HYOSUNG HEAVY INDUSTRIES

INDUCTION MOTOR DATA SHEET

PROJECT No.	P42-4160-201904-1162
HS No.	201904-6424_3000_003
L-SPEC No.	E00003082F003

SHEET 1 OF 1	CUSTOMER :	
FOR PROPOSAL	JOB No. : N/A	ITEM No. :
SERVICE : N/A	SITE :	QUANTITY 1 SET

GENERAL DATA

FRAME No.	90S
TYPE	TEFC
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 ℃
EXPLOSION PROOF TYPE	N/A
MOUNTING	B3
BEARING TYPE	ANTI-FRICTION
NDE/DE BRG. No.	6204ZZ / 6205ZZ
BRG. LUBRICATION	N/A
PROTECTION GRADE	IP55
SERVICE FACTOR	1.0
DRIVE	DIRECT COUPLED
SHAFT	
EXTENSION	SINGLE
EXTERNAL THRUST	N/A
NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR)	
NO-LOAD	STANDARD
VIBRATION	1.6 mm/s (r.m.s)
NUMBER OF CONSECUTIVE STARTS	COLD : 2 / HOT : 1 (2P)
ROTATION(VIEWED FROM DE)	C.C.W

PERFORMANCE DATA

OUTPUT	1.5 kW
POLES	2 P
ROTOR TYPE	SQUIRREL CAGE
STARTING METHOD	DIRECT ON LINE
PHASE	3 PHASE
FREQUENCY	50 Hz
SPEED (AT FULL LOAD)	2900 r/min
PRIMARY	
VOLTAGE	220 / 380 V
NO LOAD CURRENT	2.1 / 1.2 A
FULL LOAD CURRENT	5.7 / 3.3 A
LOCKED-ROTOR CURRENT	870 %
EFFICIENCY	
AT 1/2 LOAD	78.3 %
AT 3/4 LOAD	80.3 %
AT FULL LOAD	81.3 %
POWER FACTOR	
AT 1/2 LOAD	69.5 %
AT 3/4 LOAD	79.5 %
AT FULL LOAD	84.5 %
TORQUE	
FULL LOAD	0.5 kg-m
	4.9 N-m
LOCKED ROTOR	300 %
BREAKDOWN	350 %
MOTOR GD^2	0.012 kg-m^2
MAX LOAD GD^2 AT MOTOR SHAFT	0.7 kg-m^2
MOTOR APPROX. WEIGHT	30 kg
PAINTING	0.5PB 3.2/4.4 (ENAMEL)

ACCESSORIES (OPTIONAL)

TEMPERATURE DETECTOR	
WINDING	NO
TYPE	N/A
BEARING	NO
TYPE	N/A
SPACE HEATER	NO
RATING	N/A

APPLICATION STANDARDS
IEC60034-1

SUBMITTAL DRAWINGS

OUTLINE DIMENSION	ES1A122955
CONDUIT BOX & COVER	ES1B100101
SPEED-TORQUE & CURRENT CURVE	1STP42-4160-201904-1162
THERMAL LIMIT & TIME-CURRENT	1TLP42-4160-201904-1162
LOAD vs POWER & EFFICIENCY	1PEP42-4160-201904-1162

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

< 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

REV. NO	DATE	PREPARED	CHECKED	APPROVED
0	2019-05-09	S.U.LEE	J.H.CHA	T.H.KIM

A4(210X297)