

3D SERIES

NORMALISED AND MONOBLOCK CENTRIFUGAL ELECTROPUMPS CONFORMING TO EN 733 (EX DIN 24255)



Cast iron monoblock (3D) and normalised centrifugal electropumps conforming to EN 733 (3DS-3DP).



APPLICATIONS

- Handling of water and clean, chemically non-aggressive liquids
- Water supply
- Pressurisation
- Washing and industrial plants
- Water circulation in climate control systems
- Irrigation and agriculture

TECHNICAL FEATURES

- Highly robust construction
- Stainless steel impeller
- High efficiency

PUMP SPECIFICATIONS

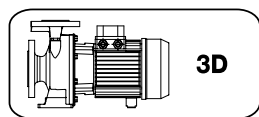
- Maximum operating pressure: 10 bar
- Temperature of the liquid:
 - 5°C – +90°C
 - 5°C – +110°C (versions H-HS-HW-HSW)
 - 5°C – +120°C (version E)
- MEI > 0.4

For further information, please consult our Data Books on the website www.ebaraeurope.com

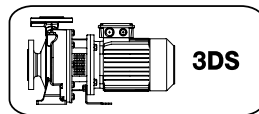
MOTOR SPECIFICATIONS

- IE2 high energy-efficiency motors: from 1.1kW up to 5.5 kW for 3D4
- IE3 high energy-efficiency motors: from 7.5kW up to 22kW for 3D series
- from 1.1kW up to 22kW for 3DS 3DP series
- from 0.75kW to 3kW for 3DS4 3DP4
- Self-ventilated 2-pole and 4-pole motors
- Isolation class F (B for high temperatures)
- Protection rating IP 55
- Single-phase voltage 230V ±10%, 50Hz, three-phase voltage 230/400 ±10% (up to 4kW included) 50Hz, three-phase voltage 400/690V ±10% (from 5.5 kW and above) 50Hz
- Protection to be arranged by the user

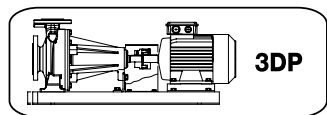
Available in 3 different versions with 2-pole and 4-pole motors



3D Monoblock with extended motor shaft



3DS Monoblock with standard motor and rigid joint



3DP On base, with standard motor and elastic joint

3DPF version (only hydraulic part) available on request

MATERIALS

- Cast iron pump body EN-GJL-250-EN 1561
- Impeller made of:
 - AISI 304 steel for SERIES 3D 32, 40, 50
 - AISI 316 microcast steel for SERIES 3D 65
- AISI 304 steel shaft (part coming into contact with liquid)
- Mechanical seal made of:
 - Ceramic/Carbon/NBR (standard)
 - Ceramic/Carbon/FPM (version H)
 - SiC/SiC/FPM (version HS)
 - Tungsten carbide/Tungsten carbide/FPM (version HW)
 - SiC/Tungsten carbide/FPM (version HSW)
 - Ceramic/Carbon/EPDM (version E)

