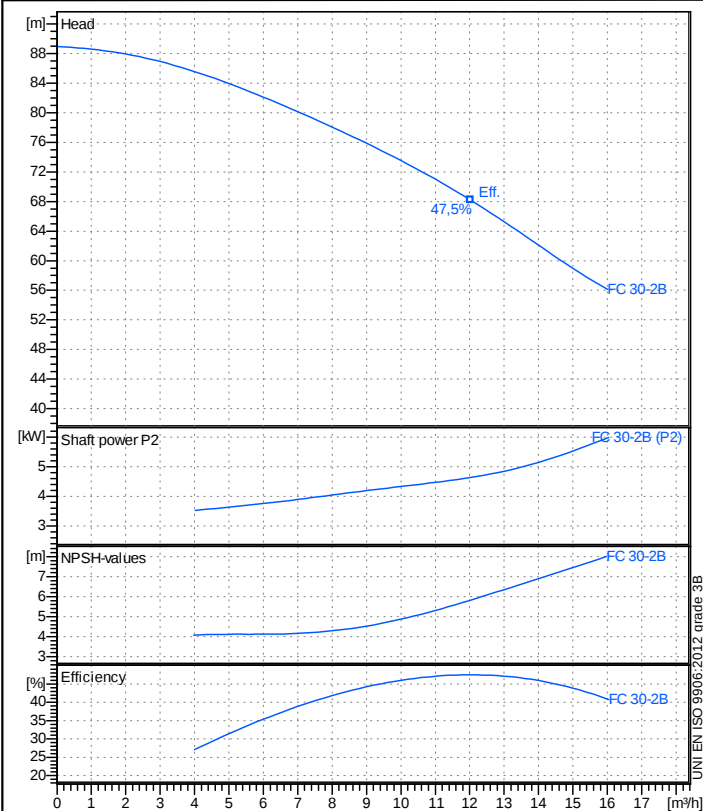


		Product description FC 30-2B		Revision no 	Page: 1
		Receiver		From	
Company name Respons. Department Person in charge Phone number Fax no E-mail address		 		 	
Item	Quant.	Description			
	1	SERIES FC ELECTRIC CENTRIFUGAL PUMPS WITH TWO OPPOSITE IMPELLERS FC 30-2B APPLICATIONS Industrial water supply , pressurized water using pressure vessels (autoclaves), horticultural and agricultural irrigation, civil and domestic water transfer applications. PUMP CONSTRUCTION Pump body and motor support in cast iron. Rotor shaft fitted with seal for life bearings Totally enclosed fan cooled motor (TEFC) Mechanical seal:Q1VEG (SiC/AIO/EPDM) IMPELLER Impeller material:Brass Inlet: G1½" Outlet: G1¼" INPUT DATA Q=0 m³/h H=0 m OUTPUT DATA AT 2850 1/min Q= - Qmax=16,013 m³/h H= Liquid quality required clean or slightly dirty water, chemically non aggressive. Temperature of the pumped liquid: from -15°C up to +70°C Max operation pressure (max allowed pressure in consideration of the sum of max. suction pressure and of the head with null flow rate): 10 bar Max environment temperature: 40°C (for higher temperature, please, verify). INSTALLATION Pump may be installed with the motor shaft in the horizontal or vertical position. In the case of the pump being mounted in the vertical position the motor must be positioned above the pump body . MOTOR 5,5 kW -230 V-50 Hz-1~ Insulation class:: F - Protection: IP 55 Poles n.: 2 PERFORMANCE TOLERANCES Pumps: UNI EN ISO 9906: 2012- Grade 3B.			
Subtotal:					
Total price excl. VAT		VAT in %		Total price incl. VAT	
0,00 Euro		16		0,00 Euro	
Project	Project ID		Created by	Created on	Last update
				2016-02-26	

Receiver

From

Company name
Respons. Department
Person in charge
Phone number
Fax no
E-mail address



