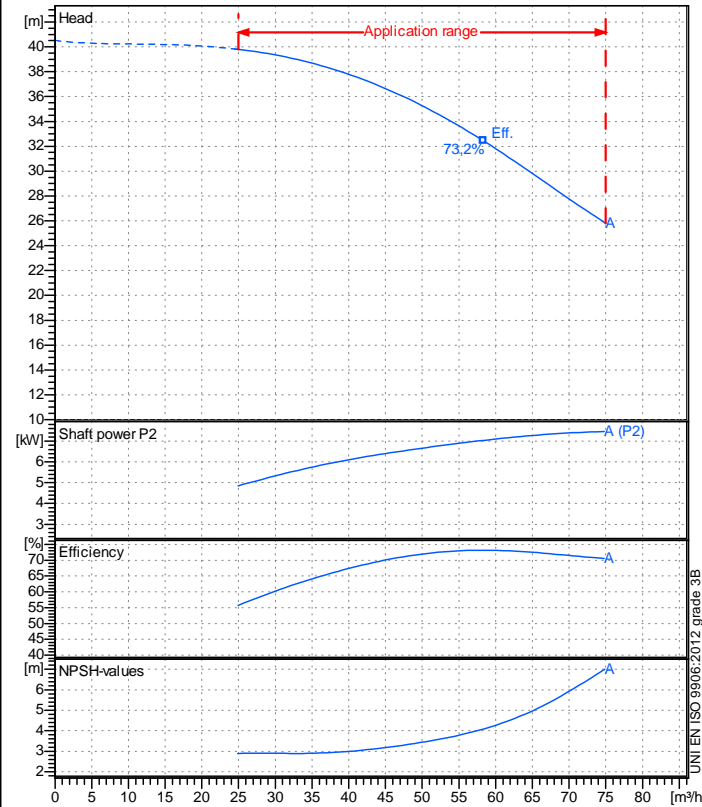
		<b>Product description</b> <b>IR50-160A</b>		Revision no	Page: 1
		Receiver		From	
Company name Respons. Department Person in charge Phone number Fax no E-mail address					
Item	Quant.	Description			
1	1	<p><b>SERIES IR</b></p> <p><b>CLOSE COUPLED END-SUCTION ELECTRICPUMPS-2900 1/min</b></p> <p>IR50-160A</p> <p>USES</p> <p>Recircling plants, heating, air conditioning, heat recovery, plants of water supply procurement, pressurising units.</p> <p>CONSTRUCTIVE CHARACTERISTICS</p> <p>The motor unit and the rotating part of the pump can be taken away without removing the pump body from the system piping.</p> <p>Hydraulics: pump body with dimension and performances according to EN 733 rules, closed impeller dynamically balanced and with balance holes for the balancing of the axial thrust. Shaft completely in stainless steel.</p> <p>IMPELLER</p> <p>Impeller material: Cast iron EN-GJL-250          Shaft material: Stainless steel AISI 431 (1.4057)          Impeller diameter: 174 mm</p> <p>FLANGES</p> <p>TYPE : UNI EN 1092-2</p> <p>- Outlet : DN 50          - Inlet : DN 65</p> <p>Flangie (UNI EN 1092-2): fino a DN 150: PN16, da DN 200: PN10.</p> <p>INPUT DATA</p> <p>Q=0 m<sup>3</sup>/h          H=0 m</p> <p>OUTPUT DATA AT 2900 1/min</p> <p>Q= - Qmax=75 m<sup>3</sup>/h          H=</p> <p>Absorbed power - duty point P2=          Max absorbed power P2max=7,462 kW          Temperature of the pumped liquid: from -15°C up to +120°C          Max operation pressure (max allowed pressure in consideration of the sum of max. suction pressure and of the head with null flow rate): PN10 (upon request PN16)          Max environment temperature: 40°C (for higher temperature, please, verify).</p> <p>MOTOR</p> <p>7,5 kW -400 V-50 Hz-3~          Motor efficiency: 0 %          Insulation class:: F - Protection: IP 55          Poles n.: 2</p> <p>INSTALLATION AND OPERATION CHARACTERISTICS</p> <p>The IR and 6IR pumps can be positioned with horizontal, sloping or vertical axis always with the motor upwards (please, verify with our technical dep.). The operating characteristics of the catalogue and label are to be understood for continuous service and with clear water (specific weight = 1000 kg/m<sup>3</sup>) with a max manometric suction height of approximately 1,5 m. For higher manometric heights and up to a max of approximately 6 m, the characteristics decrease in the various delivery data.</p> <p>ACCESSORIES ON REQUEST</p> <p>Kit counterflanges</p> <p>PERFORMANCE TOLERANCES</p> <p>Pumps: UNI EN ISO 9906: 2012- Grade 3B, other levels on request.</p>			
		<b>Subtotal:</b>			
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	
			2016-03-04		

