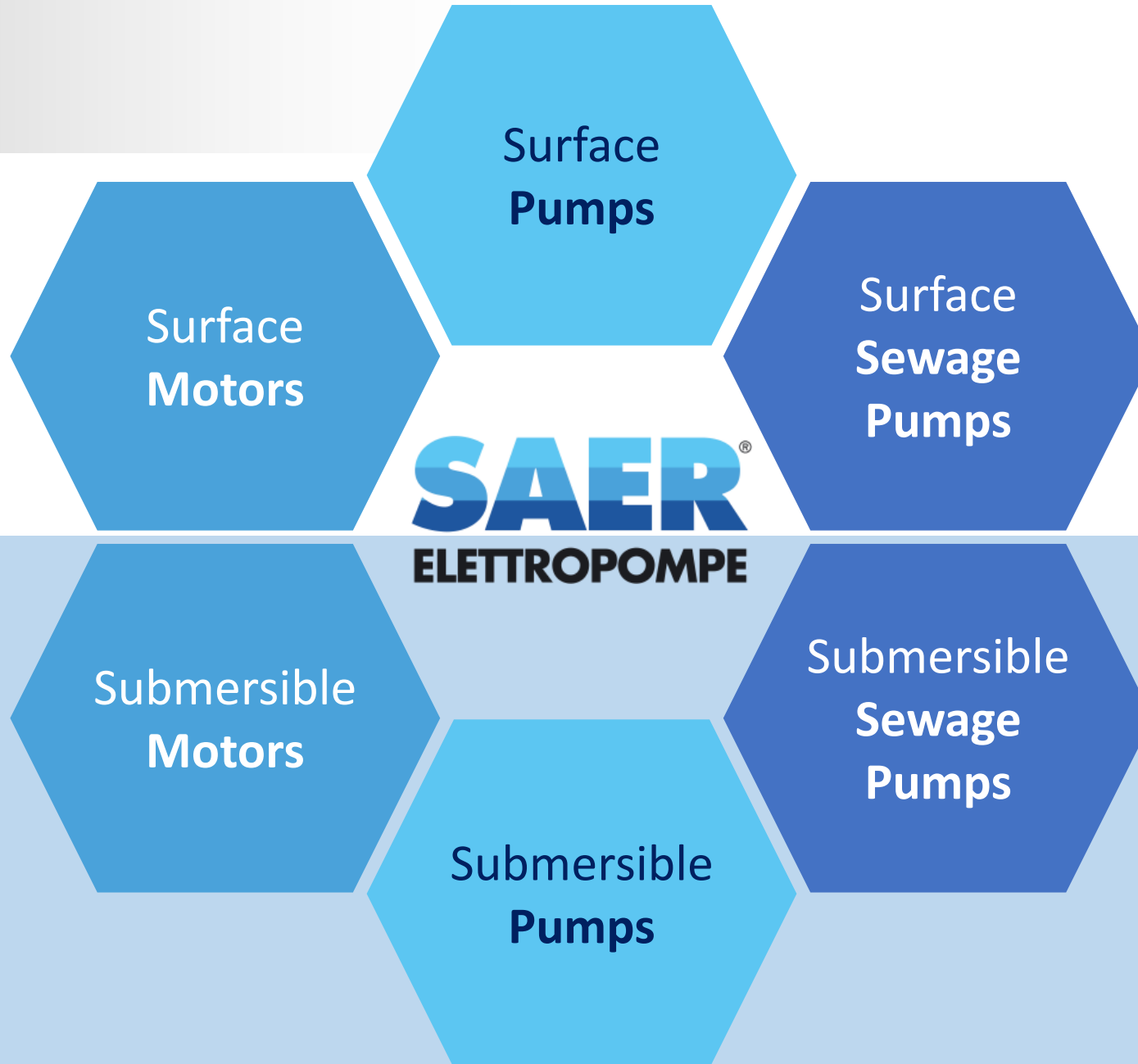




IR MG NCB NCBK – END SUCTION PUMPS

SAER

Production



HVAC
HVAC
HVAC



CIVIL
Civile
Civil



INDUSTRIAL
Industriale
Industrial



AGRICULTURE AND IRRIGATION
Agricoltura ed irrigazione
Agricultura y riego



UNDERGROUND EXTRACTION
Estrazione dal sottosuolo
Extracción del subsuelo



MINING
Minerario
Mineria



O&G
O&G
O&G



WATER TREATMENT
Trattamento acque
Tratamiento aguas

END SUCTION



MULTI-STAGE



