HYOSUNG HEAVY INDUSTRIES

INDUCTION MOTOR DATA SHEET

PROJECT No.	P42-4160-201904-1164
HS No.	201904-6427_2000_004
L-SPEC No.	E00003102F003

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

GENERAL DATA

FRAME No.	90L
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 (6P)
ROTATION(VIEWED FROM DE)	C.C.W

PERFORMANCE DATA

OUTPUT	1.1	kW
POLES	6	P
ROTOR TYPE	SQUIRREL CAGE	
STARTING METHOD	DIRECT ON LINE	
PHASE	3	PHASE
FREQUENCY	50	Hz
SPEED (AT FULL LOAD)	940	r/min
PRIMARY		
VOLTAGE	220 / 380	V
NO LOAD CURRENT	3.8 / 2.2	A
FULL LOAD CURRENT	5.3 / 3.1	A
LOCKED-ROTOR CURRENT	480	%
EFFICIENCY		
AT 1/2 LOAD	75.1	%
AT 3/4 LOAD	77.1	%
AT FULL LOAD	78.1	%
POWER FACTOR		
AT 1/2 LOAD	55.0	%
AT 3/4 LOAD	65.0	%
AT FULL LOAD	70.0	%
TORQUE		
FULL LOAD	1.14	kg-m
	11.2	N-m
LOCKED ROTOR	160	%
BREAKDOWN	210	%
MOTOR GD^2	0.028	$kg\text{-}m^2$
MAX LOAD GD^2 AT MOTOR SHAFT	6.9	$kg\text{-}m^2$
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	ES1AS33102
CONDUIT BOX & COVER	ES1B100101
SPEED-TORQUE & CURRENT CURVE	1STP42-4160-201904-1164
THERMAL LIMIT & TIME-CURRENT	1TLP42-4160-201904-1164
LOAD vs POWER & EFFICIENCY	1PEP42-4160-201904-1164

<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	2019-05-13	S.U.LEE	J.H.CHA	T.H.KIM

A4(210X297)