## 8、Motor Data sheets- Chemical Waste Water Pump

Name of motor	-	Motor Of Chemical Waste Water Pump
Manufacturer	-	SIEMENS
Country of origin	-	China
Type/machine code	-	1LE0001-1CA03-3GA4-Z
Applied standard (characteristics)	-	IEC
Ratings		
(1) Rated output	k\/\/	5.5
(2) Service factor	-	1.0
(3) Number of pole	_	2P
(4) Rated speed	rnm	2930
(5) Rated voltage		380
(6) Number of phases		3
(7) Rated frequency	Hz	50
(8) Insulation class	-	F
(9) Temperature rise	-	В
(10) Rated duty		S1
Service Conditions		
		DOL
	-	C.W.
	-	NO
	-	Indoor
		Indoor
	_	IP55
(b) Terminal boxes	_	IP55
(6) Installation (Horizontal / Vertical)	°C	Horizontal
(7) Design ambient temperature	_	40
(8) Explosion proof (Required / Not required)		No
(9) Noise level (at full-load condition)	dB (A)	66
Characteristics		
(1) Current		
(a) Normal current	Д	11
(b) No-load current		-
	Manufacturer  Country of origin  Type/machine code  Applied standard (characteristics)  Ratings (1) Rated output (2) Service factor (3) Number of pole (4) Rated speed (5) Rated voltage (6) Number of phases (7) Rated frequency (8) Insulation class (9) Temperature rise (10) Rated duty  Service Conditions (1) Starting method (2) Direction of rotation (viewed from DE) (3) Reverse rotation (Yes / No) (4) Location (Indoor / Outdoor) (5) Enclosure IP rating (a) Motor frame (b) Terminal boxes (6) Installation (Horizontal / Vertical) (7) Design ambient temperature (8) Explosion proof (Required / Not required) (9) Noise level (at full-load condition)  Characteristics (1) Current (a) Normal current	Manufacturer  Country of origin  Type/machine code  Applied standard (characteristics)  Ratings (1) Rated output (2) Service factor (3) Number of pole (4) Rated speed (5) Rated voltage (6) Number of phases (7) Rated frequency (8) Insulation class (9) Temperature rise (10) Rated duty  Service Conditions (1) Starting method (2) Direction of rotation (viewed from DE) (3) Reverse rotation (Yes / No) (4) Location (Indoor / Outdoor) (5) Enclosure IP rating (a) Motor frame (b) Terminal boxes (6) Installation (Horizontal / Vertical) (7) Design ambient temperature (8) Explosion proof (Required / Not required) (9) Noise level (at full-load condition)  Characteristics (1) Current (a) Normal current  A

(c) Starting current (2) Torque (a) Starting torque (b) Maximum torque (3) Slip at rated output (4) Efficiencies (a) At 100% load (b) At 75% load (c) At 50% load (d) At 25% load (5) Power factor (a) At rated load (b) At starting load (b) At starting load (c) Starting time with driven equipment (d) GD2 coupled with driven equipment (d) GD2 coupled with driven equipment (e) From hot condition per hour (c) Minimum time between 2 starts (running state) (d) At load condition (d) Minimum time between 2 starts (stop state) (g) At cold condition (d) Minimum time between 2 starts (stop state) (g) At cold condition (d) Minimum time between 2 starts (stop state) (g) At cold condition (d) Minimum time between 2 starts (stop state) (g) At cold condition			
(a) Starting torque (b) Maximum torque (3) Slip at rated output  (4) Efficiencies (a) At 100% load (b) At 75% load (c) At 50% load (d) At 25% load (5) Power factor (a) At rated load (b) At starting load (6) GD2 coupled with driven equipment (7) Starting time with driven equipment (8) Allowable number of starts (a) From cold condition per hour (b) From hot condition per hour (c) Minimum time between 2 starts (running state) (d) Minimum time between 2 starts (stop state) (9) Allowable locked-rotor time  39.38 51.91 51.		Α	82.5
(b) Maximum torque (3) Slip at rated output  (4) Efficiencies (a) At 100% load (b) At 75% load (c) At 50% load (d) At 25% load (5) Power factor (a) At rated load (b) At starting load (6) GD2 coupled with driven equipment (7) Starting time with driven equipment (8) Allowable number of starts (a) From cold condition per hour (b) From hot condition per hour (c) Minimum time between 2 starts (running state) (d) Minimum time between 2 starts (stop state) (9) Allowable locked-rotor time  51.91  8  87  87  87  87  87  87  87  87  87			17.9
