saci pumps

VERTICAL MULTISTAGE PUMPS

SSV 3 - 5 - 9 - 16

50Hz

SSV Series 3 - 5 - 9 - 16
Vertical Multistage Centrifugal Pumps

APPLICATIONS

- Boiler feed
- Circulation of hot and cold water for heating, cooling and conditioning systems
- Handling of water, free of suspended solids, in the civil, industrial and agricultural sector
- Irrigation systems
- Pressure boosting and water supply systems
- Wash down unit
- Water treatment plants

FEATURES

- Full stainless steel in contact with water (inox version), compact and solid structure
- Easy disassembly without any tool
- Easy installation IN LINE ports
- Fabricated stainless steel impeller and diffuser for corrosion resistance and superior efficiency
- Liquid end made of stainless steel in order to achieve durability, superior efficiency and the highest performances
- New hydraulic design for the highest efficiency
- Oversize ball bearing (bearing bracket) ensure motor bearing long life and eliminates axial and other adjustments of moving parts
- PTFE WRAS certified replacement floating neck ring for cost effective maintenance and long-lasting performance
- Fabricated stainless steel impeller and diffuser for corrosion resistance and superior efficiency
- Shaft bearing made of tungsten carbide and journal sleeve made of ceramic
- Standard balanced mechanical seal (EN 12756 ex DIN 24960) WRAS certified
- Standard motor without oversize bearing, size B14 up to 4kW / size B5 from 5.5kW and above, IE2
- Tungsten carbide intermediate bearing to control and eliminate vibration and stabilize the rotor with a large number of stages
- WRAS certified O-rings

SPECIFICATIONS

- Capacities up to 60 m^3/h at 50Hz
- Head up to 30 Bar at 50Hz
- Direction of rotation : clockwise looking at the pump from the top down
- Direction of rotation : counter-clockwise looking at the pump from the top down (for SSV 16)
- Discharge and Suction port: Oval, Round flanges, Victaulic and Clamp connections
- Hydraulic characteristics are guaranteed, according to ISO standard 9906 grade 3
- Liquid temperature range: from -15°C to +120°C
- Materials: suitable for handling potable water (materials WRAS certified)
- Maximum working pressure: Oval flange 16 Bar; Round Flange, Victaulic and Clamp connections 25 Bar
- Motor powers from 2.2 to 45 kW at 50Hz

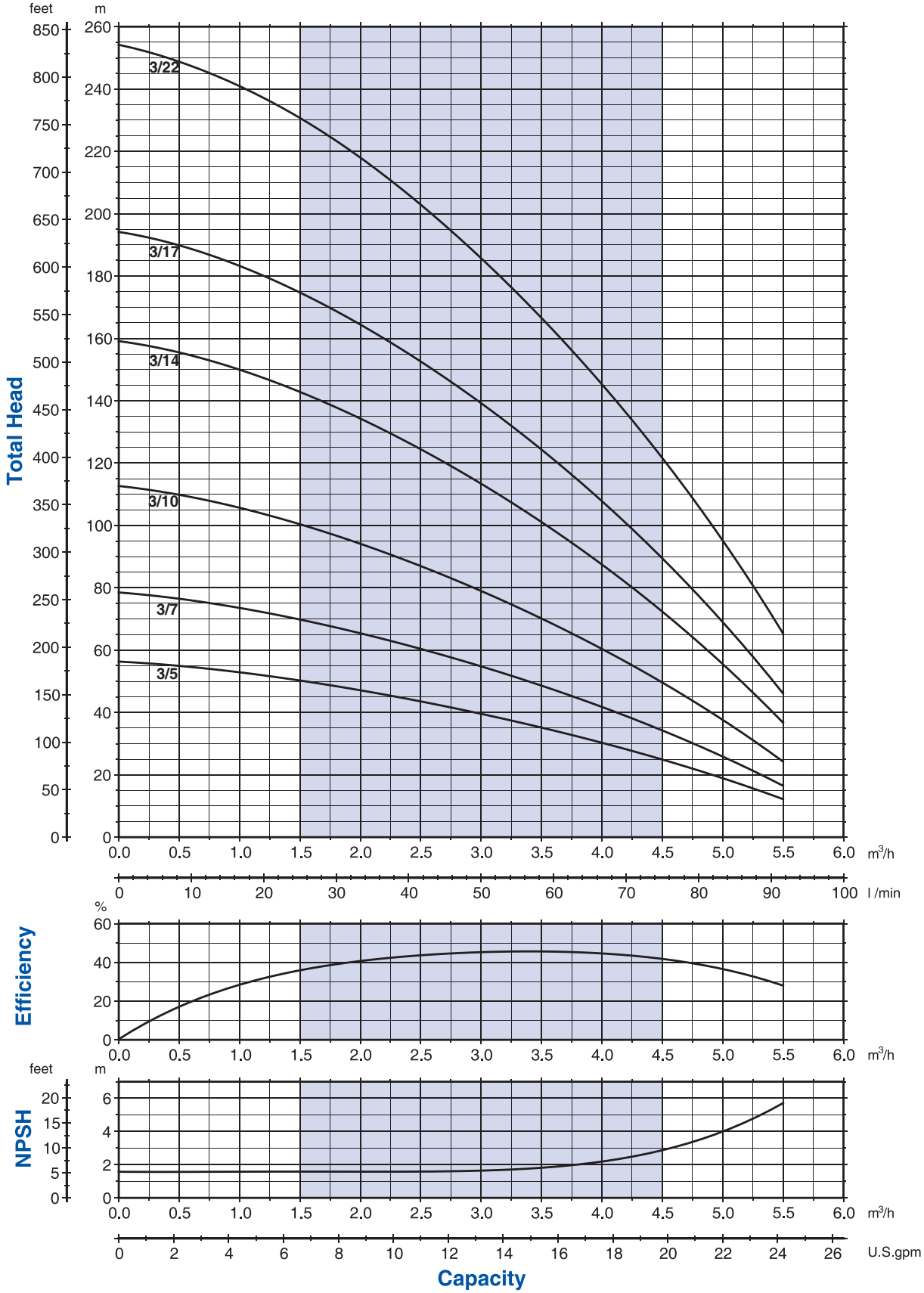
AVAILABLE ON REQUEST

- AISI 304 version (EVI) for models 30 and 45
- Special materials for the mechanical seal, gaskets and elastomers
- Oval counter flanges
- Round counter flanges

