

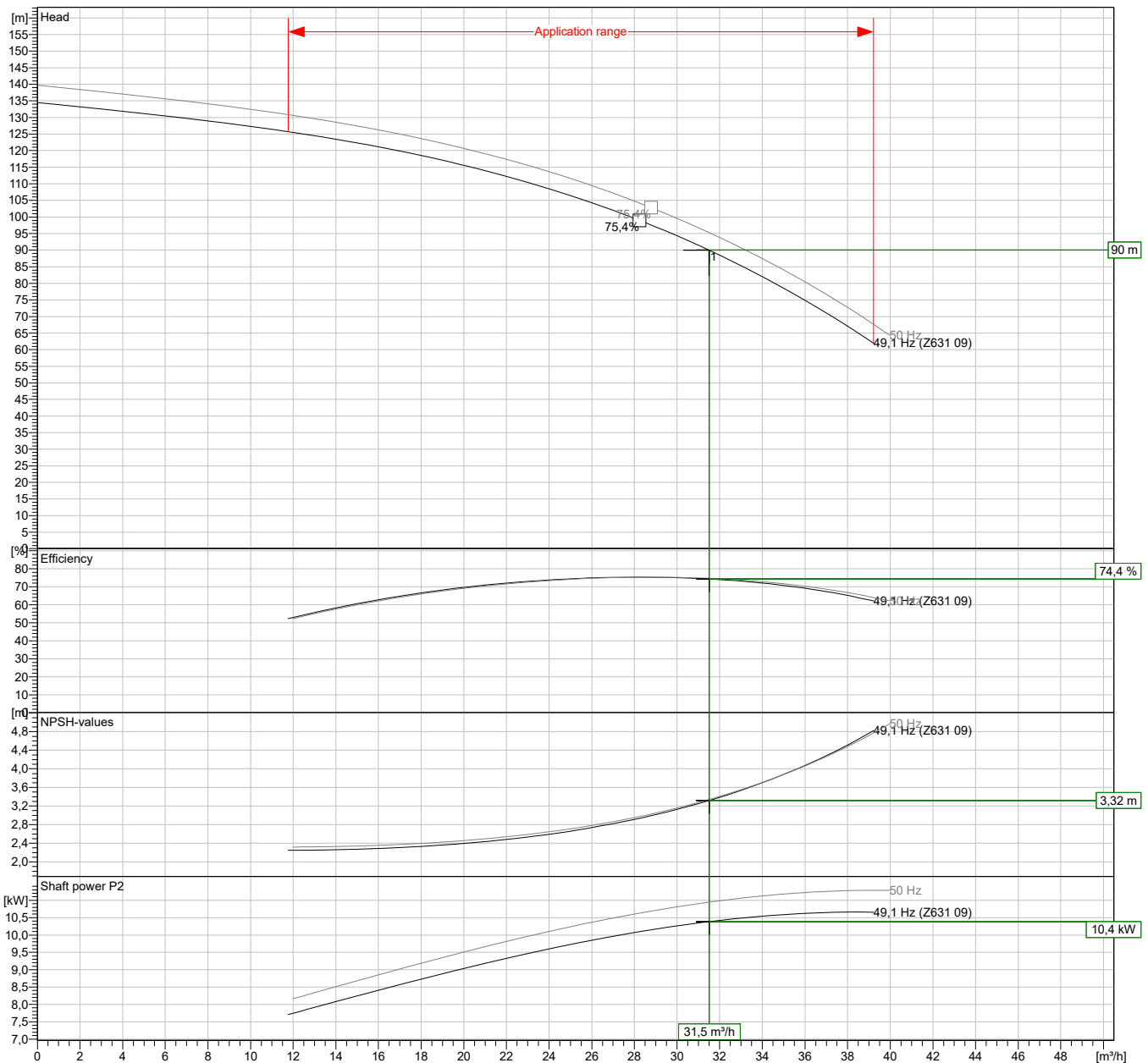
## Z631 09 + HFR 1102 D

Company Contact Phone number Email			Customer Contact Phone number Email			Date Item no. Project Project no.			2017-09-11		
<b>Operating data</b>											
1	Pumpe type		Single head pump			Fluid			Water		
2	No. of pumps / Reserve		1 /			Operating temperature t A			°C 4		
3	Nominal flow		m³/h 31,5			pH-value at t A			7		
4	Nominal head		m 90			Density at t A			kg/dm³ 1		
5	Static head		m 0			Kin. viscosity at t A			mm²/s 1,569		
6	Inlet pressure		bar 0,098			Vapor pressure at t A			bar 0,00789		
7	Environmental temperature		°C 20			Solids			0		
8	Available system NPSH		m 0			Altitude			m 1000		
<b>Pump data</b>											
9	Pump designation		Z631 09 + HFR 1102 D								
10	Design		Submersible pump, multistage pump with diffusers								
11	Make		Lowara								
12	Speed		1/min		2900						
13	Number of stages		9								
14	Suction nozzle		/ /								
15	Discharge nozzle		Rp 3" / /DIN 2999								
16	Max. casing pressure		bar			Impeller R			Max. mm 107		
17	Max. working pressure		bar 13,3						designed mm 107		
18	Impeller type								Min. mm 107		
19	Impeller design					Flow			Nominal m³/h 31,5 ( 31,5 )		
20	Head H(Q=0)		m 130						Max- m³/h 39,2		
21	Weight		kg 21			Head			Min- m³/h		
									Nominal m 90		
									at Qmax m 62		
									at Qmin m 134,5		
