

	<h1 style="text-align: center;">INDUCTION MOTOR</h1> <h2 style="text-align: center;">DATA SHEET</h2>		PROJECT No.	P42-4160-201904-1164			
			HS No.	201904-6427_1000_004			
			L-SPEC No.	E00003101F003			
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.	90S		OUTPUT	0.75 kW			
TYPE	TEFC		POLES	6 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)	955 r/min			
RATING	S1		PRIMARY				
LOCATION	INDOOR		VOLTAGE	220 / 380 V			
ALTITUDE	LESS THAN	1000 m	NO LOAD CURRENT	3.1 / 1.8 A			
HUMIDITY	LESS THAN	80 %	FULL LOAD CURRENT	4.6 / 2.7 A			
AMBIENT TEMP.	40	℃	LOCKED-ROTOR CURRENT	460 %			
EXPLOSION PROOF TYPE	N/A		EFFICIENCY				
MOUNTING	B3		AT 1/2 LOAD	68.0 %			
BEARING TYPE	ANTI-FRICTION		AT 3/4 LOAD	70.0 %			
NDE/DE BRG. No.	6204ZZ	/ 6205ZZ	AT FULL LOAD	71.0 %			
BRG. LUBRICATION	N/A		POWER FACTOR				
PROTECTION GRADE	IP55		AT 1/2 LOAD	44.5 %			
SERVICE FACTOR	1.0		AT 3/4 LOAD	54.5 %			
DRIVE	DIRECT COUPLED		AT FULL LOAD	59.5 %			
SHAFT			TORQUE				
EXTENSION	SINGLE		FULL LOAD	0.76 kg-m			
EXTERNAL THRUST	N/A			7.5 N-m			
NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR)			LOCKED ROTOR	170 %			
NO-LOAD	STANDARD		BREAKDOWN	220 %			
VIBRATION	1.6 mm/s (r.m.s)		MOTOR GD <sup>2</sup>	0.028 kg-m <sup>2</sup>			
NUMBER OF CONSECUTIVE STARTS	COLD : 2 / HOT : 1 (6P)		MAX LOAD GD <sup>2</sup> AT MOTOR SHAFT	4.5 kg-m <sup>2</sup>			
ROTATION(VIEWED FROM DE)	C.C.W		MOTOR APPROX. WEIGHT	30 kg			
			PAINTING	0.5PB 3.2/4.4 (ENAMEL)			
ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS				
TEMPERATURE DETECTOR			OUTLINE DIMENSION	ES1A122955			
WINDING	NO		CONDUIT BOX & COVER	ES1B100101			
TYPE	N/A		SPEED-TORQUE & CURRENT CURVE	1STP42-4160-201904-1164			
BEARING	NO		THERMAL LIMIT & TIME-CURRENT	1TLP42-4160-201904-1164			
TYPE	N/A		LOAD vs POWER & EFFICIENCY	1PEP42-4160-201904-1164			
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	2019-05-13	S.U.LEE	J.H.CHA	
			REV. NO	DATE	PREPARED	CHECKED	APPROVED