IN-LINE



SPLIT CASE



DOMESTIC

Surface Pumps

Surface Motors

Surface Sewage Pumps



MOTORS



SAER
ELETTROPOMPE

SEWAGE

Submersible Motors

Submersible Sewage Pumps



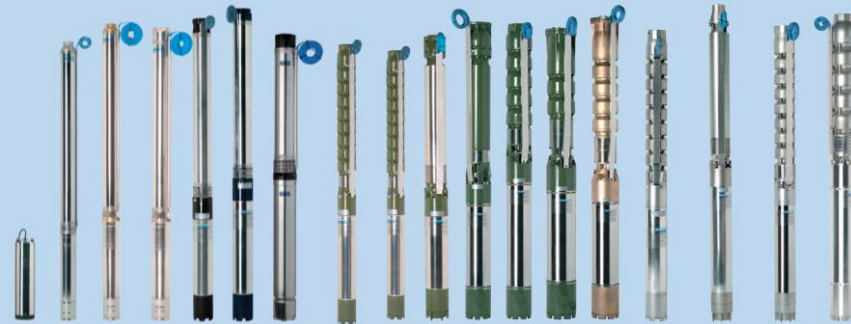
Submersible Pumps

INVERTER
PANELS
CABLE
ACCESSORIES



RADIAL

SEMI-AXIAL



RANGE

Coupling

IR



MG1



MG2



NCB



NCBK



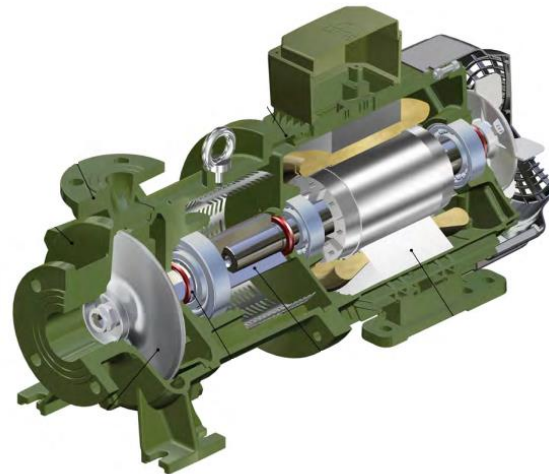
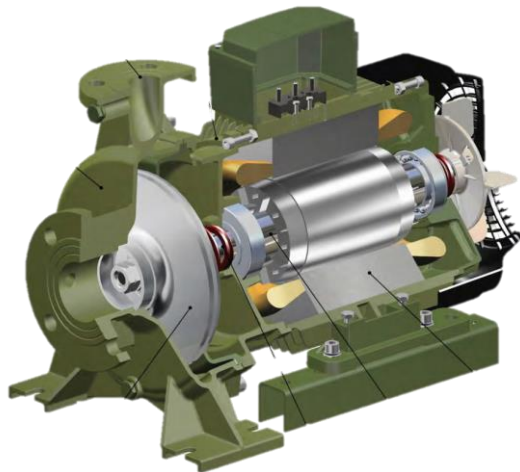
CLOSE-COUPLED

