

SPECIFICATIONS

50Hz

Rev. G

EVM(.) 3-18

PUMP				
Type		EVMG	EVM	EVML
Liquid Handled	Type of liquid	Clean water, water contains glycol and moderately aggressive fluids	*Drinking water, Clean water, water contains glycol and moderately aggressive fluids	Clean water, water contains glycol and moderately aggressive fluids
	Temperature [°C]	-15 to +120		
	Max solid content	50 ppm (Particle size 0,1-0,25mm or less)		
	Max chlorine ion density	500 ppm		
Maximum working pressure		[MPa]	1.6 / 2.5	
		[bar]	16 / 25	
Construction	Impeller	Closed centrifugal type		
	Shaft seal type	Mechanical seal		
	Bearing	Sealed ball bearing with permanent grease		
Pipe connection	Suction /Discharge	See dimension table		
Material	Impeller	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)
	Intermediate casing	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)
	Bottom casing	Cast iron	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
	Casing cover	Cast iron	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
	Outer casing	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)
	Shaft	EN 1.4401 (AISI 316)		
	Liner ring	PTFE / EN 1.4301 (AISI 304)		PTFE / EN 1.4401 (AISI 316)
	Motor bracket	Cast iron	Cast iron / EN 1.4301 (AISI 304)	Cast iron / EN 1.4401 (AISI 316)
	Mechanical Seal	Silicon Carbide/Carbon/EPDM		Silicon Carbide/Carbon/FPM
	O-Ring	EPDM	EPDM	FPM
Applicable standard of test		ISO 9906 annex A		

* Approval for drinking water application

WRAS Approved product

DM174/2004

MOTOR		
Type	Electric -TEFC	
	Single phase	Three phase
Efficiency	/	- from 0.37 kW up to 0.55 kW IE2 from 0.75 kW up to 15 kW
No. of Poles	2	
Rotation speed [min-1]	≈ 2900	
Insulation class	Class F (class B for temperature rise)	
Protection form	IP 55	
Power rating	[kW]	0.37+2.2
	[HP]	0.5+3.0
Frequency [Hz]	50	
Voltage [V]	230 ± 10 %	230/400 ± 10% (up to 4 kW)
		400/690 ± 10% (above 5.5 kW)
Over load protection	User to provide	
Casing material	Aluminium	
Flange mount (IEC motor)	IM B14 (up to 4 kW)	
	IM B5 (above 5.5 kW)	

