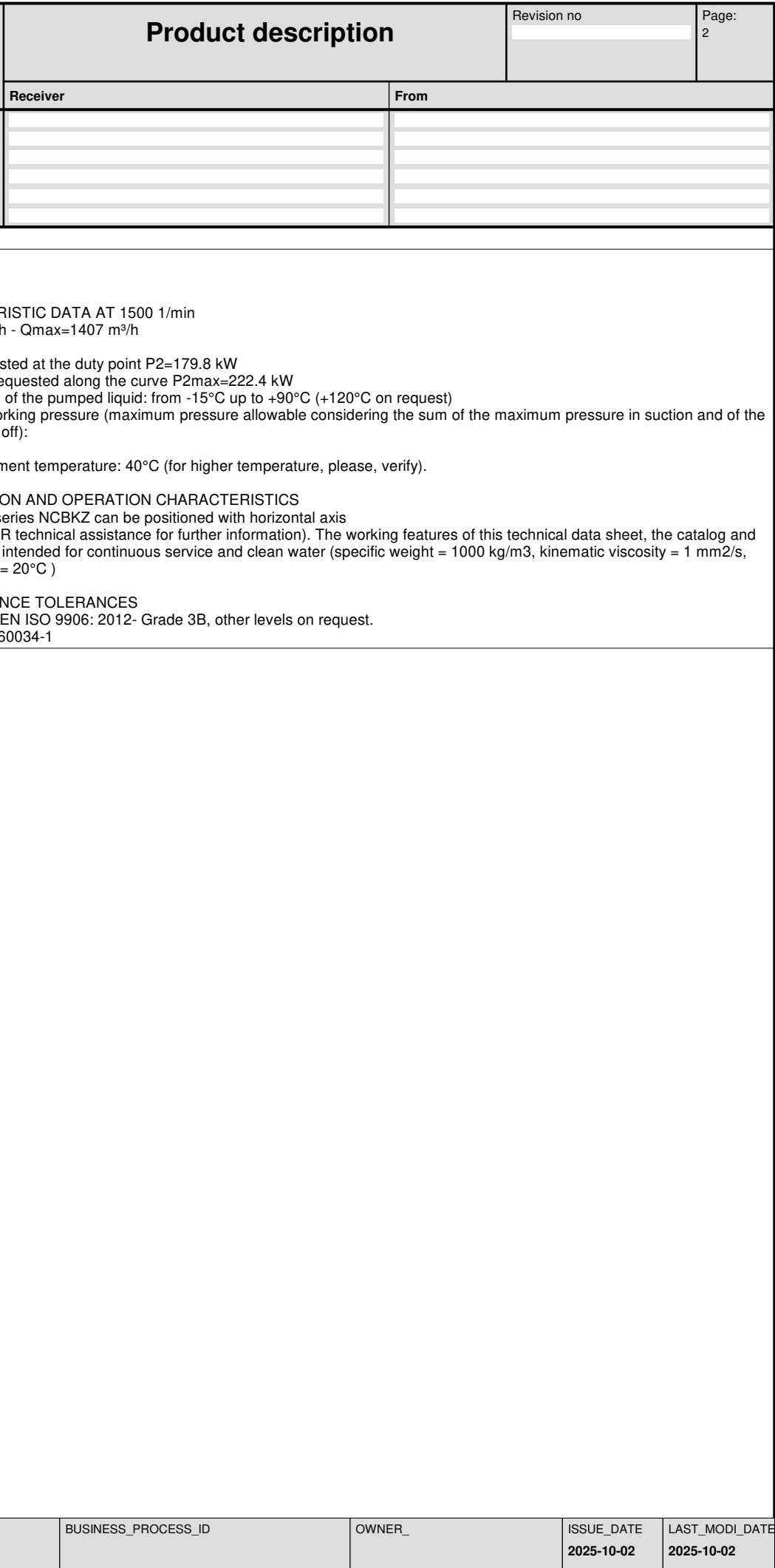


		Product description		Revision no 	Page: 1	
Receiver		From				
Company name Respons. Department Person in charge Phone number Fax no E-mail address						
Pos.no	Qty.	Description				
1		N.A.				
1.1	1	Centrifugal pump: NCBKZ4P-250-500CD NORMALIZED CENTRIFUGAL ELECTRIC PUMPS 1500 1/min NCBKZ4P-250-500CD DESCRIPTION Complete electric pump with elastic coupling and base, with axial suction and pump body with dimensions exceeding EN733 standard, suitable for recirculation plant, heating, heat recovery, water supply systems, pressurization groups. Made in Italy USES Recirculation, heating, air conditioning, heat recovery, water supply systems, pressurization groups. 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. (spacer coupling needed and supplied upon request) Hydraulics: Dynamically balanced closed impeller and balancing holes for balancing the axial thrust. Wear rings included as standard. All stainless steel shaft. IMPELLER Impeller material: Stainless steel AISI 316 (1.4408-CF8M) Impeller diameter: 455 mm Shaft material: Stainless steel AISI 431 (1.4057) SEALS Seal type: Soft packing Seals materials: PTFE Fiber FLANGES TYPE: UNI EN 1092-1/2 - Outlet: DN 250 - Suction: DN 300 Flanges PN: PN16 (Standard) PUMP OPTIONS Design pressure: PN16 (Standard) Coating: Painting cycles C3 Durability medium (Standard) Drinking water certified version: No (Standard) Wear rings: Bronze CuSn10 (CC480K) Additional pump options #1: Without (Standard) Additional pump options #2: Without (Standard) MOTOR Type: IEC 60034-30 IE3 - 355M-340 Nominal power: 250 kW Voltage / Frequency / N. phases: 400 V / 50 Hz / 3~ Poles: 4 Motor efficiency: 96 % Efficiency class according to IEC 60034-30: IE3 Insulation class: F Protection: IP 55 Motor origin: Purchased motor The data may vary according to the brand of the motor supplied For suitability for use with VFD for supply voltage up to 500V, add insulated bearing, for voltage above 500V please contact SAER MOTOR OPTIONS Motor protection: Without (Standard) Additional motor protection: Without (Standard) Additional motor options #1: Without (Standard) Additional motor options #2: Without (Standard) Additional motor options #3: Without (Standard) PTC standard Motor condensate drain hole standard COATING PUMP AND MOTOR Coating: Painting cycles C3 Durability medium (Standard) BASE AND COUPLING SAER Cataphoresis epoxy coating REQUESTED DATA				
MAIN_PROJECT_TITLE		BUSINESS_PROCESS_ID		OWNER_	ISSUE_DATE	LAST_MODI_DATE
					2025-10-02	2025-10-02

