HYOSUNG HEAVY INDUSTRIES

INDUCTION MOTOR DATA SHEET

PROJECT No.	P42-4160-201904-1162
HS No.	201904-6424_12000_003
L-SPEC No.	E00003089F007

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

GENERAL DATA

FRAME No.	160L
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	B5
BEARING TYPE	ANTI-FRICTION
NDE/DE BRG. No.	6309ZZ / 6309ZZ
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	2.2 mm/s (r.m.s)
NUMBER OF CONSECUTIVE STARTS	COLD : 2 / HOT : 1 (2P)
ROTATION(VIEWED FROM DE)	C.C.W

PERFORMANCE DATA

OUTPUT	18.5	kW
POLES	2	P
ROTOR TYPE	SQUIRREL CAGE	
STARTING METHOD	DIRECT ON LINE	
PHASE	3	PHASE
FREQUENCY	50	Hz
SPEED (AT FULL LOAD)	2945	r/min
PRIMARY		
VOLTAGE	380	V
NO LOAD CURRENT	16.5	A
FULL LOAD CURRENT	38.0	A
LOCKED-ROTOR CURRENT	690	%
EFFICIENCY		
AT 1/2 LOAD	89.4	%
AT 3/4 LOAD	91.4	%
AT FULL LOAD	92.4	%
POWER FACTOR		
AT 1/2 LOAD	65.0	%
AT 3/4 LOAD	75.0	%
AT FULL LOAD	80.0	%
TORQUE		
FULL LOAD	6.12	kg-m
	60	N-m
LOCKED ROTOR	220	%
BREAKDOWN	270	%
MOTOR GD^2	0.24	$kg\text{-}m^2$
MAX LOAD GD^2 AT MOTOR SHAFT	10.2	$kg\text{-}m^2$
MOTOR APPROX. WEIGHT	161	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	ES1AS33109
CONDUIT BOX & COVER	ES1B100103
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)