SPECIAL VERSIONS

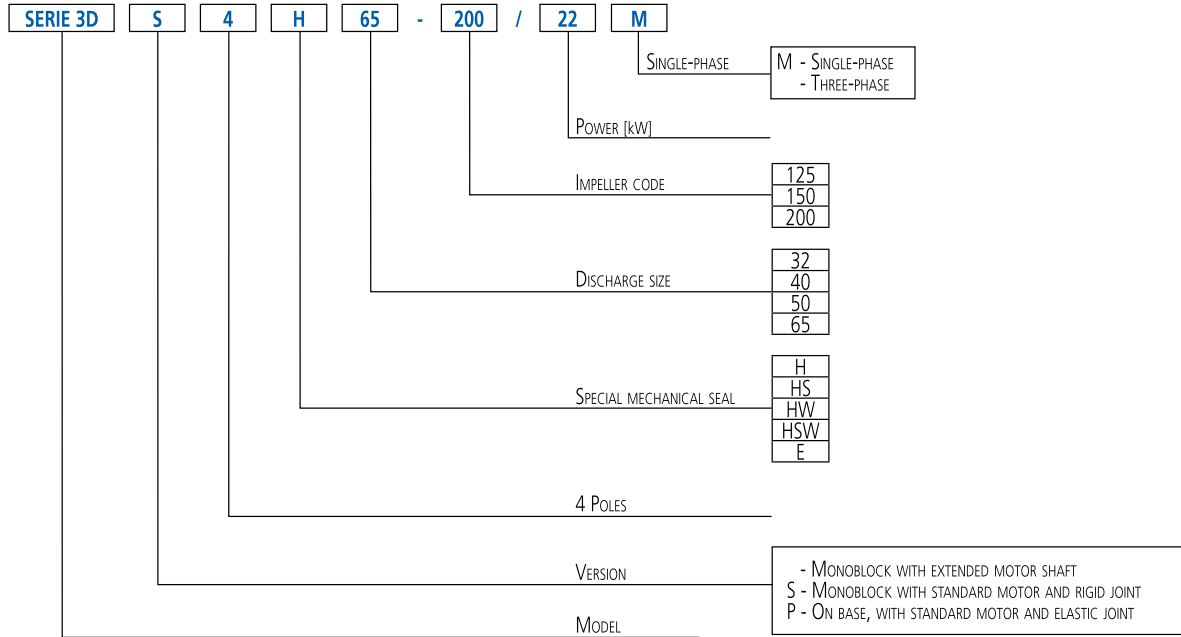
- Special voltages
- Special mechanical seals



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IDENTIFICATION CODE



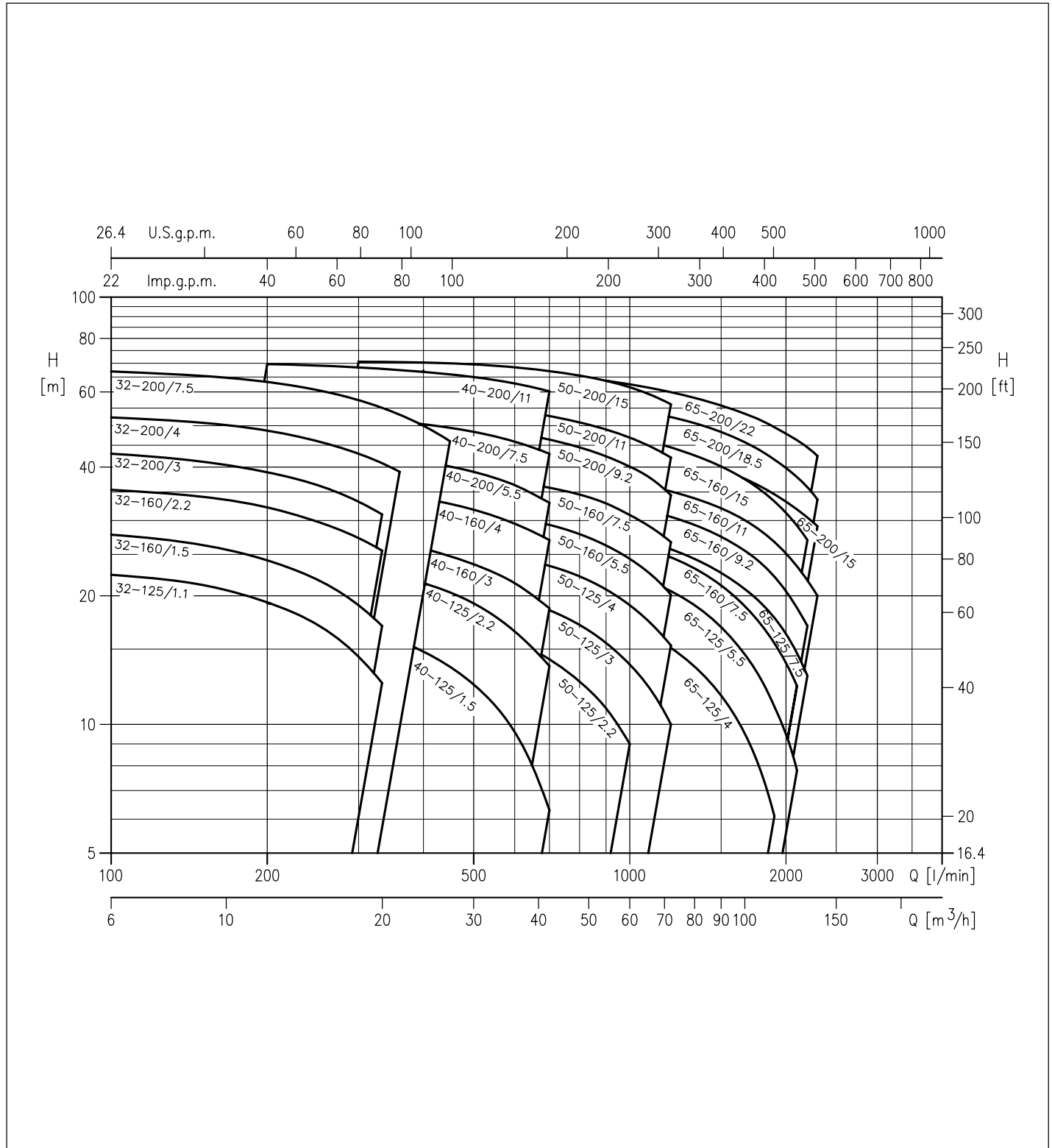
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PERFORMANCE RANGE at 2900 min⁻¹ (according to ISO 9906 Attachment A)

