

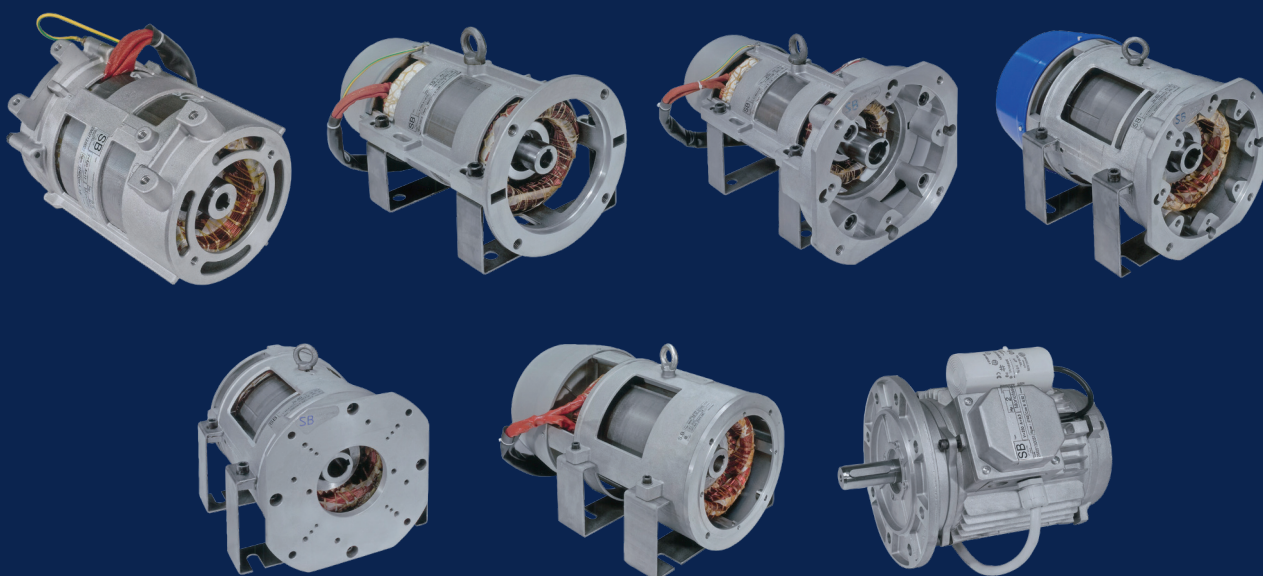


made in

SB Hydraulic Motors

ASYNCHRONOUS MOTORS

for all types of pumps and inverters



LIFT, GOODS HOISTS, PLATFORM DIVISION
SUBMERSED MOTORS | DRY MOTORS | DOOR MOTORS

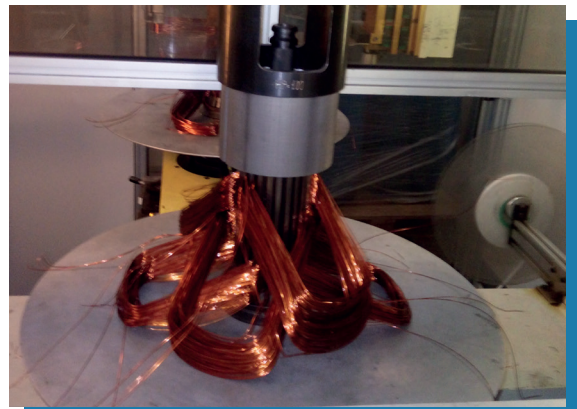
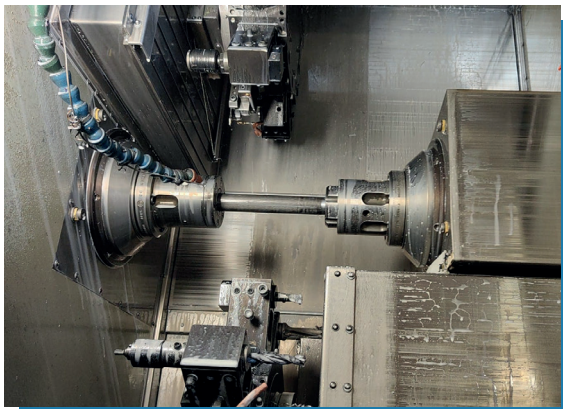
INDUSTRIAL DIVISION
SUBMERSED MOTORS