SSV 3

Performance curves 50Hz

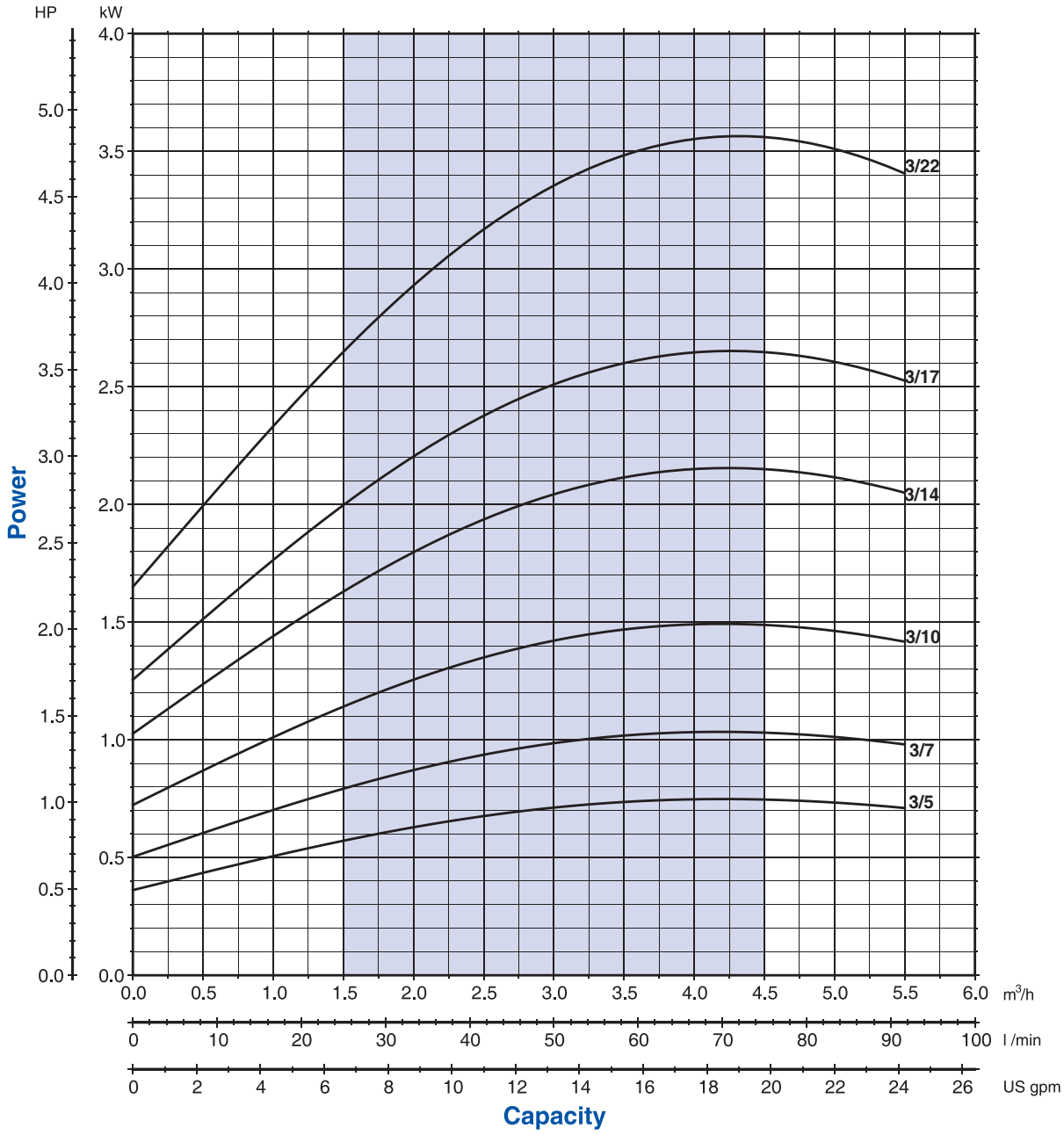
MEI ≥ 0,60



SSV 3

Performance curves 50Hz

MEI ≥ 0,60



Performance curves of Q, H and P depend on the rpm number according to the following formulae:

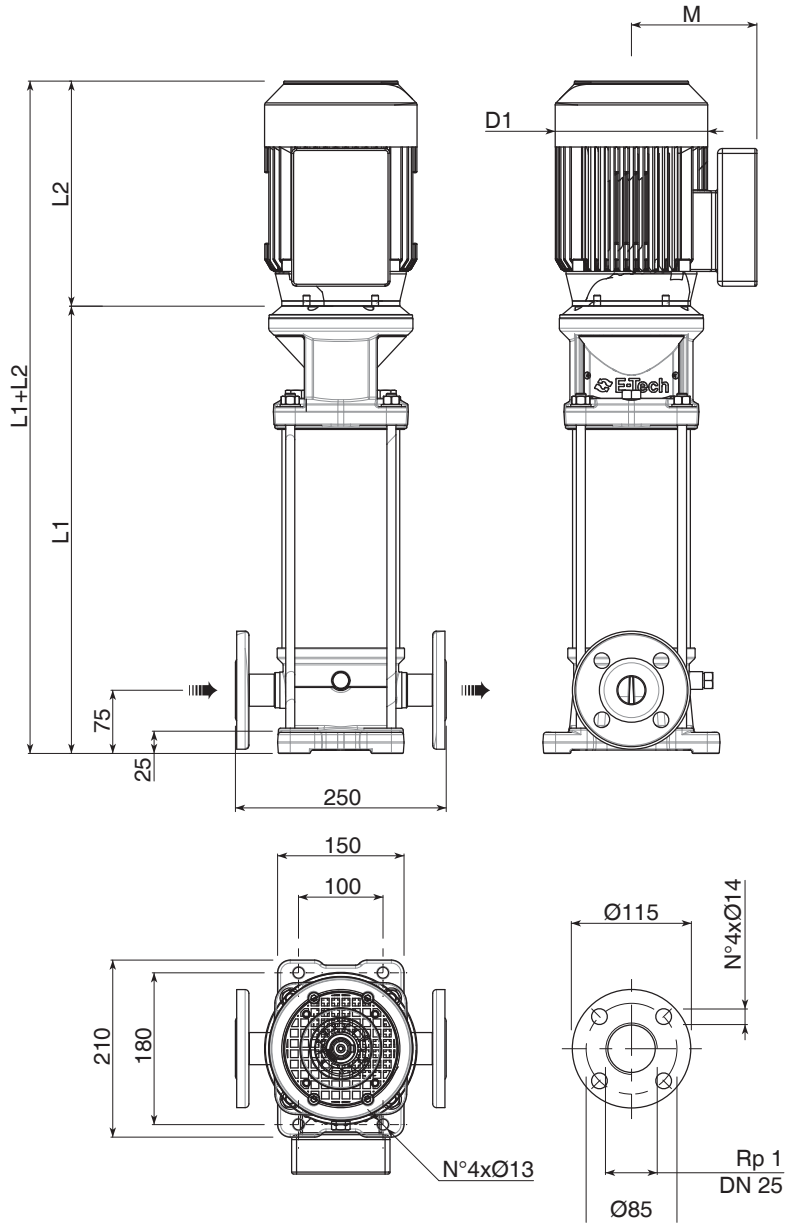
$$Q_2 = Q_1 \cdot \left(\frac{n_2}{n_1}\right) \quad , \quad H_2 = H_1 \cdot \left(\frac{n_2}{n_1}\right)^2 \quad , \quad P_2 = P_1 \cdot \left(\frac{n_2}{n_1}\right)^3 \quad , \quad \eta \text{ remains approximately the same.}$$

