1. Motor Data sheets- Seawater Transfer Pump

1. Name of motor - Motor Of Seawater Transfer Pump 2. Manufacturer - SIEMENS 3. Country of origin - China 4. Type/machine code - 1LE0001-1DA33-3AA4-Z 5. Applied standard (characteristics) - IEC 6. Ratings (1) Rated output kW 15 (2) Service factor - 1.0 (3) Number of pole - 2P (4) Rated speed rpm 2935rpm (5) Rated voltage V 380V (6) Number of phases - F (7) Rated frequency Hz 50 (8) Insulation class - F (9) Temperature rise - B (10) Rated duty - DOL 7. Service Conditions - - (1) Starting method - DOL (2) Direction of rotation (viewed from DE) - C.W. (3) Reverse rotation (viewed from DE) - No (4) Location (Indoor / Outdoor) - No		1. Motor Data sneets- Seaw		
3. Country of origin 4. Type/machine code 5. Applied standard (characteristics) 6. 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 7. 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) 8. Characteristics (1) Current (a) Normal current A 29.5	1.	Name of motor	-	Motor Of Seawater Transfer Pump
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4. Type/machine code 5. Applied standard (characteristics) 6. 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 7. 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) 8. Characteristics (1) Current (a) Normal current A 150 - IEC - IEC - IDO - 2P - 70 - 380V 380V 380V 40 50 - F 50 - B 51 - DOL - C.W No - No - Outdoor - C.W No - Outdoor - Outdoor - IP55 - Horizontal - No - Outdoor - O				
5. Applied standard (characteristics) 6. 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 7. 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) 8. Characteristics (1) Current (a) Normal current A 29.5	3.	Country of origin	-	China
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(4) Rated speed rpm 2935rpm (5) Rated voltage V 380V (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 - DOL (1) Starting method - C.W. (2) Direction of rotation (viewed from DE) - C.W. (3) Reverse rotation (Yes / No) - No (4) Location (Indoor / Outdoor) Outdoor Outdoor (5) Enclosure IP rating - IP55 (a) Motor frame - IP55 (b) Terminal boxes - IP55 (6) Installation (Horizontal / Vertical) °C 40 (7) Design ambient temperature °C 40 (8) Explosion proof (Required / Not required) No 67 8. Characteristics (1) Current A 29.5		(2) Service factor	-	1.0
(5) Rated voltage (6) Number of phases (7) Rated frequency (8) Insulation class (9) Temperature rise (10) Rated duty 7. 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) 8. Characteristics (1) Current (a) Normal current 70 80 81 82 84 85 85 85 86 87 88 88 89 89 80 80 80 80 80 80		(3) Number of pole	-	2P
(6) Number of phases (7) Rated frequency (8) Insulation class (9) Temperature rise (10) Rated duty 7. 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) 8. Characteristics (1) Current (a) Normal current A 29.5		(4) Rated speed	rpm	2935rpm
(7) Rated frequency (8) Insulation class (9) Temperature rise (10) Rated duty 7. 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) Reverse rotation (Yes / No) Outdoor - No Outdoor - No Outdoor - IP55 Horizontal - Horizontal - No AB (A) 67		(5) Rated voltage	V	380V
(8) Insulation class (9) Temperature rise (10) Rated duty 7. 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) 8. Characteristics (1) Current (a) Normal current - B - C - B - C - C.W. - No Outdoor - IP55 Horizontal - Horizontal - Vertical No 67		(6) Number of phases		3
(9) Temperature rise (10) Rated duty 7. 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) 8. Characteristics (1) Current (a) Normal current - B S1 - DOL - C.W. - No Outdoor - IP55 Horizontal **OC **OC **OC **OC **OC **OC **OC **		(7) Rated frequency	Hz	50
7. 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) S1 - DOL C.W. Outdoor - No Outdoor - IP55 Horizontal **O** 40 No 67 8. Characteristics (1) Current (a) Normal current A 29.5		(8) Insulation class	-	F
7. 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) 7. No Outdoor - IP55 - IP55 - Horizontal °C 40 No 67 8. Characteristics (1) Current (a) Normal current A 29.5		(9) Temperature rise	_	В
(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 (b) Terminal boxes (6) Installation (Horizontal / Vertical) (7) Design ambient temperature (8) Explosion proof (Required / Not required) (9) Noise level (at full-load condition) 8. Characteristics (1) Current (a) Normal current - DOL - C.W. - No Outdoor - IP55 + Horizontal °C 40 No 67		(10) Rated duty		S1
(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 (b) Terminal boxes (6) Installation (Horizontal / Vertical) (7) Design ambient temperature (8) Explosion proof (Required / Not required) (9) Noise level (at full-load condition) 8. Characteristics (1) Current (a) Normal current - DOL - C.W. - No Outdoor - IP55 + Horizontal °C 40 No 67				
(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 (c) Installation (Horizontal / Vertical) (d) Explosion proof (Required / Not required) (e) Noise level (at full-load condition) (f) Current (g) Normal current (h) Cur	7.	Service Conditions	-	
(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) (a) Normal current A 29.5		(1) Starting method	-	DOL
(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) 8. Characteristics (1) Current (a) Normal current Outdoor - Outdoor Outdoor Outdoor Outdoor A BA 40 FS No A Characteristics A A Characteristics A A Counteristics		(2) Direction of rotation (viewed from DE)	-	C.W.
(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) 8. Characteristics (1) Current (a) Normal current - IP55 Horizontal °C 40 No 67		(3) Reverse rotation (Yes / No)	-	No
(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) (1) Current (a) Normal current - IP55 - IP55 Horizontal OC 40 No 67		(4) Location (Indoor / Outdoor)		Outdoor
(b) Terminal boxes (6) Installation (Horizontal / Vertical) (7) Design ambient temperature (8) Explosion proof (Required / Not required) (9) Noise level (at full-load condition) 8. Characteristics (1) Current (a) Normal current - IP55 Horizontal No A 29.5		(5) Enclosure IP rating	-	
(6) Installation (Horizontal / Vertical) (7) Design ambient temperature (8) Explosion proof (Required / Not required) (9) Noise level (at full-load condition) 8. Characteristics (1) Current (a) Normal current Horizontal A 29.5		(a) Motor frame	-	IP55
(7) Design ambient temperature (8) Explosion proof (Required / Not required) (9) Noise level (at full-load condition) 8. Characteristics (1) Current (a) Normal current o C 40 No No A 29.5		(b) Terminal boxes	-	IP55
(8) Explosion proof (Required / Not required) (9) Noise level (at full-load condition) 8. Characteristics (1) Current (a) Normal current A 29.5		(6) Installation (Horizontal / Vertical)		Horizontal
(9) Noise level (at full-load condition) 8. Characteristics (1) Current (a) Normal current A 29.5		(7) Design ambient temperature	°C	40
8. Characteristics (1) Current (a) Normal current A 29.5		(8) Explosion proof (Required / Not required)		No
(1) Current (a) Normal current A 29.5		(9) Noise level (at full-load condition)	dB (A)	67
(1) Current (a) Normal current A 29.5		,	-	
(a) Normal current A 29.5	8.	Characteristics		
		(1) Current		
(b) No-load current A -		(a) Normal current	Α	29.5
		(b) No-load current	Α	-