SELECTION CHART

50Hz

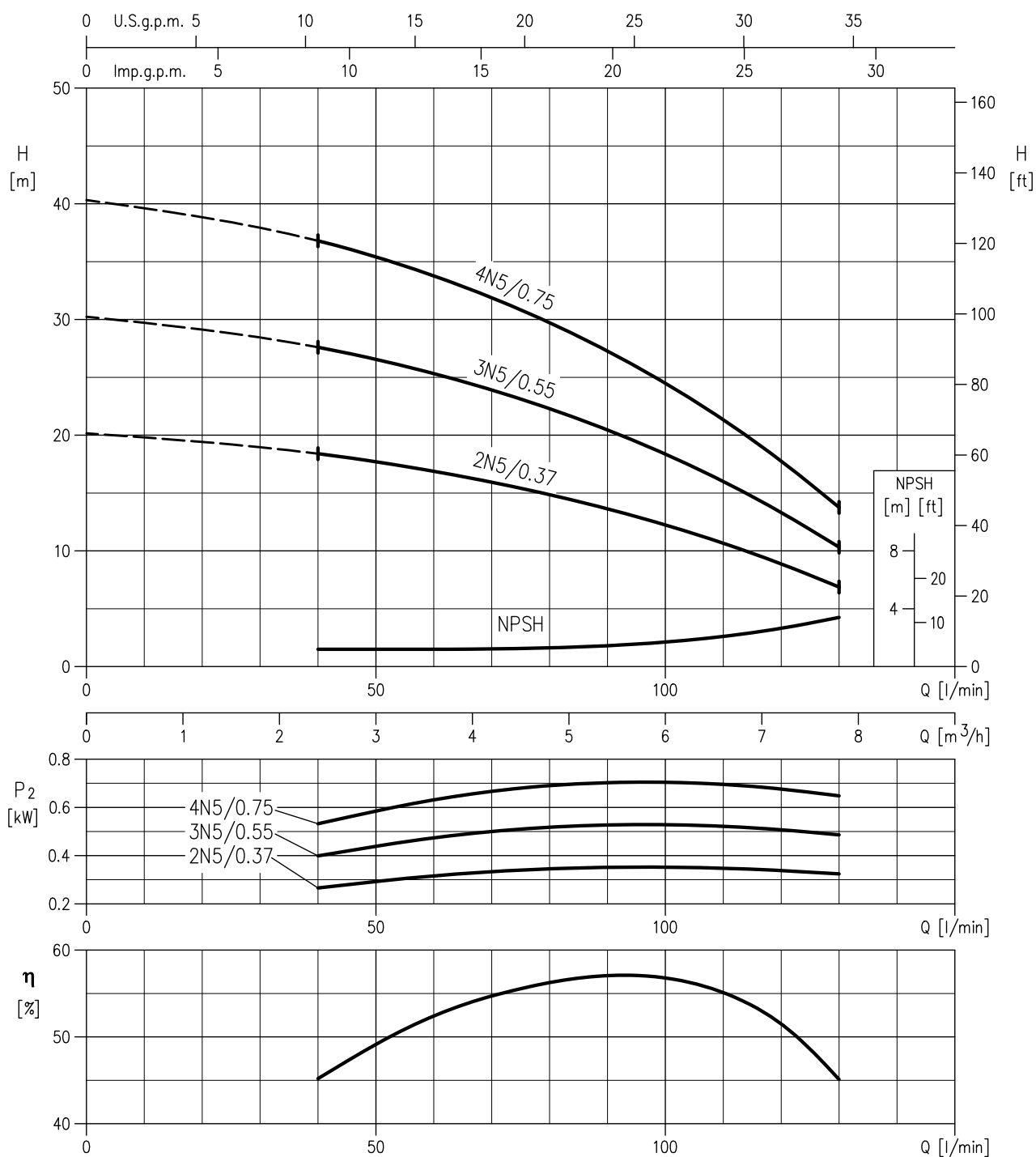
Rev. G

EVM(.) 3-18

Pump Type EVM(.)		Motor			Maximum working pressure (MPa)	Q=Capacity													
Single phase	Three phase	kW	HP	Size		l/min	0	20	40	60	75	100	130	150	200	250	300	350	400
						m³/h	0	1.2	2.4	3.6	4.5	6.0	7.8	9	12	15	18	21	24
						H=Total manometric head in meters													
3 2N5/0.37 M	3 2N5/0.37	0.37	0.5	71	1.6	18.6	16.7	14.0	10.3	6.6	-	-	-	-	-	-	-	-	
3 3N5/0.37 M	3 3N5/0.37	0.37	0.5	71		27.9	25.1	20.9	15.5	9.9	-	-	-	-	-	-	-	-	
3 4N5/0.55 M	3 4N5/0.55	0.55	0.75	71		37.2	33.4	27.9	20.6	13.2	-	-	-	-	-	-	-	-	
3 5N5/0.55 M	3 5N5/0.55	0.55	0.75	71		46.5	42.0	34.9	25.8	16.5	-	-	-	-	-	-	-	-	
3 6N5/0.75 M	3 6N5/0.75	0.75	1	80		56.0	50.0	42.0	30.9	19.8	-	-	-	-	-	-	-	-	
3 7N5/0.75 M	3 7N5/0.75	0.75	1	80		65.0	58.5	49.0	36.1	23.1	-	-	-	-	-	-	-	-	
3 9N5/1.1 M	3 9N5/1.1	1.1	1.5	80		84.0	75.0	63.0	46.5	29.7	-	-	-	-	-	-	-	-	
3 11N5/1.1 M	3 11N5/1.1	1.1	1.5	80		102.0	92.0	77.0	56.5	36.3	-	-	-	-	-	-	-	-	
3 13N5/1.5 M	3 13N5/1.5	1.5	2	90S		121.0	109.0	90.5	67.0	43.0	-	-	-	-	-	-	-	-	
3 15N5/1.5 M	3 15N5/1.5	1.5	2	90S		140.0	125.0	105.0	77.5	49.5	-	-	-	-	-	-	-	-	
3 18F5/2.2 M	3 18F5/2.2	2.2	3	90L	2.5	167.0	151.0	126.0	92.5	59.5	-	-	-	-	-	-	-	-	
3 22F5/2.2 M	3 22F5/2.2	2.2	3	90L		205.0	184.0	154.0	113.0	72.5	-	-	-	-	-	-	-	-	
-	3 26F5/3.0	3	4	100		242.0	217.0	182.0	134.0	86.0	-	-	-	-	-	-	-	-	
5 2N5/0.37 M	5 2N5/0.37	0.37	0.5	71		20.2	-	18.4	16.9	15.4	12.2	6.9	-	-	-	-	-	-	
5 3N5/0.55 M	5 3N5/0.55	0.55	0.75	71	30.2	-	27.6	25.3	23.1	18.4	10.3	-	-	-	-	-	-		
5 4N5/0.75 M	5 4N5/0.75	0.75	1	80	40.5	-	36.8	33.8	30.8	24.5	13.8	-	-	-	-	-	-		
5 5N5/1.1 M	5 5N5/1.1	1.1	1.5	80	50.5	-	46.0	42.0	38.6	30.6	17.2	-	-	-	-	-	-		
5 6N5/1.1 M	5 6N5/1.1	1.1	1.5	80	60.5	-	55.0	50.5	46.5	36.7	20.6	-	-	-	-	-	-		
5 7N5/1.5 M	5 7N5/1.5	1.5	2	90S	70.5	-	64.5	59.0	54.0	43.0	24.1	-	-	-	-	-	-		
5 8N5/1.5 M	5 8N5/1.5	1.5	2	90S	80.5	-	73.5	67.5	61.5	49.0	27.5	-	-	-	-	-	-		
5 10N5/2.2 M	5 10N5/2.2	2.2	3	90L	102.0	-	93.5	86.0	79.0	63.0	36.6	-	-	-	-	-	-		
5 11N5/2.2 M	5 11N5/2.2	2.2	3	90L	113.0	-	103.0	94.5	86.5	69.5	40.5	-	-	-	-	-	-		
5 12N5/2.2 M	5 12N5/2.2	2.2	3	90L	123.0	-	112.0	103.0	94.5	75.5	44.0	-	-	-	-	-	-		
-	5 14N5/3.0	3	4	100	143.0	-	131.0	120.0	110.0	88.0	51.0	-	-	-	-	-	-		
-	5 16N5/3.0	3	4	100	164.0	-	150.0	138.0	126.0	101.0	58.5	-	-	-	-	-	-		
-	5 18F5/4.0	4	5.5	112	184.0	-	168.0	155.0	142.0	113.0	66.0	-	-	-	-	-	-		
