09 SECONDARY SLUDGE PUMP MOTOR DATA SHEET

1. Name of motor	-	Secondary sludge pump motor
2. Manufacturer	-	ABB
3. Country of origin	-	CHINA
4. Type/machine code	-	3GBA 102 520-ASC M2BAX 100LB 4
5. Applied standard (characteristics)	-	IEC
6. Ratings		
(1) Rated output	kW	3
(2) Service factor	-	1.0
(3) Number of pole	-	4
(4) Rated speed	R.min-1	1436
(5) Rated voltage	V	380
(6) Number of phases	-	3
(7) Rated frequency	Hz	50
(8) Insulation class	-	F
(9) Temperature rise		В
(10) Rated duty		S 1
7. Service Conditions	-	
(1) Starting method	-	Directly
(2) Direction of rotation (viewed from DE)	-	CW or CCW
(3) Reverse rotation (Yes / No)	-	No
(4) Location (Indoor / Outdoor)		Outdoor
(5) Enclosure IP rating	-	
(a) Motor frame	-	IP55
(b) Terminal boxes	-	IP55
(6) Installation (Horizontal / Vertical)		Horizontal
(7) Design ambient temperature	°C	-20 ~ 40
(8) Explosion proof (Required / Not required)		Not required
(9) Noise level (at full-load condition)	dB (A)	58
8. Characteristics		

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(1) Current		
(a) Normal current	A	6.6
(b) No-load current	A	3.5
(c) Starting current	A	47.52
(2) Torque		
(a) Starting torque	%	3.4
(b) Maximum torque	%	3.8
(3) Slip at rated output		
(4) Efficiencies		
(a) At 100% load	%	85.5
(b) At 75% load	%	85.7
(c) At 50% load50%	%	84.6
(d) At 25% load	%	
(5) Power factor		
(a) At rated load	%	81
(b) At starting load	%	54
(6) GD2 coupled with driven equipment	kg-m²	0.00939
(7) Starting time with driven equipment	s	
(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)	min	
(d) Minimum time between 2 starts (stop state)	min	
(9) Allowable locked-rotor time		
(a) At cold condition	s	27
(b) At hot condition	s	15
9. Constructions		
(1) Stator winding connection (Wye / Delta)	-	
(2) Type of bearing (DE / NDE)	-	6206-2Z/C3 - 6205-2Z/C3
(3) Lubricants		

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NA
NA
NA
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NA

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(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



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