

# 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.ebaraurope.com](http://www.ebaraurope.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

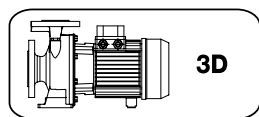
### MATERIALS

- 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

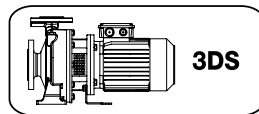
- Special voltages
- Special mechanical seals

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



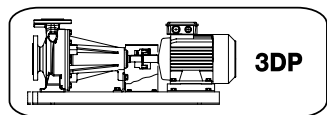
**3D**

Monoblock with extended motor shaft



**3DS**

Monoblock with standard motor and rigid joint



**3DP**

On base, with standard motor and elastic joint

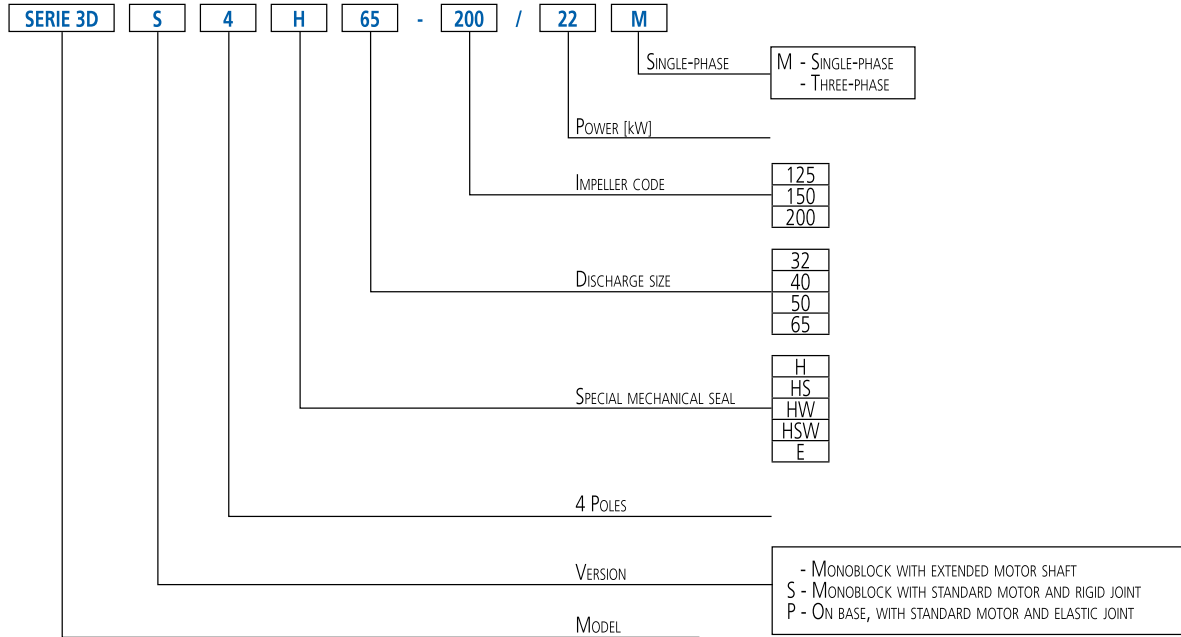
3DPF version (only hydraulic part) available on request



