

پیشگامان صنعت و ایمنی پرگاس

PISHGAMAN SANAAT & IMENI PERGAS



طراح، مشاور و مجری سیستم‌های ایمنی و تاسیساتی

دارای صلاحیت سازمان آتش‌نشانی تهران

اخذ تاییدیه آتش‌نشانی

برای اطلاعات بیشتر اسکن کنید



تهران . خیابان سعدی شمالی . خیابان

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3D SERIES

CENTRIFUGAL PUMPS CLOSE COUPLED AND STANDARDIZED EN 733

Centrifugal pumps close coupled (3D) and standardized EN 733 (3DS-3DP) in cast iron.

APPLICATIONS

- Water and clean liquids not chemically aggressive handling
- Water supply
- Pressure boosting
- Washing and industrial plants
- Water circulation in air-conditioning systems
- Irrigation and agriculture

TECHNICAL DETAILS

- Highly resistant construction
- Impeller in stainless steel
- High efficiency

PUMP TECHNICAL DATA

- Maximum working pressure: 10 bar
 - Temperature of the liquid:
 - 5°C ÷ +90°C
 - 5°C ÷ +110°C (H-HS-HW-HSW versions)
 - 5°C ÷ +120°C (E version)
 - MEI > 0,4 for 3D(.) SERIES 2 poles, MEI > 0,1 for 3D(.) SERIES 4 poles
- For further information please see our Data Book on the web site www.ebaraeurope.com

MOTOR TECHNICAL DATA

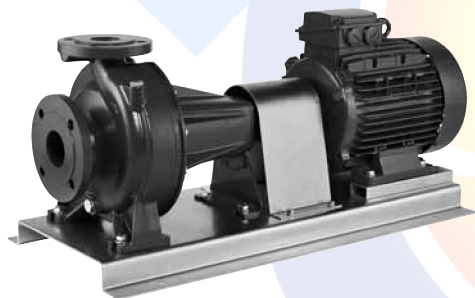
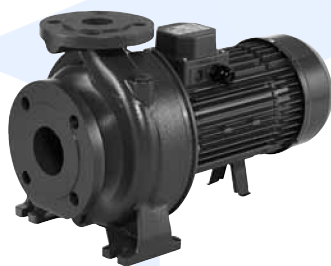
- High efficiency IE2 motors starting from 0,75kW
- High efficiency IE3 motors starting from 7,5kW up to 22kW
- Self-ventilated 2 and 4 poles asynchronous motor
- Insulation class F (B for high temperatures)
- Protection degree IP 55
- 230V ±10% single phase voltage 50Hz,
- 230/400 ±10% (up to 4kW included) three phase 50Hz,
- 400/690V ±10% (from 5,5 kW and above) three phase 50Hz
- Protection is user's responsibility

MATERIALS

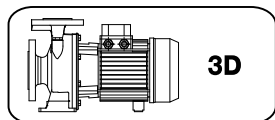
- Pump casing in cast iron EN-GJL-250-EN 1561
- Impeller in:
 - AISI 304 for 3D(.) SERIES 32, 40, 50
 - AISI 316 microcasted for 3D(.) SERIES 65
- Shaft in AISI 304 (part in contact with the liquid)
- Mechanical seal in:
 - Ceramic/Carbon/NBR (standard)
 - Ceramic/Carbon/FPM (H version)
 - SiC/SiC/FPM (HS version)
 - Tungsten Carbide/Tungsten Carbide/FPM (HW version)
 - SiC/Tungsten Carbide/FPM (HSW version)
 - Ceramic/Carbon/EPDM (E version)