2 Poles



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SERIES 3D(.) 32 PERFORMANCE TABLE

2 Poles

Model	P ₂		Q=Flow rate									
	[HP]	[kW]	l/min m ³ /h	100 6	150 9	200 12	250 15	300 18	333 20	360 21,6	400 24	450 27
			H=Head [m]									
3D(.) 32-125/1.1 (M)	1,5	1,1	22,4	21,2	19,3	17,1	14,4	12,5	-	-	-	-
3D(.) 32-160/1.5 (M)	2	1,5	27,5	25,9	23,7	21,3	18,5	16,4	-	-	-	-
3D(.) 32-160/2.2 (M)	3	2,2	35,4	34,1	32,2	29,8	27,3	25,5	-	-	-	-
3D(.) 32-200/3.0	4	3	43,0	41,0	39,0	36,5	33,0	31,0	-	-	-	-
3D(.) 32-200/4.0	5,5	4	52,5	51,0	49,0	46,0	43,0	41,0	39,0	-	-	-
3D(.) 32-200/7.5	10	7,5	67,0	65,0	63,0	61,0	57,0	55,0	53,0	50,0	46,0	-

SERIES 3D(.) 40 PERFORMANCE TABLE

2 Poles

Model	P ₂		Q=Flow rate									
	[HP]	[kW]	l/min m ³ /h	200 12	250 15	300 18	350 21	400 24	450 27	500 30	600 36	700 42
			H=Head [m]									
3D(.) 40-125/1.5 (M)	2	1,5	18,2	17,6	16,8	15,9	14,8	13,7	12,4	9,6	6,3	-
3D(.) 40-125/2.2 (M)	3	2,2	24,4	23,9	23,2	22,4	21,4	20,4	19,2	16,5	13,7	-
3D(.) 40-160/3.0	4	3	29,4	28,7	27,8	26,8	25,8	24,8	23,7	21,4	18,7	-
3D(.) 40-160/4.0	5,5	4	37,2	36,5	35,7	34,8	33,8	32,8	31,8	29,5	27,0	-
3D(.) 40-200/5.5	7,5	5,5	44,5	44,0	43,0	42,0	41,0	40,0	39,0	36,3	33,0	-
3D(.) 40-200/7.5	10	7,5	53,5	53,0	52,0	51,5	50,5	49,5	48,5	46,0	43,0	-
3D(.) 40-200/11	15	11	70,0	69,0	68,5	67,5	67,0	66,0	65,0	63,0	60,0	-