The rpm number related to the performance curves (Q-H-P) is indicated in the power chart.
Performance curves (Q-H-P) will change in case a motor with rpm number different from indicated values is used.

Q=Capacity, H=Head, P=Power, η=Efficiency

SSV 3

Technical data 50Hz

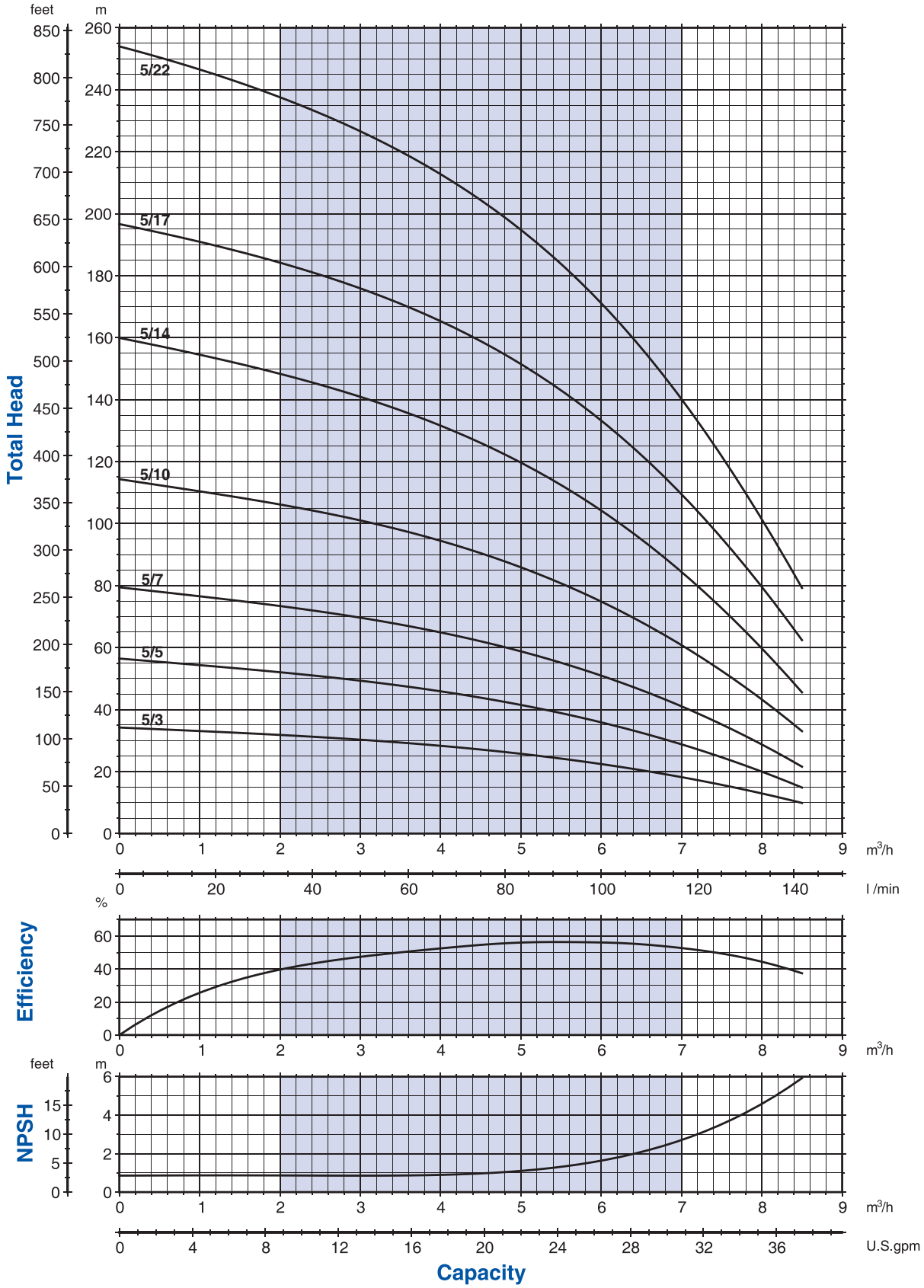


Pump Model	Motor		Dimensions (mm)										Weight	
			L1	L2		L3	L4	L5	M		D1			
	kW	Size	F	1-PHASE	3-PHASE	T	V	C	1-PHASE	3-PHASE	1-PHASE	3-PHASE	Pump	Electric Pump
SSV 3/5	0.75	80	400.5	232	232	375.5	375.5	375.5	150	129	160	160	17	26.5
SSV 3/7	1.1	80	449	232	232	424	424	424	150	129	160	160	18	29.5
SSV 3/10	1.5	90	531	267	267	506	506	506	160	138	180	180	20.5	34.5
SSV 3/14	2.2	90	627	267	267	602	602	602	160	138	180	180	23	39
SSV 3/17	3	100	709	-	267	-	684	684	-	138	-	180	25	44
SSV 3/22	4	112	829	-	306	-	804	804	-	145	-	196	28.5	51,5

