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Data Sheet for Oversize Screen (VS),3/4-32-2701-01,02						

01	09/09/2024	Issued For Approval				
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Rev.	Date	Description	Prepared	Checked	Approved	Authorized

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Tabulation of Revised Page

Sheet	Revisions							Sheet	Revisions						
	00	01	02	03	04	05			00	01	02	03	04	05	
1	X	X						31							
2	X	X						32							
3	X	X						33							
4	X	X						34							
5	X	X						35							
6	X	X						36							
7	X	X						37							
8	X	X						38							
9		X						39							
10		X						40							
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1- SAG mill Discharge Screen Technical Data

Line	Description	Units	Value	Rev
1	Quantity		1 Operational 1 Stand by	
2	Location (indoors/ outdoors)		Indoors	
3	Process / operating conditions			
4	<u>Feed material</u>			
5	Ore type		SAG MILL DISCHARGE	
6	Ore specific gravity		2.8	
7	Liquid density	t/m3	1	
8	Bond abrasion index	g		
9	Unconfined Compressive Strength	MPa		
10	Feed size F100	mm	70 (TBC)	
11	Feed size F80	mm	2 (TBC)	
12	<u>Operating conditions</u>			
13	Type of screening (wet / dry)		wet	
14	Nominal solids feed rate	tph	2815.02	
15	Design solids feed rate	tph	3248.09	
16	Solids content in feed slurry	% (m/m)	64	
17	Feed slurry density	t/m3	1.71	
18	Screen aperture	mm	12.7×25.4 (VTA)	
19	Minimum required screening efficiency	%	95	
20	Fraction of feed solids larger than screen aperture	%	20	

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		(m/m)		
21	Feed slurry temperature	°C	5 to 60	
22	Mechanical details			
23	Manufacturer			
24	Type			
25	Model / size			
26	Width	m	(VTA)	
27	Length	m	(VTA)	
28	Duty			
29	Noise level at 1 m distance	dBA		
30	No of screening decks			
31	Screening media material			
32	Aperture shape			
33	Screen media open area (%)	%		
34	Chute material			
35	Frame material			
36	Deck material			
37	Screen mounting			
38	Spray water system			
39	Included	Yes/No	Yes	
40	Quantity of spray bars	#		
41	Diameter of spray bar pipes	mm		
42	Quantity of spray nozzles per spray bar	#		
43	Distance between spray nozzles	mm		

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44	Spray nozzle type			
45	Spray nozzle model no			
46	Flowrate per spray nozzle	l/min		
47	Bearings			
48	Manufacturer			
49	Model number	#		
50	Life	L10h (h)		
51	Lubricant specifications			
52	Lubricant type			
53	Method of lubrication			
54	Initial fill	liter		
55	Frequency of fill (working hours)	h		
56	Frequency of draining (working hours)	h		
57	Oil filter	microns		
58	Drive specifications			
59	Pulley specifications			
60	Motor pulley diameter	mm		
61	Drive pulley diameter	mm		
62	Belt type			
63	Number of belts	#		
64	Belt length	mm		
65	Center to center distance	mm		
66	Belt tensioning			
67	Masses			

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68	Refer to Drawing Number	#		
71	Electrical and Instrumentation			
72	Supply voltage	V		
73	Frequency	Hz	50	
74	Motor specifications			
75	Motor type			
76	Installed motor power	kW	45 (VTA)	
77	Motor speed	rpm		
78	No of poles			
79	Motor frame size			
80	Mounting			
81	IP protection			
82	Insulation class			
83	Efficiency			
84	Materials of construction			
85	Motor operation			
86	Rotation (CCW/CW)			
87	Cooling system			
88	Junction box			
89	Model	#		
90	Protection class			
91	Mounting type			
92	Materials of construction			
93	General			

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94	Painting specifications			
95	Applicable standards and codes			

Motor Data sheet

1	MOTOR TAG NUMNER		-----
2	MOTOR MANUFACTURER		SIEMENS, WEG, ABB
3	TYPE OF MOTOR	%	Asynchronous (Induction Squirrel Cage)
4	EFFICIENCY	–	IE2
5	INSTALLED POWER	kW	90
6	ABSORBED POWER	kW	VTA
7	VOLTAGE	V	400 +5% -5%
8	FREQUENCY	Hz	50 +2% -2%
9	No. OF POLES	#	4
10	SYNCHRONOUS MOTOR RPM	rpm	1500
11	POWER FACTOR		According to IEC
12	IP PROTECTION		FOR MOTOR IP55
			FOR JUNCTION BOX IP56
13	INSULATION CLASS		Class F
14	TEMPRATURE RISE		Class B
15	STATOR CONNECTION		Y / Δ (690/400 v)
16	MOTOR DUTY TYPE		S1 for DOL
			S3 for VFD
			IC411 for DOL

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17	METHOD OF COOLING		IC416 for VFD
18	WINDING TEMPRATURE DETECTORS		3 RTD for motors greater than 75 kw
			3 PTC for motors run with VFD
19	SPACE HEATERS		For Motors greater than 75 kW
20	ENCLOSURE MATERIAL		CAST IRON
21	ENCLOSURE COLOR		RAL 5010 (Blue)
22	FRAME SIZE		In accordance with IEC 60072-1
25	DIMENTION		
26	WEIGHT OF THE MOTOR	Kg	
27	RATED OUTPUT	(kW)	
28	FULL LOAD CURRENT	(A)	
29	RATED TORQUE		
30	SHORT CIRCUIT CAPACITY		
31	SLIP AT 100%, 75%, 50%, 0%	(P.U.)	
32	EFFICIENCY AT 100%, 75%, 50%, 0%	(%)	
33	POWER FACTOR AT 100%, 75%, 50%, 0%	(P.U.)	
34	POWER FACTOR AT LOCKED ROTOR	(P.U.)	
35	STARTING CURRENT	(P.U.)	
36	STARTING TORQUE	(P.U.)	
37	STARTING POWER FACTOR	(P.U.)	
38	NO LOAD LOSSES	(kW)	
	WITHSTAND FAULT CURRENT (kA)		

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39	MAIN TERMINAL BOX / AUXILIARY TERMINAL BOX	KA	
40	LOCKED ROTOR TORQUE IN PERCENT OF FULL LOAD TORQUE	(%)	
41	PULL OUT TORQUE (THE HIGHEST TORQUE IN % OF FULL LOAD TORQUE)	(%)	
42	PULL UP TORQUE (MINIMUM RUN UP TORQUE IN % OF FULL LOAD TORQUE)	(%)	
43	LOCK. ROTOR CURRENT	(A)	
44	PERMISSIBLE LOCKED ROTOR TIME AT	(Sec.)	
	100% VOLTAGE		
	80% VOLTAGE		
45	NOMINAL FULL LOAD SPEED	(rpm)	

1- VTC: Vendor to Confirm - TBC : To Be Confirmed

2- The blanks items should be completed by vendor.

3- Vendor shall provide and issue the important data required to design the related structure / foundation.