Product description

Revision no

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Company name	
Respons. Department	
Person in charge	
Phone number	
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Pos.no	Qty.	Description
19		**0,4**
19.1	1	Centrifugal pump: IR65-200NA CLOSE-COUPLED END-SUCTION ELECTRIC PUMPS 3000 1/min IR65-200NA DESCRIPTION Close-coupled electric pump with axial suction and pump body with normalized dimensions according to EN733 Pumps and motors according to Directive 2009/125/CE (ErP). USES Suitables for recirculation, heating and heat recovery system, water supply facilities, pressurisation groups MEI index according to EU Regulation 547/2012 MEI > 0,4 CONSTRUCTIVE CHARACTERISTICS Back pull out design: the motor group and the rotating part of the pump, can be removed without having to remove the pump body from the piping of the plant Hydraulics: pump body with dimensions and performances according to EN733 standard (for the sizes covered), dynamically balanced closed impeller and balacing holes for balacing the axial thrust. All stainless steel shaft IMPELLER Impeller material: Cast iron EN-GJL-250 Impeller diameter: 215 mm Shaft material: Stainless steel AISI 431 (1.4057) FLANGES TYPE: UNI EN 1092-1/2/UNI EN 1092-2 - Outlet: DN 65 - Suction: DN 80 Flanges PN: up to DN 150: PN16, from DN 200: PN10. MOTOR Type: SAER MT2 - IE3 - 180-2P-40 , made in Italy Nominal power: 30 kW Voltage / Frequency / N. phases: 400 V / 50 Hz / 3~ Poles: 2 Motor efficiency: 93.3 % Efficiency class according to IEC 60034-30: IE3 Insulation class: F Protection: IP 55 COATING Two-component epoxy coating suitable for contact with drinking water. Resistance to the corrosion corresponding to the cycle C3 durability medium according to EN12944-6 (on request cycle C5 durability medium) REQUESTED DATA Q= H= CHARACTERISTIC DATA AT 3000 1/min Q= - Qmax=164.9 m³/h H= Power requested at the duty point P2= Max power requested along the curve P2max=28.08 kW Temperature of the pumped liquid: from -15°C up to +90°C (+120°C on request) Maximum working pressure (maximum pressure allowable considering the sum of the maximum pressure in suction and of the head at shut off): PN10 (on request PN16) Max environment temperature: 40°C (for higher temperature, please, verify). INSTALLATION AND OPERATION CHARACTERISTICS The pumps series IR and IR4P can be positioned with horizontal axis, inclined or vertical as well but always with motor upward (vertical installation with motor upward allowed up to frame size 160 included. Contact SAER technical assistance for further information). The working features of this technical data sheet, the catalog and the plate are intended for continuous service and clean water (specific weight = 1000 kg/m3, kinematic viscosity = 1 mm2/s, temperature = 20°C) ACCESSORIES ON REQUEST Kit counterflanges PERFORMANCE TOLERANCES Pumps: UNI EN ISO 9906: 2012- Grade 3B, other levels on request. Motors: IEC 60034-1

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SAER ELETTROPOMPE

Technical data
IR65-200NA

Revision no

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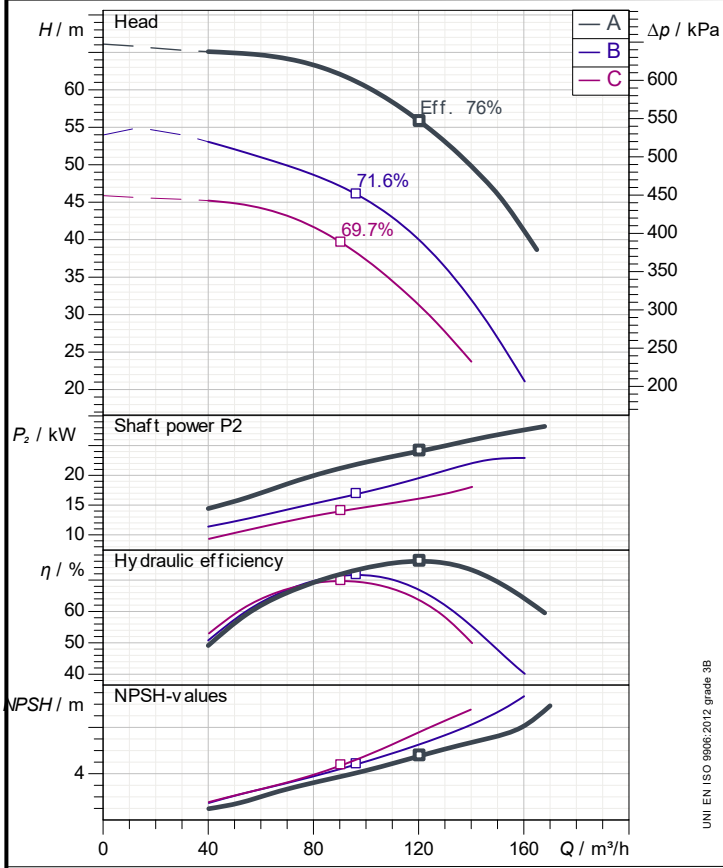