SERIES 3D(.) 50 PERFORMANCE TABLE

2 Poles

Model	P ₂		Q=Flow rate									
	[HP]	[kW]	l/min m ³ /h	400 24	500 30	600 36	700 42	800 48	900 54	1000 60	1100 66	1200 72
			H=Head [m]									
3D(.) 50-125/2.2 (M)	3	2,2	18,0	17,0	15,7	14,2	12,6	10,9	9,0	-	-	-
3D(.) 50-125/3.0	4	3	21,5	20,8	19,8	18,5	17,1	15,5	13,8	12,0	10,0	-
3D(.) 50-125/4.0	5,5	4	25,8	25,3	24,5	23,5	22,2	20,7	19,0	17,2	15,3	-
3D(.) 50-160/5.5	7,5	5,5	32,0	31,5	30,5	29,3	27,9	26,2	24,4	22,4	20,0	-
3D(.) 50-160/7.5	10	7,5	38,2	37,6	36,9	35,8	34,5	32,9	30,9	28,9	26,7	-
3D(.) 50-200/9.2	12,5	9,2	-	49,5	48,0	46,5	44,5	42,5	40,0	37,6	34,4	-
3D(.) 50-200/11	15	11	-	55,5	54,5	52,5	51,0	49,0	47,0	44,5	42,0	-
3D(.) 50-200/15	20	15	-	69,5	68,5	67,0	65,5	63,5	61,5	59,0	56,0	-

SERIES 3D(.) 65 PERFORMANCE TABLE

2 Poles

Model	P ₂		Q=Flow rate									
	[HP]	[kW]	l/min m ³ /h	600 36	700 42	1000 60	1300 78	1600 96	1900 114	2100 126	2200 132	2300 138
			H=Head [m]									
3D(.) 65-125/4.0	5,5	4	20,4	19,8	17,2	14,0	10,4	6,0	-	-	-	-
3D(.) 65-125/5.5	7,5	5,5	-	25,0	22,5	19,4	15,5	11,0	8,0	-	-	-
3D(.) 65-125/7.5	10	7,5	-	29,6	27,5	24,7	21,5	17,8	14,7	13,0	-	-
3D(.) 65-160/7.5	10	7,5	-	29,0	26,6	23,5	19,8	15,5	12,3	-	-	-
3D(.) 65-160/9.2	12,5	9,2	-	34,7	32,4	29,6	26,3	22,2	18,8	17,0	-	-
3D(.) 65-160/11	15	11	-	39,0	37,0	34,0	31,0	27,0	23,0	22,0	20,0	-
3D(.) 65-160/15	20	15	-	46,0	44,0	41,5	38,4	34,6	31,9	30,5	29,0	-
3D(.) 65-200/15	20	15	-	51,0	47,0	43,0	38,6	33,3	29,2	27,0	-	-
3D(.) 65-200/18.5	25	18,5	-	58,0	55,0	51,0	47,0	41,5	37,9	35,9	33,6	-
3D(.) 65-200/22	30	22	-	65,5	62,5	58,5	54,5	49,5	46,0	44,5	42,5	-

