

N, N4

End-Suction Centrifugal Pumps standardized EN 733



The electropumps N, B-N, N4, B-N4 series comply with the European Regulation no. 547/2012.

Materials

Components	N, N4	B-N, B-N4	N, N4
Mechanical seal	Mechanical seal	Mechanical seal	Stuffing box
Pump casing	Cast iron	Bronze	Cast iron
Casing cover	GJL 200 EN 1561	CC480K EN 1982	GJL 200 EN 1561
Impeller	Cast iron	Bronze	Cast iron
	GJL 200 EN 1561	CC480K EN 1982	GJL 200 EN 1561
	Brass CW617N EN 12165 For 32-125, 32-160, 32-200, 32L-200, 40-200		
Shaft	Chrome steel 1.4104 EN 10088 (AISI 430)	Cr-Ni-Mo steel 1.4401 EN 10088 (AISI 316)	Carbon steel C 40 UNI 7845
Shaft sleeve	-	-	Bronze CC480K EN 1982 with chromate surface
Mechanical seal	Carbon - Ceramic - NBR		-
Counter-flanges	Steel 1.0044 EN 10025-2 (Fe 430B)		

Construction

Single-stage end-suction centrifugal pumps, with bearing bracket.

Nominal duty points and main dimensions in accordance with EN 733. Back Pull-Out construction, for simple and quick dismantling and reassembly.

N, N4: version with pump casing and lantern bracket in cast iron.
B-N, B-N4: version with pump casing and lantern bracket in bronze.
(the pumps are supplied fully painted).

Rated speed of rotation (50 Hz): **N** ≈ 2900 rpm.
N4 ≈ 1450 rpm.

Connections: PN 10-16 flanges EN 1092-2 (PN 10 for DN 200).
Counter-flanges (on request)

Sizes	Flanges
from 32-160 to 50-250	Screwed flanges PN 16 EN 1092-1
from 65-125 to 150-400	Flanges for welding PN 10-16 EN 1092-1 (PN 10 for DN 200)

Shaft sealing

- Standardized mechanical seal in accordance with ISO 3069.
- Stuffing box seal (on request).

Applications

For clean liquids, without abrasives, which are non-aggressive for the pump materials (contents of solids up to 0.2%).

For water supply.

For heating, air conditioning, cooling and circulation plants.

For civil and industrial applications and for agriculture.

For fire fighting applications.

For irrigation.

Operating conditions

Liquid temperature from -10 °C to +90 °C.

Ambient temperature up to 40 °C.

Total suction lift up to 7 m.

Maximum permissible working pressure up to 10 bar (16 bar for N 32L-160,200; N,N4 40-160,200; N,N4 50-125,160; N,N4 65-125,160,200,250; N,N4 80-160,200,250,315,400; N,N4 100-200).

Maximum permissible rotation speed: see table on page 90.

Pump-Motor unit

N,N4 pump connected to a standard electric motor in B3 construction form (EN 60072-1), by means of a baseplate, driven by a flexible coupling and with coupling protection.

Three-phase 400 V , 50 Hz

IE3 efficiency class for three-phase motors (IE2 up to 0,65 kW).

IP 55 protection.