-	5 19F5/4.0	4	5.5	112	194.0	-	178.0	163.0	150.0	120.0	69.5	-	-	-	-	-	-		
-	5 22F5/4.0	4	5.5	112	225.0	-	206.0	189.0	173.0	139.0	80.5	-	-	-	-	-	-		
-	5 24F5/5.5	5.5	7.5	132S	246.0	-	224.0	206.0	189.0	151.0	88.0	-	-	-	-	-	-		
10 2N5/0.75 M	10 2N5/0.75	0.75	1	80	22.0	-	-	-	21.0	20.4	18.9	17.6	13.2	7.8	-	-	-		
10 3N5/1.1 M	10 3N5/1.1	1.1	1.5	80	33.0	-	-	-	31.6	30.5	28.4	26.4	19.8	11.7	-	-	-		
10 4N5/1.5 M	10 4N5/1.5	1.5	2	90S	44.0	-	-	-	42.0	40.5	37.8	35.2	26.4	15.6	-	-	-		
10 5N5/2.2 M	10 5N5/2.2	2.2	3	90L	55.0	-	-	-	52.5	51.0	47.5	44.0	33.0	19.5	-	-	-		
10 6N5/2.2 M	10 6N5/2.2	2.2	3	90L	66.0	-	-	-	63.0	61.0	57.0	53.0	39.5	23.4	-	-	-		
-	10 8N5/3.0	3	4	100	88.0	-	-	-	84.0	81.5	75.5	70.5	52.5	31.2	-	-	-		
-	10 10N5/4.0	4	5.5	112	110.0	-	-	-	105.0	102.0	94.5	88.0	66.0	39.0	-	-	-		
-	10 11N5/4.0	4	5.5	112	121.0	-	-	-	116.0	112.0	104.0	97.0	72.5	43.0	-	-	-		
-	10 12N5/5.5	5.5	7.5	132S	134.0	-	-	-	130.0	126.0	118.0	111.0	86.5	55.0	-	-	-		
-	10 14N5/5.5	5.5	7.5	132S	157.0	-	-	-	151.0	147.0	138.0	130.0	101.0	64.5	-	-	-		
-	10 15F5/5.5	5.5	7.5	132S	2.5	168.0	-	-	-	162.0	158.0	148.0	139.0	108.0	69.0	-	-	-	
-	10 16F5/7.5	7.5	10	132S		179.0	-	-	-	173.0	168.0	158.0	148.0	115.0	73.5	-	-	-	
-	10 18F5/7.5	7.5	10	132S		202.0	-	-	-	194.0	189.0	177.0	167.0	129.0	83.0	-	-	-	
-	10 20F5/7.5	7.5	10	132S		224.0	-	-	-	216.0	210.0	197.0	185.0	144.0	92.0	-	-	-	
-	10 22F5/11	11	15	160M	1.6	246.0	-	-	-	238.0	231.0	217.0	204.0	158.0	101.0	-	-	-	
18 2F5/2.2 M	18 2F5/2.2	2.2	3	90L		32.0	-	-	-	-	-	31.0	30.3	28.5	25.7	21.9	17.2	11.6	
-	18 3F5/3.0	3	4	100		48.0	-	-	-	-	-	46.0	45.5	43.0	38.6	32.8	25.7	17.4	
-	18 4F5/4.0	4	5.5	112		64.0	-	-	-	-	-	61.5	60.5	57.0	51.5	44.0	34.3	23.2	
-	18 5F5/5.5	5.5	7.5	132S		80.0	-	-	-	-	-	77.0	75.5	71.5	64.5	54.5	43.0	29.0	
-	18 6F5/5.5	5.5	7.5	132S		96.0	-	-	-	-	-	92.0	91.0	85.5	77.0	65.5	51.5	34.8	
-	18 7F5/7.5	7.5	10	132S		112.0	-	-	-	-	-	108.0	106.0	100.0	90.0	76.5	60.0	40.5	
-	18 8F5/7.5	7.5	10	132S		128.0	-	-	-	-	-	123.0	121.0	114.0	103.0	87.5	68.5	46.5	
-	18 10F5/11	11	15	160M		162.0	-	-	-	-	-	157.0	155.0	147.0	134.0	116.0	93.5	69.0	
-	18 12F5/11	11	15	160M	2.5	194.0	-	-	-	-	-	189.0	186.0	177.0	160.0	139.0	112.0	83.0	
-	18 14F5/15	15	20	160M		227.0	-	-	-	-	-	220.0	217.0	206.0	187.0	162.0	131.0	96.5	
-	18 15F5/15	15	20	160M		243.0	-	-	-	-	-	236.0	233.0	221.0	201.0	174.0	141.0	104.0	
-	18 16F5/15	15	20	160M		259.0	-	-	-	-	-	252.0	249.0	236.0	214.0	186.0	150.0	110.0	