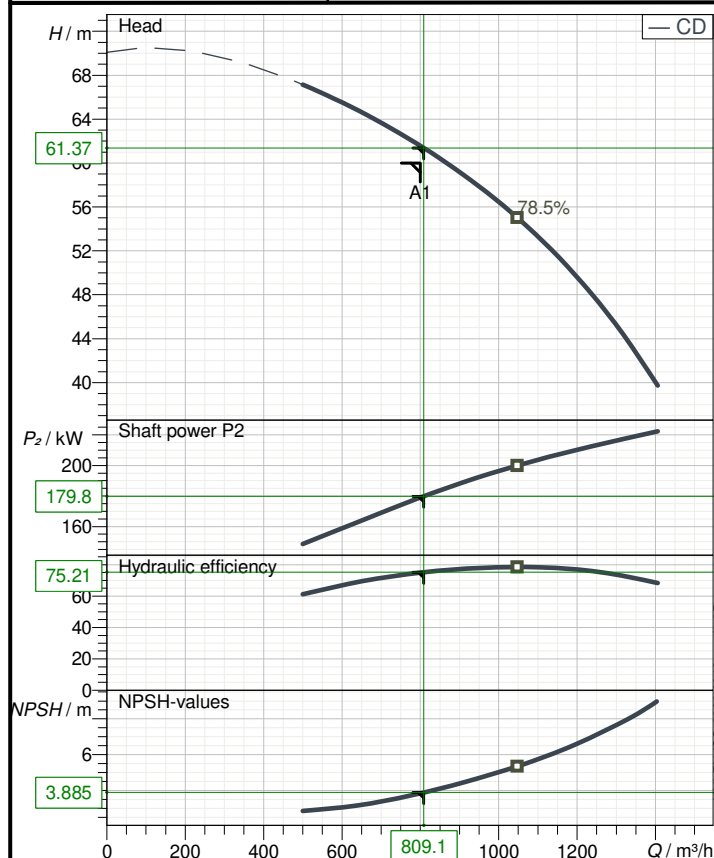


	Summary NCBKZ4P-250-500CD		Revision no 	Page: 3																		
	Receiver	From																				
Company name Respons. Department Person in charge Phone number Fax no E-mail address	<table border="1"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>																					
Pump NCBKZ4P-250-500CD Required flow m³/h 800 Required head m 60 Flow m³/h 809 Head m 61.4 Impeller size ø 455 Materials NCBK-1 <table border="0"> <tr> <td>Shaft</td> <td>Stainless steel AISI 431 (1.4057)</td> <td>Standard</td> </tr> <tr> <td>Impeller</td> <td>Stainless steel AISI 316 (1.4408-CF8M)</td> <td></td> </tr> <tr> <td>Pump body</td> <td>Cast iron EN-GJL-250</td> <td>Standard</td> </tr> <tr> <td>Seal disc</td> <td>Cast iron EN-GJL-250</td> <td>Standard</td> </tr> <tr> <td>Gasket</td> <td>Aramid fiber</td> <td>Standard</td> </tr> <tr> <td>Bearing frame</td> <td>Cast iron EN-GJL-250</td> <td>Standard</td> </tr> </table> Soft packing PTFE Fiber Additional pump options Design pressure PN16 (Standard) Coating Painting cycles C3 Durability medium (Standard) Drinking water certified version No (Standard) Wear rings Bronze CuSn10 (CC480K) Additional pump options #1 Without (Standard) Additional pump options #2 Without (Standard) Motor Frame size 355 Rated power kW 250 Frequency Hz 50 Electric voltage V 400 V Efficiency Class IEC 60034-30 IE3 Additional motor options Motor protection Without (Standard) Additional motor protection Without (Standard) Additional motor options #1 Without (Standard) Additional motor options #2 Without (Standard) Additional motor options #3 Without (Standard) Notes:					Shaft	Stainless steel AISI 431 (1.4057)	Standard	Impeller	Stainless steel AISI 316 (1.4408-CF8M)		Pump body	Cast iron EN-GJL-250	Standard	Seal disc	Cast iron EN-GJL-250	Standard	Gasket	Aramid fiber	Standard	Bearing frame	Cast iron EN-GJL-250	Standard
Shaft	Stainless steel AISI 431 (1.4057)	Standard																				
Impeller	Stainless steel AISI 316 (1.4408-CF8M)																					
Pump body	Cast iron EN-GJL-250	Standard																				
Seal disc	Cast iron EN-GJL-250	Standard																				
Gasket	Aramid fiber	Standard																				
