



Product description

Revision no

Page:

1

Receiver

From

Company name

Respons. Department

Person in charge

Phone number

Fax no

E-mail address

Pos.no

Qty.

Description

1

0,4

1.1

1

Centrifugal pump: IR32-200NA

CLOSE-COUPLED END-SUCTION ELECTRIC PUMPS
3000 1/min
IR32-200NA

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

Suitable 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 balancing holes for balancing the axial thrust. All stainless steel shaft

IMPELLER

Impeller material: Cast iron EN-GJL-250
Impeller diameter: 219 mm
Shaft material: Stainless steel AISI 431 (1.4057)

FLANGES

TYPE: UNI EN 1092-1/2
- Outlet: DN 32
- Suction: DN 50
Flanges PN: up to DN 150: PN16, from DN 200: PN10.

MOTOR

Type: SAER MT2 - IE3 - 132-2P-10, made in Italy
Nominal power: 7.5 kW
Voltage / Frequency / N. phases: 400 V / 50 Hz / 3-
Poles: 2
Motor efficiency: 90.7 %
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=34.99 m³/h
H=
Power requested at the duty point P2=
Max power requested along the curve P2max=8.042 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

MAIN_PROJECT_TITLE

BUSINESS_PROCESS_ID

OWNER_

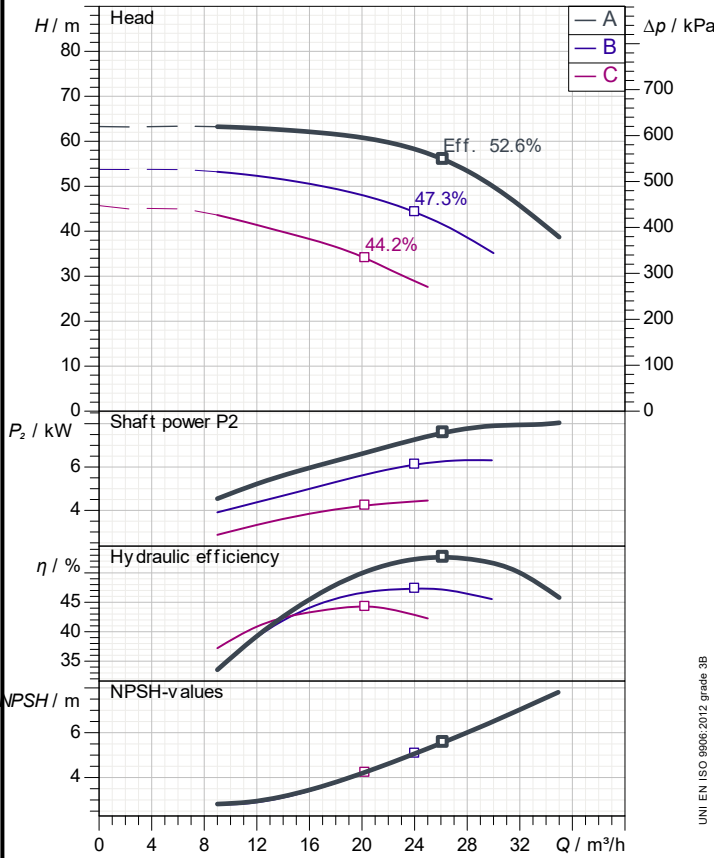
ISSUE_DATE

2024-10-01

LAST_MODI_DATE

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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	IR32-200NA			
Size	50/32/200			
MEI (Reg. 547/2002 EU) >	0,4			
Speed	1/min	3000	No of stages	1
Impeller type				
Flow	Nominal	m³/h		
	Max-	m³/h	35	
	Min-	m³/h	9	
Head	Nominal	m		
	Max-	m	63.2	
	Min-	m	38.7	
Head H(Q=0)	m 63.3			
NPSH 3%	m			
Max working pressure	kPa 620			
Shaft power	kW			
Efficiency	%			
Max absorbed power	kW 8.0604			