MADE IN ITALY SINCE 1971

SB Hydraulic Motors has more than 50 years of experience in the development and production of asynchronous motors for

- LIFTS, GOODS HOISTS, PLATFORMS: oildynamic unit power, dry unit power, doors
- INDUSTRIAL DIVISION: 2 and 4 poles

The whole design and production processes take place entirely in Milan plants, Italy, from the raw material to the finished motor. CNC turning, winding, assembling and testing are performed in-house.



TOTAL QUALITY

INTERNATIONAL LAWS COMPLIANT

- Internal quality tests on the finished product and on each material used
- Custom tests according to our Clients' needs

TESTS ON ELECTRICAL PARTS

- Measurement of ohm resistances
- Dielectric rigidity towards mass and among the phases
- Impulsive tests "Surge test"
- Inversion check tests of the insulation

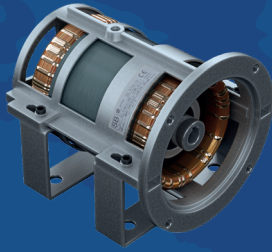
TEST ON THE BRAKE WITH 45°C OIL TEMPERATURE

- Empty test
- Loaded test
- Cyclical test of plants for residential use
- Cyclical test of plants for continuous use
- Cyclical test of removal
- Specifics concerning the motor shaft torque
- High pressure valve setting
- Cold motor starting linked to cog wheel
- Long run
- Relief intervention of the thermal protector