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### IDENTIFICATION CODE



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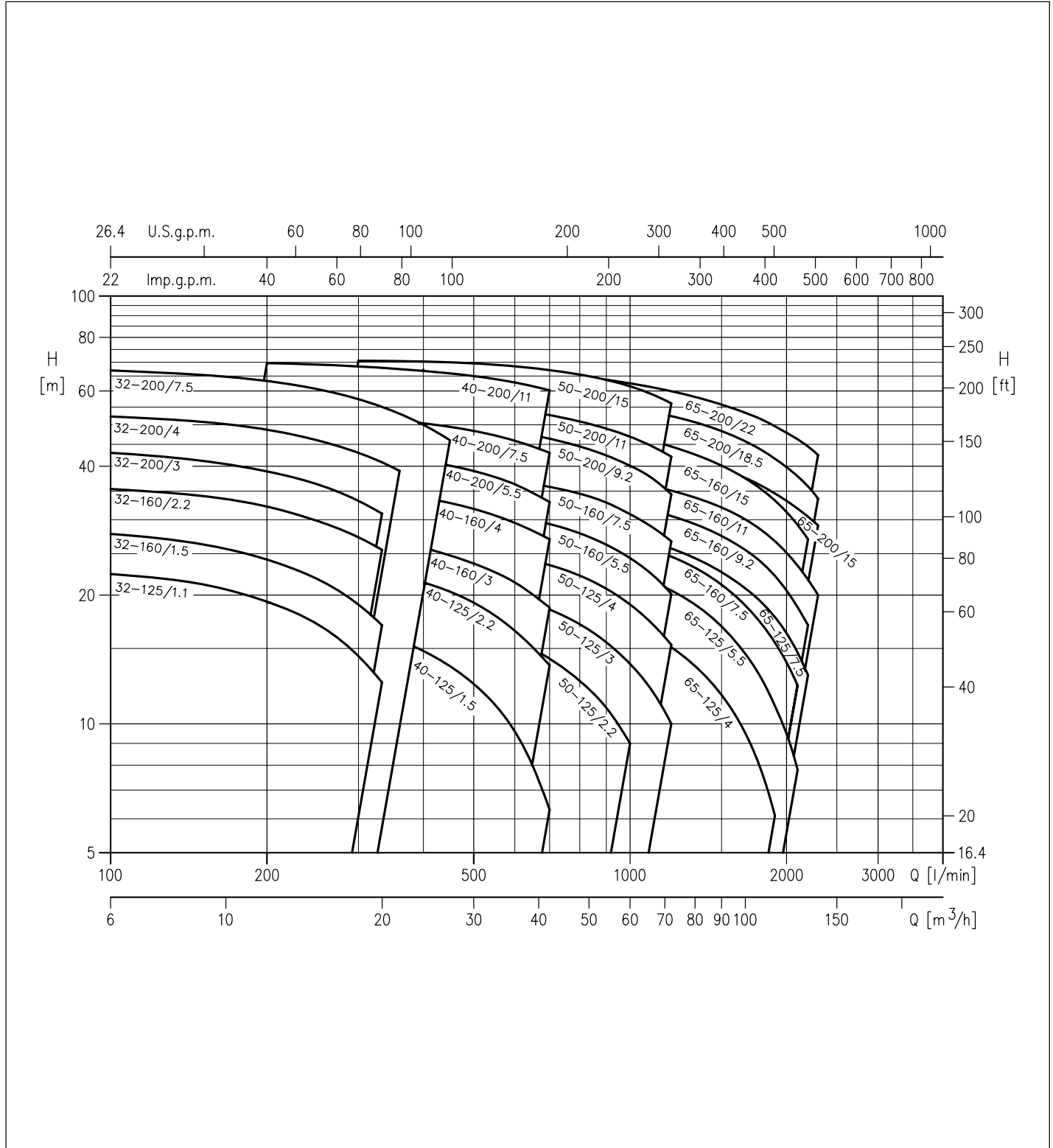


# 3D SERIES

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

PERFORMANCE RANGE at 2900 min<sup>-1</sup> (according to ISO 9906 Attachment A)