SSV 5

Performance curves 50Hz

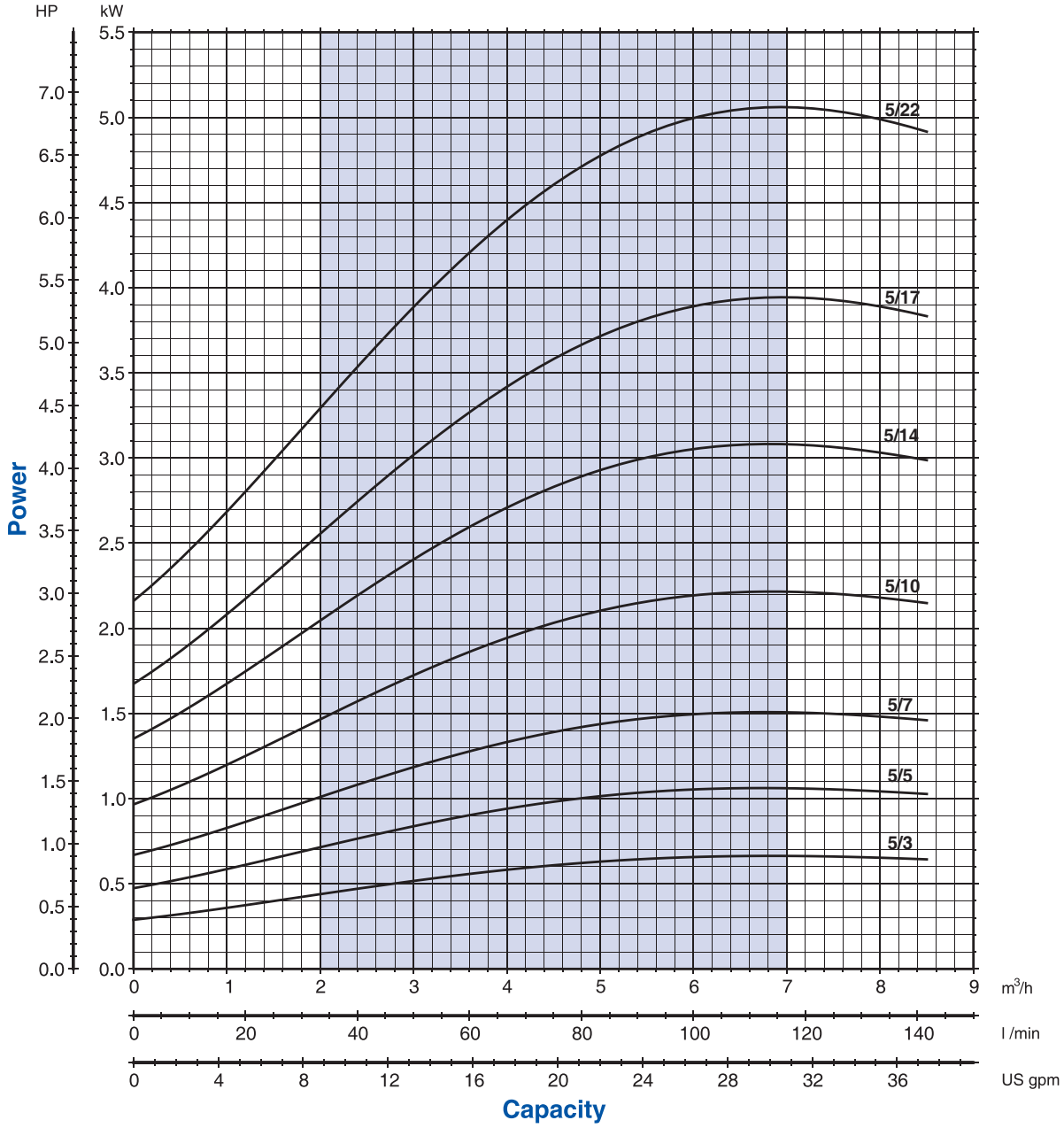
MEI ≥ 0,70



SSV 5

Performance curves 50Hz

MEI ≥ 0,70



Performance curves of Q, H and P depend on the rpm number according to the following formulae:

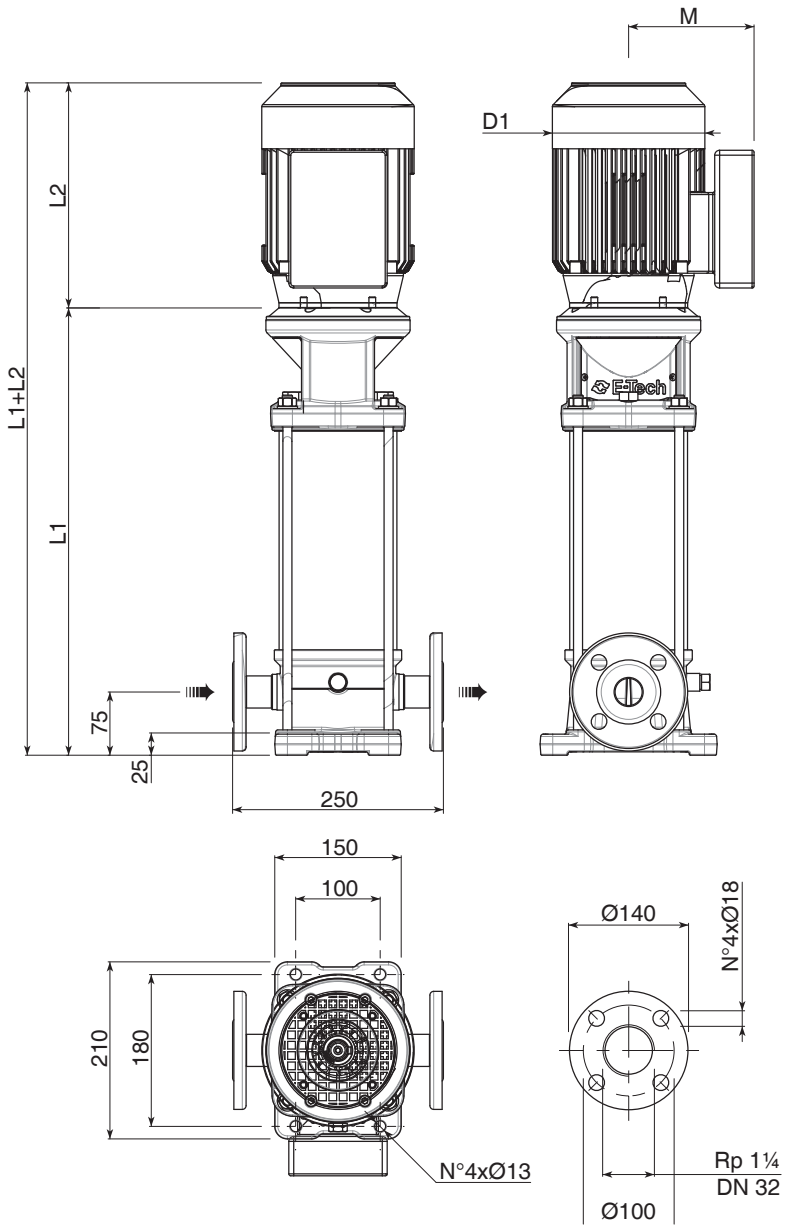
$$Q_2 = Q_1 \cdot \left(\frac{n_2}{n_1}\right) \quad , \quad H_2 = H_1 \cdot \left(\frac{n_2}{n_1}\right)^2 \quad , \quad P_2 = P_1 \cdot \left(\frac{n_2}{n_1}\right)^3 \quad , \quad \eta \text{ remains approximately the same.}$$

The rpm number related to the performance curves (Q-H-P) is indicated in the power chart.
Performance curves (Q-H-P) will change in case a motor with rpm number different from indicated values is used.