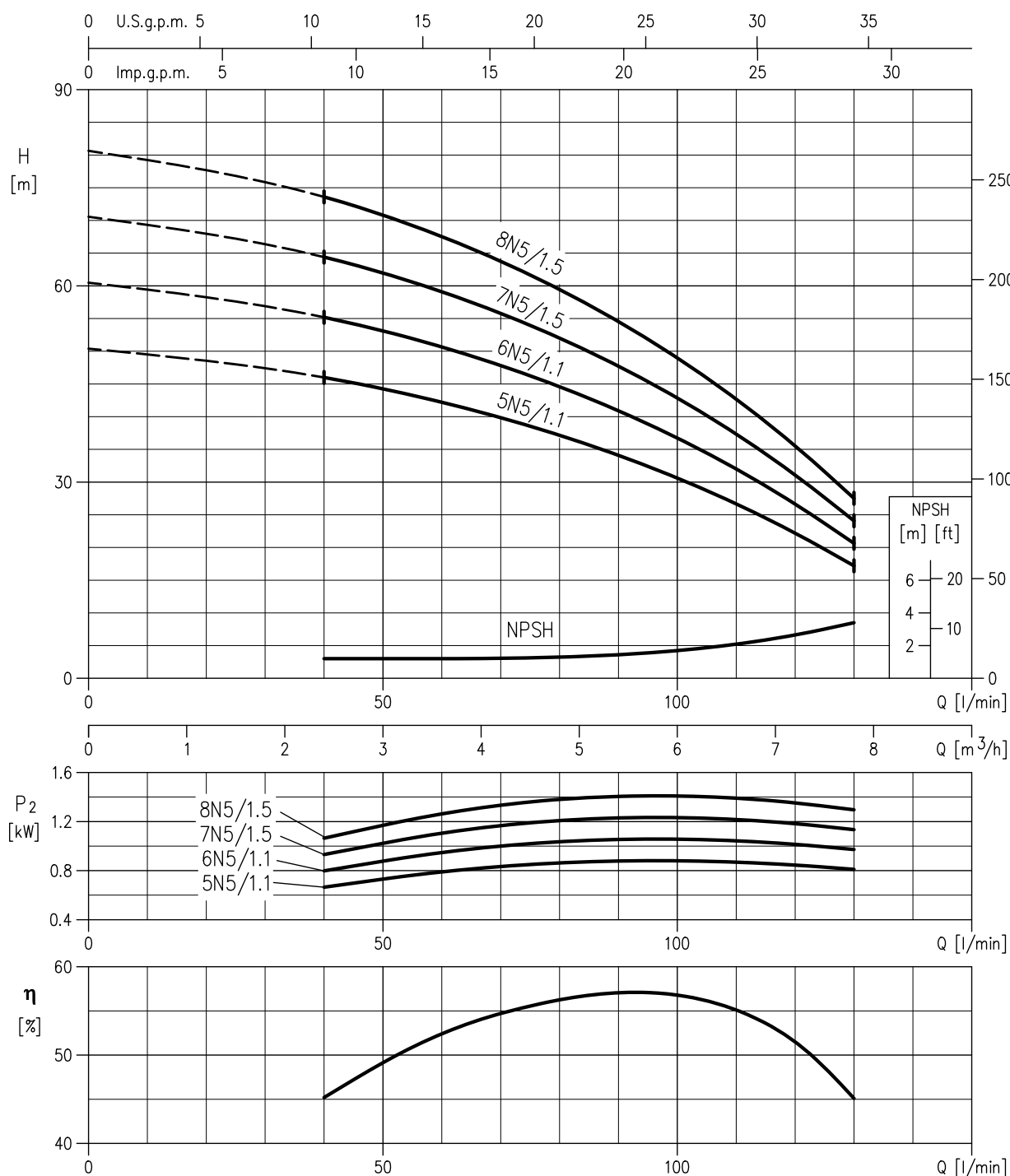
1.6 MPa=16 bar ; 2.5 MPa=25 bar

EVM(.)5 MEI > 0.70 - Impeller diameter = 95 mm



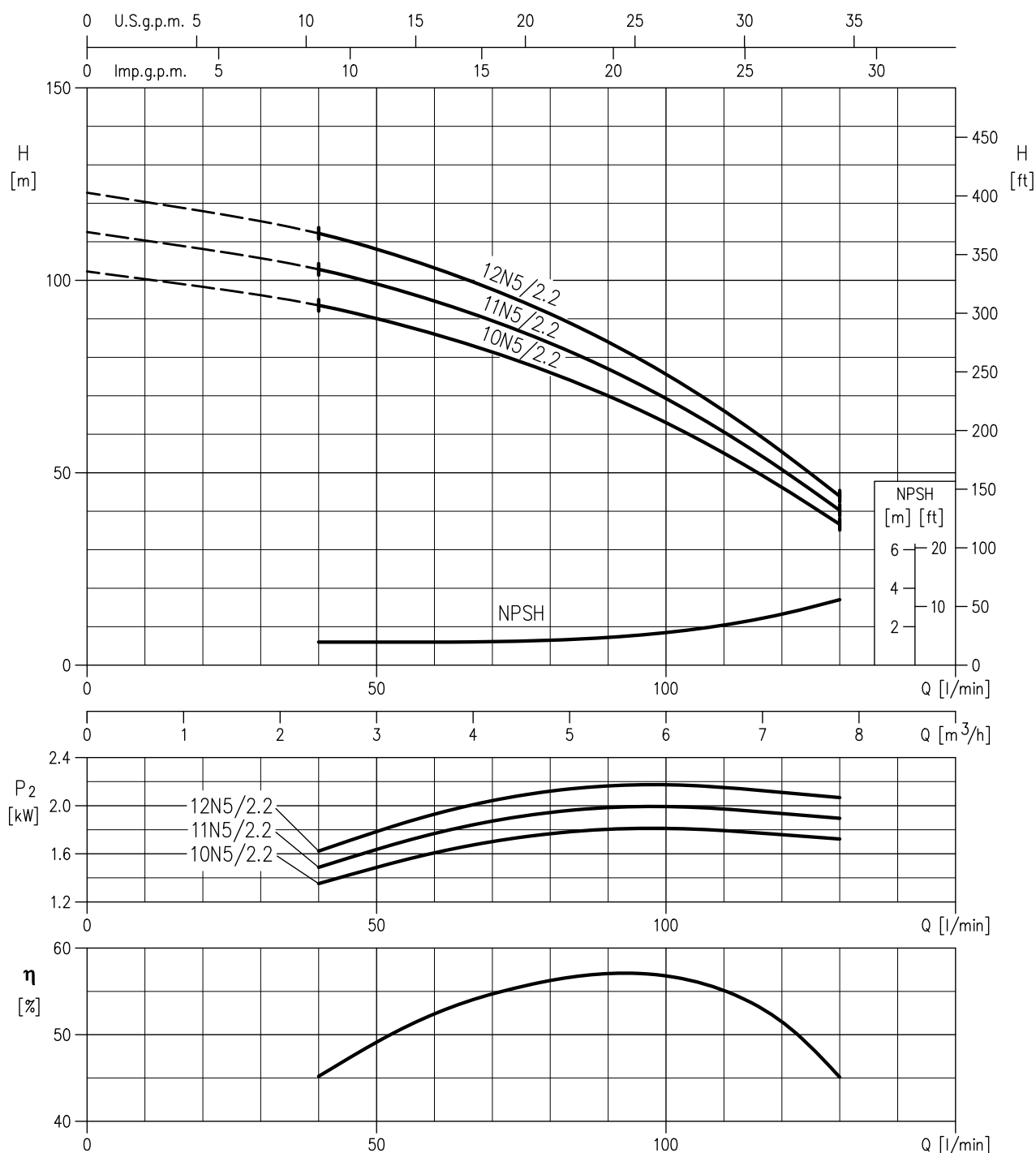
Rotation speed $\approx 2850 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