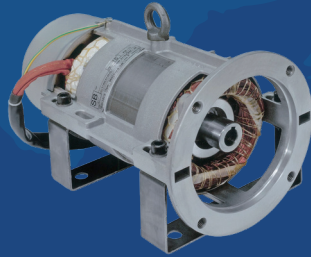


LIFT, GOODS HOISTS, PLATFORM DIVISION

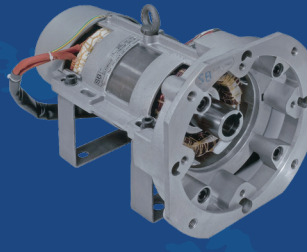
Submersed motors S3



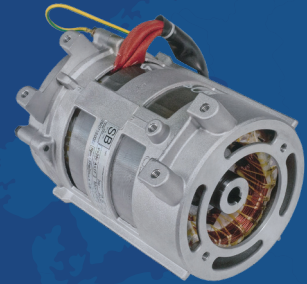
TYPE SB 150



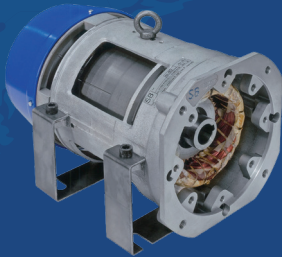
TYPE SB 150-A



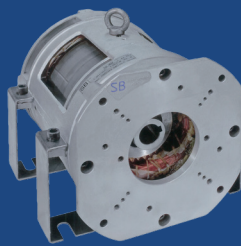
TYPE SB 150-B



TYPE SB ML



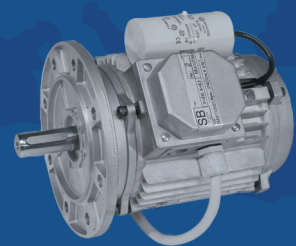
TYPE SB 200



TYPE SB 200 USA



TYPE SB 250



TYPE SB DRY

INDUSTRIAL DIVISION

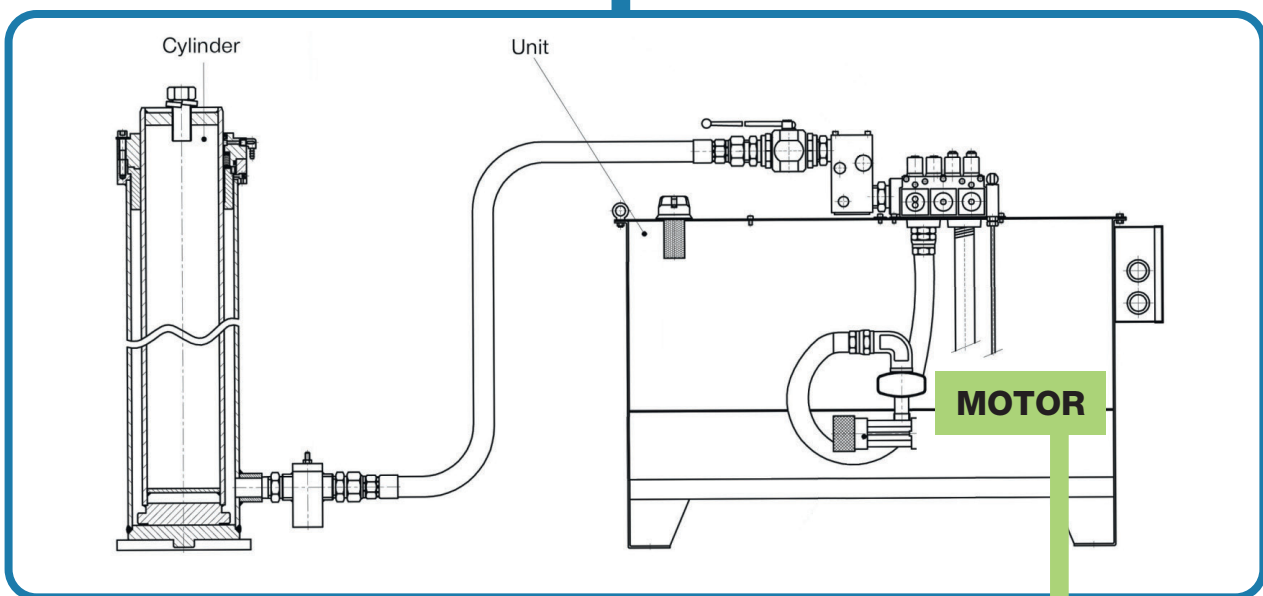
Submersed motors 2 and 4 poles



**MOTORS FOR LIFT DOORS
12 POLES DIVISION**

LIFT, GOODS HOISTS, PLATFORM DIVISION

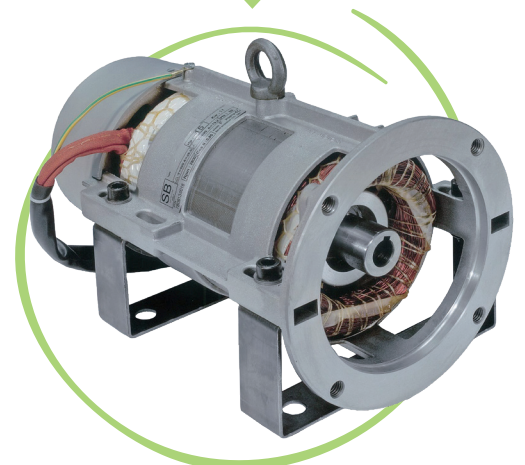
Submersed motors S3



- From 1 to 100 hp
- Single or three-phase motors
- With or without flywheel
- 2 and 4 poles

COMPATIBILITY

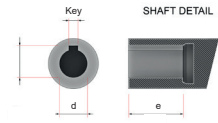
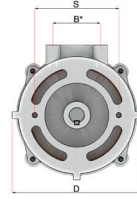
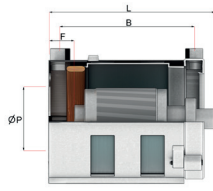
- **PUMPS:** Seim, Settima Meccanica, IMO, Allweiler.
- **CONTROL UNITS:** Omar Lift, GMV, Moris Italia, IGV, Start Elevator, Hydronic Lift, Algi, Bucher Hydraulics, Doppler, Tulfer.