LONG-COUPLED

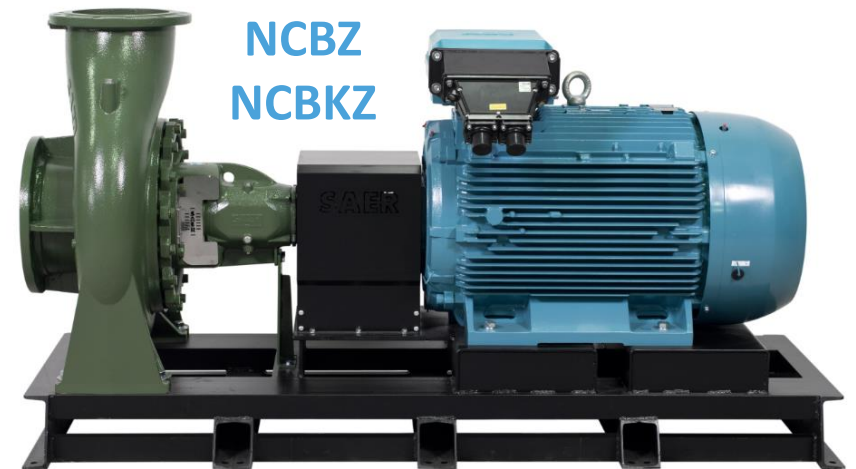
SINGLE SHAFT

STUB-SHAFT

Flexible coupling



NCBZ
NCBKZ



Performances

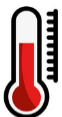
AND OPERATING LIMITS

50Hz



	6 poles – 1000 rpm	4 poles – 1500 rpm	2 poles – 3000 rpm
		Q m3/h 3 ÷ 450 H max 43 m	Q m3/h 4 ÷ 280 H max 130 m
			Q m3/h 4 ÷ 280 H max 130 m
		Q m3/h 3 ÷ 675 H max 65 m	Q m3/h 4 ÷ 400 H max 130 m
	Q m3/h 100 ÷ 1400 H max 40 m	Q m3/h 100 ÷ 2000 H max 100 m	
	Solids max 125 mg/l – ø 3mm	Solids max 85 mg/l – ø 3mm	Solids max 65 mg/l – ø 3mm

OPERATING TEMPERATURE -15 +120°C



Performances

AND OPERATING LIMITS

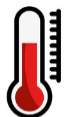
SAER[®]
ELETTROPOMPE

60Hz



	6 poles – 1200 rpm	4 poles – 1800 rpm	2 poles – 3600 rpm
		Q m3/h 5 ÷ 520 H max 60 m	Q m3/h 5 ÷ 260 H max 110 m
			Q m3/h 5 ÷ 260 H max 110 m
		Q m3/h 3 ÷ 800 H max 90 m	Q m3/h 5 ÷ 370 H max 110 m
	Q m3/h 150 ÷ 2200 H max 40 m	Q m3/h 120 ÷ 2700 H max 120 m	
	Solids max 125 mg/l – ø 3mm	Solids max 85 mg/l – ø 3mm	Solids max 65 mg/l – ø 3mm