		_	
	(c) Starting current	Α	221.25
	(2) Torque	Nm	48.8
	(a) Starting torque	Nm	117.12
	(b) Maximum torque	Nm	156.16
	(3) Slip at rated output	%	-
	(A) = 0		
	(4) Efficiencies		
	(a) At 100% load	%	90.3
	(b) At 75% load	%	91
	(c) At 50% load	%	-
	(d) At 25% load	%	-
	(5) Power factor		
	(a) At rated load	%	86
	(b) At starting load	%	-
	(6) GD2 coupled with driven equipment	kg-m²	-/
	(7) Starting time with driven equipment	S	
	(8) Allowable number of starts		
	(a) From cold condition per hour	-	3
	(b) From hot condition per hour	-	2
	(c) Minimum time between 2 starts (running state)	min	30
	(d) Minimum time between 2 starts (stop state)	min	5
	(9) Allowable locked-rotor time	S	-
	(a) At cold condition	S	-
	(b) At hot condition		-
9.	Constructions		
	(1) Stator winding connection (Wye / Delta)	-	Delta
	(2) Type of bearing (DE / NDE)	-	6209 2Z C3/6209 2Z C3
	(3) Lubricants		
	(a) Recommended lubricant and brand name	-	Unirex N3
	(b) Pouring method	-	Oil filler hole
	(c) Quantity of lubricant for initial filling	-	
	(d) Recommended interval for recharging	h	8000
	(e) Recharging quantity	g	40
	(f) Location of pouring	-	
			NO
		m³/h	-
	•	°C	-
			-
	•	-	-
	(c) Quantity of lubricant for initial filling(d) Recommended interval for recharging(e) Recharging quantity	g - m³/h	8000 40 NO - -

(5) Water to air heat exchanger (if applied)		NO
(a) Quantity of cooling water	m³/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	-
(7) Weight	kg	225
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	-	-
(6) Starting and speed torque characteristics at 80%, 90% and 100% voltage	-	-