HIGEN — INDUCTION MOTOR DATA SHEET — 18.5 kW 4 P 180M

MODEL: KMP-25HU1	CUSTOMER :	COIL SPEC NO.:	REV. NO : 0
APPLICATION:	PROJECT NAME:	QUANTITY :	SETS

GENERAL DATA

FRAME NO.		180M
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		80 deg
THERMO. METHOD		deg
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
	DE\N-DE	6311ZZC3 / 6309ZZC3
	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	LEFT (Viewed from Drive end)	
APPLICATION STANDARDS		KS.IEC

PERFORMANCE DATA

OUTPUT		18.5 kW	
POLES		4 POLES	
ROTOR TYPE		SQUIRREL CAGE	
STARTING METHOD	☐ D.O.L ☑ Y-△		
	☐ REACTOR (%TAP) ☐ V.V.V.F		
	☐ VECTOR DRIVE		
RATED VOLTAGE		380 V	V
FREQUENCY		60 Hz	
CURRENT			
NO LOAD		A	A
FULL LOAD		36.6 A	A
STARTING		256.4 A	A
EFFICIENCY			
AT 1/2 LOAD		%	
AT 3/4 LOAD		%	
AT FULL LOAD		93.6 %	
POWER FACTOR			
AT 1/2 LOAD		%	
AT 3/4 LOAD		%	
AT FULL LOAD		82.0 %	
SPEED (AT FULL LOAD)		1770 rpm	
TORQUE			
FULL LOAD		10.2 kg-m	100%
LOCKED ROTOR		14.2 kg-m	140%
BREAKDOWN		19.3 kg-m	190%
NOISE LEVEL		82.0 dB(A)	
VIBRATION		30.0 μm	
ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT			
(AT DIRECT ON-LINE)		65.0 $kg\text{-}m^2$	
Motor GD²		0.6545 $kg\text{-}m^2$	
MOTOR APPROX. WEIGHT		180 kg	
PAINTING	MUNSELL NO.	5PB 2.5/8.0	
	THICKNESS	☑ STANDARD ☐	μm

ACCESSORIES (OPTIONAL)

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

SUBMITTAL DRAWINGS

OUTLINE DIMENSION	DW-180MTFCHLS-1
SPEED-TORQUE CURVE	ST-P18.5KU1T180M-1
TERMINAL BOX DIMENSION	TB-MS180NZ-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. PREMIUM EFFICIENCY MOTOR.

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

DATE	PREPARED	CHECKED	APPROVED
2016-04-08	H.S.LEE	K.I.HA	K.I.HA