OPERATING TEMPERATURE -15 +120°C



END SUCTION

Overview

- GENERAL PURPOSE PUMPS
- LOW OPERATING COSTS
- SIMPLE MAINTENANCE

CLOSED IMPELLER

Suitable for fluids

- Non combustible
- Free of solids
- Low viscosity
- Non abrasive



SAER END SUCTION RANGE

IR

MG

NCB - NCBK

MAIN FEATURES

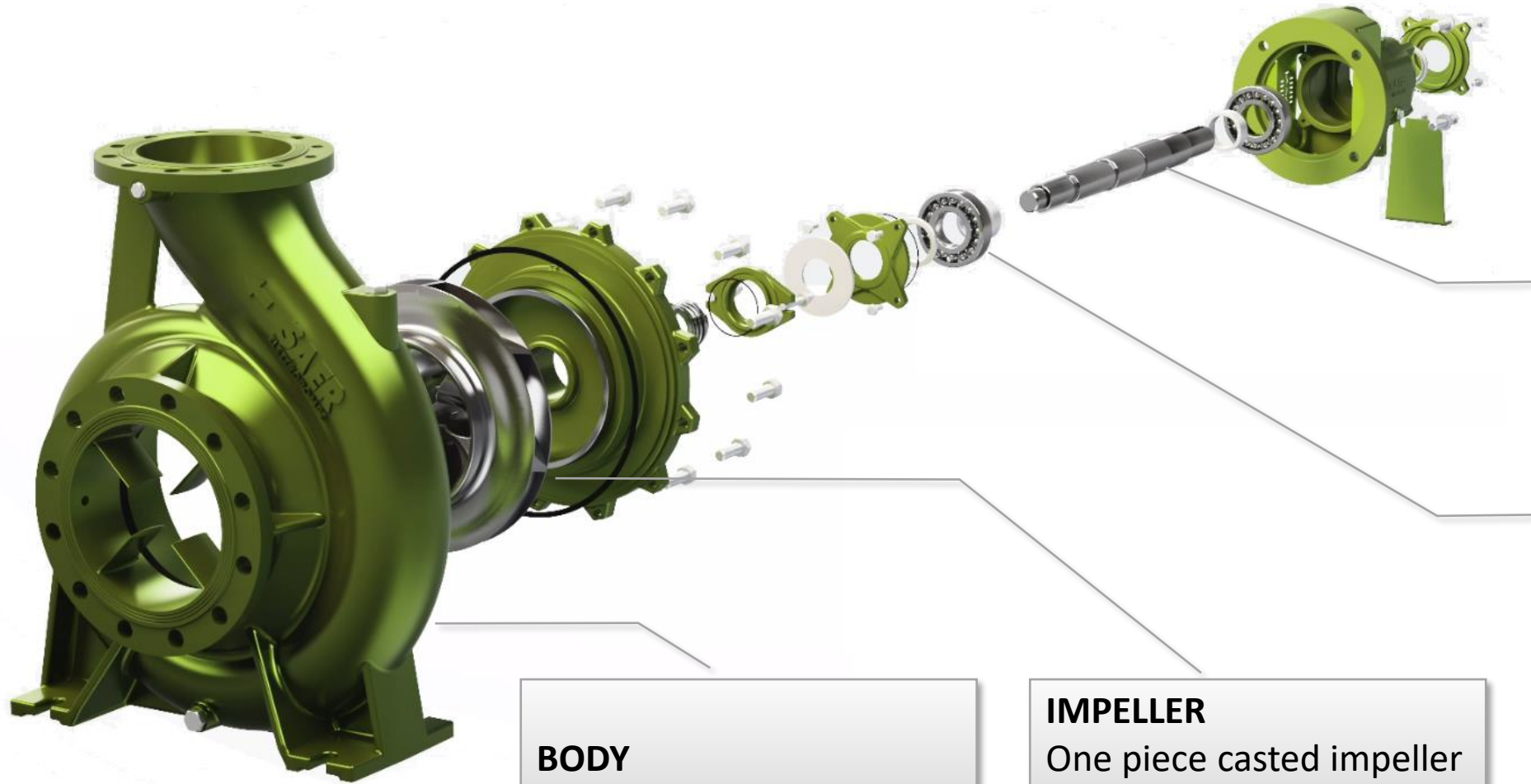
- Heavy duty construction
- Quality components
- Large selection of metallurgies
- Erp Directive compliant
- IR with **IE2 IE3** motors
- MG NCB with **IE2 IE3 IE4** motors

ErP Directive 2009/125/EC Energy-related-Products

Construction

HEAVY DUTY construction

SAER[®]
ELETTROPOMPE



BODY
One piece casted body

IMPELLER
One piece casted impeller
statically and dynamically
balanced (rotor as well)

OVERSIZED SHAFT
Totally in stainless steel
dimensioned according to
DIN743

OVERSIZED BEARINGS
Grease or oil bearings
premium quality

END SUCTION

MODELS



Range	Coupling	Connection	PN	Seal	STD Cast Iron	"X" AISI 316	"M" Bronze	"XSD" Super Duplex
IR	Single-shaft	Flanged	10/16	Mech.	170 <i>211</i>	170 <i>211</i>	170 <i>211</i>	170 <i>211</i>
MG	Stub-Shaft	Flanged	10/16	Mech.	70 <i>211</i>	70 <i>211</i>	70 <i>211</i>	70 <i>211</i>
NCB	Flex Coupling	Flanged	10/16	Mech.	206	206	206	206
NCBK	Flex Coupling	Flanged	16	Soft Packing	34	34	34	34

starting from 2021

Total end suction models: 2648

END SUCTION

RANGE



IR	2P	32	40	50	65	80	june 2020						
	4P	32	40	50	65	80	100	125	jun 20				
MG	2P	32	40	50	65	80	june 2020						
	4P	december 2020											
NCB	2P	32	40	50	65	80	100						
	4P	32	40	50	65	80	100	125	150				
NCBK	4P									150	200	250	300
	6P									150	200	250	300