2 Poles



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# 3D SERIES

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

**SERIES 3D(.) 32 PERFORMANCE TABLE**

2 Poles

Model	P <sub>2</sub>		Q=Flow rate									
	[HP]	[kW]	l/min m <sup>3</sup> /h	100	150	200	250	300	333	360	400	450
			H=Head [m]									
3D(.) 32-125/1.1 (M)	1,5	1,1	6	22,4	21,2	19,3	17,1	14,4	12,5	-	-	-
3D(.) 32-160/1.5 (M)	2	1,5	6	27,5	25,9	23,7	21,3	18,5	16,4	-	-	-
3D(.) 32-160/2.2 (M)	3	2,2	6	35,4	34,1	32,2	29,8	27,3	25,5	-	-	-
3D(.) 32-200/3.0	4	3	6	43,0	41,0	39,0	36,5	33,0	31,0	-	-	-
3D(.) 32-200/4.0	5,5	4	6	52,5	51,0	49,0	46,0	43,0	41,0	39,0	-	-
3D(.) 32-200/7.5	10	7,5	6	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 <sub>2</sub>		Q=Flow rate									
	[HP]	[kW]	l/min m <sup>3</sup> /h	200	250	300	350	400	450	500	600	700
			H=Head [m]									
3D(.) 40-125/1.5 (M)	2	1,5	12	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	12	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	12	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	12	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	12	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	12	53,5	53,0	52,0	51,5	50,5	49,5	48,5	46,0	43,0
3D(.) 40-200/11	15	11	12	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 <sub>2</sub>		Q=Flow rate									
	[HP]	[kW]	l/min m <sup>3</sup> /h	400	500	600	700	800	900	1000	1100	1200
			H=Head [m]									
3D(.) 50-125/2.2 (M)	3	2,2	24	18,0	17,0	15,7	14,2	12,6	10,9	9,0	-	-
3D(.) 50-125/3.0	4	3	24	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	24	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	24	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	24	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	24	-	49,5	48,0	46,5	44,5	42,5	40,0	37,6	34,4
3D(.) 50-200/11	15	11	24	-	55,5	54,5	52,5	51,0	49,0	47,0	44,5	42,0
3D(.) 50-200/15	20	15	24	-	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 <sub>2</sub>		Q=Flow rate									
	[HP]	[kW]	l/min m <sup>3</sup> /h	600	700	1000	1300	1600	1900	2100	2200	2300
			H=Head [m]									
3D(.) 65-125/4.0	5,5	4	36	20,4	19,8	17,2	14,0	10,4	6,0	-	-	-
3D(.) 65-125/5.5	7,5	5,5	36	-	25,0	22,5	19,4	15,5	11,0	8,0	-	-
3D(.) 65-125/7.5	10	7,5	36	-	29,6	27,5	24,7	21,5	17,8	14,7	13,0	-
3D(.) 65-160/7.5	10	7,5	36	-	29,0	26,6	23,5	19,8	15,5	12,3	-	-
3D(.) 65-160/9.2	12,5	9,2	36	-	34,7	32,4	29,6	26,3	22,2	18,8	17,0	-
3D(.) 65-160/11	15	11	36	-	39,0	37,0	34,0	31,0	27,0	23,0	22,0	20,0
3D(.) 65-160/15	20	15	36	-	46,0	44,0	41,5	38,4	34,6	31,9	30,5	29,0
3D(.) 65-200/15	20	15	36	-	51,0	47,0	43,0	38,6	33,3	29,2	27,0	-
3D(.) 65-200/18.5	25	18,5	36	-	58,0	55,0	51,0	47,0	41,5	37,9	35,9	33,6
3D(.) 65-200/22	30	22	36	-	65,5	62,5	58,5	54,5	49,5	46,0	44,5	42,5