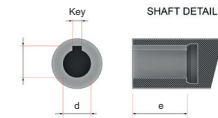
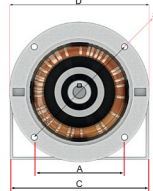
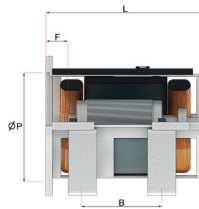
LIFT, GOODS HOISTS, PLATFORM DIVISION

Submersed motors S3 *Mechanical data*

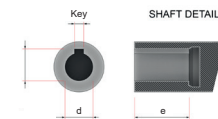
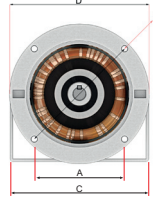
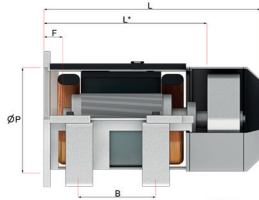
SB ML



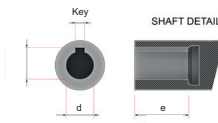
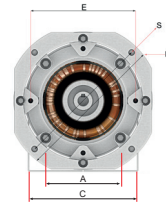
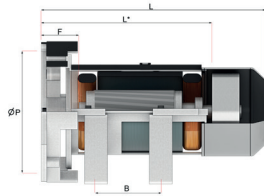
SB 150



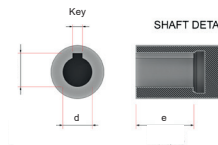
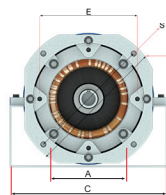
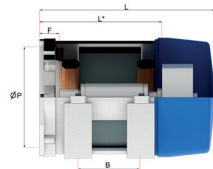
SB 150-A



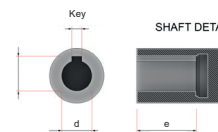
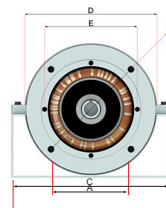
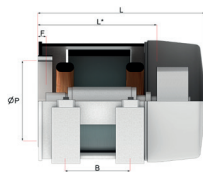
SB 150-B



SB 200



SB 250



CODE	FRAME				FLANGE Pump						SHAFT		
	L	L*	B	F	D	dP	E	S	A	C	d (H7)	l	key (J9)
SB ML		215	175	17	155	82,55		105	60		14	35	5x5
SB 150		210	93-127	34	210	155		190	145	205	19	40	6x6
SB 150-A	288-415	210-340	93-235	34	210	155		190	145	205	19	40	6x6
SB 150-B	385-428	310-350	175-235	46	290	220	195	260	145	205	19	40	6x6
SB 200	425-480	330-350	170	42	290	155-220	195	260	245	310	32	55	10x8
SB 250	550	410	190	38	305	155-220	190	260	250	370	32	55	10x8

d = Diameter **l** = Length **L*** = No Flywheel

LIFT, GOODS HOISTS, PLATFORM DIVISION

Submersed motors S3 *Electrical data*

TENSIONE di LINEA	Tolleranza %	avvolgimento statore		
		avviamento diretto		avviamento stella / triangolo
		colleg. triangolo	colleg. stella	
220 V	-10 / +6	220	380	220 / 380
230 V	-10 / +6	230	400	230 / 400
240 V	-10 / +6	240	415	240 / 415
380 V	-10 / +6	380	660	380 / 660
400 V	-10 / +6	400	690	400 / 690