Operating data specification

Nominal flow	m³/h 0
Nominal head	m 0
Static head	m 0
NPSH - v value of plant	m 0
Inlet pressure	psi 1,42
Fluid	Water, pure
Operating temperature t A	°C 20
Density at t A	kg/dm³ 0,9983
Kin. viscosity at t A	mm²/s 1,005

Pump

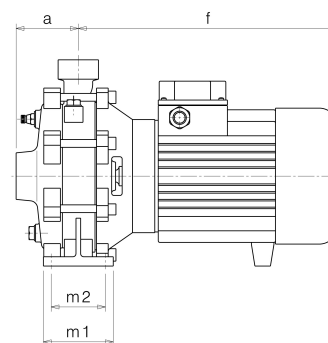
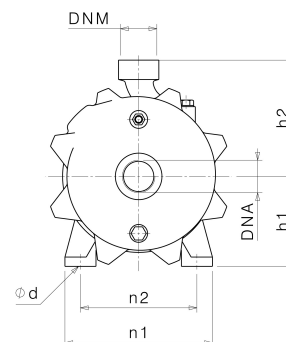
Pump name	FC 30-2B		
Size			
Design			
Speed 1/min	2850	No of stages	2
Impeller type			
Flow	Nominal	m³/h	
	Max-	m³/h	16
	Min-	m³/h	0
Head	Nominal	m	
	Max-	m	89
	Min-	m	56,1
Head H(Q=0)	m	89	
NPSH 3%	m		
Max. working pressure	psi	126	
Shaft power	kW		
Efficiency	%		
Max absorbed power	kW	5,982	

Materials Pump

Shaft	Stainless steel AISI 431 (1.4057)		
Impeller	Brass		
Pump body	Cast iron EN-GJL-200		
Support	Aluminium		
OR	NBR Rubber		
Mechanical seal	Q1VEG (SiC/AIO/EPDM)		
Motor	Frame size	132 S	
Manufacturer / Type	SAER	132 S 2 - 5,5 3~	
Rated power	kW	5,5	Efficiency 4/4 0 %
Electric current	A		Speed 1/min 2950
Electric voltage	V	230 V	1~ Hz 50
Starting mode	Unknown		
Degree of protection	IP 55	Insulation class	F

Dimensions in mm

a 91
DNA G 1 1/2"
DNM G 1 1/4"
f 396
h1 132
h2 170
m1 100
m2 70
n1 240
n2 170
ød 14