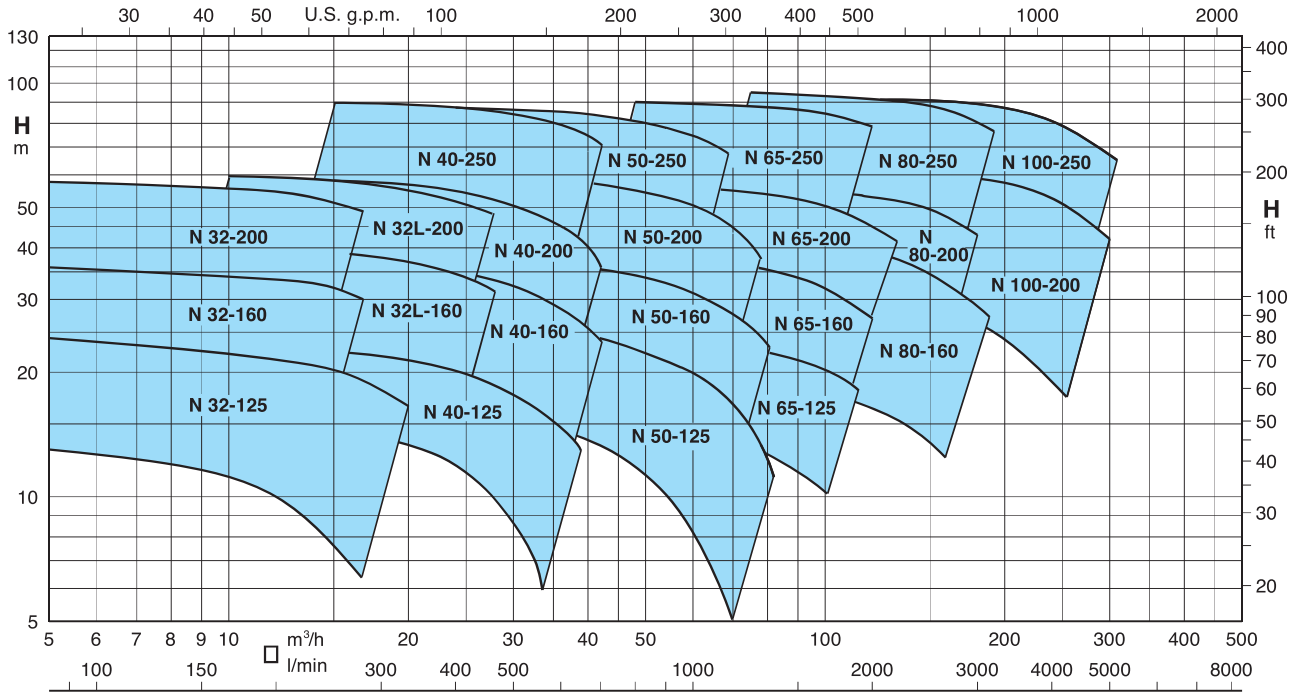
Motor suitable for operation with frequency converter.

Special features on request

- Special mechanical seal.
- Chrome-nickel steel AISI 316 pump-shaft.
- Higher or lower liquid or ambient temperatures.
- Other motor protection.
- Motor for other voltage.
- Frequency 60 Hz (as per 60 Hz data sheet).