single phase motors 2 poles

CODE	POWER		FREQUENCY	PHASE	in DIRECT	Ids DIRECT	DELTA VOLTAGE	in DELTA	Ids DELTA	STAR VOLTAGE	in STAR	Ids STAR	SECTION of power cables	D SHAFT	D FLANGE	FLYWHEEL	Weight motor+box
	kW	Hp															
SBBL440	1,5	2	50	1	16	48	230	-	-	-	-	-	1,5	14-19	155-82,55	NO	11,2
SBBL450	1,8	2,5	50	1	17,8	53	230	-	-	-	-	-	1,5	14-19	155-82,55	NO	12,4
SBBL460	2,2	3	50	1	21	63	230	-	-	-	-	-	1,5	14-19	155-82,55	NO	12,7
SBBL470	2,6	3,5	50	1	24	72	230	-	-	-	-	-	1,5	14-19	155-82,55	NO	13
SBBL480	2,9	4	50	1	27	81	230	-	-	-	-	-	1,5	14-19	155-82,55	NO	13,3
SBBL490	3,3	4,5	50	1	28	84	230	-	-	-	-	-	1,5	14-19	155-82,55	NO	14,4

three phases motors 2 poles

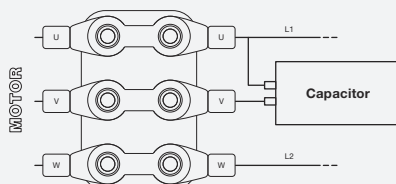
CODE	POWER		FREQUENCY	PHASE	in DIRECT	Ids DIRECT	DELTA VOLTAGE	in DELTA	Ids DELTA	STAR VOLTAGE	in STAR	Ids STAR	SECTION of power cables	D SHAFT	D FLANGE	FLYWHEEL	Weight motor+box
	kW	Hp															
SBBL151	4,7	6,5	50	3	22	65	230	22	65	400	13	38	2,5	19	155	YES	16,9
SBBL164	5,8	8	50	3	15	46	400	15	46	690	8,8	26	1,5	19	155	YES	21,5
SBBL174	7,7	10,5	50	3	19	57	400	19	57	690	11	33	1,5	19	155	YES	23,9
SBBL184	9,5	13	50	3	25	74	400	25	74	690	14	43	1,5	19	155	YES	25,6
SBBL194	11	15	50	3	27	80	400	27	80	690	16	47	1,5	19	155	YES	27,5
SBBL204	12,5	17	50	3	28	85	400	28	85	720	16	49	2,5	19	155	YES	30,2
SBBL254	14,7	20	50	3	32	96	400	32	96	720	19	56	2,5	19	155	YES	31,1
SBBL264	18,4	25	50	3	47	141	400	47	141	690	27	81	2,5	19	155	YES	32,5
SBBL276	22	30	50	3	51	153	400	51	153	690	30	89	4	19	155	YES	38,5
SBBL213	24	32,7	50	3	55	165	400	55	165	690	32	95	4	19	155	YES	39,5
SBBL414	29,4	40	50	3	64	190	400	64	190	690	37	110	4	32	155	YES	59
SBBL424	36,8	50	50	3	82	244	400	82	244	690	47	141	6	32	155	YES	67
SBBL434	44,1	60	50	3	93	279	400	93	244	690	54	161	6	32	155	YES	74,6
SBBL314	51,5	70	50	3	128	380	400	128	380	690	74	221	10	32	155	YES	82,6
SBBL324	58,8	80	50	3	129	380	400	129	380	690	74	230	10	32	155	YES	91,6
SBBL334	73,5	100	50	3	134	380	400	134	380	690	78	230	10	32	155	YES	97,2

