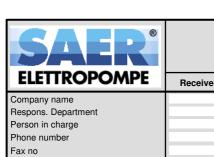
SAER			Product des	scription	Revision no	Page:
ELET	TROP	OMPE	Receiver	From		
Company Respons. Person in Phone nu Fax no E-mail ad	Department charge mber	t				
Pos.no	Qty.	Description	•	<u>'</u>		
		O,4  Centrifugal pun CLOSE-COUPI 3000 1/min IR100-200A  DESCRIPTION Close-coupled of Pumps and mo  USES Suitables for re MEI index acco MEI > 0,4  CONSTRUCTI Back pull out do of the plant Hydraulics: pun impeller and ba  IMPELLER Impeller diamet Shaft material:  FLANGES TYPE: UNI EN - Outlet: DN 10 - Suction: DN 1 Flanges PN: 16  MOTOR Type: SAER M Nominal power Voltage / Frequ Poles: 2 Motor efficiency Efficiency class Insulation class Protection: IP 5 Motor origin: S/  COATING Two-componen Resistance to ti  REQUESTED I Q=270 m³/h H=50 m  CHARACTERIS Q=276 m³/h - CH=52.24 m Power requeste Max power requeste	lelectric pump with axial suction and pump body witors according to Directive 2009/125/CE (ErP).  circulation, heating and heat recovery system, was reding to EU Regulation 547/2012  VE CHARACTERISTICS esign: the motor group and the rotating part of the mp body with dimensions and performances accordacing holes for balacing the axial thrust. All stainlest 219 mm  Stainless steel AISI 431 (1.4057)  1092-1/2 0 25 3  T2 - IE3 - 250-2P-75 : 55 kW lency / N. phases: 400 V / 50 Hz / 3~  y: 94.7 % s according to IEC 60034-30: IE3 :: F :55 AER Made in Italy	water.  water.  willity medium according to EN12  0°C on request)  dering the sum of the maximum	it having to remove the pump e sizes covered), dynamically	balanced closed
		The pumps ser with motor upw Contact SAER intended for con	N AND OPERATION CHARACTERISTICS ies IR and IR4P can be positioned with horizontal ard allowed up to frame size 160 included. technical assistance for further information). The ntinuous service and clean water (specific weight S ON REQUEST	working features of this technic	cal data sheet, the catalog and	the plate are
		PERFORMANO	CE TOLERANCES N ISO 9906: 2012- Grade 3B, other levels on requ	est.		

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			2025-03-31	2025-03-31

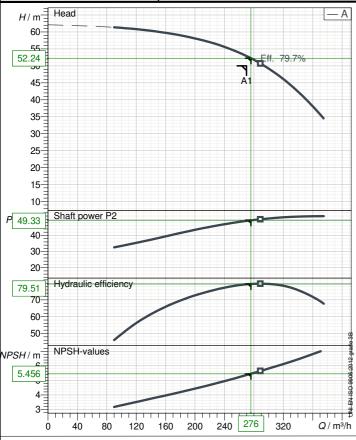


## **Technical data** IR100-200A

Revision no

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

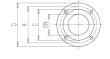


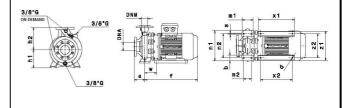
Operating data specification		
Nominal flow	m³/h	270
Nominal head	m	50
Static head	m	0
NPSH - value of plant	m	
Inlet pressure	kPa	0
Fluid	Wate	er
Operating temperature t A	°C	20
Density at t A	kg/m³	998.3
Kin. viscosity at t A	mm²/s	1 005

Kin. viscosity at t A		mm²/s	1.005	
Pump				
Pump name		IR100-200A		
Size		125/100/200		
MEI (Reg. 547/2002	2 EU) >	0,4		
Speed 1/min	3000	No of stages	1	
Impeller type				
	Nominal		m³/h	276
Flow	Max-		m³/h	375
	Min-		m³/h	90
	Nominal		m	52.2
Head	Max-		m	61.4
	Min-		m	34.5
Head H(Q=0)			m	62.1
NPSH 3%			m	5.46
Max. working press		kPa	608	
Shaft power			kW	49.3
Efficiency		%	79.5	
Max absorbed power	er		kW	51.948

Materials Pump							
Shaft			Stainless steel AISI 431 (1.4057)				
Impeller			Cast iron El	N-GJL-250			
Pump body			Ductile Cast	iron EN-GJS-	500		
Seal disc			Ductile Cast	iron EN-GJS-	500		
Gasket			Aramidic fib	er			
Mech. seal EN 12756	6						
Seal face			Silicon carbide				
Seat			Silicon carbide				
Rubber elements			Rubber FPM				
Spring and metal bell	ows		Stainless steel AISI 316 (1.4401)				
Motor	Manufad	cturer / -	Туре	SAER	250-2F	P-75	
Efficiency	IEC 600	34-30		IE3			
Rated power	kW	55	SF 1	Efficiency 4/	4	94.	7 %
Number of poles		2		Frame size		25	)
Electric current	А	94.4 A	1	Speed	1/min	29	30
Electric voltage	V	400 V		3~	Hz	50	
Starting mode Unkno			own				
Degree of protection		IP 55		Insulation cla	ass		F