Q=Capacity, H=Head, P=Power, η=Efficiency

SSV 5

Technical data 50Hz

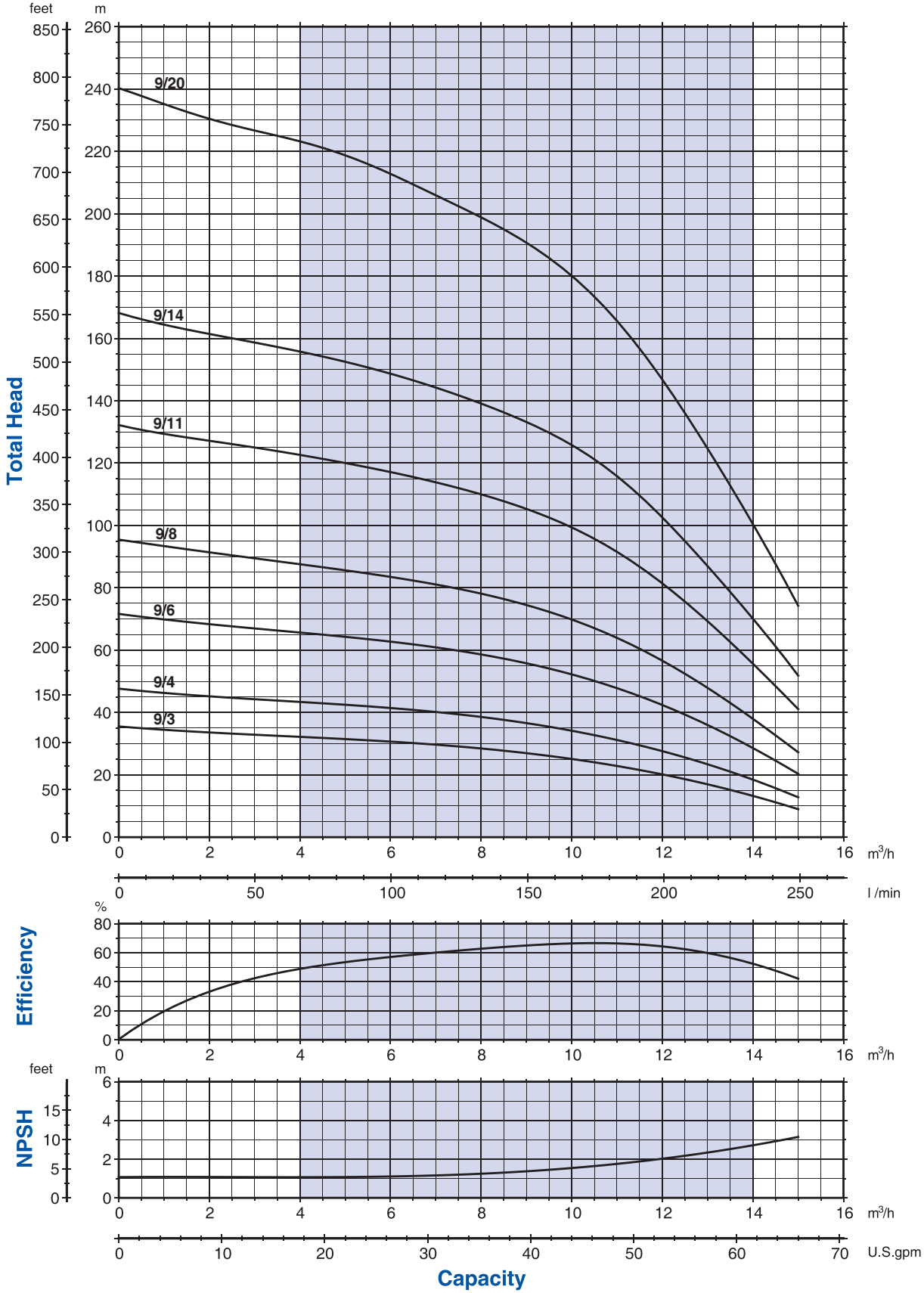


Pump Model	Motor		Dimensions (mm)											Weight	
	kW	Size	L1 F	L2 1-PHASE	L2 3-PHASE	L3 T	L4 V	L5 C	M 1-PHASE	M 3-PHASE	D1 1-PHASE	D1 3-PHASE		Pump	Electric Pump
SSV 5/3	0.75	80	352.5	232	232	327.5	327.5	327.5	150	129	160	160		16	25.5
SSV 5/5	1.1	80	400.5	232	232	375.5	375.5	375.5	150	129	160	160		17	28.5
SSV 5/7	1.5	90	459	267	267	434	434	434	160	138	180	180		19	33
SSV 5/10	2.2	90	531	267	267	506	506	506	160	138	180	180		20.5	36.5
SSV 5/14	3	100	637	-	267	612	612	612	-	138	-	180		24	43
SSV 5/17	4	112	709	-	306	-	684	684	-	145	-	196		25.5	48.5
SSV 5/22	5.5	132	851.5	-	328	-	826.5	826.5	-	161	-	225		33.5	67.5