Coverage chart n ≈ 2900 rpm



Tolerances according to UNI EN ISO 9906:2012

Prestazioni n = 2900 1/min

PUMP	PUMP	MOTOR	P ₂ kW	□ m³/h		P ₃ kW																		
				□ l/min	□ l/min	6,6	7,5	8,4	9,6	10,8	12	13,2	15	16,8	18,9	21	24	27	29	32	37,8	39		
B-N 32-125F/A	N 32-125F/A	71 M2	0,55	12,5	12,5	12	11,5	11	10,5	9,5	8	6												
B-N 32-125D/A	N 32-125D/A	80 M2	0,75	18	18	17,5	17	16,5	16	15,5	14	12,5	11	8,5										
B-N 32-125A/A	N 32-125A/A	80 M2	1,1	23	23	22,5	22	21,5	21	20,5	19,5	18	16	14	10									
B-N 32-125S/A	N 32-125S/A	90 S2	1,5	23,5	23,5	23	22,5	22	21,5	21	20,5	19	18,5	16,5	13									
B-N 32-160B/A	N 32-160B/A	90 S2	1,5	29,5	29,5	29	28,5	27,5	27	26	25*	22,5*	20*	17,5*	12,5*									
B-N 32-160A/A	N 32-160A/A	90 L2	2,2	35,5	35,5	35	34,5	34	33,5	33	32*	30*	28*	25*	21*	15*								
B-N 32-200D/A	N 32-200D/A	90 L2	2,2	37,5	37	36	35	34	33	32	30	27	22											
B-N 32-200C/A	N 32-200C/A	100 L2	3	44,5	44	43,5	43	42	41	40	38,5	36	32											
B-N 32-200A/A	N 32-200A/A	112 M2	4	57	56,5	56	55,5	54,5	53,5	52,5	51	49	46											
B-N 32-200A/A	N 32-200A/A	132 S2	5,5	2,9	3,1	3,18	3,35	3,51	3,67	3,8	4	4,2	4,4											
B-N 32L-160C	N 32L-160C	90 L2	2,2				25,1	24,9	24,7	24,4	23,8	23	21,8	17,3	13,4									
B-N 32L-160B	N 32L-160B	100 L2	3				30,4	30,3	30,2	30	29,6	29	28,1	26,5	24,2	20,8	17,9							
B-N 32L-160A	N 32L-160A	112 M2	4				39,9	39,9	39,8	39,6	39,3	38,8	37,9	36,8	34,7	31,9	29,7	25,6						
B-N 32L-200C	N 32L-200C	112 M2	4				42,1	41,8	41,5	41	40,2	38,9	37	34,5	29,7	23,8								
B-N 32L-200B	N 32L-200B	132 S2	5,5				51,7	51,6	51,4	51,2	50,7	50	48,8	47	43,2	37,8	33,5							
B-N 32L-200A	N 32L-200A	132 S2	7,5				59,4	59,4	59,4	59,4	59,2	58,8	58	56	53,4	48,6	44,6	37,7						

PUMP	PUMP	MOTOR	P ₂ kW	□ m³/h		P ₃ kW																		
				□ l/min	□ l/min	15	16,8	18,9	21	24	27	30	33	37,8	39	42	45	48	54	60	66	69		
B-N 40-125F/A	N 40-125F/A	80 M2	1,1	14	13,5	13	12	11	9,5	8	6													
B-N 40-125C/A	N 40-125C/A	90 S2	1,5	17,5	17	16,5	16	15	13,5	12	10,5	7,5	6,5											
B-N 40-125A/A	N 40-125A/A	90 L2	2,2	22	22	21,5	21	20	19	18	16,5	14	13	11,5										
B-N 40-160C/A	N 40-160C/A	90 L2	2,2	23	22,5	22	21,5	20	18,5	16,5	14,5	11	10											
B-N 40-160B/A	N 40-160B/A	100 L2	3	29	28,8	28	27,5	26,5	25	23,5	21,5	18	17	14										
B-N 40-160A/A	N 40-160A/A	112 M2	4	37	36,5	36,5	36	35	33,5	32	30,5	27	26	23,5	20	17								
B-N 40-200D/A	N 40-200D/A	112 M2	4	39	38	37	35,5	33,5	30,5	27	22,5	14												
B-N 40-200C/A	N 40-200C/A	132 S2	5,5	41,5	40,5	39,5	38	36	33,5	32	30,5	27	26	23,5	20	17								
B-N 40-200B/A	N 40-200B/A	132 S2	7,5	50	49,5	48,5	47,5	45,5	43,5	41,5	37,5	30,5												
B-N 40-200A/A	N 40-200A/A	132 S2	7,5	55	54,5	54	53	51	49															
B-N 40-250C/A	N 40-250C/A	160 M2	11	61	61	60,5	59,5	58,5	56,5	53,5	49,5	41,5	40	33,5										
B-N 40-250B/A	N 40-250B/A	160 M2	11	69,5	69,5	69	68,5	67	65,5	63,5	60,5	53,5	51	45										
B-N 40-250A/A	N 40-250A/A	160 M2	15	90	90	89,5	89	88,5	87	85	83	77,5	76	70,5										

N Standard construction. B-N Bronze construction. P₂ Rated motor power output. P₃ Pump power input. H Total head in m. * Maximum suction lift 1-2 m.