Dimer	nsions in	mm				
а	125		DNM		DNA	
b	80		С	158	С	188
h2	280		D	220	D	250
m1	160		DN	100	DN	125
m2	120		K	180	K	210
n1	360		n°	8 x 18 mm	n°	8 x 18 mm
n2	280					
s	18					





Remarks:

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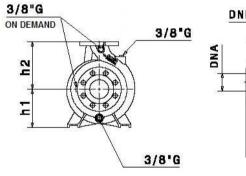
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Company name																
Respons. Departi Person in charge																
Phone number																
Fax no E-mail address										-						
Operating area				Flow		ı	Head		Impeller ty	/pe						
Operating data s	specificat	tion	270	) n	n³/h	50		m		onstruction	1	-	Closed			
Pump data			276	. n	n³/h	52.2		m	Sense of					e from the d	rive end	
Tamp data		Flow	270	Head			power P2		Outlet wid	ith			DN100	1/min	3000	
	Min.	Max.	η Max.	H(Q=0)	η Max.	P2(Q=0)	Max.	η Max.	Frequency	y				Hz		
	m³/h	m³/h	m³/h	m	m	kW	kW	kW								
	90	375	289	62.1	50.7	32.6	51.9	50								
Performance data	a based t	o: Wat	er; 20°C;	; 998.3kg/r	m³; 1.005	mm²/s							U	INI EN ISO 9	906:2012 - Gra	ade 3B
<i>H /</i> m	Head	l l													— A	
	1															
60																
56	. 🖠															
	4									<b>\</b>						
52.24										-	4	79.7°	%			
48	3									A1						
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8	1															
D / IAM	Shaf	t power P2	2													
49.33 45																
40	1															
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20																
15 79.51		aulic effici	ency													
79.51																
70																
65 60																
55																
50	1			/												
45 NBC//		H-values														
<i>NPSH /</i> m 6.5																
6	-											_				
5.456 5																
4.5	; <b>-</b>															
4 3.5																
	0 2	20 40	60	80 10	0 120	140	160 180	200	220 24	0 260 2	276 30		320 34	0 360 3	80 <i>Q</i> / m <sup>3</sup> /h	
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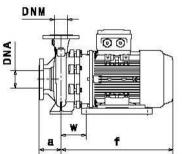


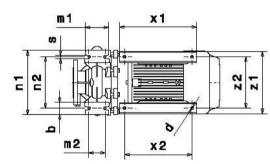
## Motor IR100-200A

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Pump dimensions



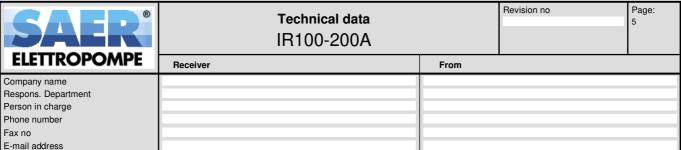




		Conne	ections				
	Suction side		Discharge por	rt			
so.	DN125		DN100				
avvi	PN10/16		PN10/16				
preavviso.							
otice	Dimensions in mm						

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Disegni dimensionali e immagini non vincolanti. Saer si riserva il diritto di effettuare ca



Operating data specification		Data	Unit
Туре		SAER MT2 - IE3	
Frame		250MC	
Mounting		Pump dimensions	
Rated power	Pn	55	kW
Rated voltage		400	V
Rated frequency		50	Hz
Rated speed	n	2980	
Service factor		1	
Rated current	In	94.4	A
Service factor current	Isf	-	A
Nominal motor torque	Tn	176.25	Nm
Thermal class / Temperature	rise	F/B	
Starting current	ls/In	8.9	
Locked rotor torque	Ti/Tn	1.5	
Max. torque	Tm/Tn	4	
Efficiency Class IEC 60034-30		IE3 = Premium Efficiency	
Efficiency	η	50% 75% 100%	
		94.1 94.8 94.7	%
Power factor	cos φ	0.89	
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		0.37546	kg m²
Bearing design		Radial ball bearing with greaser	
Bearing type		DE: 6314-Z / NDE: 6314-Z	
Sense of rotation		CW / CCW	
Terminal box position		At top	
Cable entry (Number x hole ty	pe)	2+1 x n°2 PG42 + n°1 PG9	
Weight		320	

## Power loss/Rated power at different speed-torque operating points

	25%-25%	25%-100%	50%-25%	50%-50%	50%-100%	90%-50%	90%-10	0%	
	1	4.6	1.6	2.5	5.5	4.1	7.5	7.5	
MAIN PROJECT TITLE		BLISINESS DROCESS ID		OWNER	1991	ISSUE DATE LAST			

2025-03-31

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