

		<h1 style="text-align: center;">INDUCTION MOTOR DATA SHEET</h1>		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		38.9 A	
AMBIENT TEMP.		40 °C		LOCKED-ROTOR CURRENT		600 %	
EXPLOSION PROOF TYPE		N/A		EFFICIENCY			
MOUNTING		B3		AT 1/2 LOAD		87.3 %	
BEARING TYPE		ANTI-FRICTION		AT 3/4 LOAD		89.3 %	
NDE/DE BRG. No.		6310ZZ / 6312ZZ		AT FULL LOAD		90.3 %	
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 <sup>2</sup>		0.797 kg-m <sup>2</sup>	
NUMBER OF CONSECUTIVE STARTS		COLD : 2 / HOT : 1 (4P)		MAX LOAD GD <sup>2</sup> AT MOTOR SHAFT		60.4 kg-m <sup>2</sup>	
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		<div>&lt;REMARKS&gt;</div> <div>1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE.</div> <div>2. HIGH EFFICIENCY TYPE MOTOR</div>			
RATING		N/A					
APPLICATION STANDARDS							
IEC60034-1							
<div>&lt; NOTE &gt; 1. THESE DATA ARE ONLY DESIGN VALUES AND SHALL BE GUARANTEED WITH TOLERANCE OF APPLICATION STANDARD.</div> <div>2. EXCEPT FOR STATEMENTS SPECIFIED ON THIS SHEET, ANYTHING ELSE SHALL BE IN ACCORDANCE WITH MAKER'S STANDARD.</div> <div>3. THE TEMPERATURE MEASURED AT BEARING HOUSING DOES NOT EXCEED 105</div>							
				0		2019-05-10	
				REV. NO		DATE	
		S.U.LEE		J.H.CHA		T.H.KIM	
		PREPARED		CHECKED		APPROVED	