SSV 9

Performance curves 50Hz

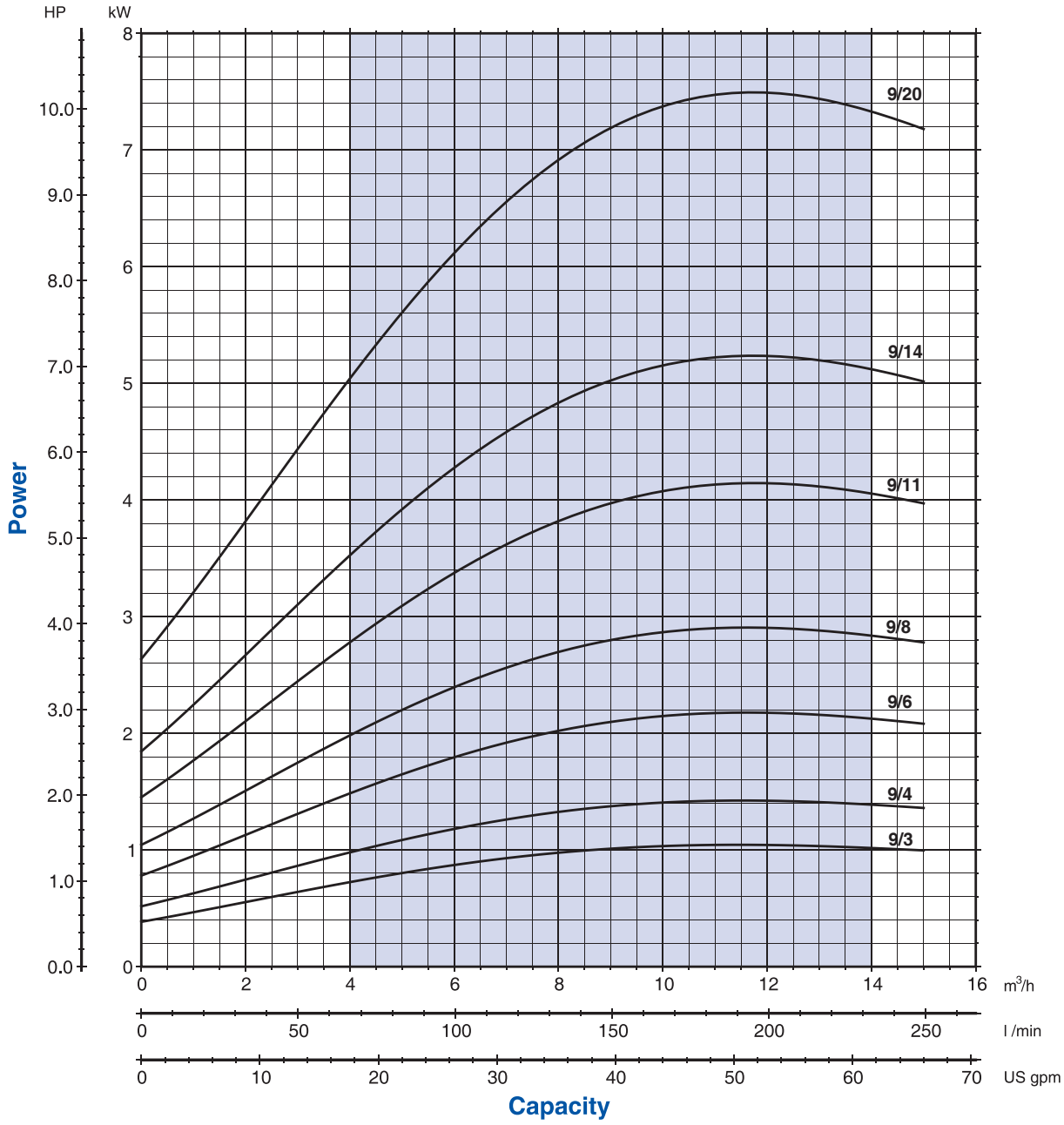
MEI ≥ 0,70



SSV 9

Performance curves 50Hz

MEI ≥ 0,70



Performance curves of Q, H and P depend on the rpm number according to the following formulae:

$$Q_2 = Q_1 \cdot \left(\frac{n_2}{n_1}\right) \quad , \quad H_2 = H_1 \cdot \left(\frac{n_2}{n_1}\right)^2 \quad , \quad P_2 = P_1 \cdot \left(\frac{n_2}{n_1}\right)^3 \quad , \quad \eta \text{ remains approximately the same.}$$

The rpm number related to the performance curves (Q-H-P) is indicated in the power chart.
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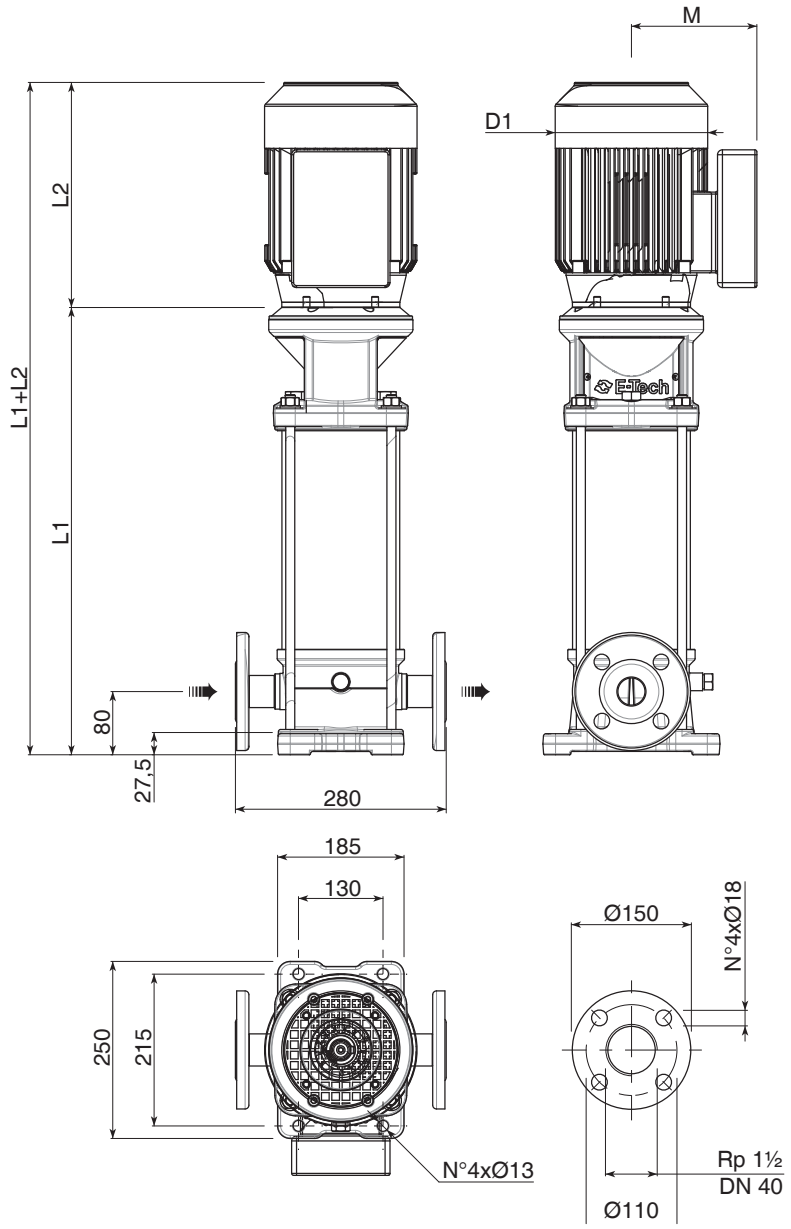
Q=Capacity, H=Head, P=Power, η=Efficiency

