

DATA SHEET 21 - SAID

ITEM : « PUMP »			DATA SHEET NUMBER : SEO-PO/004			Contract number : 3204				
PUMP NUMBER : 1 SEO 2011 PO 2 SEO 2011 PO			Description : PUMP Type : CP 3060 MT 222			Sheet : ¼ Revision : B Date : 27/04/01				
PERFORMANCES			UNIT OR SYMBOL	INSTALLATION			UNIT OR SYMBOL			
1	Nature of the fluid	Drains	Water	40	Axis (vertical or horizontal)	V or H	V			
2	Suction temperature	°C	70	41	Height	mm				
3	Absolute suction pressure	bar		42	Width	mm				
4	Nominal flow	m ³ /h	20.1	43	Length	mm				
5	Flow (m ³ /h) Min (cont.) :	Max :		44	Pump total weight	kg				
6	Manometric head at nominal flow	mWH	15	45	Location (int. or ext.)	I or E	E			
7	Manometric head at minimum flow	mWH	18.5	46	Anchor bolts supplied by		mfr			
8	Manometric head at 0 flow	mWH	19	47						
9	Required NPSH at nominal flow	mWH	2.3	48						
10	Available NPSH at nominal flow	mWH		49						
11	Efficiency (%) at nominal flow Mini. Flow : 15 Max. flow		60		PIPING CONNECTION	Union type (W/F)	Size	Rating	Facing	Location (x,y,z)
12				50	Suction		-			Y
13	Pump absorb. power @ nominal flow	kW	1.58	51	Discharge		65			X
14	Pump absorb. power @ min. flow	kW	0.6	52	Vent					Na
15	Pump absorb. power @ max. flow	kW	1.58	53	Drain					Na
16				54						
17	Speed	rpm	2900	55						
18	Specific speed @nom. flow	-	2820	56						
CONSTRUCTION										
20	Calculation code:	Standard :		58	Coupling MFR :					Na
21	Design relative pressure	Bar		59	Standard :					Na
22	Proof test relative pressure	bar	5	60	Type / model :					Na
23	First impeller type (single/double ?)			61	Spacer (mm) :					Na
24	Impeller type (opened / closed ?)	Chanel	2	62	Seal flush (if any) bar :		m ³ /h			Na
25	Impeller diameter (mm) Mini :	Maxi :		63	Cooling jacket flow bar :		m ³ /h			Na
26	Impeller selected diameter	mm	127	64	Packing lantern ring injection : °C :		bar :		m ³ /h	Na
27	Wear ring on impeller or casing ?									
28	Number of pressure stages		1	MATERIALS designation /equiv. ASTM designation						
29	Number of bearings		2	66	First impeller		A 743 CF - 8M			
30	Sealing (mech. / pack. ?)	Mechanical Seal		67	Other impellers		-			
31	Sealing standard / designation / plan	Na		68	Volute/Barrel		A 743 CF - 8M			
32	Sealing manufacturer / code	Na		69	Casing		A 743 CF - 8M			
33	Shaft diameter	Mm		70	Diffuser		-			
34	Axial balancing arrangement	Na		71	Impeller wear rings		Na			
35	Drive type	IP 68		72	Casing wear rings		-			
36	Bearing Type :	Ball Bearing		73	Bearing brackets		-			
37	Lubrication : l/min	Na		74	Pump covers		-			
38	Thrust type :	Na		75	Pump shaft		A 743 CA 40			
39				76	Shaft sleeve		A 743 CA 40			
REMARKS :										
SHIFT ISSUE										