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	Aramid 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 132-2P-10
Efficiency	IEC 60034-30 IE3
Rated power	kW 7.5 SF 1 Efficiency 4/4 90.7 %
Number of poles	2 Frame size 132
Electric current	A 14.4 A Speed 1/min 2949
Electric voltage	V 400 V 3~ Hz 50
Starting mode	Unknown
Degree of protection	IP 55 Insulation class F

Dimensions in mm

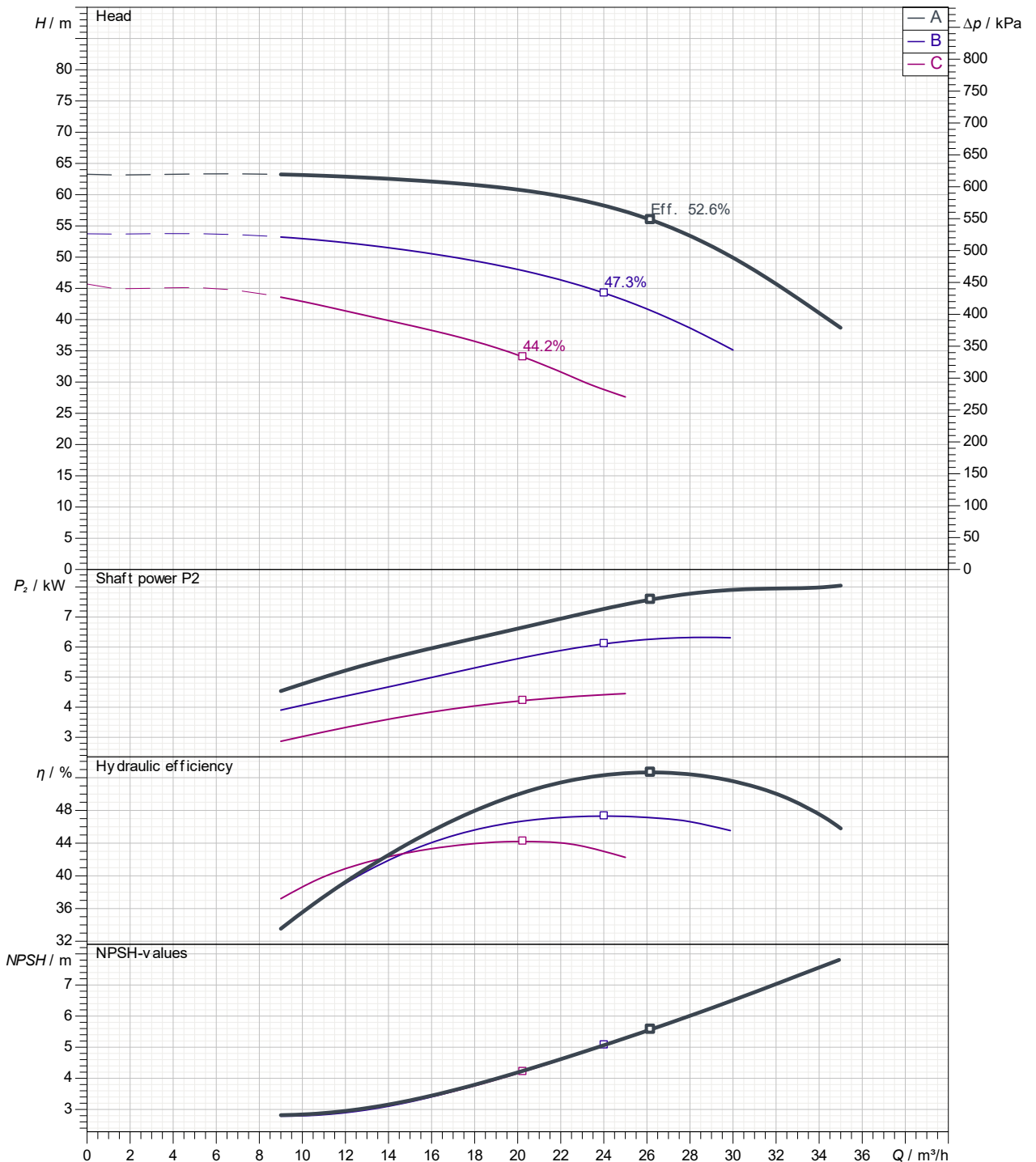
a	80	z1	261	DNM	DNA
b	50	z2	216	C	78 C 102
d	12	D	140	D	165
f	505	DN	32	DN	50
h1	160	K	100	K	125
h2	180	n°	4 x 18	n°	4 x 18 r
m1	100				
m2	70				
n1	240				
n2	190				
s	14				
w	304				
w	109				
x1	320				
x2	280				