EVM(.)5 MEI > 0.70 - Impeller diameter = 95 mm



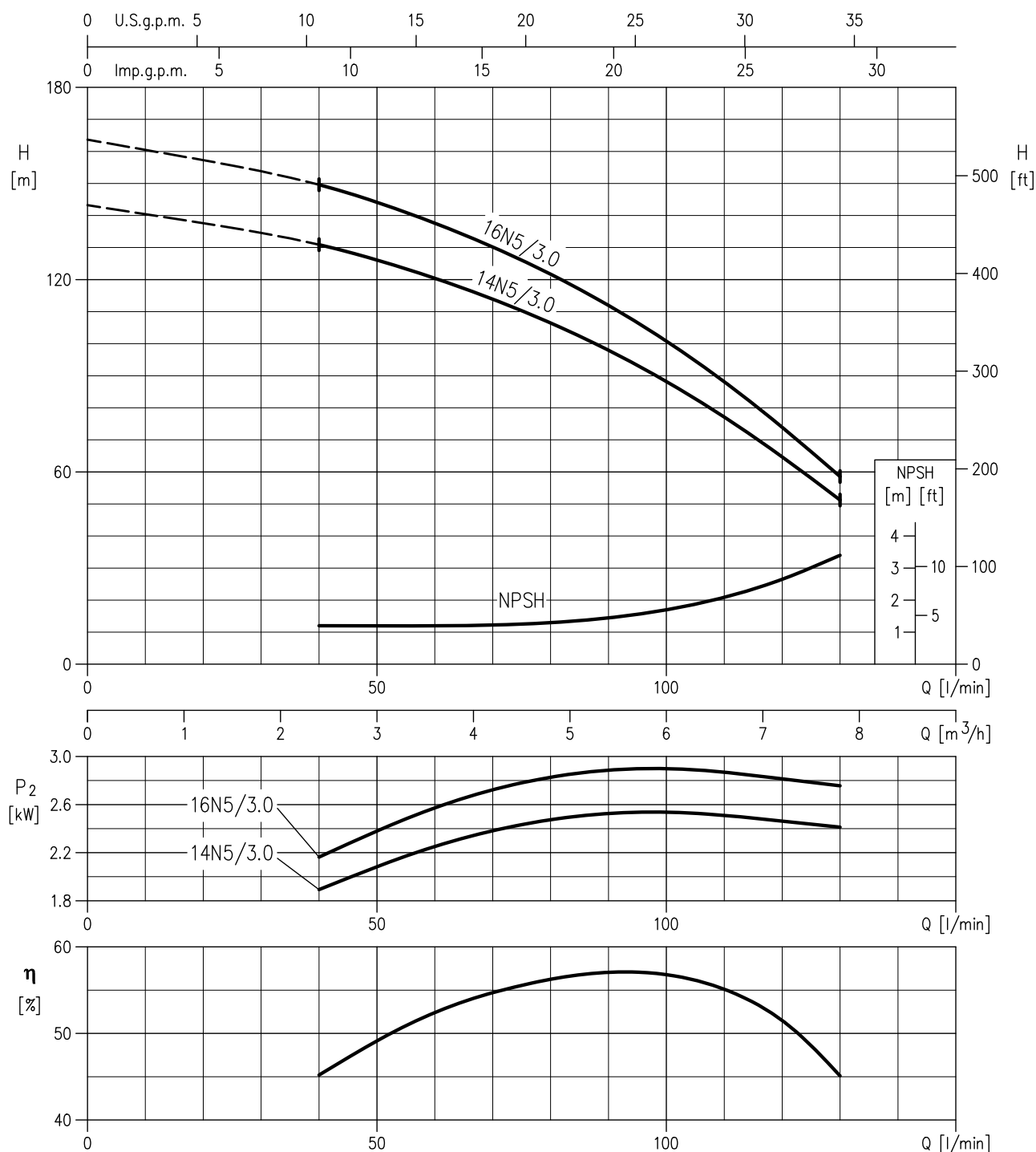
Rotation speed $\approx 2850 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