Bearing frame	Cast iron EN-GJL-250	Standard																				
MAIN_PROJECT_TITLE		BUSINESS_PROCESS_ID	OWNER_	ISSUE_DATE 2025-10-02	LAST_MODI_DATE 2025-10-02																	

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

Receiver

From



Operating data specification

Nominal flow	m ³ /h	800
Nominal head	m	60
Static head	m	0
NPSH - value of plant	m	
Inlet pressure	kPa	0
Fluid	Water	
Operating temperature t A	°C	20
Density at t A	kg/m ³	998.3
Kin. viscosity at t A	mm ² /s	1.005

Pump

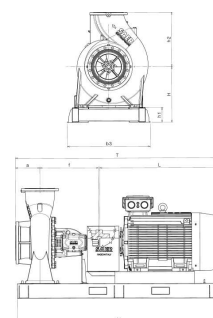
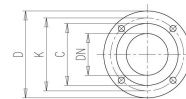
Pump name		NCBKZ4P-250-500CD	
Size 300/250/500		Weight	
MEI (Reg. 547/2002 EU) >		N.A.	
Speed 1/min	1500	No of stages	1
Impeller type			
Flow	Nominal	m³/h	809
	Max-	m³/h	1410
	Min-	m³/h	500
Head	Nominal	m	61.4
	Max-	m	67.1
	Min-	m	39.7
Head H(Q=0)		m	70.1
NPSH 3%		m	3.89
Max. working pressure		kPa	686
Shaft power		kW	180
Efficiency		%	75.2
Max absorbed power		kW	222.35

Materials Pump

Shaft	Stainless steel AISI 431 (1.4057)				
Impeller	Stainless steel AISI 316 (1.4408-CF8M)				
Pump body	Cast iron EN-GJL-250				
Seal disc	Cast iron EN-GJL-250				
Gasket	Aramidic fiber				
Bearing frame	Cast iron EN-GJL-250				
Wearing rings	Bronze CuSn10 (CC480K)				
Soft packing					
Packing	PTFE Fiber				
Motor	Manufacturer / Type		ND 355M-340		
Efficiency	IEC 60034-30		IE3		
Rated power kW	250	SF 1	Efficiency 4/4	96 %	
Number of poles	4		Frame size	355	
Electric current A	435 A		Speed 1/min	1491	
Electric voltage V	400 V		3~	Hz	50
Starting mode	Unknown				
Degree of protection	IP 55		Insulation class		F

Dimensions in mm

Dimensions in mm		DNM		DNA	
a	225	C	319	C	370
f	720	D	395	D	460
L	1469	DN	250	DN	300
T	2429	K	350	K	410
l1	2450	n°	12 x 28	n°	12 x 28
H	634				
h1	184				
h2	670				
b3	1020				



Remarks:

MAIN_PROJECT_TITLE	BUSINESS_PROCESS_ID	OWNER_	ISSUE_DATE	LAST_MODI_DATE
			2025-10-02	2025-10-02

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

800 m³/h

60 m

Impeller construction

Closed

Pump data

809 m³/h

61.4 m

Sense of rotation

Clockwise from the drive end

Outlet width

DN250

Flow

Head

Shaft power P2

Speed

1/min

1500

Min.