SB SINGLEPHASE

SB THREEPHASES

SUBMERSED motors connections

Models: SB Minilift | SB150

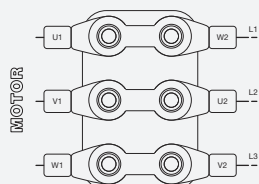


Colours of the Cables:

- U = Green
- V = Red
- W = White (or Black)
- L = Electric Power
- V - W = starting wire
- U - W = running wire
- R st > R run

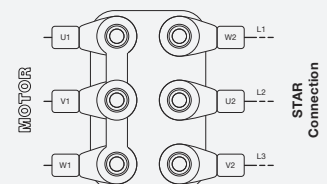
SUBMERSED motors connections

Models: SB Minilift | SB150A | SB150B | SB 200 | SB250



Colours of the Cables:

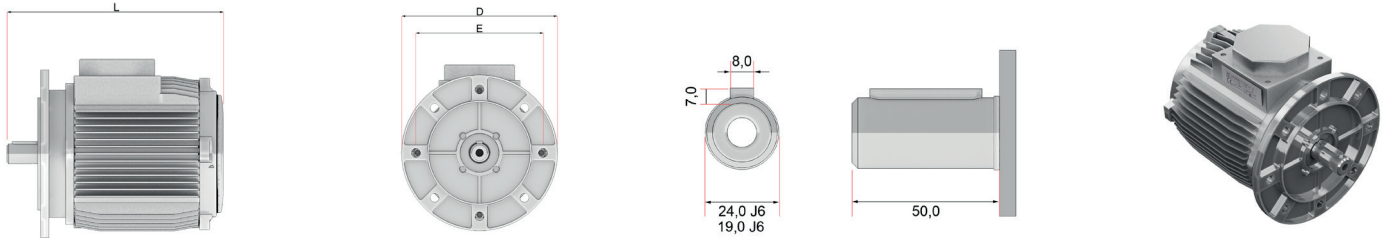
- U1 W2 = Green
- V1 U2 = Red
- W1 V2 = White
- L = Electric Power



- PTC in the windings (110°C) = Brown
- PTC in the Oil (70°C) - optional = Yellow
- Earth protection = Green/Yellow

LIFT, GOODS HOISTS, PLATFORM DIVISION

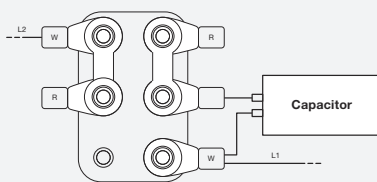
Dry motors *Mechanical and electrical data*



CODE	POWER		FRAME	FLANGE Pump			SHAFT		
	kW	Hp	L	D	dP	d	l	key	
SBBL820	1.5	2	261	200	165	19 - 24	50 - 50	6 x 6 - 8 x 7	
SBBL821	1.8	2.5	261	200	165	19 - 24	50 - 50	6 x 6 - 8 x 7	
SBBL822	2.2	3	287	200	165	19 - 24	50 - 50	6 x 6 - 8 x 7	
SBBL823	2.9	4	287	200	165	19 - 24	50 - 50	6 x 6 - 8 x 7	
SBBL824	1.5	2	261	200	165	19 - 24	50 - 50	6 x 6 - 8 x 7	
SBBL827	1.8	2.5	261	200	165	19 - 24	50 - 50	6 x 6 - 8 x 7	
SBBL828	2.2	3	287	200	165	19 - 24	50 - 50	6 x 6 - 8 x 7	
SBBL829	2.9	4	287	200	165	19 - 24	50 - 50	6 x 6 - 8 x 7	