EVM(.)5 MEI > 0.70 - Impeller diameter = 95 mm



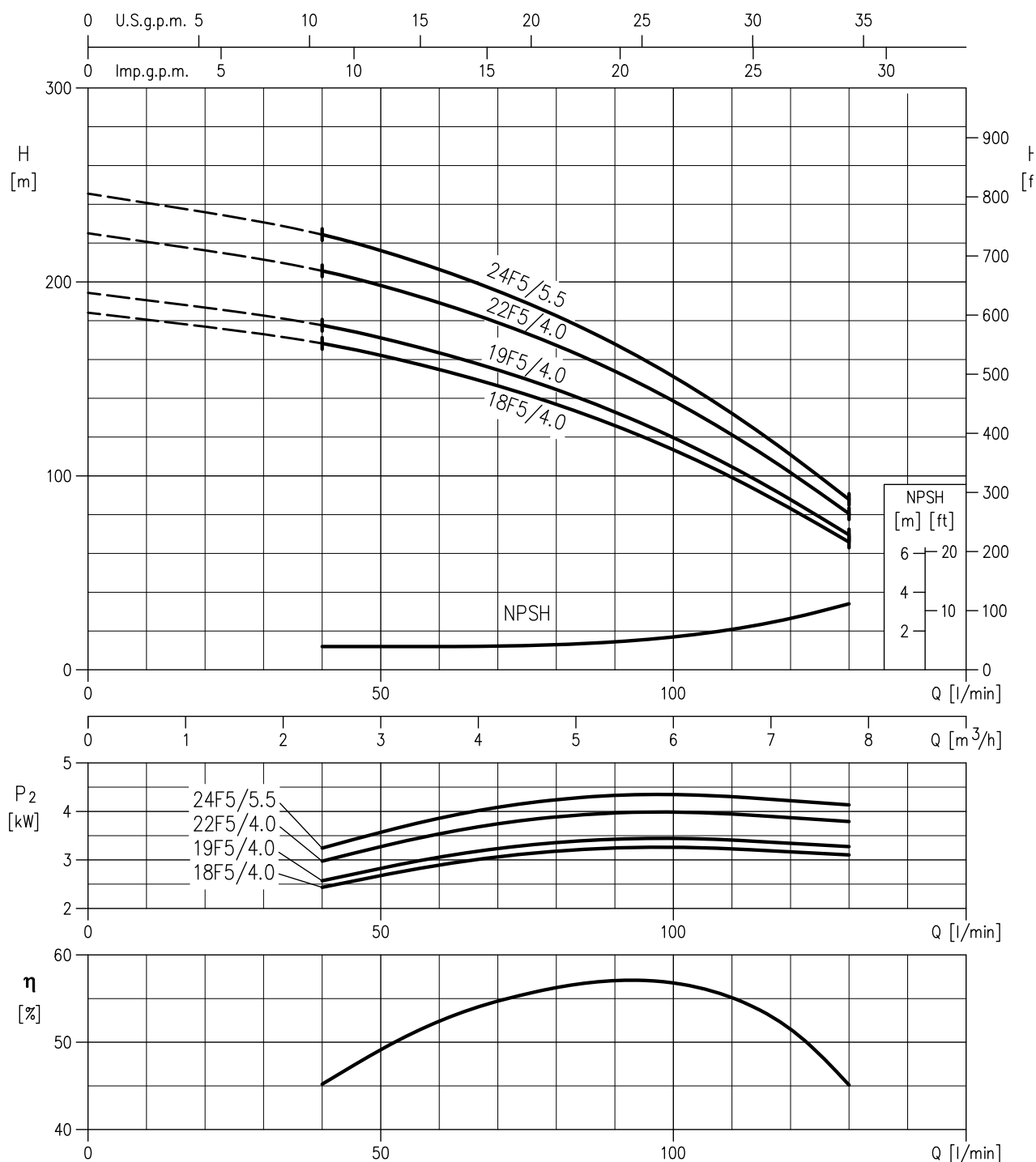
Rotation speed $\approx 2850 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