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

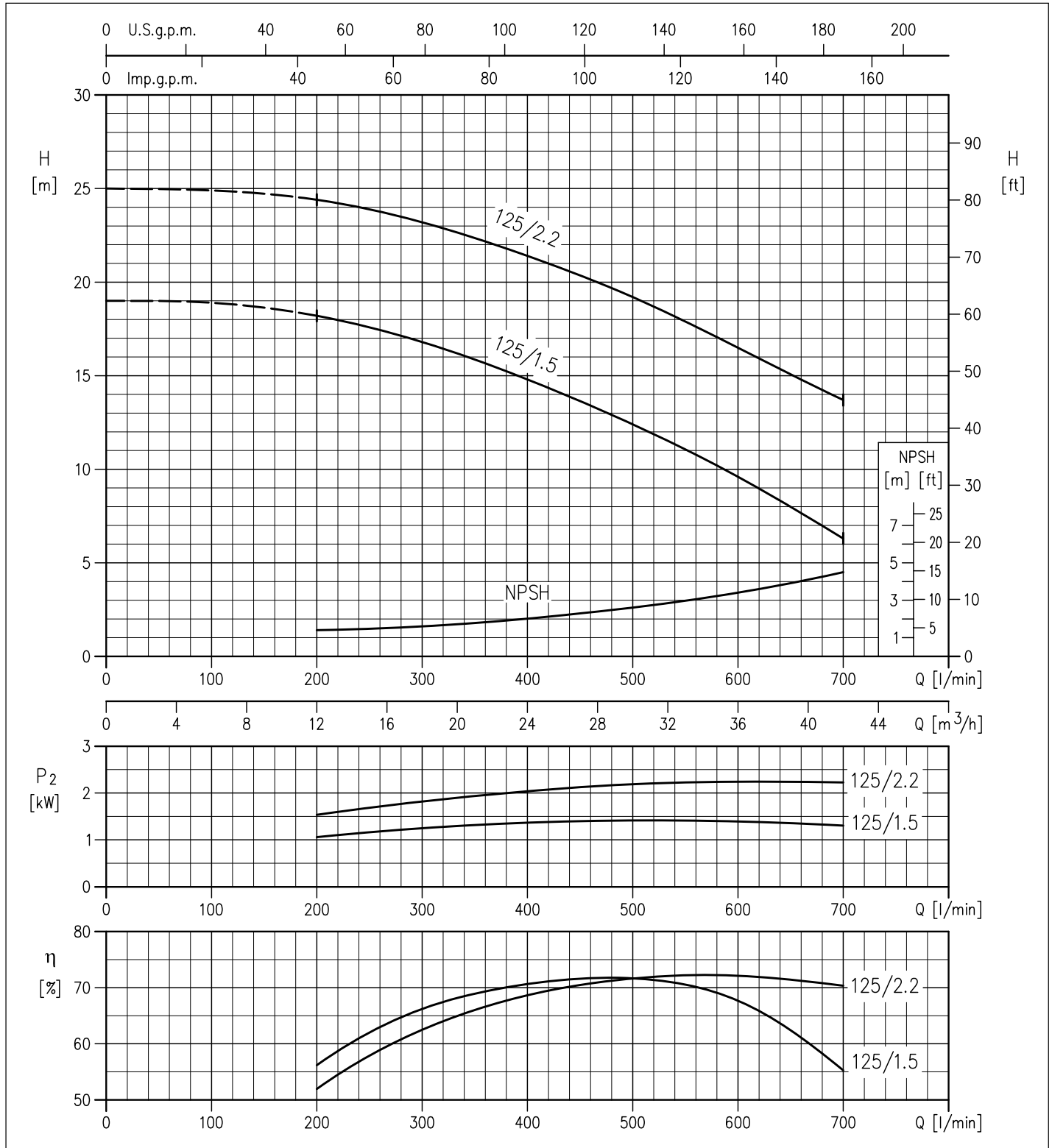


# 3D SERIES

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

PERFORMANCE CURVES 3D(.) 40-125 series at 2900 min<sup>-1</sup> (according to ISO 9906 Attachment A)