DN



IR	2P			0,75	1,1	1,5	2,2	3	4	5,5	7,5	9,2	11	15	17	18,5	20	22	25	30	37	45										
	4P	0,37	0,55	0,75	1,1	1,5	2,2	3	4	5,5	7,5	9,2	11		15	18,5		22		30	june 2020											
MG	2P									5,5	7,5	9,2	11	15		18,5		22		30	37	45	55	75								
	4P																			december 2020												
NCB	2P			0,75	1,1	1,5	2,2	3	4	5,5	7,5	9,2	11		15	18,5		22		30	37	45	55	75	90							
	4P	0,37	0,55	0,75	1,1	1,5	2,2	3	4	5,5	7,5	9,2	11		15	18,5		22		30	37	45	55	75	90							
NCBK	4P																			37	45	55	75	90	110	132	160	200	250	315	355	400
	6P											11		15	18,5		22		30	37	45	55	75	90	110							

kW

Material - metallurgies



CASTED
bodies and impellers



	<i>Material</i>		<i>Mechanical Seal</i>	<i>Elastomer</i>
-	Cast Iron	EN-GJL-250	BVEGG	EPDM
-	Ductile Cast Iron	EN-GJS-500	BVEGG	EPDM
"M"	Bronze	G-CuSn10	Q1Q1VGG	VITON
"X"	Stainless Steel AISI 316	1.4408	Q1Q1VGG	VITON
"XD"	Stainless Steel Super Duplex	5A	Q1U3EG4G4	EPDM

Options

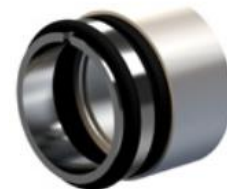
SHAFT SEALING AND WEAR RINGS

STANDARD EQUIPMENT

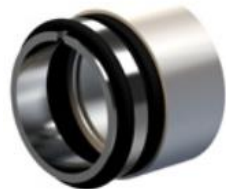
OPTIONAL EQUIPMENT



BVEGG - Q1VEGG



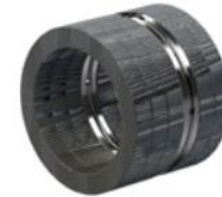
Q1U3VGG - Q1Q1VGG



BVEGG - Q1VEGG



Q1U3VGG - Q1Q1VGG



SOFT PACKING



CARTIDGE



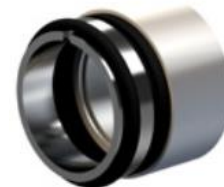
WEAR RINGS



SOFT PACKING



WEAR RINGS



BVEGG - BQ1EGG - Q1U3VGG



CARTIDGE



WEAR RINGS

Design

BACK PULL-OUT SYSTEM

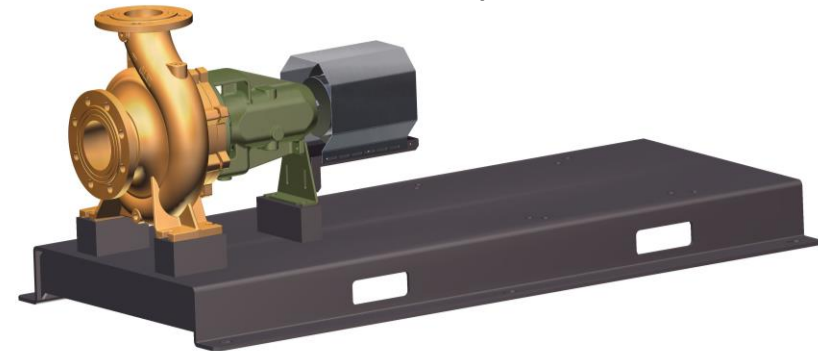
The **back pull-out design** enables removal of the motor, coupling, bearing bracket and impeller without disturbing the pump housing or pipework.