EVM(.)5 MEI > 0.70 - Impeller diameter = 95 mm



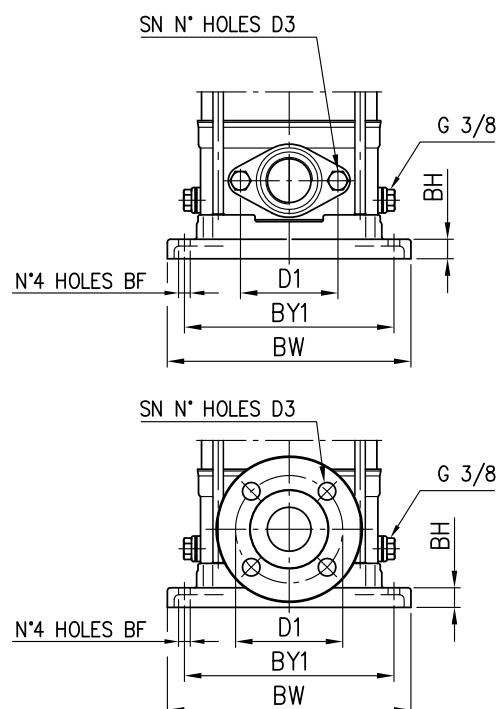
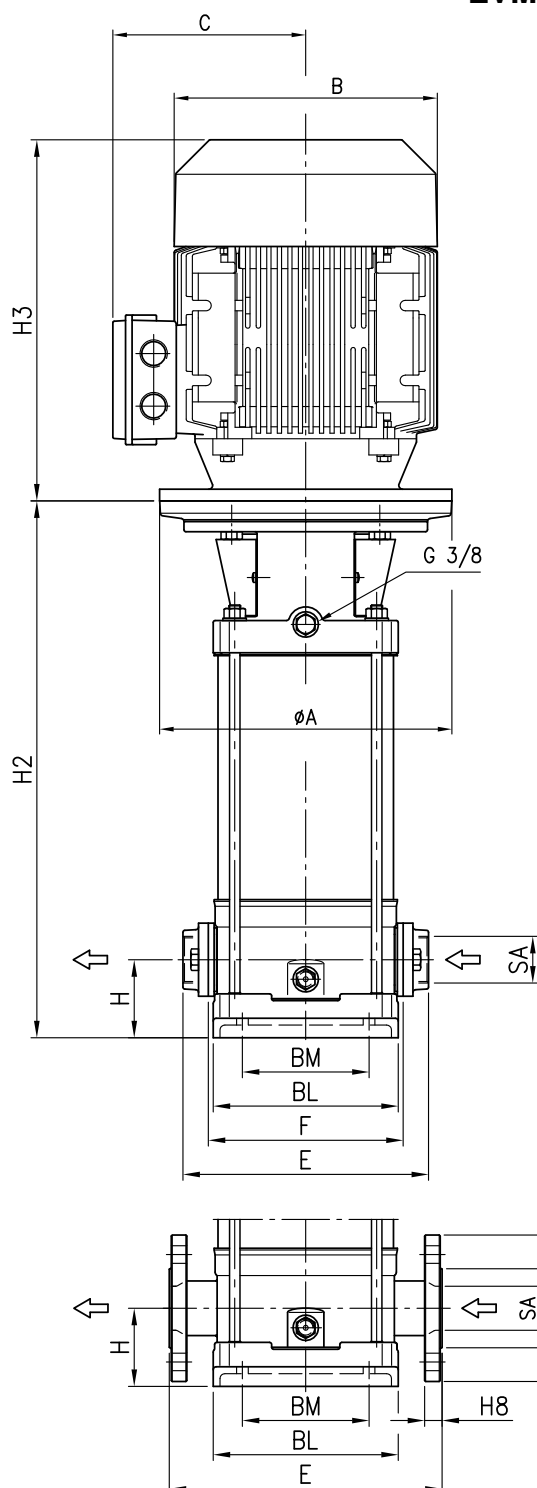
Rotation speed $\approx 2850 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

EVM(.).5 MEI > 0.70 - Impeller diameter =95 mm



Rotation speed $\approx 2850 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

PUMP EVM(.) 3-18



See dimensions pages 401, 402

DIMENSIONS TABLE
EVM(.) 3-5

Pump Type EVM	Pmax. [MPa] 2)	Motor Size	Dimensions [mm]																										Weight [kgf]		
			H	H2	H3 1)		F	E	B 1)		C 1)		BM	BL	BY1	BW	SA	SG	D1	D2	H8	SN	D3	BF	BH	A	Pump	Pump + motor			
					1~	3~			1~	3~	1~	3~																1~	3~	1~	3~
3 2N5/0.37	1.6	71	50	241	215	215	160	206	142	142	129	114	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø105	11.3	17.0	17.1		
3 3N5/0.37	1.6	71	50	262	215	215	160	206	142	142	129	114	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø105	11.8	17.5	17.6		
3 4N5/0.55	1.6	71	50	283	215	215	160	206	142	142	129	114	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø105	12.3	19.3	18.5		
3 5N5/0.55	1.6	71	50	304	215	215	160	206	142	142	129	114	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø105	12.8	19.8	19.0		
3 6N5/0.75	1.6	80	50	335	232	232	160	206	160	160	150	139	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø120	13.7	25.1	22.1		
3 7N5/0.75	1.6	80	50	356	232	232	160	206	160	160	150	139	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø120	13.9	25.3	22.3		
3 9N5/1.1	1.6	80	50	398	232	232	160	206	160	160	150	139	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø120	14.8	26.6	25.9		
3 11N5/1.1	1.6	80	50	440	232	232	160	206	160	160	150	139	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø120	16.2	28.0	27.3		
◆ 3 13N5/1.5	1.6	90S	50	492	278	267	160	206	172	180	140	148	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø140	17.7	35.5	31.7		
◆ 3 15N5/1.5	1.6	90S	50	534	278	267	160	206	172	180	140	148	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø140	19.2	37.0	33.2		
◆ 3 18F5/2.2	2.5	90L	75	632	278	267	-	250	172	180	140	148	100	149	180	210	Ø25	Ø63	Ø85	Ø115	16	4	Ø14	Ø12	20	Ø140	24.8	44.3	40.8		
◆ 3 22F5/2.2	2.5	90L	75	716	278	267	-	250	172	180	140	148	100	149	180	210	Ø25	Ø63	Ø85	Ø115	16	4	Ø14	Ø12	20	Ø140	27.2	46.7	43.2		
3 26F5/3.0	2.5	100	75	810	-	306	-	250	-	196	-	155	100	149	180	210	Ø25	Ø63	Ø85	Ø115	16	4	Ø14	Ø12	20	Ø160	30.8	-	53.6		
5 2N5/0.37	1.6	71	50	255	215	215	160	206	142	142	129	114	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø105	11.5	17.2	17.3		
5 3N5/0.55	1.6	71	50	283	215	215	160	206	142	142	129	114	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø105	12.0	19.0	18.2		
5 4N5/0.75	1.6	80	50	321	232	232	160	206	160	160	150	139	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø120	12.9	24.3	21.3		
5 5N5/1.1	1.6	80	50	349	232	232	160	206	160	160	150	139	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø120	13.5	25.3	24.6		
5 6N5/1.1	1.6	80	50	377	232	232	160	206	160	160	150	139	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø120	14.1	25.9	25.2		
◆ 5 7N5/1.5	1.6	90S	50	415	278	267	160	206	172	180	140	148	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø140	14.9	32.7	28.9		
◆ 5 8N5/1.5	1.6	90S	50	443	278	267	160	206	172	180	140	148	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø140	15.5	33.3	29.5		
◆ 5 10N5/2.2	1.6	90L	50	509	278	267	160	206	172	180	140	148	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø140	17.9	37.4	33.9		
◆ 5 11N5/2.2	1.6	90L	50	537	278	267	160	206	172	180	140	148	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø140	19.0	38.5	35.0		
◆ 5 12N5/2.2	1.6	90L	50	565	278	267	160	206	172	180	140	148	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø140	19.7	39.2	35.7		
5 14N5/3.0	1.6	100	50	631	-	306	160	206	-	196	-	155	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø160	22.0	-	44.8		
5 16N5/3.0	1.6	100	50	687	-	306	160	206	-	196	-	155	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø160	23.3	-	46.1		
5 18F5/4.0	2.5	112	75	768	-	306	-	250	-	196	-	155	100	149	180	210	Ø32	Ø71	Ø100	Ø140	20	4	Ø14	Ø12	20	Ø160	28.7	-	51.5		
5 19F5/4.0	2.5	112	75	796	-	306	-	250	-	196	-	155	100	149	180	210	Ø32	Ø71	Ø100	Ø140	20	4	Ø14	Ø12	20	Ø160	29.4	-	52.2		
5 22F5/4.0	2.5	112	75	880	-	306	-	250	-	196	-	155	100	149	180	210	Ø32	Ø71	Ø100	Ø140	20	4	Ø14	Ø12	20	Ø160	31.2	-	54.0		
5 24F5/5.5	2.5	132	75	947	-	328	-	250	-	220	-	161	100	149	180	210	Ø32	Ø71	Ø100	Ø140	20	4	Ø14	Ø12	20	Ø300	35.4	-	74.0		