SSV 9

Technical data 50Hz

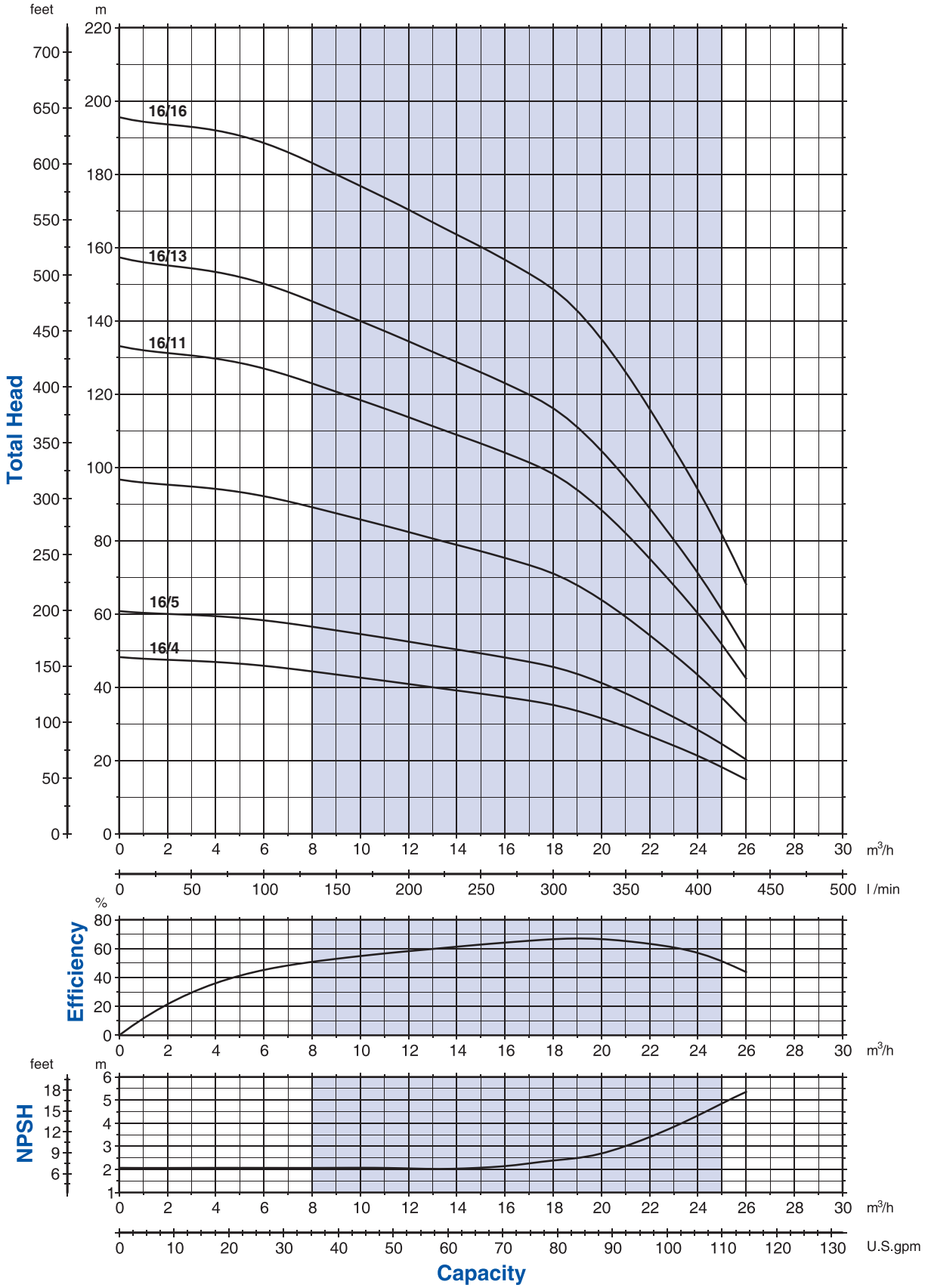


Pump Model	Motor		Dimensions (mm)										Weight	
	kW	Size	L1 F	L2 1-PHASE	L2 3-PHASE	L3 T	L4 V	L5 C	M 1-PHASE	M 3-PHASE	D1 1-PHASE	D1 3-PHASE	Pump	Electric Pump
SSV 9/3	1.1	80	377.5	232	232	377.5	377.5	377.5	150	129	160	160	18	29.5
SSV 9/4	1.5	90	417.5	267	267	417.5	417.5	417.5	160	138	180	180	19	33
SSV 9/6	2.2	90	478	267	267	478	478	478	160	138	180	180	21	37
SSV 9/8	3	100	548	-	267	548	548	548	-	138	-	180	23	42
SSV 9/11	4	112	638	-	306	638	638	638	-	145	-	196	25	48
SSV 9/14	5.5	132	750.5	-	328	-	750.5	750.5	-	161	-	225	32	66
SSV 9/20	7.5	132	930.5	-	350	-	930.5	930.5	-	161	-	225	36.5	72.5