Receiver

From

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

**Operating data specification**

Nominal flow	m <sup>3</sup> /h 0
Nominal head	m 0
Static head	m 0
NPSH - v value of plant	m 0
Inlet pressure	bar 0,09793
Fluid	Water, pure
Operating temperature t A	°C 20
Density at t A	kg/dm <sup>3</sup> 0,9983
Kin. viscosity at t A	mm <sup>2</sup> /s 1,005

**Pump**

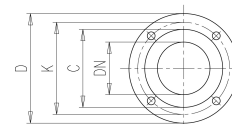
Pump name		IR50-160A	
Size		65/50/160	
Design			
Speed	1/min 2900	No of stages	1
Impeller type			
Flow	Nominal		m <sup>3</sup> /h
	Max-		m <sup>3</sup> /h 75
	Min-		m <sup>3</sup> /h 25
Head	Nominal		m
	Max-		m 39,8
	Min-		m 25,8
Head H(Q=0)			m 40,5
NPSH 3%			m
Max. working pressure			bar 3,97
Shaft power			kW
Efficiency			%
Max absorbed power			kW 7,4598

**Materials Pump**

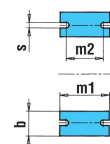
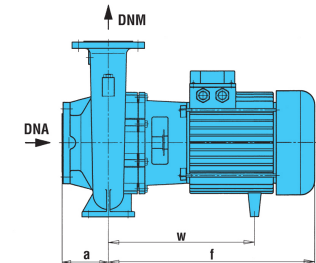
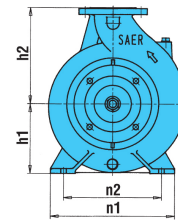
Shaft	Stainless steel AISI 431 (1.4057)		
Impeller	Cast iron EN-GJL-250		
Pump body	Cast iron EN-GJL-250		
Seal disc	Cast iron EN-GJL-250		
Gasket	Natural fiber		
Mechanical seal	BVEG (Grafite/Ossido Allumina/EPDM)		

**Dimensions in mm**

a	100
b	50
DNA	65
DNM	50
f	423,5
h1	160
h2	180
m1	100
m2	70
n1	265
n2	212
s	14
w	305



C	102	C	122
D	165	D	185
DN	50	DN	65
K	125	K	145
n°	4	n°	4
ø	19	ø	19



<b>Motor</b>	Frame size	112 M		
Manufacturer / Type	SAER	112 M 2 - 7,5		
Rated power	kW 7,5	Efficiency 4/4	0 %	
Electric current	A	Speed	1/min 2950	
Electric voltage	V 400 V	3~	Hz 50	
Starting mode	Unknown			
Degree of protection	IP 55	Insulation class	F	

Remarks:

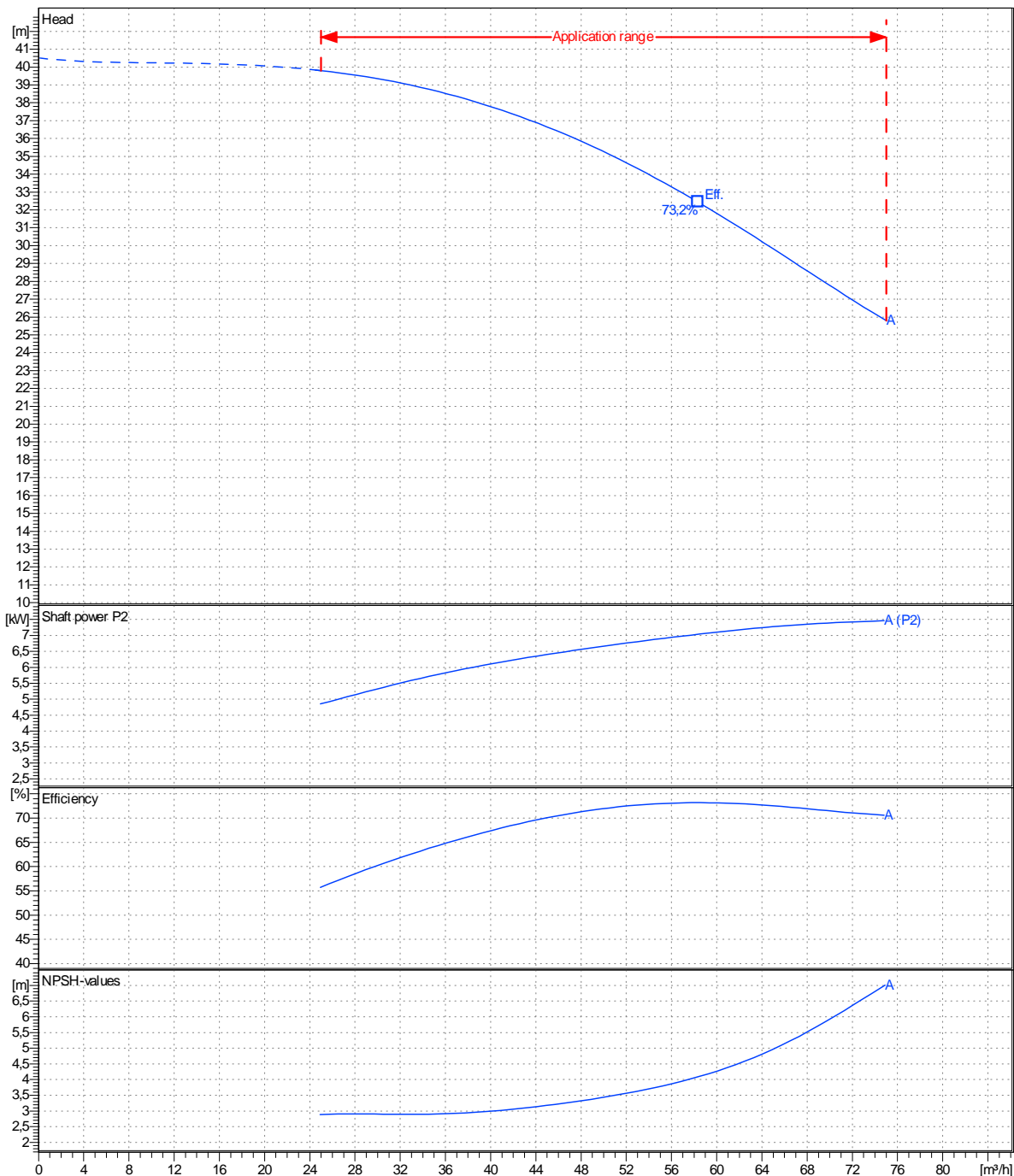
Project	Project ID	Created by	Created on <b>2016-03-04</b>	Last update
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<b>Receiver</b>	<b>From</b>
Company name	
Respons. Department	
Person in charge	
Phone number	
Fax no	
E-mail address	

Operating area	Flow	Head	Impeller type
Operating data specification	0 m <sup>3</sup> /h	0 m	Impeller construction: Closed
Pump data	m <sup>3</sup> /h	m	Sense of rotation: Clockwise from the drive end
			Outlet width: DN 50
	Flow	Head	Shaft power P2
	Min. Max. $\eta$ Max.	H(Q=0) $\eta$ Max.	P2(Q=0) Max. $\eta$ Max.
	m <sup>3</sup> /h m <sup>3</sup> /h m <sup>3</sup> /h	m m	kW kW kW
	25 75 58,3	40,5 32,4	7,46 7,04
			Speed: 1/min 2900
			Frequency: Hz 50 Hz