- 1) AEG motor dimensions except ◆ Single phase motors manufactured by Ebara
2) 1.6 MPa=16 bar
2.5 MPa=25 bar

PACKING TABLE EVM(.) 3-5

PUMP TYPE EVM (.)	PUMPS					PUMPS WITH MOTOR ~1					PUMPS WITH MOTOR ~3				
	Packing [mm]			Weight [kgf]	Pack Type	Packing [mm]			Weight [kgf]	Pack Type	Packing [mm]			Weight [kgf]	Pack Type
	X	Y	Z			X	Y	Z			X	Y	Z		
3 2N5/0.37	265	265	410	12.3	1	265	265	525	18.2	1	265	265	525	18.2	1
3 3N5/0.37	265	265	410	12.8	1	265	265	525	18.7	1	265	265	525	18.7	1
3 4N5 0.55	265	265	410	13.3	1	265	265	525	20.5	1	265	265	525	19.8	1
3 5N5/0.55	265	265	410	13.8	1	300	300	825	23.8	2	300	300	825	23.1	2
3 6N5/0.75	265	265	410	14.7	1	300	300	825	29.1	2	300	300	825	26.1	2
3 7N5/0.75	265	265	410	14.9	1	300	300	825	29.3	2	300	300	825	26.3	2
3 9N5/1.1	265	265	525	16.0	1	300	300	825	30.6	2	300	300	825	29.9	2
3 11N5/1.1	265	265	525	17.4	1	300	300	825	32.0	2	300	300	825	31.3	2
3 13N5/1.5	265	265	525	18.9	1	300	300	935	39.7	2	300	300	935	35.9	2
3 15N5/1.5	300	300	825	23.2	2	400	400	1047	44.0	2	300	300	935	37.4	2
3 18F5/2.2	300	300	825	28.8	2	480	480	1147	54.0	2	400	400	1047	47.5	2
3 22F5/2.2	300	300	935	31.4	2	480	480	1297	57.0	2	400	400	1047	53.0	2
3 26F5/3.0	400	400	1047	37.6	2	-	-	-	-	-	480	480	1297	63.5	2
5 2N5/0.37	265	265	410	12.5	1	265	265	525	18.4	1	265	265	525	18.4	1
5 3N5/0.55	265	265	410	13.0	1	265	265	525	20.2	1	265	265	525	19.5	1
5 4N5/0.75	265	265	410	13.9	1	300	300	825	28.3	2	300	300	825	25.3	2
5 5N5/1.1	265	265	410	14.5	1	300	300	825	29.3	2	300	300	825	28.6	2
5 6N5/1.1	265	265	410	15.1	1	300	300	825	29.9	2	300	300	825	29.2	2
5 7N5/1.5	265	265	525	16.1	1	300	300	825	36.7	2	300	300	825	32.9	2
5 8N5/1.5	265	265	525	16.7	1	300	300	935	37.5	2	300	300	935	33.7	2
5 10N5/2.2	300	300	825	21.9	2	300	300	935	41.5	2	300	300	935	38.1	2
5 11N5/2.2	300	300	825	23.0	2	400	400	1047	45.5	2	300	300	935	39.2	2
5 12N5/2.2	300	300	825	23.7	2	400	400	1047	46.0	2	400	400	1047	42.5	2
5 14N5/3.0	300	300	825	26.0	2	-	-	-	-	-	400	400	1047	54.4	2
5 16N5/3.0	300	300	825	27.3	2	-	-	-	-	-	400	400	1047	56.0	2
5 18F5/4.0	300	300	935	32.9	2	-	-	-	-	-	480	480	1297	69.1	2
5 19F5/4.0	300	300	935	33.6	2	-	-	-	-	-	480	480	1297	70.1	2
5 22F5/4.0	400	400	1047	38.0	2	-	-	-	-	-	410	1350	542	75.6	3
5 24F5/5.5	400	400	1230	45.0	2	-	-	-	-	-	520	1540	547	97.1	3