

		<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_13000_003			
				L-SPEC No. E00000497F003			
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.	180L		OUTPUT	22 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)	1475 r/min			
RATING	S1		PRIMARY				
LOCATION	INDOOR		VOLTAGE	380 V			
ALTITUDE	LESS THAN 1000 m		NO LOAD CURRENT	18.0 A			
HUMIDITY	LESS THAN 80 %		FULL LOAD CURRENT	44.0 A			
AMBIENT TEMP.	40 °C		LOCKED-ROTOR CURRENT	600 %			
EXPLOSION PROOF TYPE	N/A		EFFICIENCY				
MOUNTING	B3		AT 1/2 LOAD	87.4 %			
BEARING TYPE	ANTI-FRICTION		AT 3/4 LOAD	89.4 %			
NDE/DE BRG. No.	6310ZZ / 6312ZZ		AT FULL LOAD	90.4 %			
BRG. LUBRICATION	N/A		POWER FACTOR				
PROTECTION GRADE	IP55		AT 1/2 LOAD	69.0 %			
SERVICE FACTOR	1.0		AT 3/4 LOAD	79.0 %			
DRIVE	DIRECT COUPLED		AT FULL LOAD	84.0 %			
SHAFT			TORQUE				
EXTENSION	SINGLE		FULL LOAD	14.53 kg-m			
EXTERNAL THRUST	N/A			142.5 N-m			
NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR)			LOCKED ROTOR	150 %			
NO-LOAD	STANDARD		BREAKDOWN	200 %			
VIBRATION	2.2 mm/s (r.m.s)		MOTOR GD <sup>2</sup>	1.182 kg-m <sup>2</sup>			
NUMBER OF CONSECUTIVE STARTS	COLD : 2 / HOT : 1 (4P)		MAX LOAD GD <sup>2</sup> AT MOTOR SHAFT	39.3 kg-m <sup>2</sup>			
ROTATION(VIEWED FROM DE)	C.C.W		MOTOR APPROX. WEIGHT	238 kg			
			PAINTING	0.5PB 3.2/4.4 (ENAMEL)			
ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS				
TEMPERATURE DETECTOR			OUTLINE DIMENSION	ES1AS33111			
WINDING	NO		CONDUIT BOX & COVER	ES1B100106			
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	S.U.LEE	J.H.CHA	T.H.KIM
			REV. NO	DATE	PREPARED	CHECKED	APPROVED