						Shaft power			kW 10,4 ( 10,4 )		
						Max. shaft power			kW 10,7		
						Efficiency			% 74,39		
						NPSH 3%			m 3,3		
<b>Materials</b>											
22	<b>Pump</b>										
23	Bolts and screws		Stainless steel			Valve support			Stainless steel		
24	Cable guard		Stainless steel			Wear rings			Technopolymer PPO		
25	Coupling		Stainless steel								
26	Diffuser		Stainless steel								
27	Discharge head		Stainless steel								
28	Elastomers		EPDM								
29	impeller		Stainless steel								
30	Lower support		Stainless steel								
31	Shaft		Stainless steel								
32	Shaft sleeve and bushing		Tungsten carbide								
33	Spacer		Stainless steel								
34	Strainer		Stainless steel								
35	Thrust bearing		PTFE+Graphite								
37	Tie rod		Stainless steel								
36	Valve		Stainless steel								
38											
<b>Motor data</b>						<b>Cable</b>					
39	Manufacturer		FRANKLIN		Electric voltage		400V		Cable type		
40	Specific design		6" / 3~ submersible rewindable motor (50hz)						Cable cross section mm²		
41	Type		HFR 1102 D		Electric current		25,2 A		Environmental temperature °C 20		
42	Rated power		11 kW		Degree of protection		IP68		Cable length 0		
43	Speed		2880 1/min		Insulation class		Y				
44	Frame size		6								
45	Weight		0 kg								
<b>Base plate</b>						<b>Remarks:</b>					
46	Name										
47	Weight		kg								