2 Poles



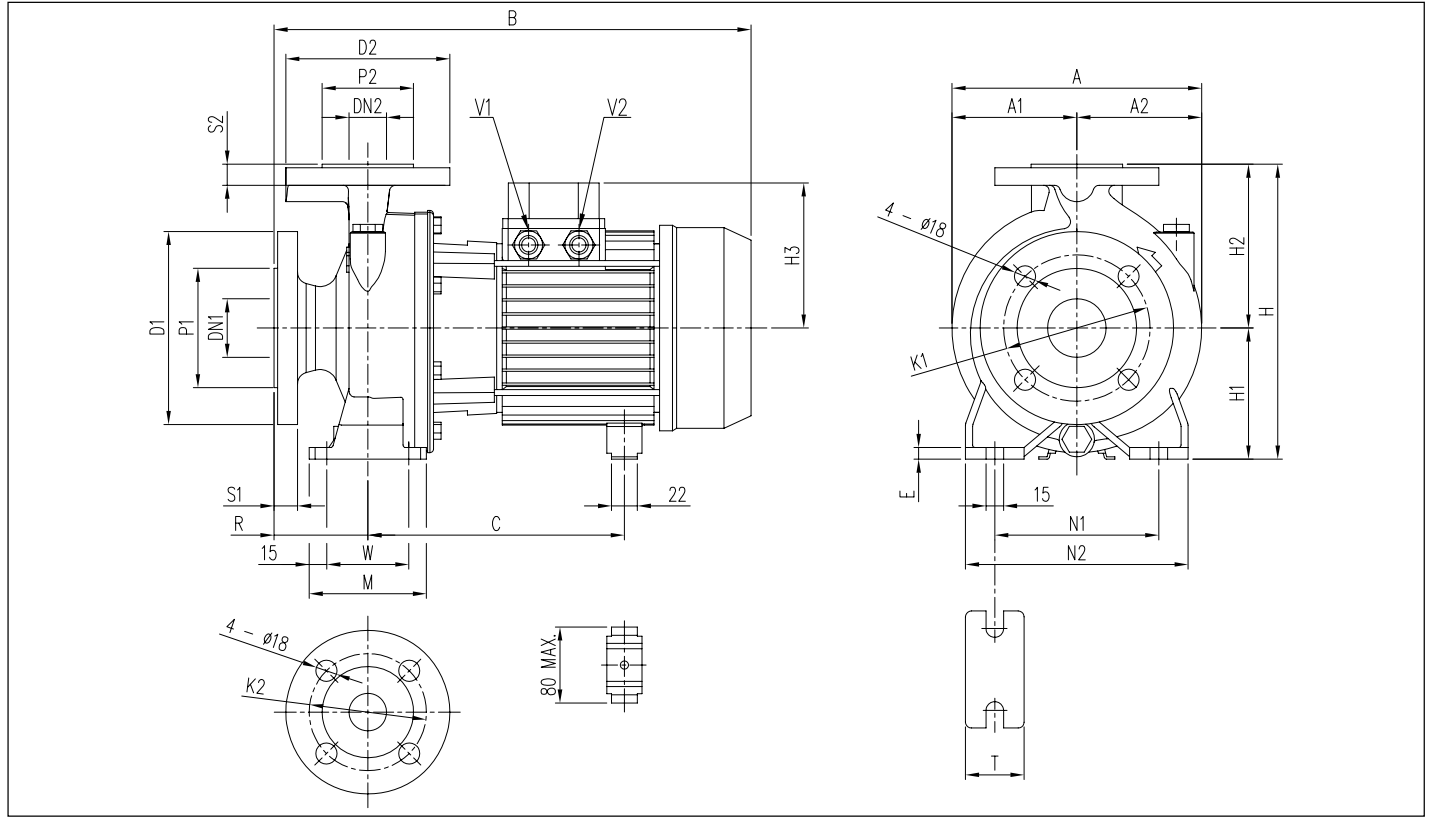
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# 3D SERIES