(3) Slip at rated output  (4) Efficiencies (a) At 100% load (b) At 75% load (c) At 50% load (d) At 25% load (5) Power factor (a) At rated load (b) At starting load (6) GD2 coupled with driven equipment (7) Starting time with driven equipment (8) Allowable number of starts (a) From cold condition per hour (b) From hot condition per hour (c) Minimum time between 2 starts (stop state) (g) Allowable locked-rotor time   8 87  - 87  - 87  - 87  - 87  - 97  -	(a) Starting torque		39.38
(4) Efficiencies (a) At 100% load (b) At 75% load (c) At 50% load (d) At 25% load (5) Power factor (a) At rated load (b) At starting load (6) GD2 coupled with driven equipment (7) Starting time with driven equipment (8) Allowable number of starts (a) From cold condition per hour (b) From hot condition per hour (c) Minimum time between 2 starts (running state) (d) Mlowable locked-rotor time  887	(b) Maximum torque		51.91
(a) At 100% load (b) At 75% load (c) At 50% load (d) At 25% load (5) Power factor (a) At rated load (b) At starting load (6) GD2 coupled with driven equipment (7) Starting time with driven equipment (8) Allowable number of starts (a) From cold condition per hour (b) From hot condition per hour (c) Minimum time between 2 starts (running state) (d) Mlinimum time between 2 starts (stop state) (9) Allowable locked-rotor time	(3) Slip at rated output	%	-
(b) At 75% load (c) At 50% load (d) At 25% load (5) Power factor (a) At rated load (b) At starting load (6) GD2 coupled with driven equipment (7) Starting time with driven equipment (8) Allowable number of starts (a) From cold condition per hour (b) From hot condition per hour (c) Minimum time between 2 starts (running state) (d) Mlinimum time between 2 starts (stop state) (9) Allowable locked-rotor time	(4) Efficiencies		
(c) At 50% load (d) At 25% load (5) Power factor (a) At rated load (b) At starting load (6) GD2 coupled with driven equipment (7) Starting time with driven equipment (8) Allowable number of starts (a) From cold condition per hour (b) From hot condition per hour (c) Minimum time between 2 starts (running state) (d) Minimum time between 2 starts (stop state) (9) Allowable locked-rotor time	(a) At 100% load	%	87
(d) At 25% load (5) Power factor (a) At rated load (b) At starting load (6) GD2 coupled with driven equipment (7) Starting time with driven equipment (8) Allowable number of starts (a) From cold condition per hour (b) From hot condition per hour (c) Minimum time between 2 starts (running state) (d) Minimum time between 2 starts (stop state) (9) Allowable locked-rotor time   **B7**  **Rem**  **Rem**  **Rem**  **Rem**  **Rem**  **Rem**  **Rem**  **Indianal starts and sta	(b) At 75% load	%	-
(5) Power factor (a) At rated load (b) At starting load (6) GD2 coupled with driven equipment (7) Starting time with driven equipment (8) Allowable number of starts (a) From cold condition per hour (b) From hot condition per hour (c) Minimum time between 2 starts (running state) (d) Minimum time between 2 starts (stop state) (9) Allowable locked-rotor time   87  - 3  - 3  - 3  10  30	(c) At 50% load	%	-
(a) At rated load (b) At starting load (6) GD2 coupled with driven equipment (7) Starting time with driven equipment (8) Allowable number of starts (a) From cold condition per hour (b) From hot condition per hour (c) Minimum time between 2 starts (running state) (d) Minimum time between 2 starts (stop state) (9) Allowable locked-rotor time	(d) At 25% load	%	-
(b) At starting load (6) GD2 coupled with driven equipment (7) Starting time with driven equipment (8) Allowable number of starts (a) From cold condition per hour (b) From hot condition per hour (c) Minimum time between 2 starts (running state) (d) Minimum time between 2 starts (stop state) (9) Allowable locked-rotor time	(5) Power factor		