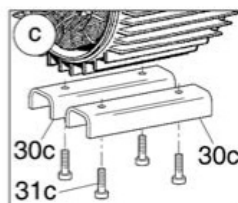
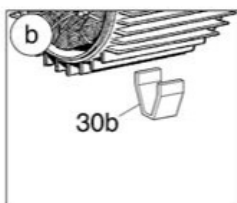
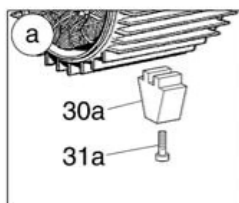
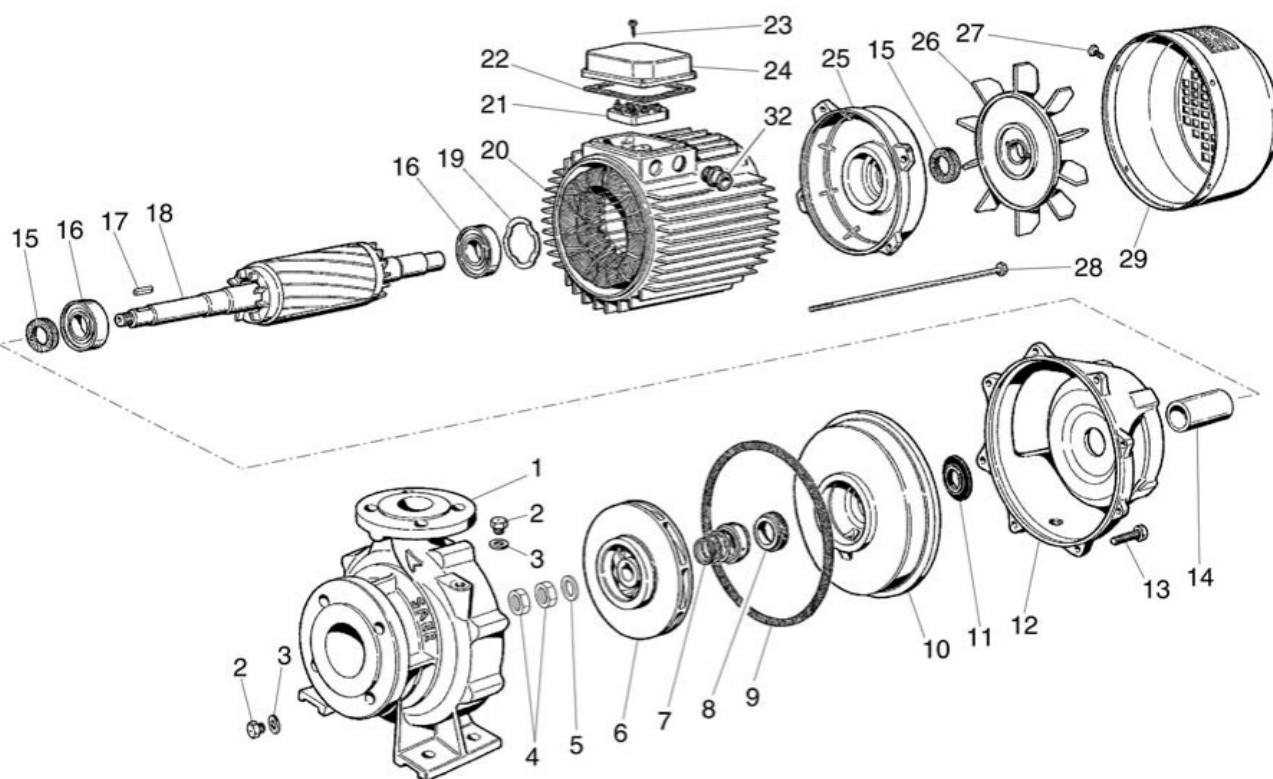
 Performance data based to: Water, pure [100%]; 20°C; 0,998kg/dm<sup>3</sup>; 1mm<sup>2</sup>/s

UNI EN ISO 9906:2012 - Grade 3B



Project	Project ID	Created by	Created on <b>2016-03-04</b>	Last update
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Company name  
Respons. Department  
Person in charge  
Phone number  
Fax no  
E-mail address



Project

Project ID

Created by

Created on  
**2016-03-04**

Last update