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

DIMENSIONS 3D SERIES - up to 11kW

2 Poles



DIMENSIONAL TABLE

Model	Dimensions [mm]																				Weight [kg]															
	DN1 Ø	P1 Ø	K1	D1	S1	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	H	H1	H2	H3 [2]	[1]	R	W	M	N1	N2	T	E	A	A1	A2	B [2]	[1]	[*]	C [2]	[1]	V1 [1]	[2]	V2 [1]	[2]	[1]	[*]
3D 32-125/1.1(M)	50	102	125	165	20	32	78	100	140	18	252	112	140	141	124	80	70	100	140	190	50	10	213	106,5	106,5	408	407	-	219÷230	219÷230	-	M20x1,5	PG13,5	25,0	29,5	-
3D 32-160/1.5(M)	50	102	125	165	20	32	78	100	140	18	292	132	160	141	124	80	70	100	190	240	50	10	254	127	127	408	407	-	219÷230	219÷230	-	M20x1,5	PG13,5	29,0	33,5	-
3D 32-160/2.2(M)	50	102	125	165	20	32	78	100	140	18	292	132	160	141	124	80	70	100	190	240	50	10	254	127	127	408	432	-	219÷230	244÷255	-	M20x1,5	PG13,5	35,7	36,0	-
3D 32-200/3.0	50	102	125	165	20	32	78	100	140	18	340	160	180	-	124	80	70	100	190	240	50	10	296	148	148	-	471	-	244÷255	-	-	-	PG13,5	-	47,5	-
3D 32-200/4.0	50	102	125	165	20	32	78	100	140	18	340	160	180	-	141	80	70	100	190	240	50	10	296	148	148	-	494	-	253	-	-	-	PG16	-	50,0	-
3D 32-200/7.5	50	102	125	165	20	32	78	100	140	18	340	160	180	-	150	80	70	100	190	240	50	10	296	148	148	-	519	539	-	275	PG13,5	-	PG16	-	-	65,1
3D 40-125/1.5(M)	65	122	145	185	20	40	88	110	150	18	252	112	140	141	124	80	70	100	160	210	50	10	220	108	112	408	407	-	219÷230	219÷230	-	M20x1,5	PG13,5	25,5	30,0	-
3D 40-125/2.2(M)	65	122	145	185	20	40	88	110	150	18	252	112	140	141	124	80	70	100	160	210	50	10	220	108	112	408	432	-	219÷230	244÷255	-	M20x1,5	PG13,5	31,7	32,0	-
3D 40-160/3.0	65	122	145	185	20	40	88	110	150	18	292	132	160	-	124	80	70	100	190	240	50	12	254	127	127	-	471	-	244÷255	-	-	-	PG13,5	-	39,0	-
3D 40-160/4.0	65	122	145	185	20	40	88	110	150	18	292	132	160	-	141	80	70	100	190	240	50	12	254	127	127	-	494	-	253	-	-	-	PG16	-	48,0	-
3D 40-200/5.5	65	122	145	185	20	40	88	110	150	18	340	160	180	-	150	100	70	100	212	265	50	12	296	148	148	-	539	-	275	PG13,5	-	PG16	-	60,0	-	
3D 40-200/7.5	65	122	145	185	20	40	88	110	150	18	340	160	180	-	150	100	70	100	212	265	50	12	296	148	148	-	539	559	-	275	PG13,5	-	PG16	-	-	66,1
3D 40-200/11	65	122	145	185	20	40	88	110	150	18	340	160	180	-	178	100	70	100	212	265	50	12	296	148	148	-	595	-	359	PG13,5	-	PG21	-	-	82,4	
3D 50-125/2.2(M)	65	122	145	185	20	50	102	125	165	20	292	132	160	141	124	100	70	100	190	240	50	10	254	127	127	428	452	-	219÷230	244÷255	-	M20x1,5	PG13,5	34,4	37,0	-
3D 50-125/3.0	65	122	145	185	20	50	102	125	165	20	292	132	160	-	124	100	70	100	190	240	50	10	254	127	127	-	491	-	244÷255	-	-	-	PG13,5	-	39,5	-
3D 50-125/4.0	65	122	145	185	20	50	102	125	165	20	292	132	160	-	141	100	70	100	190	240	50	10	254	127	127	-	514	-	253	-	-	-	PG16	-	48,0	-
3D 50-160/5.5	65	122	145	185	20	50	102	125	165	20	340	160	180	-	150	100	70	100	212	265	50	10	296	148	148	-	539	-	275	PG13,5	-	PG16	-	60,0	-	
3D 50-160/7.5	65	122	145	185	20	50	102	125	165	20	340	160	180	-	150	100	70	100	212	265	50	10	296	148	148	-	539	559	-	275	PG13,5	-	PG16	-	-	67,1
3D 50-200/9.2	65	122	145	185	20	50	102	125	165	20	360	160	200	-	178	100	70	100	212	265	50	10	296	148	148	-	595	-	359	PG13,5	-	PG21	-	-	77,0	
3D 50-200/11	65	122	145	185	20	50	102	125	165	20	360	160	200	-	178	100	70	100	212	265	50	10	296	148	148	-	595	-	359	PG13,5	-	PG21	-	-	82,4	
3D 65-125/4.0	80	138	160	200	22	65	122	145	185	20	340	160	180	-	141	100	95	125	212	280	65	12	263	127	136	-	514	-	253	-	-	-	PG16	-	53,0	-
3D 65-125/5.5	80	138	160	200	22	65	122	145	185	20	340	160	180	-	150	100	95	125	212	280	65	12	263	127	136	-	539	-	275	PG13,5	-	PG16	-	65,0	-	
3D 65-125/7.5	80	138	160	200	22	65	122	145	185	20	340	160	180	-	150	100	95	125	212	280	65	12	263	127	136	-	539	559	-	275	PG13,5	-	PG16	-	-	72,6
3D 65-160/7.5	80	138	160	200	22	65	122	145	185	20	360	160	200	-	150	100	95	125	212	280	65	12	296	148	148	-	539	559	-	275	PG13,5	-	PG16	-	-	73,1
3D 65-160/9.2	80	138	160	200	22	65	122	145	185	20	360	160	200	-	178	100	95	125	212	280	65	12	296	148	148	-	595	-	359	PG13,5	-	PG21	-	-	85,0	
3D 65-160/11	80	138	160	200	22	65	122	145	185	20	360	160	200	-	178	100	95	125	212	280	65	12	296	148	148	-	595	-	359	PG13,5	-	PG21	-	-	87,4	