Max.

 η Max.

H(Q=0)

 η Max.

P2(Q=0)

Max.

 η Max.

Frequency

Hz

50 Hz

m³/h

m³/h

m³/h

m

m

kW

kW

kW

500

1410

1050

70.1

55

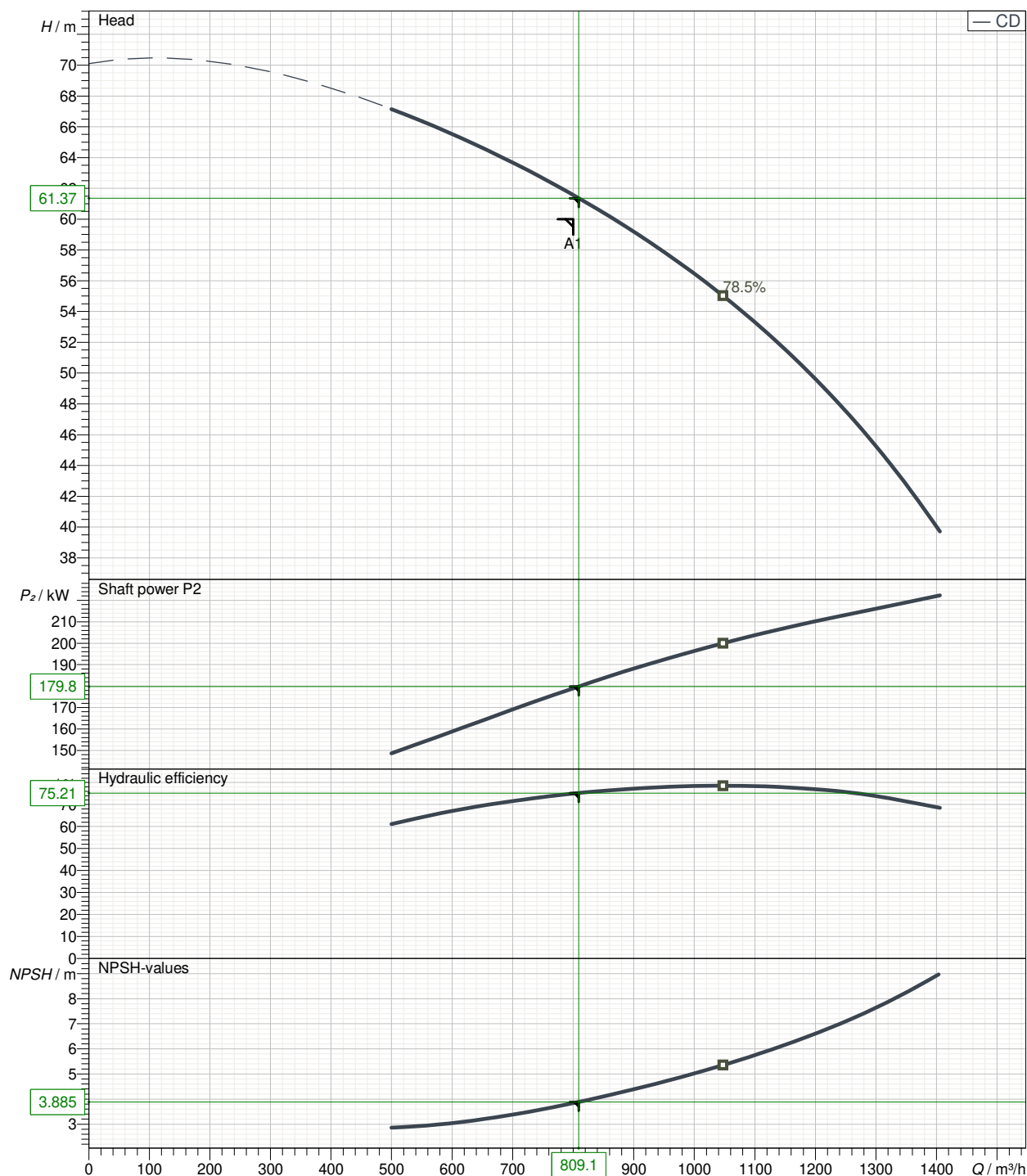
149

222

200

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

UNI EN ISO 9906:2012 - Grade 3B



MAIN_PROJECT_TITLE

BUSINESS_PROCESS_ID

OWNER_

ISSUE_DATE

2025-10-02

LAST_MODI_DATE

2025-10-02



Type of installation
NCBKZ4P-250-500CD

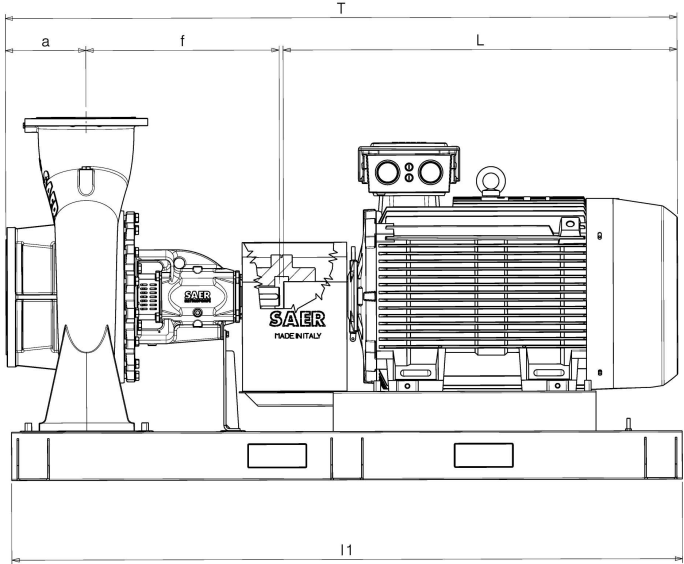
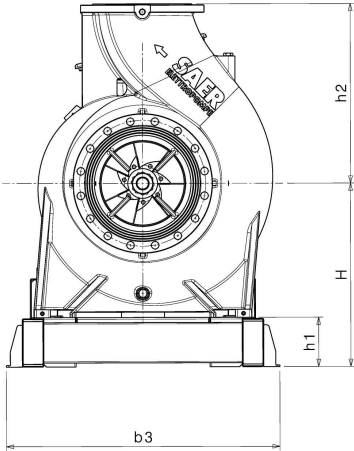
Receiver

From

Page:
6

Revision no

Pump dimensions



Connections

Suction side	Discharge port
DN300	DN250
PN16	PN16

Dimensions in mm

a	225
f	720
L	1469
T	2429
l1	2450
H	634
h1	184
h2	670
b3	1020

Dimensional warning, weight and picture are not binding. Saer reserves the right to make changes without prior notice.

MAIN_PROJECT_TITLE

BUSINESS_PROCESS_ID

OWNER_

ISSUE_DATE
2025-10-02

LAST_MODI_DATE
2025-10-02

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

Receiver

From

Operating data specification		Data			Unit
Model		MT4 355M 250kW / 340HP			
Frame		355M			
Mounting		B3			
Rated power	Pn	250			kW