DATA SHEET 22 - SAID

ITEM : « MOTOR »		DATA SHEET NUMBER : SEO-POM/004				Contract number : 3204	
NUMBER : 1 SEO 2011 POM 2 SEO 2011 POM		Description : PUMP : CP 3060 MT 222 DRIVING MOTOR				Sheet : 2/2 Revision : B Date : 27/04/01	
PERFORMANCES		UNIT OR SYMBOL		INSTALLATION		UNIT OR SYMBOL	
1	Synchronization speed	rpm	2820	30	Axis (vertical or horizontal)	V or H	V
2	Nominal voltage Un	V	400	31	Diameter booster shaft side	mm	
3	Nominal rated power	kW	2.4	32	Diameter H-coupler shaft side	mm	
4	Absorbed elec. power @ nominal flow	kW	1.60	33	Length	mm	
5	Operating power @ nominal flow	kW		34	Weight	kg	
6	Absorbed elec. power @ 1.2 Qn	kW		35	Location (int. or ext.)	I or E	E
7	Absorbed elec. power @ Maxi. flow	kW		36			
8	Nominal current, Cn	A	4.9	37	Driven component		
9	Rated Power Factor	%	0.92				
10	Efficiency at 4/4 load		0.77	40			
11	Cd/Cn			41			
12	Td/Tn	%		42			
13	Tmax/Tn	%		43			
14	Md2 (motor only)	daN.m2		44			
15	Start up time under Un	*		45	Separate junction box for instrum/power...?		
16	Vibration level	µm		46	Power factor(%)	0.92 4/4	0.89 3/4
17	Noise level	dB	< 70	47	Number of Warm starts		
18	Tf(N) characteristic	N°		48	Number of cold starts		
19				49			
20	Power Factor = f(N) characteristic	N°		50			
CONSTRUCTION							
20	Rotational speed		2820	60			
21	Frame		Na	61			
22	Insulation class		F	62			
23	Cooling mode - horizontal axis			63			
24	Implantation symbol - axis (V/ H)		V	MISCELLANEOUS			
25	Axis height						
26	Flange symbol		Na				
27	Space heater		Na				
28	Cable connection : power cable	mm ²		70	Local item		
29	Cable type : single/double/triple effect			71	Manufacturer		Flygt Sweden
	Cooling tube			72	Manufacturer's type item		3060 .390
	Cooling water						
REMARKS :							
INSTALLATIONS OVERALL DIMENSION SKETCH (INCLUDING SUPPORTING AND LIFTING SYSTEMS)							
YES				NO			
SHIFT ISSUE							



