Motor Data sheets

1. Name of motor	-	4P-250KW-3kV (CVY-505/506)
2. Manufacturer	-	TECO
3. Country of origin	-	CHINA
4. Type/machine code	-	Squirrel cage Motor
5. Applied standard (characteristics)	-	IEC
6. Ratings		
(1) Rated output	kW	250
(2) Service factor	--	1.00
(3) Number of pole		4
(4) Rated speed	min^{-1}	1484
(5) Rated voltage	V	3000
(6) Number of phases		3
(7) Rated frequency	Hz	50
(8) Insulation class	-	F
(9) Temperature rise	-	B
(10) Rated duty		S1
7. Service Conditions	-	
(1) Starting method	-	DIRECT ON LINE
(2) Direction of rotation (viewed from DE)	-	Bi-direction
(3) Reverse rotation (Yes / No)	-	No
(4) Location (Indoor / Outdoor)		OUTDOOR
(5) Enclosure IP rating	-	
(a) Motor frame	-	55
(b) Terminal boxes	-	56/55w
(6) Installation (Horizontal / Vertical)		Horizontal
(7) Design ambient temperature	°C	40
(8) Explosion proof (Required / Not required)	-	Not required
(9) Noise level (at NO-load condition)	dB (A)	<=85
8. Characteristics		
(1) Current		
(a) Normal current	A	60.3
(b) No-load current	A	16.9
(c) Starting current	A	5.5X60.3

(2) Torque		
(a) Starting torque	%	85
(b) Maximum torque	%	220
(3) Slip at rated output	%	1.06
(4) Efficiencies		
(a) At 100% load	%	95
(b) At 75% load	%	94.3
(c) At 50% load	%	94.1
(d) At 25% load	%	92.5
(5) Power factor		
(a) At rated load	%	84
(b) At starting load	%	25
(6) GD2 coupled with driven equipment	kg-m^2	27.2
(7) Starting time with driven equipment	s	1.2
(8) Allowable number of starts		
(a) From cold condition per hour	-	2
(b) From hot condition per hour	-	1
(c) Minimum time between 2 starts (running state)	min	30
(d) Minimum time between 2 starts (stop state)	min	20
(9) Allowable locked-rotor time		
(a) At cold condition	s	23.3
(b) At hot condition	s	17.9
9. Constructions		
(1) Stator winding connection (Wye / Delta)		Y（OPEN）
(2) Type of bearing (DE / NDE)	-	Ball bearing
(3) Lubricants	-	
(a) Recommended lubricant and brand name		MUL TEMP SRL
(b) Pouring method	-	Using oil filling equipment
(c) Quantity of lubricant for initial filling	-	DRIVE END 120g
	-	OPP DRIVE END 100g
(d) Recommended interval for recharging	-	1000hrs
(e) Recharging quantity	-	DRIVE END 120g
	-	OPP DRIVE END 100g
(f) Location of pouring		Oil injection hole
(indicated in the outline drawing)		
(4) Bearing cooling water requirement (if required)		/
(a) Quantity	m^3/h	/
(b) Inlet water temperature	°C	/
(c) Required cooling water pressure	kPa	/

(d) Type of cooling water	-	/
(5) Water to air heat exchanger (if applied)		/
(a) Quantity of cooling water	m^3/h	/
(b) Inlet water temperature	°C	/
(c) Required cooling water pressure	kPa	/
(d) Type of cooling water	-	/
(6) space heater (AC 220V 1 phase)	W	200
(7) Weight	kg	2260
10. Attached document numbers		
(1) Motor outline drawing	-	3W041T846/3W041T845
(2) Terminal box drawings	-	
(a) For main power	-	3W041T841
(b) For instruments	-	3A040U464/3A040D509
(c) For space heater	-	3A040U250
(3) Current transformers (for MV motors only)		/
(a) Characteristics curves	-	/
(b) Outline drawing	-	/
(4) Efficiency curves	-	AC189539B1 EPCS
(5) Thermal capability curves		
(a) At cold condition	-	AC189539B1 TIME
(b) At hot condition	-	AC189539B1 TIME
(6) Starting and speed torque characteristics at 80%, 90% and 100% voltage	-	AC189539B1 TIN