Rated voltage		400			V
Rated frequency		50			Hz
Rated speed	n	1490			
Service factor		1			
Rated current	In	435			A
Service factor current		-			A
Nominal motor torque		Tn 1601.2			Nm
Thermal class / Temperature rise		F / B			
Starting current	Is/In	6.4			
Locked rotor torque		Ti/Tn 2.1			
Max. torque		Tm/Tn 2.9			
Efficiency Class IEC 60034-30		IE3 = Premium Efficiency			
Efficiency	η	50%	75%	100%	%
		95.6	96	96	
Power factor	cos φ	0.86			
Sound pressure level LpA - 1 m		78			dBA
Type of duty		S1			
Cooling		IC411			
Degree of protection		IP 55			
Ambient temperature		40			°C
Max. installation site elevation		1000			
Moment of inertia J		5.9			kg m²
Bearing design		Radial ball bearing with greaser			
Bearing type		DE: 6222/C3 / NDE: 6219/C3			
Sense of rotation		CW / CCW			
Terminal box position		At top			
Cable entry (Number x hole type)		-			
Weight		1445			kg

Power loss/Rated power at different speed-torque operating points							
25%-25%	25%-100%	50%-25%	50%-50%	50%-100%	90%-50%	90%-100%	
88.1	90.6	91.2	93.9	94.2	94.6	95.6	%
MAIN_PROJECT_TITLE		BUSINESS_PROCESS_ID		OWNER_		ISSUE_DATE 2025-10-02	LAST_MODI_DAT 2025-10-02