(M) Single-phase version only for 3D SERIES

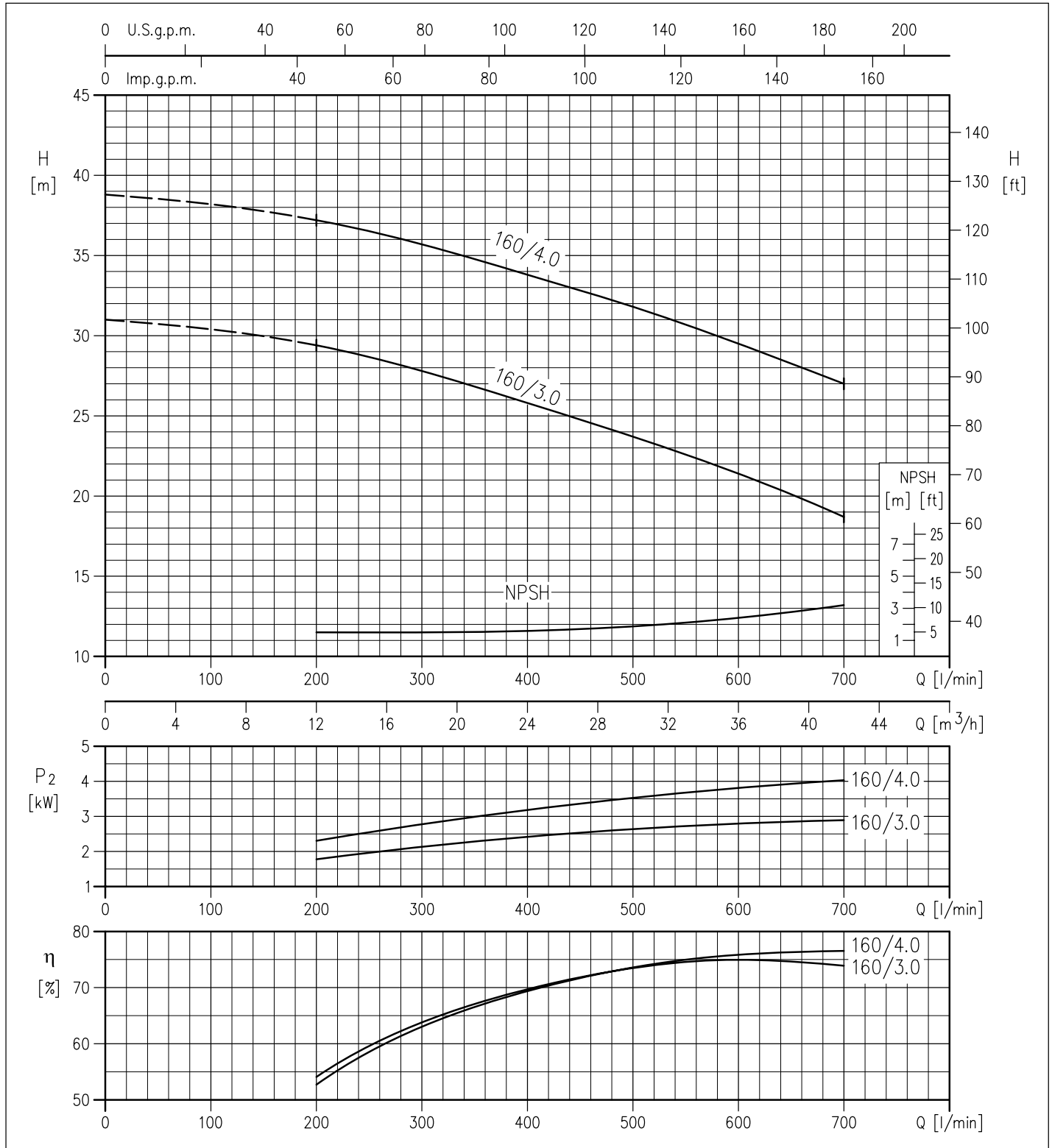


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PERFORMANCE CURVES 3D(.) 40-160 series at 2900 min⁻¹ (according to ISO 9906 Attachment A)