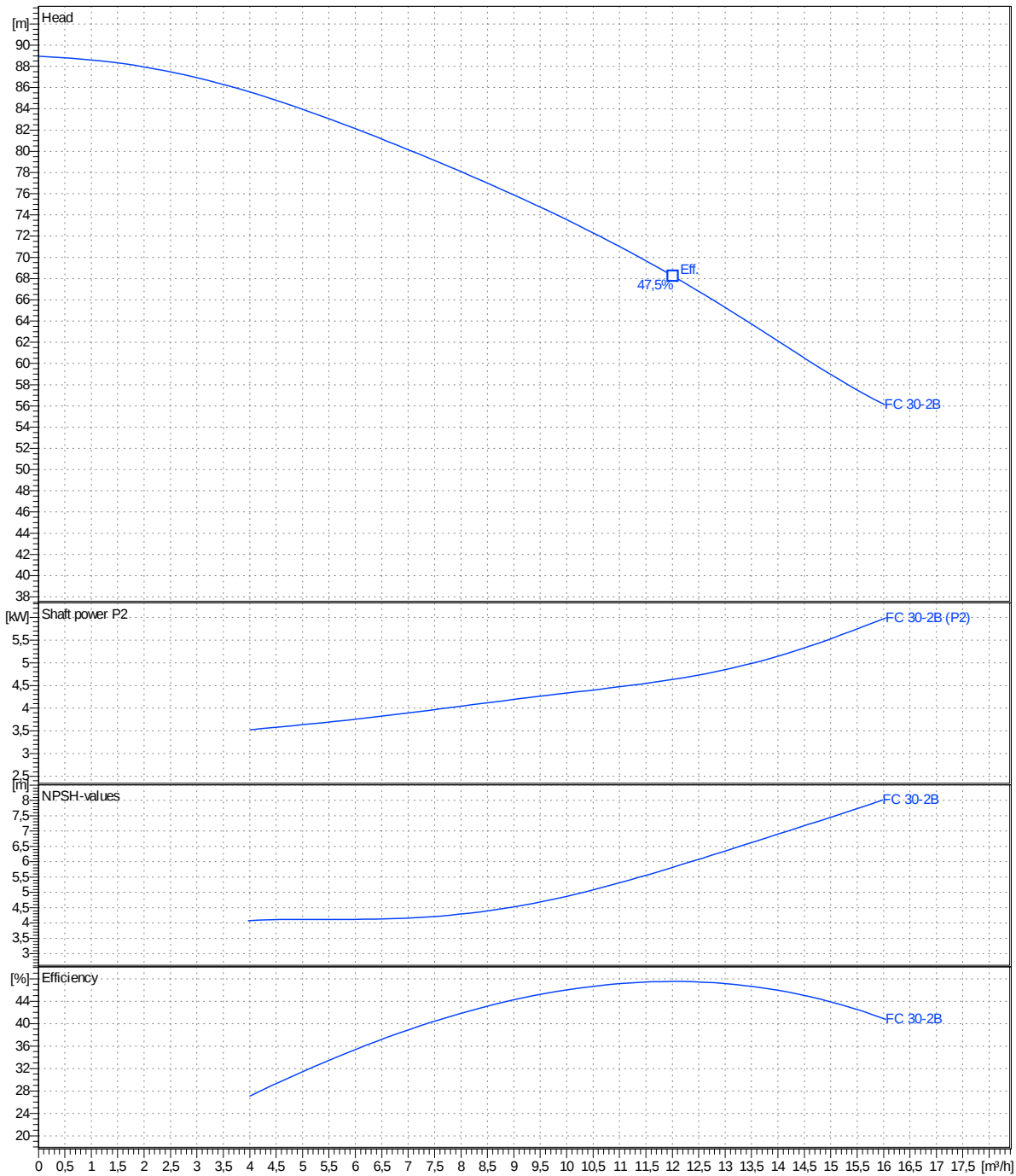
Remarks:

Project	Project ID	Created by	Created on 2016-02-26	Last update
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		Performance curves FC 30-2B			Revision no 		Page: 3		
		Receiver			From				
Company name Respons. Department Person in charge Phone number Fax no E-mail address									
Operating area		Flow		Head		Impeller type			
Operating data specification		0 m³/h		0 m		Impeller construction			
Pump data		m³/h		m		Sense of rotation		Clockwise from the drive end	
						Outlet width		G1¼"	
		Flow		Head		Shaft power P2		Speed 1/min 2850	
		Min.	Max.	η _{Max.}	H(Q=0)	η _{Max.}	P2(Q=0)	Max.	η _{Max.}
		m³/h	m³/h	m³/h	m	m	kW	kW	kW
		0	16	12	89	68,2	5,98	4,64	
						Frequency		Hz 50 Hz	

Performance data based to: Water, pure [100%] ; 20°C; 0,998kg/dm³; 1mm²/s

UNI EN ISO 9906:2012 - Grade 3B



The graphs show the performance characteristics of the FC 30-2B pump. The top graph plots Head (m) against Flow (m³/h), showing a decreasing curve from approximately 89m at 0 m³/h to 56m at 16 m³/h. A point on the curve is marked with an efficiency of 47.5%. The second graph shows Shaft power P2 (kW) increasing from about 3.5 kW at 4 m³/h to 5.98 kW at 16 m³/h. The third graph shows NPSH-values (m) increasing from 4m at 4 m³/h to 8m at 16 m³/h. The bottom graph shows Efficiency (%) peaking at approximately 47.5% around 12 m³/h.

Project	Project ID	Created by	Created on 2016-02-26	Last update
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