SPECIAL VERSIONS

- Special voltages
- Special mechanical seals

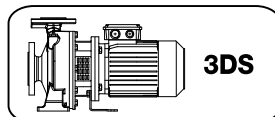


Available in 3 different versions with 2 and 4 pole motors



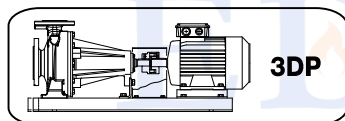
3D

Monobloc with extended motor shaft



3DS

Monobloc with standard motor and rigid joint



3DP

On base, with standard motor and flexible coupling

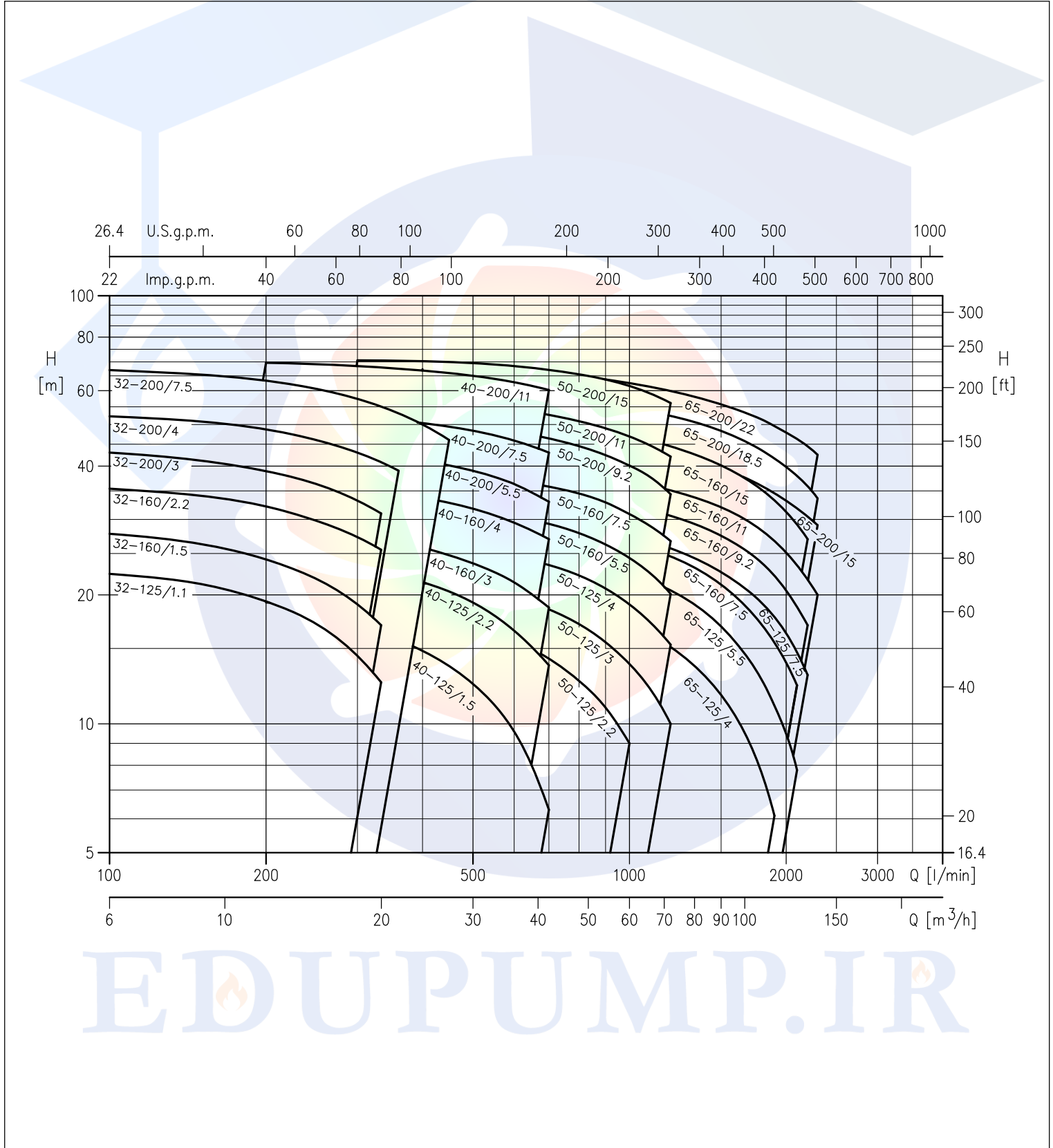


3D SERIES

CENTRIFUGAL PUMPS CLOSE COUPLED AND STANDARDIZED EN 733

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

2 Poles



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3D SERIES

CENTRIFUGAL PUMPS CLOSE COUPLED AND STANDARDIZED EN 733

PERFORMANCE TABLE 3D(.) SERIES 32

2 Poles

Model	P ₂		Q=Flow rate									
	[HP]	[kW]	l/min	100	150	200	250	300	333	360	400	450
			m ³ /h	6	9	12	15	18	20	21,6	24	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	-

PERFORMANCE TABLE 3D(.) SERIES 40

2 Poles

Model	P ₂		Q=Flow rate									
	[HP]	[kW]	l/min	200	250	300	350	400	450	500	600	700
			m ³ /h	12	15	18	21	24	27	30	36	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	-