SPACER Flexyble coupling



NCBW : option NO motor
Pump + Basement + Coupling



IR – MG - NCB

MAIN FEATURES

SAER[®]
ELETTROPOMPE

IR
CLOSE-COUPLED



MG
STUB-SHAFT



NCB
FLEX-COUPLING



EASY INSTALLATION
No allignement necessary

COMPETITIVE PRICE

COMPACT – small area

WIDER POWER RANGE

Dedicated motor

Back-pull-out with motor

ALIGNEMENT necessary

CUSTOMIZABLE
Soft packing, sensors, oil bath bearing,

NORMALIZED MOTOR

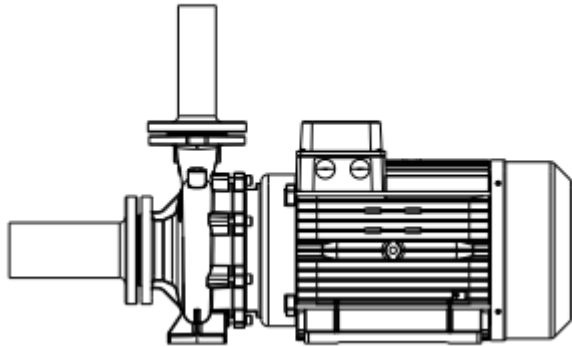
Easy Service
Proper back-pull-out

Installation

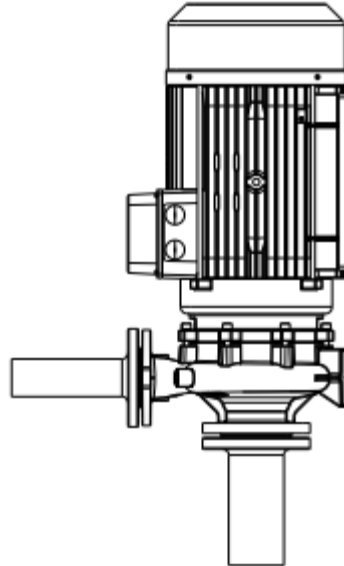
ALLOWED INSTALLATION

SAER[®]
ELETTROPOMPE

STANDARD INSTALLATION HORIZONTAL

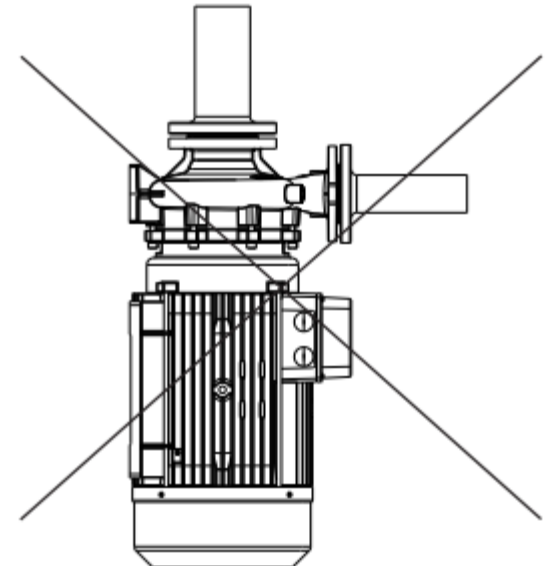


VERTICAL INSTALLATION



NCB vertical installation on request

NOT ALLOWED INSTALLATION



MT2 – MT4

SURFACE MOTORS 2/4 POLES – B3 B5

SAER[®]
ELETTROPOMPE



VFD
ON BOARD
UP TO 15kW

SAER

Manufactures **Surface motors:**

- TEFC Normalized IEC 60034
- 50 – 60 Hz
- 2 and 4 poles
- 0,18 – 110 kW
- Mountings (EN 50347): **B3 B5 B14 B35**
- Efficiency class (IEC 60034-30): **IE1, 2, 3, 4**
- Single phase 1~ and three phases 3~

50-60Hz
2/4 poles

IE1 IE2 IE3 IE4



VFD
READY
UP TO 55kW

Accessories

CONTROL PANELS & THERMAL SENSORS

SAER

Offers a wide range of **control panel** for submersible and surface motors:

