

## 23 FILTER BACKWASH PUMP MOTOR DATA SHEET

1. Name of motor	-	Filter backwash pump motor			
2. Manufacturer	-	SIEMENS			
3. Country of origin	-	CHINA			
4. Type/machine code	-	1LE0001-2CB22-1GA4			
5. Applied standard (characteristics)	-	IEC			
6. Ratings					
(1) Rated output	kW	55			
(2) Service factor	-	1			
(3) Number of pole	-	4			
(4) Rated speed	min <sup>-1</sup>	1450			
(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)	70dB(A)			
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8. Characteristics		
(1) Current		
(a) Normal current	A	145
(b) No-load current	A	35
(c) Starting current	A	780
(2) Torque		
(a) Starting torque	%	2.7
(b) Maximum torque	%	3.2
(3) Slip at rated output		1.4
(4) Efficiencies		
(a) At 100% load	%	93.5
(b) At 75% load	%	93.9
(c) At 50% load	%	93.4
(d) At 25% load	%	92.6
(5) Power factor		
(a) At rated load	%	
(b) At starting load	%	
(6) GD2 coupled with driven equipment	kg-m <sup>2</sup>	0.8
(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

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9. Constructions		
(1) Stator winding connection (Wye / Delta)	-	Wye
(2) Type of bearing (DE / NDE)	-	6314 C3
(3) Lubricants		
(a) Recommended lubricant and brand name	-	
(b) Pouring method	-	
(c) Quantity of lubricant for initial filling	-	
(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 <sup>3</sup> /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 <sup>3</sup> /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	
10. Attached document numbers		
(1) Motor outline drawing	-	Refer to attachment
(2) Terminal box drawings	-	NA
(a) For main power	-	NA
(b) For instruments	-	NA
(c) For space heater	-	NA

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