CODE	POWER		FREQUENCY	PHASE	DELTA VOLTAGE	in DELTA	STAR VOLTAGE	in STAR	Cable	FRAME	FLANGE	D SHAFT	RPM	Efficiency	Cos (φ)	Condenser	Weight motor+box
	kW	Hp	Hz	n°	V	A	V	A				mm				μF	Kg
SBBL820	1,5	2	50	1	230	9,3	-	-	Fror 5x1,5	Mec 80/90	B5	24	2800	63	0,98	59	10,7
SBBL821	1,8	2,5	50	1	230	12,5	-	-	Fror 5x1,5	Mec 80/90	B5	24	2800	74	0,98	65	12,6
SBBL822	2,2	3	50	1	230	15	-	-	Fror 5x1,5	Mec 80/90	B5	24	2790	71	0,99	65	14,2
SBBL823	2,9	4	50	1	230	27	-	-	Fror 5x1,5	Mec 80/90	B5	24	2750	73	0,92	100	14,8
SBBL830	1,5	2	50	3	230	8	400	4,5	Fror 5x1,5	Mec 80/90	B5	24	2850	75	0,98		10,7
SBBL831	1,8	2,5	50	3	230	11	400	6,4	Fror 5x1,5	Mec 80/90	B5	24	2850	75	0,98		12,6
SBBL832	2,2	3	60	3	230	13	400	8	Fror 5x1,5	Mec 80/90	B5	24	2830	74	0,98		14,2
SBBL833	2,9	4	60	3	230	18	400	11	Fror 5x1,5	Mec 80/90	B5	24	2830	74	0,92		14,8

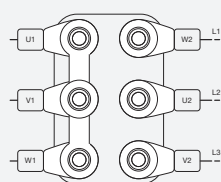
Single Phase



Colours of the Cables:
R = Red motor cables
W = White motor cables
L = Electric Power

Clockwise rotation:
Rear view
 (opposite to the pump)

Three Phases



Colours of the Cables:
U1 W2 = Green
V1 U2 = Red
W1 V2 = White
L = Electric Power

Clockwise rotation:
Rear view
 (opposite to the pump)

Cooling:	AIR
Protection:	IP54
Insulation Class:	F

PTC in the windings (110°C)	= Brown
Earth protection	= Green/Yellow



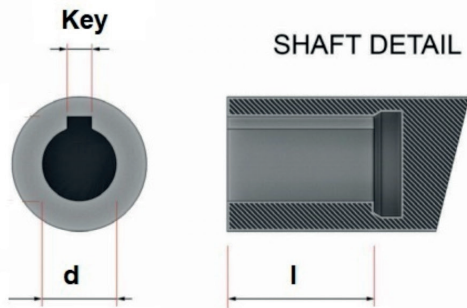
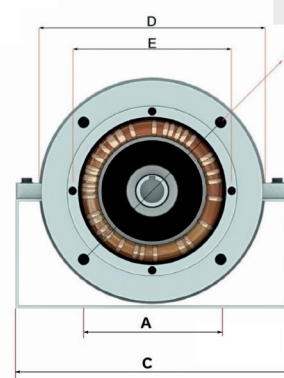
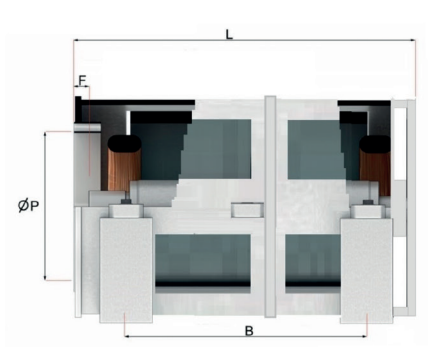
made in

