VOLTAGE	380 V			
ALTITUDE	LESS THAN 1000 m		NO LOAD CURRENT	20.7 A			
HUMIDITY	LESS THAN 80 %		FULL LOAD CURRENT	38.5 A			
AMBIENT TEMP.	40 °C		LOCKED-ROTOR CURRENT	600 %			
EXPLOSION PROOF TYPE	N/A		EFFICIENCY				
MOUNTING	B5		AT 1/2 LOAD	88.2 %			
BEARING TYPE	ANTI-FRICTION		AT 3/4 LOAD	90.2 %			
NDE/DE BRG. No.	6310ZZ / 6312ZZ		AT FULL LOAD	91.2 %			
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	12.26 kg-m			
EXTERNAL THRUST	N/A			120.3 N-m			
NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR)			LOCKED ROTOR	140 %			
NO-LOAD	STANDARD		BREAKDOWN	190 %			
VIBRATION	2.2 mm/s (r.m.s)		MOTOR GD ²	0.797 kg-m ²			
NUMBER OF CONSECUTIVE STARTS	COLD : 2 / HOT : 1 (4P)		MAX LOAD GD ² AT MOTOR SHAFT	60.4 kg-m ²			
ROTATION(VIEWED FROM DE)	C.C.W		MOTOR APPROX. WEIGHT	223 kg			
			PAINTING	0.5PB 3.2/4.4 (ENAMEL)			
ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS				
TEMPERATURE DETECTOR			OUTLINE DIMENSION	ES1AS33110			
WINDING	NO		CONDUIT BOX & COVER	ES1B100103			
TYPE	N/A		SPEED-TORQUE & CURRENT CURVE	1STP42-4160-201904-1163			
BEARING	NO		THERMAL LIMIT & TIME-CURRENT	1TLP42-4160-201904-1163			
TYPE	N/A		LOAD vs POWER & EFFICIENCY	1PEP42-4160-201904-1163			
SPACE HEATER	NO		<REMARKS> 1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE. 2. HIGH EFFICIENCY TYPE MOTOR				
RATING	N/A						
APPLICATION STANDARDS							
IEC60034-1							
< 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'S STANDARD. 3. THE TEMPERATURE MEASURED AT BEARING HOUSING DOES NOT EXCEED 105							
			0	2019-05-10	S.U.LEE	J.H.CHA	T.H.KIM
			REV. NO	DATE	PREPARED	CHECKED	APPROVED