ATEX


CESI
CERTIFICATO
CERTIFICATO DI ESAME CE DEL TIPO
CESI-ATEX
CERTIFICATE
TYPE EXAMINATION CERTIFICATE

APPLICATIONS

Pumps in conformity with 94/9/CE Directives can be used in potentially explosive atmospheres according to the ATEX marking:

ATEX marking	
II	Group of apparatus - equipment for surface plants.
2G	Category - equipment compatible to be installed in potentially explosive atmosphere with gas, steams and vapors (area 1); this equipment is suitable for area 1 and area 2.

ATEX marking – protection	
Ex	Protection against explosions.
mb	Level b “encapsulation” protection for external connection box.
c	“Safety construction” protection for hydraulic part.
IIC	Subgroup of gas equipment compatible to be installed with all combustible gas.
T5 (T6)	Class temperature – maximum temperature of the equipment 100°C. When the mark is T6 the maximum temperature of the machine is 85°C.
Gb	Protection level of equipment compatible to be installed in potentially explosive atmospheres with combustible gas - level b.

FEATURES

- Multistage centrifugal electric submersible pumps for 4” wells. The pumps are characterized by a floating impellers system that ensures high resistance to sand abrasion.
- External pump case, delivery port suction port, shaft and other components in stainless steel.
- Impellers in acetal resin.
- Polycarbonate diffusers with ceramic insert at wear points.
- The check valve made of stainless steel is installed in the delivery head.
- Motor coupling meets NEMA standards.
- Temperature of pumped liquid: max +40°C.
- Available for permanent immersion in hydrocarbons version.
- Available in AISI 316 version.

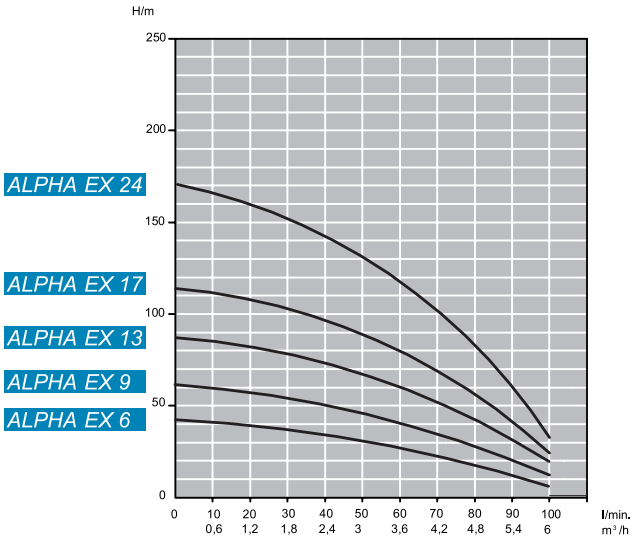
MOTOR

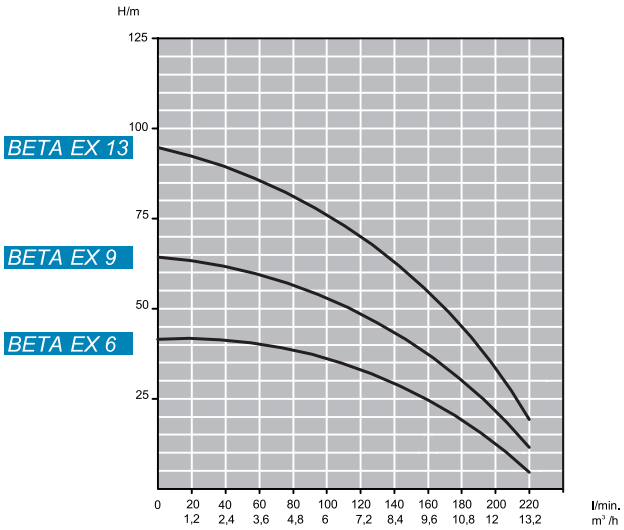
- 2 poles asynchronous motor, 50 Hz, 2850 rpm.
- Class F insulation.
- IP68 protection.
- Working voltage: single-phase 230 V, three-phase 400 V.

Technical specifications

Pump type	Motor HP	Motor kW	Cap. MF VL 450	Max current 230V 1~ A	Max current 400V 3~ A	Outlet Ø	Delivery									
							l/min	0	40	60	80	100	120	140	180	200	220
							m³/h	0	2,4	3,6	4,8	6	7,2	8,4	10,8	12	13,2
ALPHA EX 6	0,75	0,55	20	1,9	5,6	1" 1/4	Manometric head (m)	43	37	31	19	7					
ALPHA EX 9	1	0,75	30	6,6	2,3			65	55	46	28	11					
ALPHA EX 13	1,5	1,1	40	9,5	3,3			95	80	67	45	18					
ALPHA EX 17	2	1,5	50	12	4,2			122	106	88	60	21					
ALPHA EX 24	3	2,2	-	-	5,9			185	153	130	89	30					
BETA EX 6	1,5	1,1	40	9,5	3,4	2"		35			31	29	27	24	17	11	4
BETA EX 9	2	1,5	50	12	4,2			53			44	42	40	36	25	17	9
BETA EX 13	3	2,2	-	-	5,9			78			65	61	57	52	38	28	16

Performance curves





Dimensions and weights

Pump type	Dimensions mm A	Dimensions mm B 230V 1~	Dimensions mm B 400V 3~	Dimensions mm C 230V 1~	Dimensions mm C 400V 3~	Weight kg A	Weight kg B 230V 1~	Weight kg B 400V 3~	Weight kg C 230V 1~	Weight kg C 400V 3~
ALPHA EX 6	358	328	328	686	686	2,8	9	9	11,8	11,8
ALPHA EX 9	443	328	328	771	771	3,4	9	9	12,4	12,4
ALPHA EX 13	557	368	368	925	925	4,2	10,9	10,9	15,1	15,1
ALPHA EX 17	671	448	408	1119	1079	4,8	14,7	12,8	19,5	17,6
ALPHA EX 24	894	-	448	-	1342	6,5	-	14,7	-	21,2
BETA EX 6	493	368	368	861	861	4,2	10,9	10,9	15,1	15,1
BETA EX 9	646	448	408	1094	1054	4,6	14,7	12,8	19,3	17,4
BETA EX 13	850	-	448	-	1298	6	-	14,7	-	20,7

A Hydraulic part

B Motor

C Electric pump