PERFORMANCE TABLE 3D(.) SERIES 50

2 Poles

Model	P ₂		Q=Flow rate									
	[HP]	[kW]	l/min	400	500	600	700	800	900	1000	1100	1200
			m ³ /h	24	30	36	42	48	54	60	66	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	-

PERFORMANCE TABLE 3D(.) SERIES 65

2 Poles

Model	P ₂		Q=Flow rate									
	[HP]	[kW]	l/min	600	700	1000	1300	1600	1900	2100	2200	2300
			m ³ /h	36	42	60	78	96	114	126	132	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	29,0v	-
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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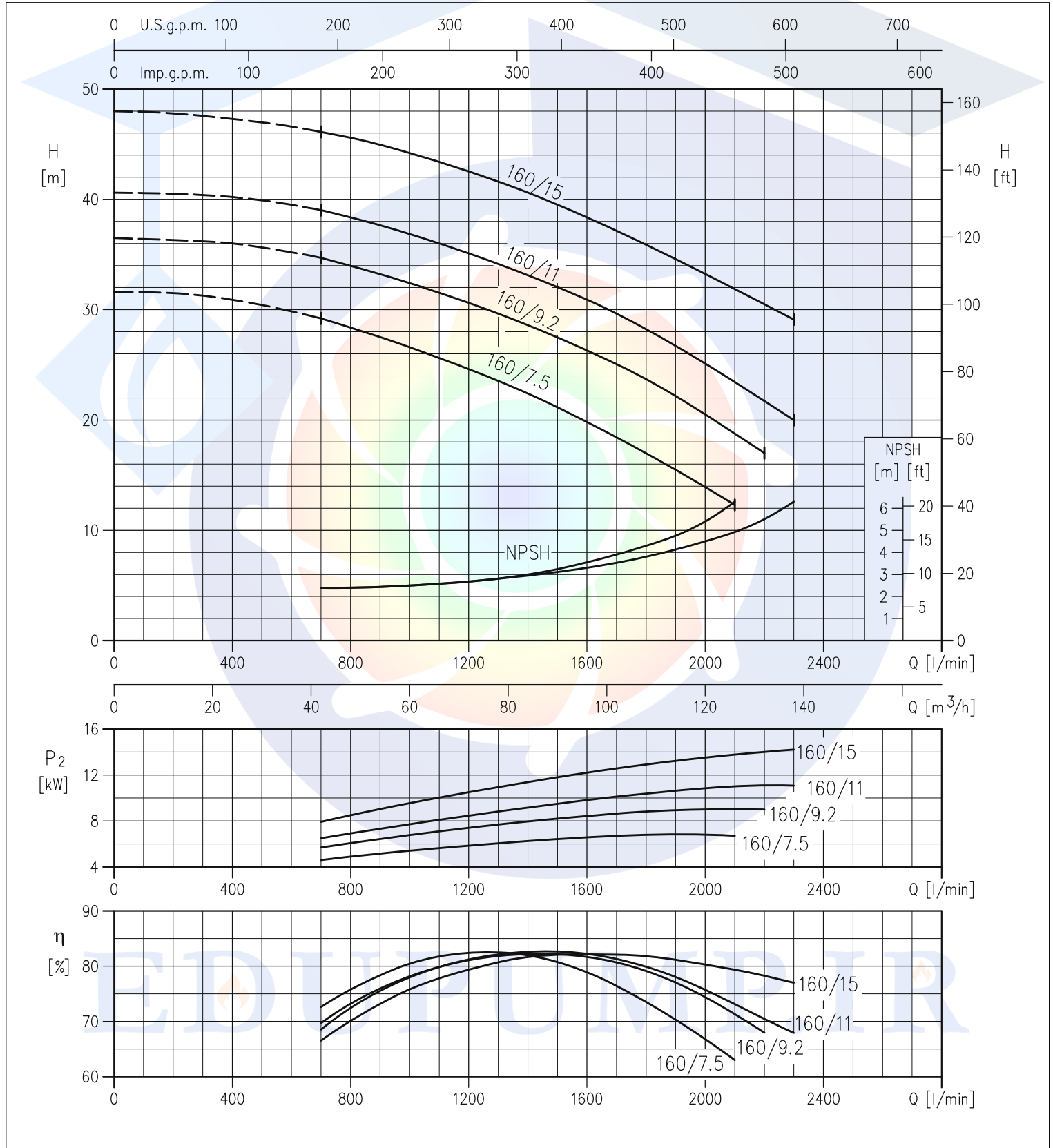