SB Hydraulic Motors

INDUSTRIAL DIVISION

Submersed motors 2 and 4 poles

Mechanical and electrical data



CODE	POWER		PHASES number	FRAME				FLANGE Pump					SHAFT		
	kW	Hp		L	B	S	F	D	dP	E	A	C	d (H7)	l	key (J9)
SBBL2P295	7.7	10.5	3	290	170		42	290	155	190	245	310	32	55	10x8
SBBL2P296	9.6	13	3	290	170		42	290	155	190	245	310	32	55	10x8
SBBL2P297	11	15	3	290	170		42	290	155	190	245	310	32	55	10x8
SBBL2P298	12.5	17	3	290	170		42	290	155	190	245	310	32	55	10x8
SBBL2P299	14.7	20	3	290	170		42	290	155	190	245	310	32	55	10x8
SBBL2P300	18.4	25	3	410	190	260	38	305	220		250	370	32	55	10x8
SBBL2P301	25	34	3	410	190	260	38	305	220		250	370	32	55	10x8
SBBL2P302	36	45	3	410	190	260	38	305	220		250	370	32	55	10x8
SBBL2P303	45	61.2	3	566	390	260	38	305	220		250	370	32	55	10x8

CODE	POWER		PHASES number	FRAME			FLANGE Pump					SHAFT		
	kW	Hp		L	B	F	D	dP	E	A	C	d (H7)	l	key (J9)
SBBL4P299	14.7	20	3	371	185	18	305	160	200	250	370	32	55	10x8
SBBL4P300	18.5	25	3	371	185	18	305	160	200	250	370	32	55	10x8
SBBL4P301	25	34	3	371	185	18	305	160	200	250	370	32	55	10x8
SBBL4P302	33	45	3	566	390	18	305	160	200	250	370	32	55	10x8
SBBL4P303	45	61.2	3	566	390	18	305	160	200	250	370	32	55	10x8

d = Diameter l = Length

LIFT DIVISION

12 poles motors for lift doors



PROMPT DELIVERY

DO YOU WANT ZERO DOWNTIME?

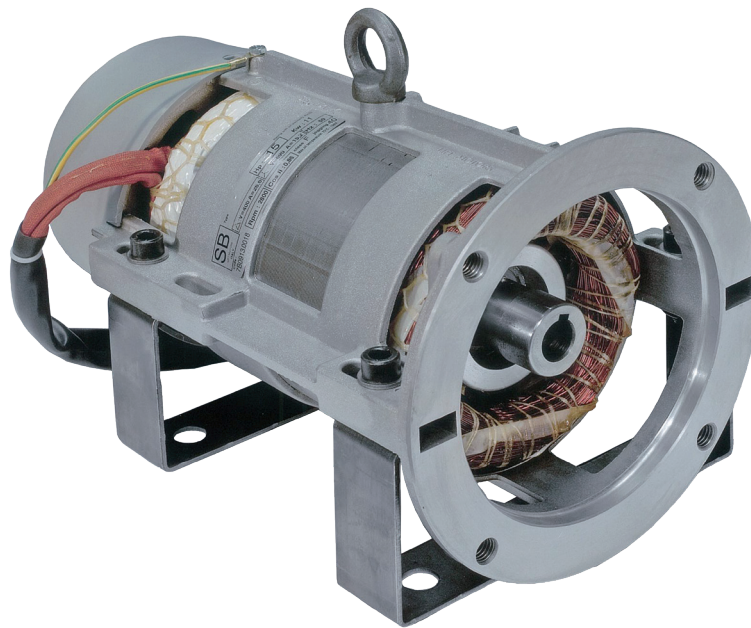
YOU CAN CHOOSE ONE OF THE THREE SOLUTIONS
TO BETTER SAVE YOUR TIME AND MONEY

1. GROUP MOTOR + PUMP

READY FOR YOUR UNIT POWER
AND YOUR HYDRAULIC LIFT

2. SPARE MOTOR

3. SPARE PUMP





made in

SB Hydraulic Motors

WE ARE ALSO HERE:



Unicredit Tower elevators
Milan - Italy



Mose dam elevators
Venice - Italy



Colosseum elevators
Rome - Italy



Vittoriano elevators
Rome - Italy



Mausoleum of Ruhollah Khomeini elevators
Tehran - Iran



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