- Direct start (electromechanical or electronic)
- Star-delta
- Impedance start
- Soft start
- Inverter (VFD)



As well as **sensors**

- PTC
- PT100
- anti-condensation heaters
- Vibration sensors



(to be requested at order confirmation)

2 TEST ROOMS

Parameters up to:

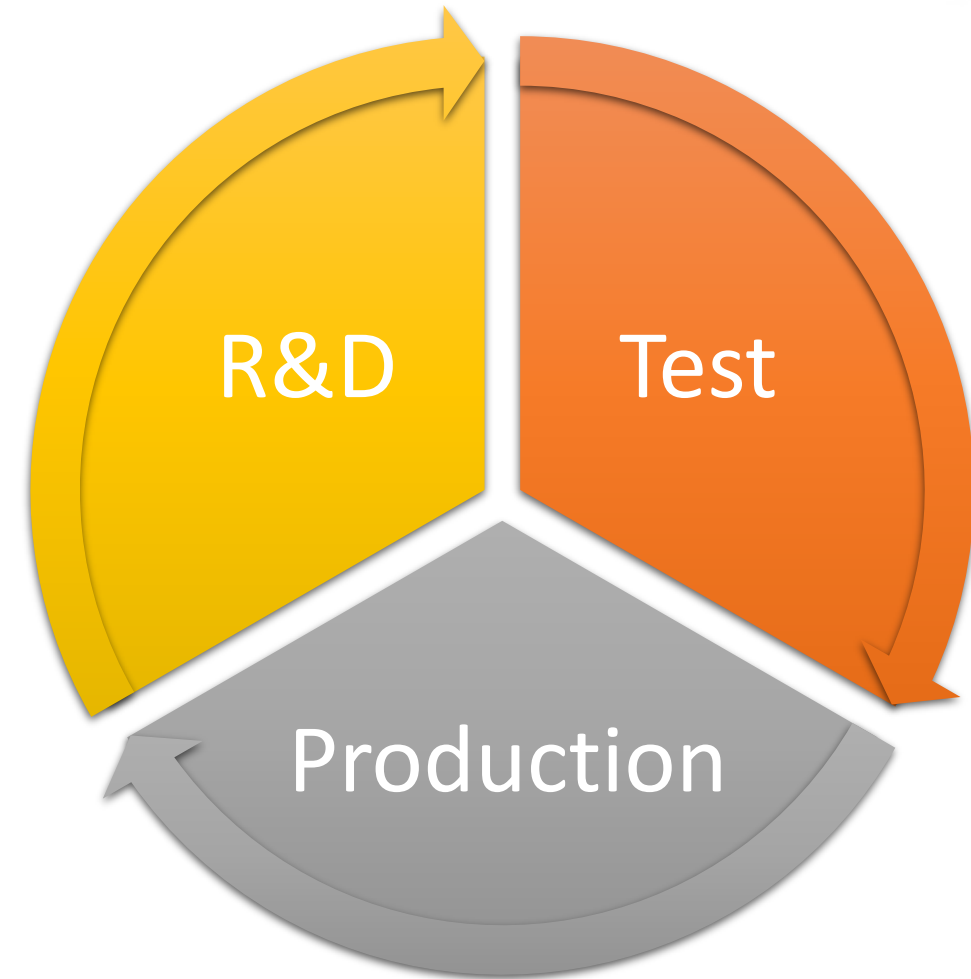
- 4500 m³/h flow
- 1500 kW power
- 100 bar pressure
- 1000 V – 11 kV
- 50 / 60 Hz

TESTS and Certificates

- Performance Q-H
- NPSH
- power, efficiency, Cos ϕ
- Tolerances ISO 9906:2012

- Hydrostatic test up to 100 bar
- Electrical tests on motors
- Temperature measurement
- Noise measurement
- Vibration analysis
- Materials certificate

The control of whole process
design to final tests
confers to SAER products
Top reliability & longest life span



Stock
QUICK DELIVERY

Large stock of

- Pumps
- Parts
- Motors

SAFER[®]
Thank you for kind attention
ELETTROPOMPE