SSV 16

Performance curves 50Hz

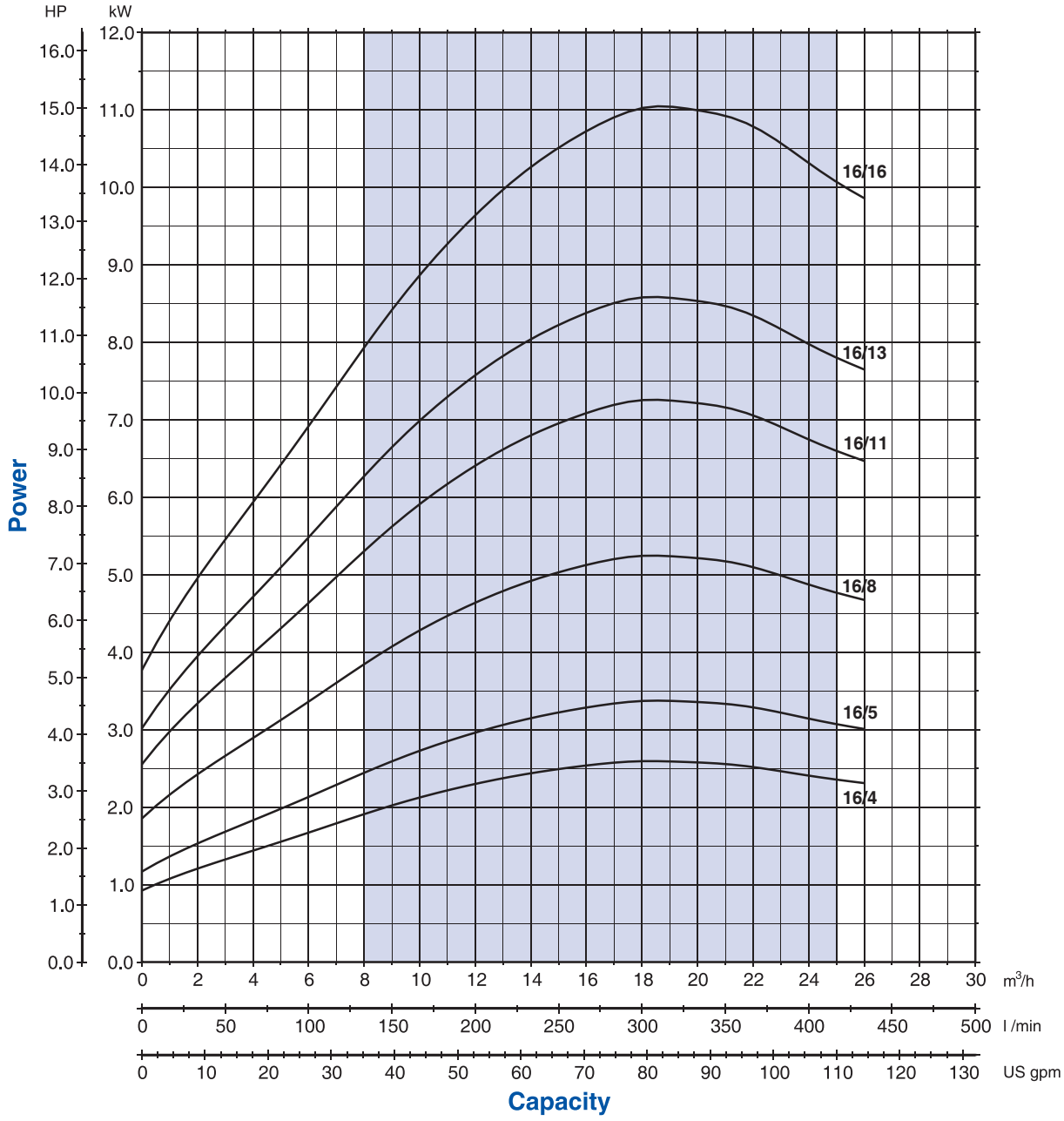
MEI ≥ 0,40



SSV 16

Performance curves 50Hz

MEI ≥ 0,40



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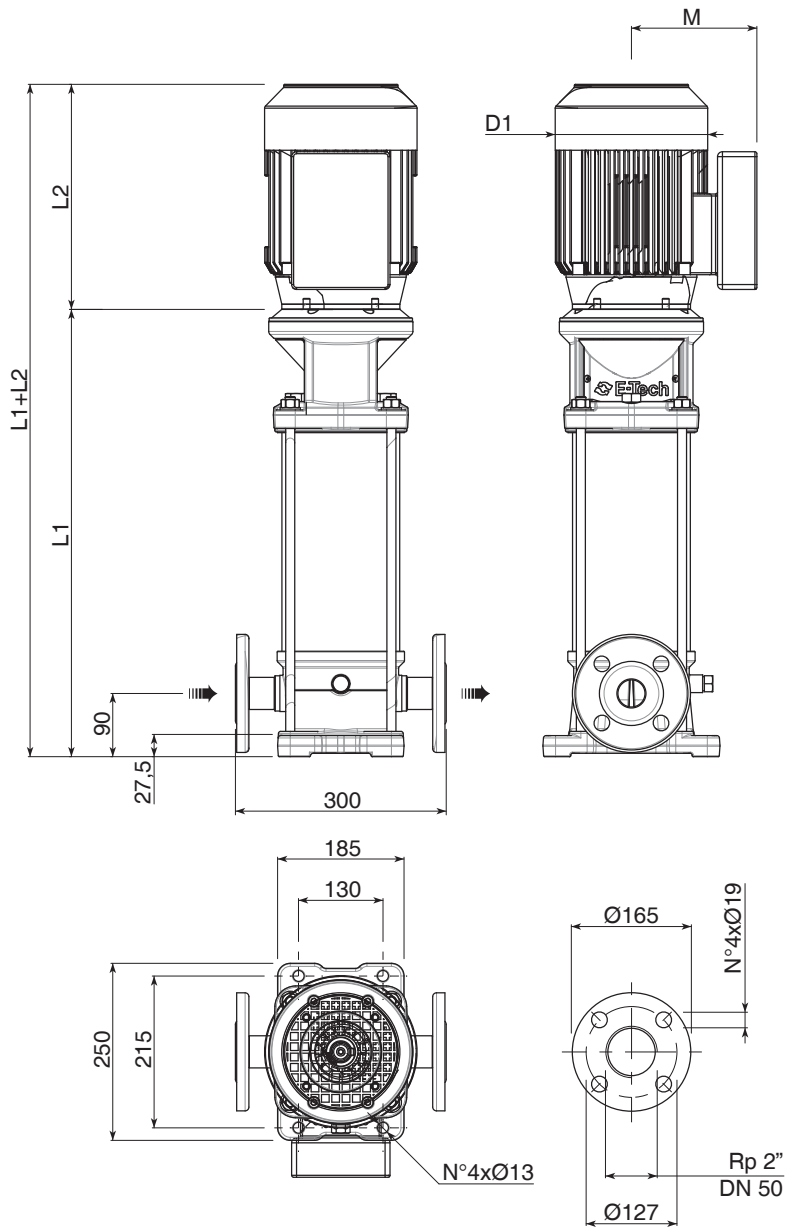
SSV 16

Technical data 50Hz



Pump Model	Motor		Dimensions (mm)											Weight	
			L1	L2		L3	L4	L5	M		D1				
	kW	Size	F	1-PHASE	3-PHASE	T	V	C	1-PHASE	3-PHASE	1-PHASE	3-PHASE		Pump	Electric Pump
SSV 16/4	3	100	467.5	-	267	467.5	467.5	467.5	-	138	-	180		21.5	40
SSV 16/5	4	112	505	-	306	505	505	505	-	145	-	196		22.5	45.5
SSV 16/8	5.5	132	640	-	328	640	640	640	-	161	-	225		30.5	64.5
SSV 16/11	7.5	132	753	-	350	753	753	753	-	161	-	225		33.5	69.5
SSV 16/13	11	132	828	-	425	828	828	828	-	198	-	248		35	93
SSV 16/16	11	132	940.5	-	425	-	940.5	940.5	-	198	-	248		38	96