2 Poles



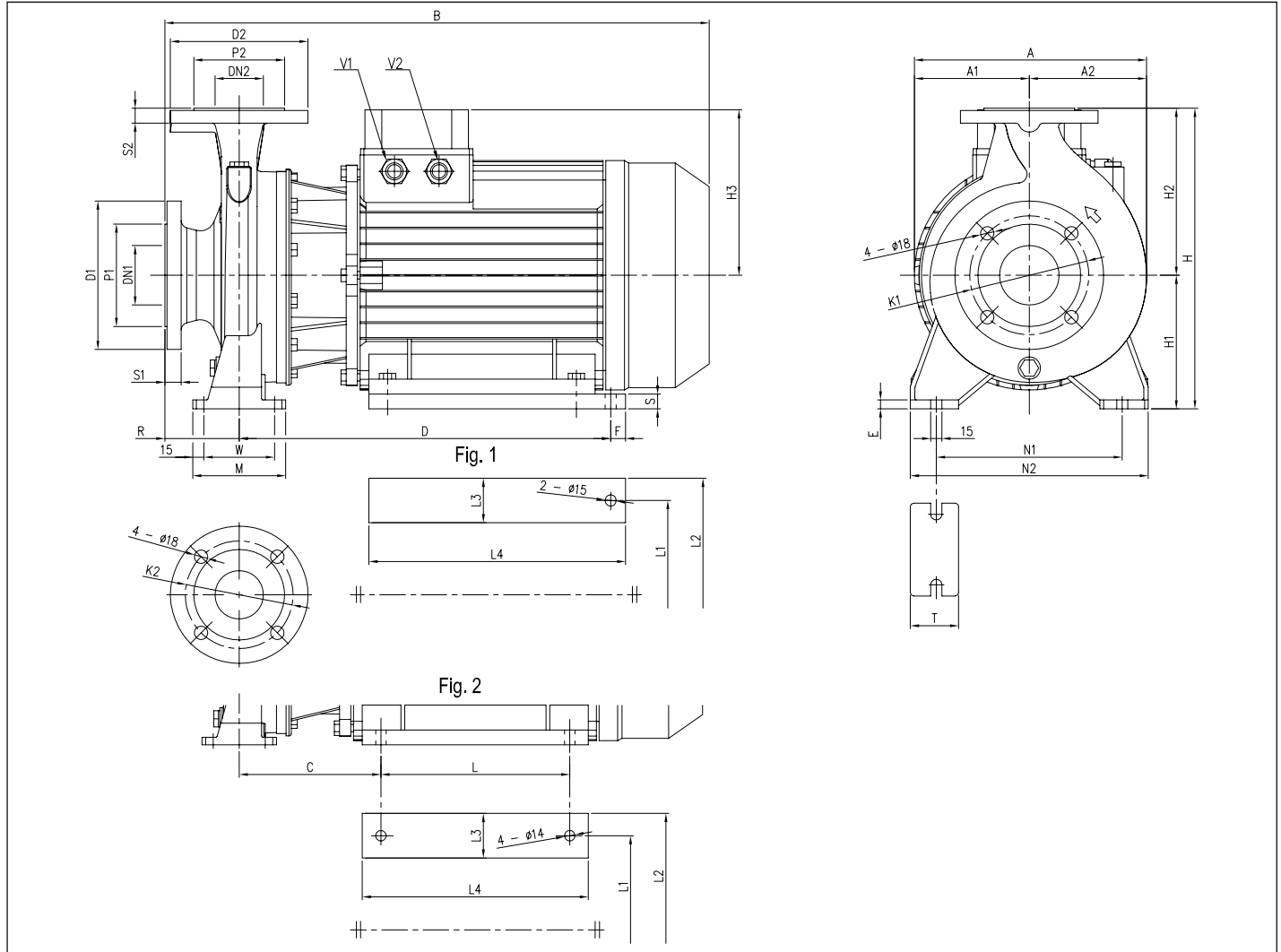
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DIMENSIONS 3D SERIES - from 15kW and above

2 Poles



DIMENSIONAL TABLE

Model	Dimensions [mm]																				Weight [kg]																	
	DN1	P1	K1	D1	S1	DN2	P2	K2	D2	S2	H	H1	H2	H3	Fig.	R	W	M	N1	N2		T	E	A	A1	A2	B	C	L	L1	L2	L3	L4	D	F	S	V1	V2
3D 50-200/15	65	122	145	185	20	50	102	125	165	20	360	160	200	223	2	100	70	100	212	265	50	10	296	154,5	141,5	723	190,5	254	254	318	64	304	-	-	-	PG 21	PG 21	124,1
3D 65-160/15	80	138	160	200	22	65	122	145	185	20	360	160	200	223	2	100	95	125	212	280	65	12	296	154,5	141,5	732	199,5	254	254	318	64	304	-	-	-	PG 21	PG 21	129,1
3D 65-200/15	80	138	160	200	22	65	122	145	185	20	405	180	225	223	1	100	95	125	250	320	65	12	312	154,5	157,5	732	-	-	254	314	60	345	499,5	20	20	PG 21	PG 21	129,1
3D 65-200/18,5	80	138	160	200	22	65	122	145	185	20	405	180	225	223	1	100	95	125	250	320	65	12	312	154,5	157,5	732	-	-	254	314	60	345	499,5	20	20	PG 21	PG 21	146,3
3D 65-200/22	80	138	160	200	22	65	122	145	185	20	405	180	225	223	1	100	95	125	250	320	65	12	312	154,5	157,5	732	-	-	254	314	60	345	499,5	20	20	PG 21	PG 21	158,1

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