Operating data specification

Nominal flow	m³/h	
Nominal head	m	
Static head	m	
NPSH - value of plant	m	
Inlet pressure	kPa	0
Fluid	Water	
Operating temperature t A	°C	20
Density at t A	kg/m³	998.3
Kin. viscosity at t A	mm²/s	1.005

Pump

Pump name		IR65-200NA		
Size		80/65/200		
MEI (Reg. 547/2002 EU) >		0,4		
Speed 1/min	3000	No of stages	1	
Impeller type				
Flow	Nominal	m³/h		
	Max-	m³/h	165	
	Min-	m³/h	40	
Head	Nominal	m		
	Max-	m	65.1	
	Min-	m	38.7	
Head H(Q=0)		m	66.1	
NPSH 3%		m		
Max working pressure		kPa	647	
Shaft power		kW		
Efficiency		%		
Max absorbed power		kW	28.232	

Materials Pump

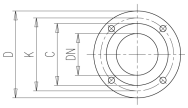
Shaft	Stainless steel AISI 431 (1.4057)
Impeller	Cast iron EN-GJL-250
Pump body	Cast iron EN-GJL-250
Seal disc	Cast iron EN-GJL-250
Gasket	Aramidic fiber
Mech. seal EN 12756	
Seal face	Silicon carbide
Seat	Alumina oxide
Rubber elements	Rubber EPDM
Spring and metal bellows	Stainless steel AISI 316 (1.4401)

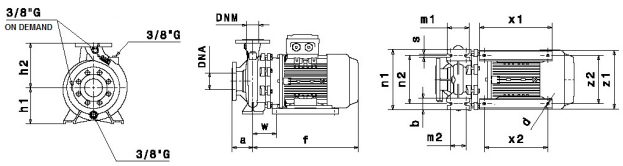
Motor	Manufacturer / Type		SAER 180-2P-40		
Efficiency	IEC 60034-30		IE3		
Rated power	kW	30 SF 1	Efficiency 4/4		93.3 %
Number of poles		2	Frame size		180
Electric current	A	52.5 A	Speed	1/min	2962
Electric voltage	V	400 V	3~	Hz	50
Starting mode		Unknown			
Degree of protection		IP 55	Insulation class		F

Dimensions in mm

a	100	z2	279
b	65		
d	14		
f	731		
h1	180		
h2	225		
m1	125		
m2	95		
n1	320		
n2	250		
s	14		
w	225		
x1	321		
x2	0.863		
z1	359		

DNM		DNA	
C	122	C	138
D	185	D	200
DN	65	DN	80
K	145	K	160
n°	4 x 18	n°	8 x 18 r





Remarks:

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Performance curves
IR65-200NA

