10 WASTEWATER TRANSFER PUMP MOTOR DATA SHEET

1. Name of motor	-	Wastewater transfer pump motor
2. Manufacturer	-	SIEMENS
3. Country of origin	-	CHINA
4. Type/machine code	-	1LE0001-3AB0 3-3GA4-Z315S
5. Applied standard (characteristics)	-	IEC
6. Ratings		
(1) Rated output	kW	110
(2) Service factor	-	1
(3) Number of pole	-	4
(4) Rated speed	min^{-1}	1488
(5) Rated voltage	V	380
(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	-	Directly
(2) Direction of rotation (viewed from DE)	-	CW
(3) Reverse rotation (Yes / No)	-	No
(4) Location (Indoor / Outdoor)		Outdoor
(5) Enclosure IP rating	-	IP55
(a) Motor frame	-	IP55
(b) Terminal boxes	-	IP55
(6) Installation (Horizontal / Vertical)		Vertical
(7) Design ambient temperature	°C	-20~+ 40
(8) Explosion proof (Required / Not required)		Not required
(9) Noise level (at full-load condition)	dB (A)	69dB(A)

8. Characteristics		
(1) Current		
(a) Normal current	A	205
(b) No-load current	A	261
(c) Starting current	A	1537
(2) Torque		
(a) Starting torque	%	2.5
(b) Maximum torque	%	3.2
(3) Slip at rated output		
(4) Efficiencies		
(a) At 100% load	%	95.2
(b) At 75% load	%	95.4
(c) At 50% load	%	94.7
(d) At 25% load	%	92.3
(5) Power factor		
(a) At rated load	%	
(b) At starting load	%	
(6) GD2 coupled with driven equipment	kg-m²	0.072
(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	0.1
(d) Minimum time between 2 starts (stop state)	min	0.1
(9) Allowable locked-rotor time		
(a) At cold condition	s	5
(b) At hot condition	s	5

9. Constructions		
(1) Stator winding connection (Wye / Delta)	-	Wye
(2) Type of bearing (DE / NDE)	-	6319 C3/7319 AC
(3) Lubricants		Unirex N3
(a) Recommended lubricant and brand name	-	
(b) Pouring method	-	
(c) Quantity of lubricant for initial filling	-	40g
(d) Recommended interval for recharging	-	
(e) Recharging quantity	-	
(f) Location of pouring	-	
(indicated in the outline drawing)		
(4) Bearing cooling water requirement (if required)		NA
(a) Quantity	m^3/h	NA
(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	NA
(b) Inlet water temperature	°C	NA
(c) Required cooling water pressure	kPa	NA
(d) Type of cooling water	-	NA
(6) Space heater (AC 220V 1 phase)	W	60
(7) Weight	kg	800
10. Attached document numbers		
(1) Motor outline drawing	-	NA
(2) Terminal box drawings	-	NA
(a) For main power	-	NA
(b) For instruments	-	NA
(c) For space heater	-	NA

(3) Current transformers (for MV motors only)		NA
(a) Characteristics curves	-	NA
(b) Outline drawing	-	NA
(4) Efficiency curves	-	NA
(5) Thermal capability curves		NA
(a) At cold condition	-	NA
(b) At hot condition	-	NA
(6) Starting and speed torque characteristics at 80%, 90% and 100% voltage	-	NA

Technical date for separately fan	
Voltage （V）	380
Frequency （HZ）	50H
Rated output （W）	370
Current （A）	1.1
Speed （r/min）	1250
The length of the motor increase by △L（mm）	90