3D SERIES

CENTRIFUGAL PUMPS CLOSE COUPLED AND STANDARDIZED EN 733

PERFORMANCE CURVES 3D(.) SERIES 65-160 at 2900 min⁻¹ (according to ISO 9906 Attachment A)

2 Poles



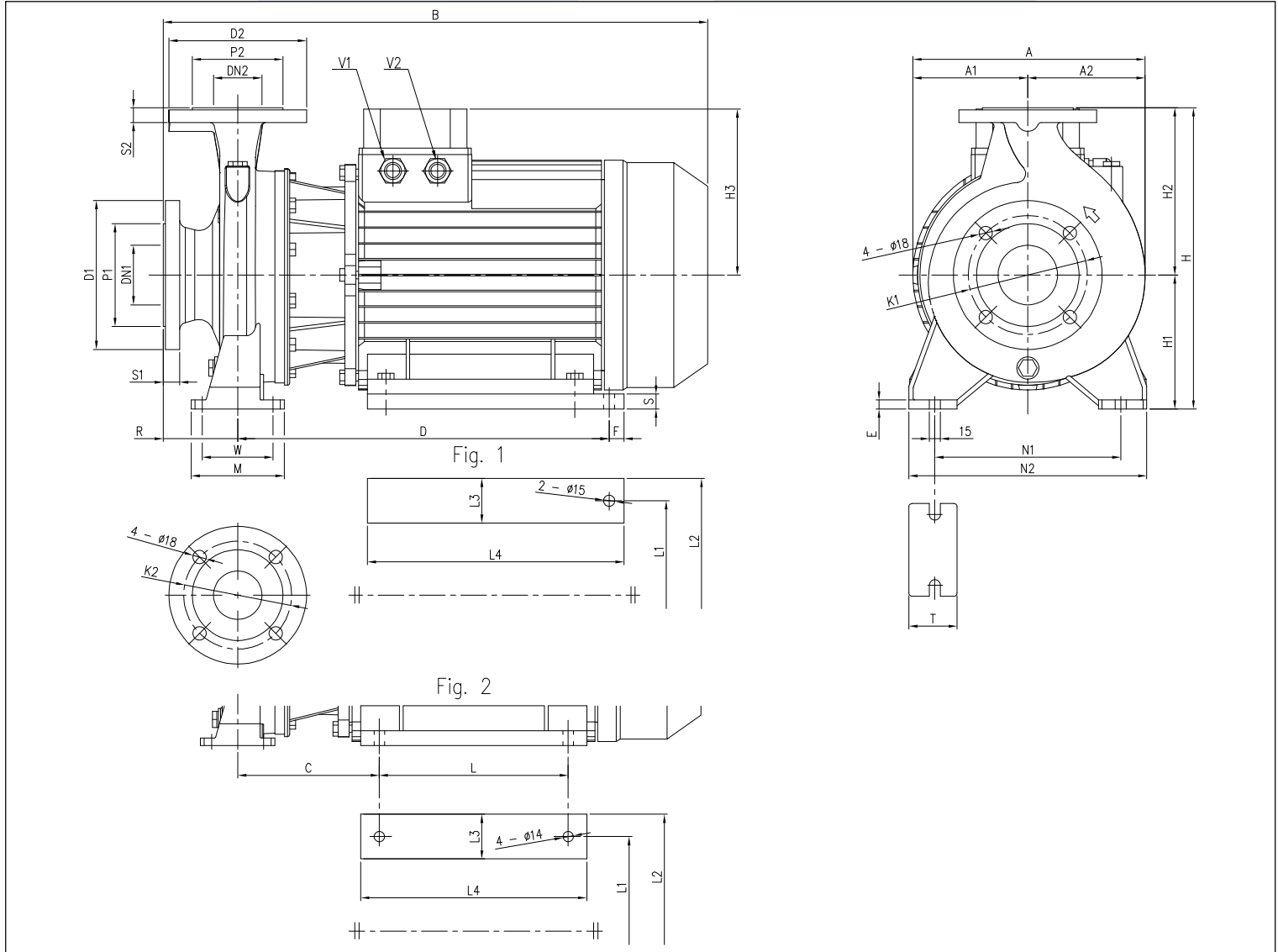
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3D SERIES

CENTRIFUGAL PUMPS CLOSE COUPLED AND STANDARDIZED EN 733

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	121,0	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	126,0	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	126,0	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	140,0	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	152,0	158,1

[*]= IE3 motors only

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