[1]= Only three-phase [2]= Only single-phase [\*]= Only IE3 motors

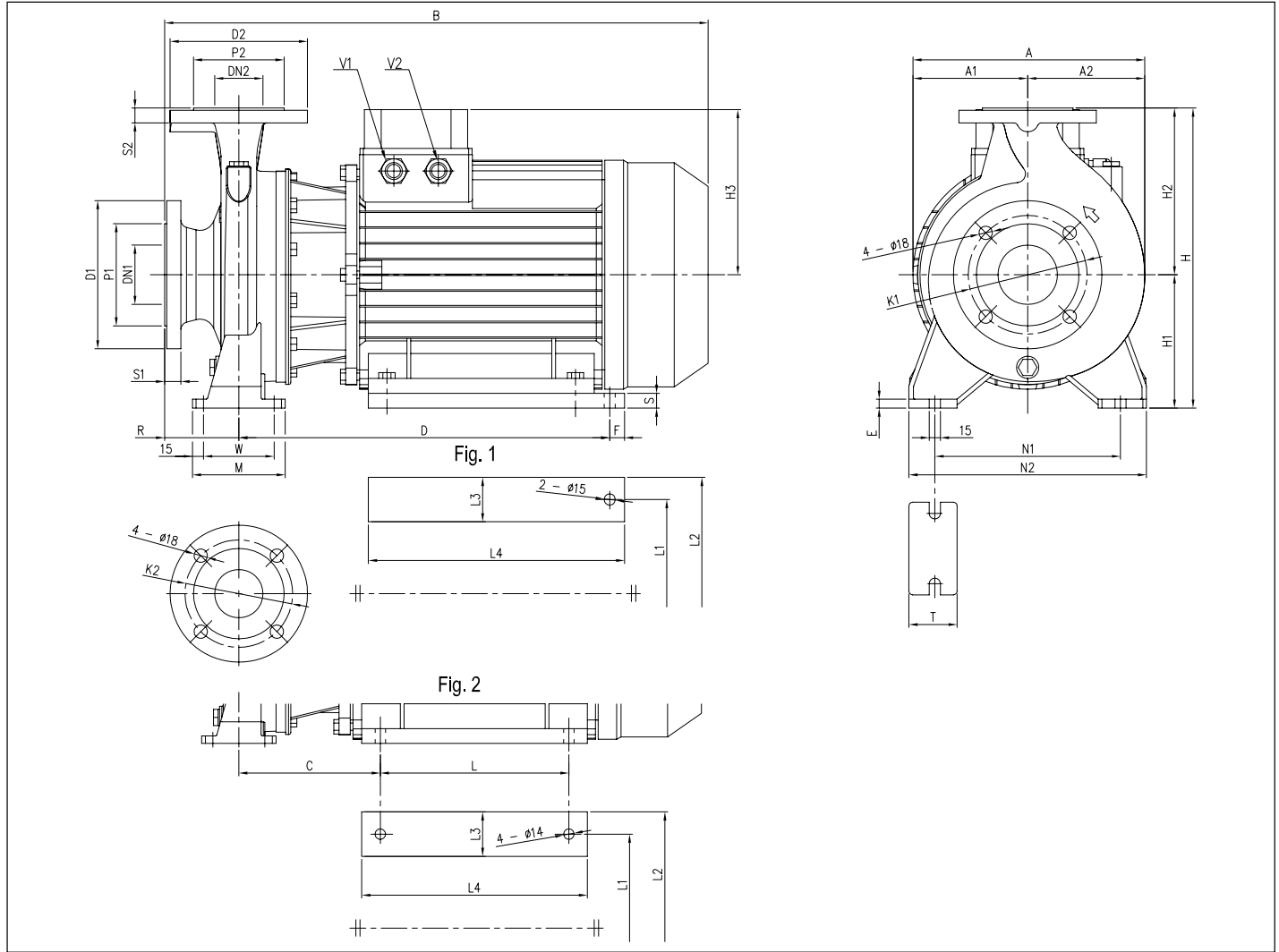
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# 3D SERIES

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

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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