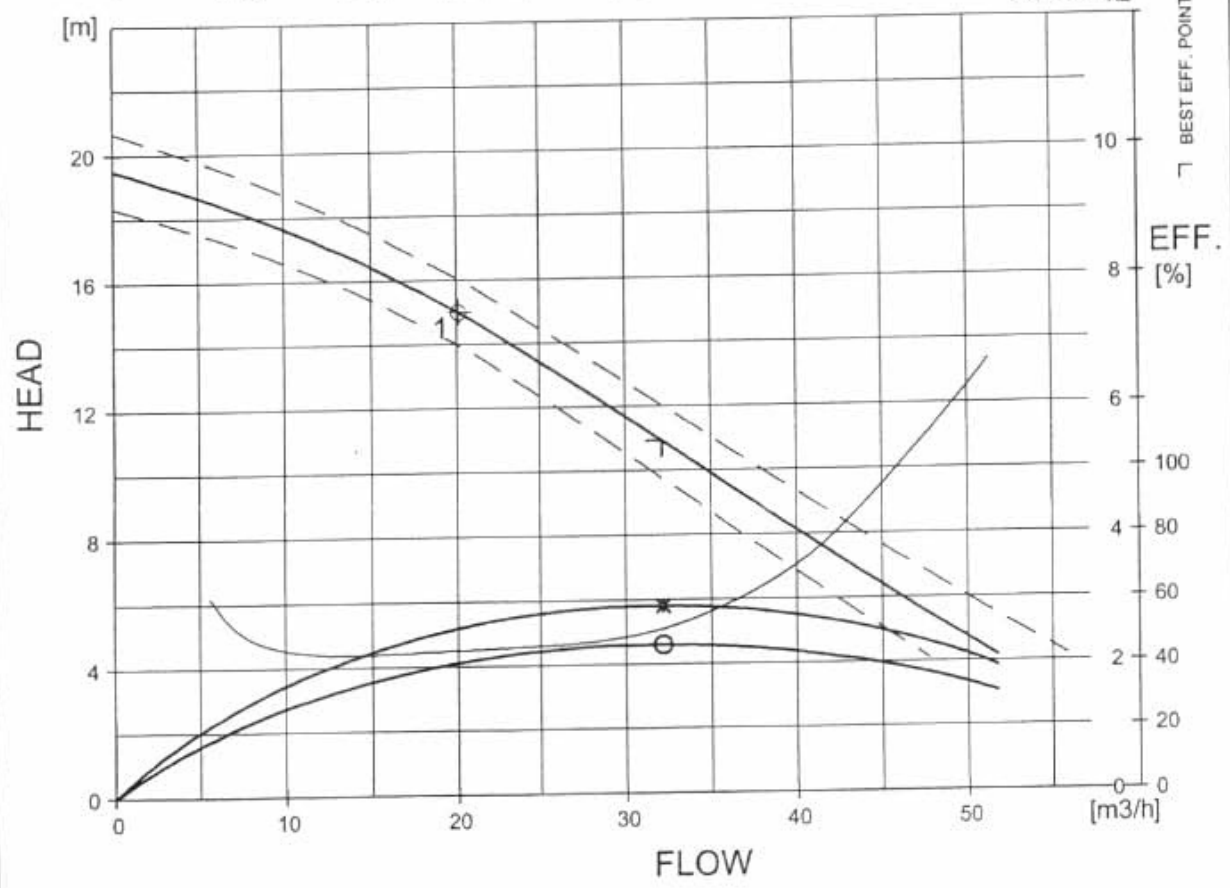
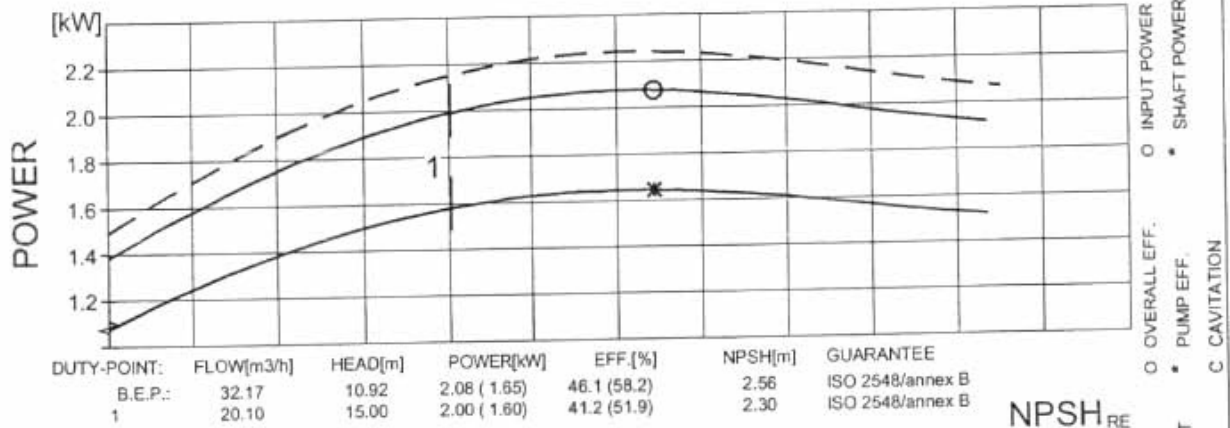
PERFORMANCE CURVE

PRODUCT: CP3060.390
 TYPE: MT
 CURVE NO: 53-222-00-0125
 ISSUE: 2

DATE: 2001-03-21
 PROJECT: SAID

POWER FACTOR	1/1-LOAD: 0.92	3/4-LOAD: 0.89	1/2-LOAD: 0.82	RATED POWER	2.4 kW
EFFICIENCY	77.0 %	79.0 %	78.5 %	STARTING CURRENT	26 A
MOTOR DATA	---	---	---	RATED CURRENT	4.9 A
COMMENTS	INLET/OUTLET			RATED SPEED	2820 rpm
	- / 65 mm			TOT. MOM. OF INERTIA	0.0022 kgm2
	IMP. THROUGHLET			NO. OF BLADES	2

MOTOR #	STATOR	REV	
14-10-2AF	34Y	10	
FREQ.	PHASES	VOLTAGE	POLES
50 Hz	3	400 V	2
GEARTYPE	RATIO		
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FLYPS 2.0 (1118)



ISO CURVE

Performance with clear water and ambient temp 40 °C