HIGEN — INDUCTION MOTOR DATA SHEET — 160 kW 4 P 315S

MODEL:	CUSTOMER :	COIL SPEC NO.:	REV. NO : 0
APPLICATION:	PROJECT NAME:	QUANTITY :	SETS

GENERAL DATA

FRAME NO.		315S
ENCLOSURE	☐	DRIP PROOF
	☑	TOTALLY ENCLOSED
	☐	Increased Safety Exp.-proof
PROTECTION		IP 55
METHODS OF COOLING	☐ SC ☑ FC ☐	
PHASE		3 PHASE
SERVICE FACTOR		1.15
INSULATION CLASS		F CLASS
TEMP. RISE AT FULL LOAD (at S.F 1.0)		
RES. METHOD		105 deg
THERMO. METHOD		℃
LOCATION	☑ INDOOR ☐ OUTDOOR	
ALTITUDE		1000 m
HUMIDITY		80 %
AMBIENT TEMPERATURE		-10~40 ℃
RATING	☑ CONT. ☐ %ED	
NEMA DESIGN		B
MOUNTING	☑ B3 ☐ B5 ☐ V1 ☐ B3B5	
BEARING TYPE		BALL / BALL
BEARING DE\N-DE		6320C3 / 6318C3
BEARING LUBRICANT		GREASE
COUPLING METHOD	☑ DIRECT ☐ V-BELT	
ROTATION(Facing Drive End)	☐ CW ☑ CCW	
SHAFT		
EXTENSION		SINGLE
EXTERNAL THRUST		-
TERMINAL BOX		
MAIN	☐ STEEL ☐ AL ☑ CAST	
AUX.	☐ YES ☑ NO	
BOX LOCATION		TOP (Viewed from Drive end)
APPLICATION STANDARDS		KS.IEC

PERFORMANCE DATA

OUTPUT	160	kW	
POLES	4	POLES	
ROTOR TYPE	SQUIRREL CAGE		
STARTING METHOD	☐ D.O.L ☑ Y-△		
	☐ REACTOR (%TAP) ☐ V.V.V.F		
	☐ VECTOR-DRIVE		
RATED VOLTAGE	440	V	V
FREQUENCY	60	Hz	
CURRENT			
NO LOAD		A	A
FULL LOAD	251.1	A	A
STARTING	1506.8	A	A
EFFICIENCY			
AT 1/2 LOAD		%	
AT 3/4 LOAD		%	
AT FULL LOAD	95.0	%	
POWER FACTOR			
AT 1/2 LOAD		%	
AT 3/4 LOAD		%	
AT FULL LOAD	88.0	%	
SPEED (AT FULL LOAD)	1765	rpm	
TORQUE			
FULL LOAD	88.3	kg-m	100%
LOCKED ROTOR	79.4	kg-m	90%
BREAKDOWN	150.1	kg-m	170%
NOISE LEVEL	92.0	dB(A)	
VIBRATION	30.0	㎛	
ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT			
(AT DIRECT ON-LINE)	-	kg-m²	
Motor GD²	-	kg-m²	
MOTOR APPROX. WEIGHT	1,100	kg	
PAINTING MUNSELL NO.	5PB 8.0/2.5		
THICKNESS	☑ STANDARD ☐	㎛	

ACCESSORIES (OPTIONAL)

TEMPERATURE DETECTOR	
WINDING	NO
TYPE	-
BEARING	NO
TYPE	-
SPACE HEATER	NO
RATING	-

SUBMITTAL DRAWINGS

OUTLINE DIMENSION	DW-KMH-215HV1
SPEED-TORQUE CURVE	ST-KMH-215HV1
TERMINAL BOX DIMENSION	TB-315SM-1

NOTE

1. THESE DATA ARE ONLY DESIGN VALUES AND SHALL BE GUARANTEED WITH TOLERANCE OF APPLICATION STANDARDS.
2. OTHERS NOT MENTIONED IN THIS SHEET SHALL BE IN ACCORDANCE WITH HIGEN MOTOR STANDARD.

REMARKS

1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE.
2. HIGH EFFICIENCY MOTOR.

TE : TOTALLY ENCLOSED DP : DRIP PROOF
FC : FAN COOLED SC : SELF COOLED

DATE	PREPARED	CHECKED	APPROVED
2015-06-23	J.H.KIM	S.S.YUN	T.I.PARK