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Receiver	From
Company name	
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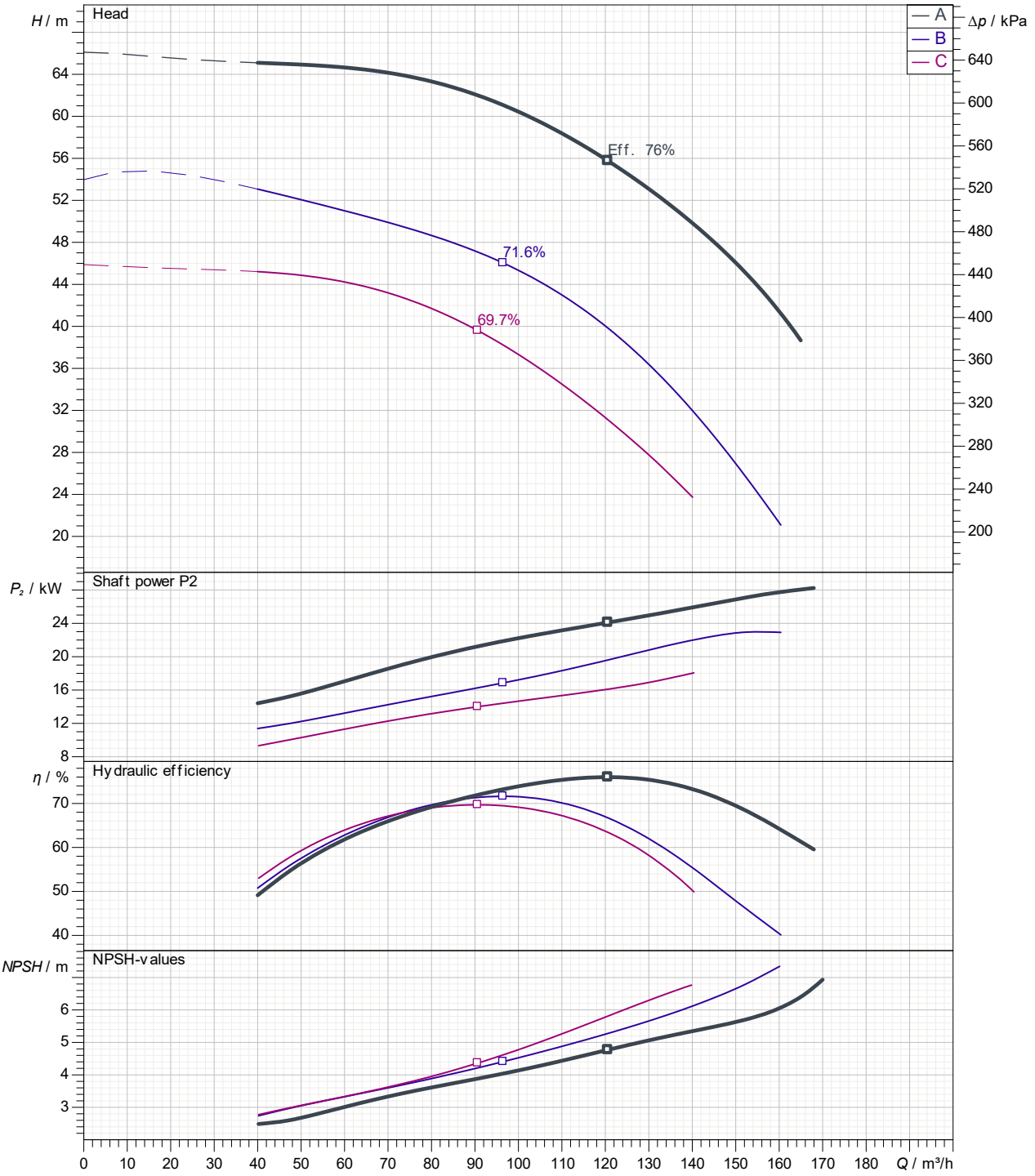
Operating area	Flow	Head
Operating data specification	m³/h	m
Pump data	m³/h	m

	Flow			Head		Shaft power P2		
	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
	40	165	121	66.1	55.8	14.4	28.2	24.1

Impeller type	
Impeller construction	Closed
Sense of rotation	Clockwise from the drive end
Outlet width	DN65
Speed 1/min	3000
Frequency Hz	50 Hz

Performance data based to: Water; 20°C; 998.3kg/m³; 1.005mm²/s

UNI EN ISO 9906:2012 - Grade 3B



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SAER ELETTROPOMPE

Revision no

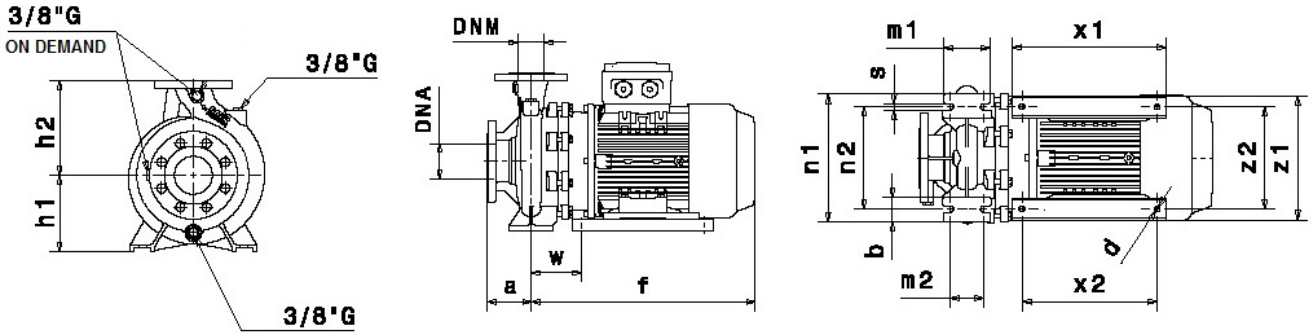
Type of installation

IR65-200NA

Receiver

From

Pump dimensions



Disegni dimensionali e immagini non vincolanti.Saer si riserva il diritto di effettuare cambiamenti senza alcun preavviso.
Dimensional drawing and picture are not binding.Saer reserves the right to make changes without prior notice.

Connections

Suction side	Discharge port
DN80	DN65
PN10/16	PN10/16

Dimensions in mm

a	100		
b	65		
d	14		
f	731		
h1	180		
h2	225		
m1	125		
m2	95		
n1	320		
n2	250		
s	14		
w	225		
x1	321		
x2	0.8638		
z1	359		
z2	279		

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