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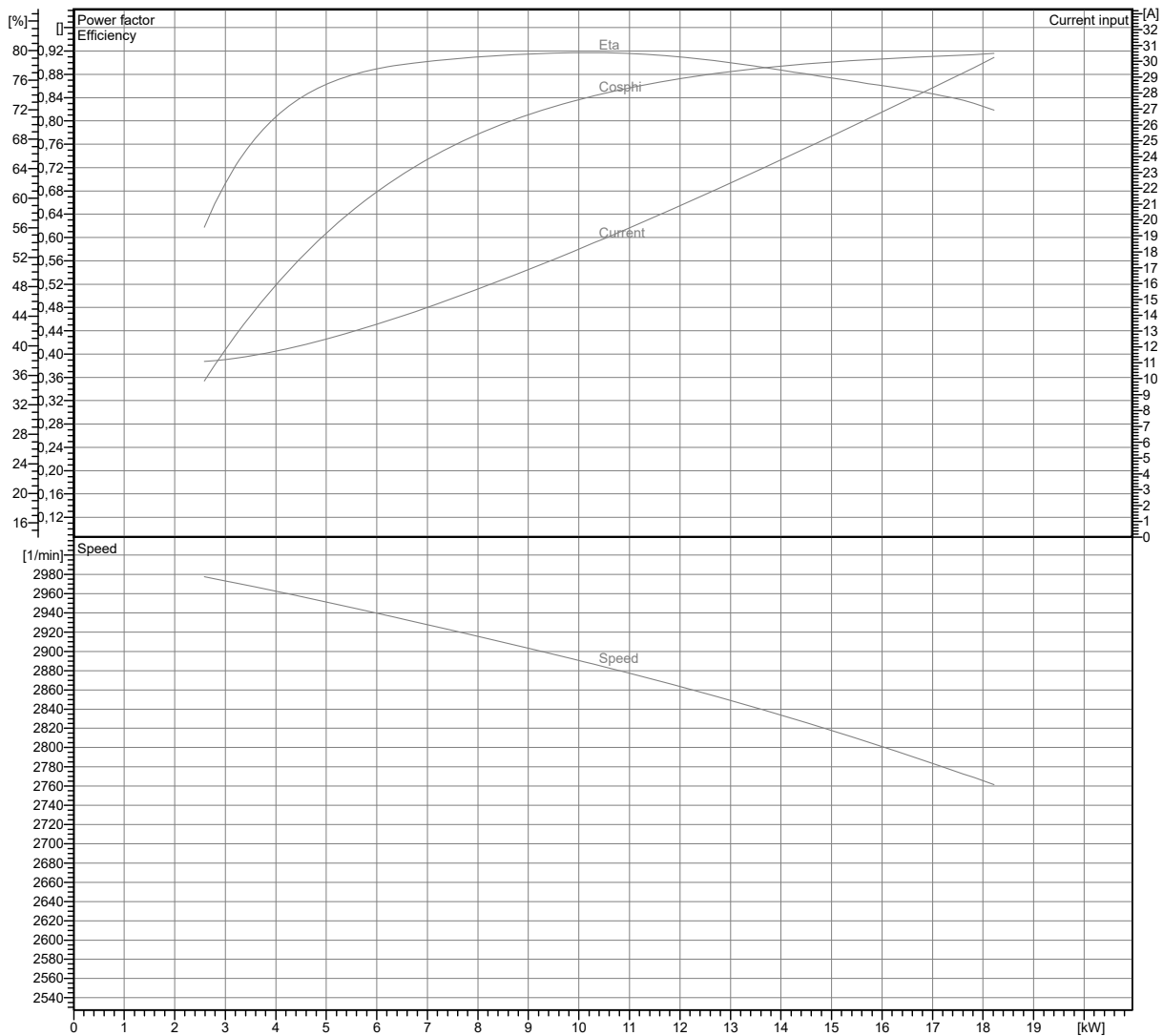
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<b>Operating Data Specification</b>	<b>Hydraulic data (duty point)</b>	<b>Impeller design</b>	
Flow Head Static head	31,5 m <sup>3</sup> /h 90 m 0 m	Flow Head Impeller R Frequency Speed	31,5 m <sup>3</sup> /h 90 m 107 mm 50 Hz 2900 1/min

Power datas referred to:  
 Water [100%]; 4°C; 1kg/dm<sup>3</sup>; 1,57mm<sup>2</sup>/s  
 Performance according to ISO 9906 - Annex A



## HFR 1102 D

Manufacturer	FRANKLIN			Phase	3~	Frequency	50
Rated power	11 kW			Rated current	25,2 A	No. of poles	2
Voltage (min, rated, max)	380 V	400V	415 V	Frame size	6	Insulation class	Y
Speed	2880 1/min						
Load (%)	125 / 100 / 75 / 50 / 25						
Efficiency	77,6/79,6/79,3/76,7/58,7						



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### Dimensions

mm

L	1642					Suction side / PN
LM	723					
LP	919					
O D 1 Cable	144					Discharge side Rp 3" / PN 0
O D 2 Cable	146					
						Weight 21 kg