Remarks:				
MAIN_PROJECT_TITLE	BUSINESS_PROCESS_ID	OWNER_	ISSUE_DATE 2024-10-01	LAST_MODI_DATE 2024-10-01

Company name Respons. Department Person in charge Phone number Fax no E-mail address	Receiver	From
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Operating area	Flow	Head	Impeller type
Operating data specification	m ³ /h	m	Impeller construction
Pump data	m ³ /h	m	Sense of rotation
			Outlet width
			Speed
			Frequency

Performance data based to: Water; 20°C; 998.3kg/m³; 1.005mm²/s UNI EN ISO 9906:2012 - Grade 3B



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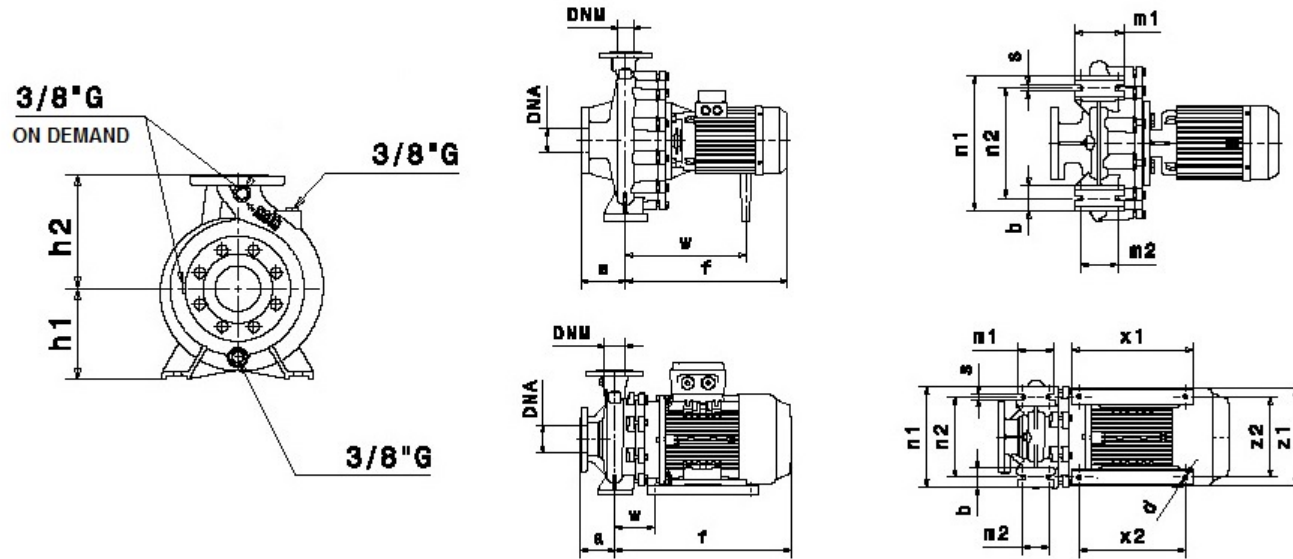
Pump dimensions

Connections

Suction side	Discharge port
DN50	DN32
PN10/16	PN10/16

Dimensions in mm

a	80
b	50
d	12
f	505
h1	160
h2	180
m1	100
m2	70
n1	240
n2	190
s	14
w	304
w	109
x1	320
x2	280
z1	261
z2	216



Disegni dimensionali e immagini non vincolanti. Saer si riserva il diritto di effettuare cambiamenti senza alcun preavviso.
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