SULZER	Data-sheet	EM N°	Q461601173
	ICN300-500SO	Item	320/20
	2 Motor-pump unit(s)	Date	15/06/2017
		Status	final

1	**Client**	ETI BAKIR A S MAZIDAGI									71
2	**Client ref.**	Contract No: TS-MAZ-0303				**Item**	221-P-05 A/R Cooling water return pumps				72
3	**Service**	product transfer				**End user**	Phosphoric Acid (PAP) and Leaching Facility				73
4	**Pumped liquid**	0.2-0.5%P2O5, 0.4-1%F, 1-5% max solids, 0.05%Clmax.									74
5			**Nom**	**Min.**	**Max.**	**Performances**		**Nom**	**Min.**	**Max.**	75
6	**Temperature**	°C	50		50	**Capacity**	m3/h	1200			76
7	**Viscosity**	cSt	1		1	**Total head**	m	18,5			77
8	**Sp. Gravity**	kg/dm3	1	1	1	**Rotation speed**	tr/min	741			78
9	**pH**					**Efficiency,pump**	%	80,5			79
10	**Suct. pressure**	bar a	0,9			**Abs.power at nom. d**	kW	75,1			80
11	**Disch. pressure**	bar a	2,7			**Min. flow**	m3/h	305			81
12	**Vapour pressure**	bar a				**Min. motor rating**	kW	80			82
13	**NPSHa**	mCl	7,4			**NPSHr**	mCl	1,6			83
14	**Quality Control**					**Materials of construction**					84
15		**Cert.**	**Insp.**	**Standard & comments**		**Pumps casing**		cast 20/25/4 + Cu st. st.			85
16	**Materials of construction**	Yes	No	3.1ch corps roue fond arbre		**Impeller(s)**		cast 20/25/4 + Cu st. st.			86
17	**Hydrotest**	Yes	No			**Shaft**		20/25/4 + Cu st. st.			87
18	**Performances**	2	1	5pts + 2h endurance		**Shaft sleeve**		20/25/4 + Cu st. st.			88
19	**Vibrations**	Yes	Yes	1ppe /2		**Bearing frame**		cast iron FT25(Cast iron + Epoxy)			89
20	**Noise level**	Yes	Yes	1ppe/2		**Impeller wear ring(s)**					90
21	**Balancing**	Yes	No	ISO1940 G6.3		**Casing wear ring(s)**					91
22	**Strip-down**	No	No			**Stuffing box**		cast 20/25/4 + Cu st. st.			92
23	**Final inspection**	No	No			**Gaskets**		VITON (FPM)			93
24	**Motor tests**	No	No			**Adapter frame**		EN1563: GJS400-15			94
25	**NDT**	No	No			**Baseplate**		(Carbon steel coated)			95
26	**NPSH (5 points)**	Yes	Yes	1ppe/2							96
27	**Construction**	**horizontal single-stage**				**Shaft seal**		single mechanical seal			97
28	**Standard**	ISO 5199				**Make**		Burgmann or equiv.	**API**		98
29	**Mounting**	horizontal				**Seal arrangement**		injection of ext. liquid			99
30	**Suction flange**	DN 350 - PN16						**Atmosphere side**	**Product side**		100
31	**Discharge flange**	DN 300 - PN16				**Model/Code**		Lip seal	HRZ Type		101
32	**Lubrication**	oil				**Face mat.**			silicon carbide		102
33	**Test pressure (bar g)**	5,5							silicon carbide		103
34	**Orig. fabr.**					**Gasket mat.**			Viton		104
35	**Impeller diam. (mm)**	Rated : 530		Min. : 425	Max.:530	**Metal parts**			UB6		105
36	**Documentation**					**Piping**		**API Plan**	**Notes**		106
37	**Performance curves**	CUR461601173-320		**Part list**	156185	**Flushing**	No				107
38	**Sectional dwg**	1196838		**Piping**		**Quench**	Yes	62	piping inox		108
39	**Dimensional dwg**	1196559		**Client spec.**	DAT461601173-320	**Cooling**	No				109
40	**Paint**	PEIN-EMSP (1200504)		**Mech.seal dwg**		**Heating**	No				110
41						**Drain**	No				111
42						**Event**	No				112
43	**Driver**	ENSIVAL-MORET				**Transmission**	ENSIVAL-MORET				113
44	**Type**	electric motor				**Type**	coupling				114
45	**Make**	ABB				**Make**	Flender				115
46	**Model**	M3BP 315 MLA				**Model**	Flexible coupling N-Eupex H225				116
47	**Rating**	**kW**	90	**Voltage (v)**	400	**Base plate**	common under pump and driver				117
48	**Speed**	**rpm**	743	**Frequency (Hz)**	50	**Drip-type**	Yes	**Mat.**	steel		118
49	**Mounting type**	B3									119
50	**Area**	Safe				**Guard**	standard aluminium				120
51	**Class**	TEFC - F/B				**Anchor bolts**	Yes - calked end				121
52	**Tests**	**Cert.**	**Assist.**			**Site Data**					122
53	**Motor tests**	No	No			**Altitude**	0 m				123
54	**Routine tests**	Yes	No			**Min.temp.**	-17				124
55	**No load tests**	No	No			**Max.temp.**	45				125
56	**Load tests**	No	No			**Installation**	Outdoor				126
57	**Essais complet V+C**	No	No			**Hivernage**					127
58	**Noise test**	No	No			**Tropicalisation**					128
59	**Vibration test**	No	No			**Atmospheric conditions**					129
60	**Paint**	No	No								130
61	**Specification**	No	No								131
62	**Notes**										
63											
64											
65											
66											
67	**Revisions**										
68	01 - 15/11/2016 - FAMR										
69	02 - 14/06/2017 -										
70	03 - 15/06/2017 -										