

		INDUCTION MOTOR DATA SHEET		20 HP - 6 P		
MODEL: V20HS8CTB4-PA040		CUSTOMER :		REV. NO :		
APPLICATION:		PROJECT NAME:		QUANTITY : SETS		
GENERAL DATA			PERFORMANCE DATA			
FRAME NO.		180L		OUTPUT 15 kW 20 HP		
ENCLOSURE	☐ DRIP PROOF		POLES 6 POLES			
	☒ TOTALLY ENCLOSED		ROTOR TYPE SQUIRREL CAGE			
	☐ Increased Safety Exp.-proof		☐ D.O.L ☐ Y-△ ☐ V.V.V.F ☐ REATOR (%TAP) ☒ VECTOR DRIVE			
PROTECTION		IP 54		STARTING METHOD		
METHODS OF COOLING		☐ SC ☒ FC ☐		RATED VOLTAGE 360V		
PHASE		3 PHASE		FREQUENCY 60 Hz 120 Hz		
SERVICE FACTOR		1.0		CURRENT		
INSULATION CLASS		F CLASS		NO LOAD 12.0 A 6.0 A		
TEMP. RISE AT FULL LOAD (at S.F 1.0)				FULL LOAD 31.5 A 30.0 A		
RES. METHOD		105 °C		STARTING - -		
THERMO. METHOD		°C				
LOCATION		☒ INDOOR ☐ OUTDOOR		EFFICIENCY		
ALTITUDE		1000 m		AT 1/2 LOAD % %		
HUMIDITY		90 %		AT 3/4 LOAD % %		
AMBIENT TEMPERATURE		-10~40 °C		AT FULL LOAD 91.0 % 91.5 %		
RATING		☐ CONT. ☒ 60%ED		POWER FACTOR		
NEMA DESIGN		B		AT 1/2 LOAD % %		
MOUNTING		☒ B3 ☐ B5 ☐ V1 ☐ B3B5		AT 3/4 LOAD % %		
BEARING	TYPE		BALL		AT FULL LOAD 84.0 % 87.5 %	
	DEIN-DE		6312ZZ/6212ZZ		SPEED (AT FULL LOAD) 1176 rpm 2348 rpm	
	LUBRICANT		GREASE		TORQUE	
COUPLING METHOD		☒ DIRECT ☐ V-BELT		FULL LOAD 12.4 kg-m 100% 6.2 kg-m 100%		
ROTATION(Facing Drive End)		☒ CW ☒ CCW		LOCKED ROTOR - -		
SHAFT				BREAKDOWN 31.0 kg-m 250% 8.7 kg-m 140%		
EXTENSION		SINGLE		NOISE LEVEL 74.0 dB(A)		
EXTERNAL THRUST				VIBRATION 25.0 μm		
TERMINAL BOX				ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT		
MAIN		☐ STEEL ☐ AL ☒ CAST		(AT DIRECT ON-LINE) 169.0 kg-m²		
AUX.		☒ YES ☐ NO		Motor GD² 1.0462 kg-m²		
BOX LOCATION		LEFT (Viewed from Drive end)		MOTOR APPROX. WEIGHT 300.0 kg		
APPLICATION STANDARDS		IEC.KS		PAINTING MUNSELL NO. N6		
				THICKNESS ☐ STANDARD ☒ 40 μm		
ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS			
BRAKE		DC "B" TYPE		OUTLINE DIMENSION		
SPEC		AC 220V, DC 90V, 30kgf.m		Speed Vs Torquet Curve		
BRAKE SENSOR : 고주파발진형 근접센서(PNP직류3선식)						
ENCODER		SPEC PUSH PULL DC 10~30V 1024P/R				
		Φ15 HOLLOW SHAFT				
THERMOSTAT(THERMAL PROTECTOR)						
SPEC		OPEN 145°C ±5°C				
		CLOSE 90°C ±15°C				
NOTE			REMARKS			
1. THESE DATA ARE ONLY DESIGN VALUES AND SHALL BE GUARANTEED WITH TOLERANCE OF APPLICATION STANDARDS.			1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE.			
2. OTHERS NOT MENTIONED IN THIS SHEET SHALL BE IN ACCORDANCE WITH OTIS STANDARD.						
TE : TOTALLY ENCLOSED		DP : DRIP PROOF		DATE	PREPARED	
FC : FAN COOLED		SC : SELF COOLED		2006-03-21	B.K.KIM	
				CHECKED	APPROVED	
				J.S.PARK	H.T.KIM	