(6) GD2 coupled with driven equipment (7) Starting time with driven equipment (8) Allowable number of starts (a) From cold condition per hour (b) From hot condition per hour (c) Minimum time between 2 starts (running state) (d) Minimum time between 2 starts (stop state) (9) Allowable locked-rotor time  kg-m2  s  4  10  3  4  3  4  10  30	(a) At rated load	%	87
(7) Starting time with driven equipment (8) Allowable number of starts (a) From cold condition per hour (b) From hot condition per hour (c) Minimum time between 2 starts (running state) (d) Minimum time between 2 starts (stop state) (9) Allowable locked-rotor time  s  - 3  - 2  min 30	(b) At starting load	%	-
(8) Allowable number of starts  (a) From cold condition per hour  (b) From hot condition per hour  (c) Minimum time between 2 starts (running state)  (d) Minimum time between 2 starts (stop state)  (9) Allowable locked-rotor time  3  - 2  min 30	(6) GD2 coupled with driven equipment	kg-m2	-
(a) From cold condition per hour  (b) From hot condition per hour  (c) Minimum time between 2 starts (running state)  (d) Minimum time between 2 starts (stop state)  (9) Allowable locked-rotor time  - 3  2  min 30  - 3  7  8  - 5  - 7  3  10  30  - 3  - 7  30  - 7  - 8  - 8  - 8  - 8  - 8  - 8  - 8	(7) Starting time with driven equipment	s	
(b) From hot condition per hour (c) Minimum time between 2 starts (running state) (d) Minimum time between 2 starts (stop state) (9) Allowable locked-rotor time  - 2 min 30	(8) Allowable number of starts		
(c) Minimum time between 2 starts (running state)  (d) Minimum time between 2 starts (stop state)  (9) Allowable locked-rotor time  min  30	(a) From cold condition per hour	-	3
state) (d) Minimum time between 2 starts (stop state) (9) Allowable locked-rotor time  state)  min 30	(b) From hot condition per hour		2
(d) Minimum time between 2 starts (stop state)  (9) Allowable locked-rotor time	(c) Minimum time between 2 starts (running	min	10
(9) Allowable locked-rotor time	state)	min	30
	(d) Minimum time between 2 starts (stop state)		
(a) At cold condition	(9) Allowable locked-rotor time	s	-
(a) At cold condition s -	(a) At cold condition	s	-
(b) At hot condition	(b) At hot condition		-
9. Constructions	9. Constructions		
(1) Stator winding connection (Wye / Delta) - Delta	(1) Stator winding connection (Wye / Delta)	-	Delta
(2) Type of bearing (DE / NDE) - 6208 2RZ C3/6208 2RZ C3	(2) Type of bearing (DE / NDE)	-	6208 2RZ C3/6208 2RZ C3
(3) Lubricants	(3) Lubricants		-
(a) Recommended lubricant and brand name	(a) Recommended lubricant and brand name	-	-
(b) Pouring method	(b) Pouring method	-	-
(c) Quantity of lubricant for initial filling	(c) Quantity of lubricant for initial filling	_	-
(d) Recommended interval for recharging	(d) Recommended interval for recharging	_	-
(e) Recharging quantity	(e) Recharging quantity	-	-
(f) Location of pouring	(f) Location of pouring	_	-
(indicated in the outline drawing)	(indicated in the outline drawing)		-
(4) Bearing cooling water requirement (if required)	1		NO
(a) Quantity	(a) Quantity	-	<del>-</del>
(b) Inlet water temperature	(b) Inlet water temperature	-	<del>-</del>
(c) Required cooling water pressure	(c) Required cooling water pressure	-	<del>-</del>
(d) Type of cooling water	(d) Type of cooling water		

(5) Water to air heat exchanger (if applied)		NO
(a) Quantity of cooling water	h	-
(b) Inlet water temperature	g	-
(c) Required cooling water pressure		-
(d) Type of cooling water	W	-
(6) Space heater (AC 220V 1 phase)	kg	150
(7) Weight		
10. Attached document numbers		
(1) Motor outline drawing	-	-
(2) Terminal box drawings	-	-
(a) For main power	-	-
(b) For instruments	-	-
(c) For space heater	-	-
(3) Current transformers (for MV motors only)		
(a) Characteristics curves	-	-
(b) Outline drawing	-	-
(4) Efficiency curves	-	
(5) Thermal capability curves		-
(a) At cold condition		-
(b) At hot condition	-	è
(6) Starting and speed torque characteristics at		-
80%, 90% and 100% voltage		