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Lowara

Centrifugal electric pumps made of AISI 316 stainless steel in compliance with EN 733

SH Series

50 Hz



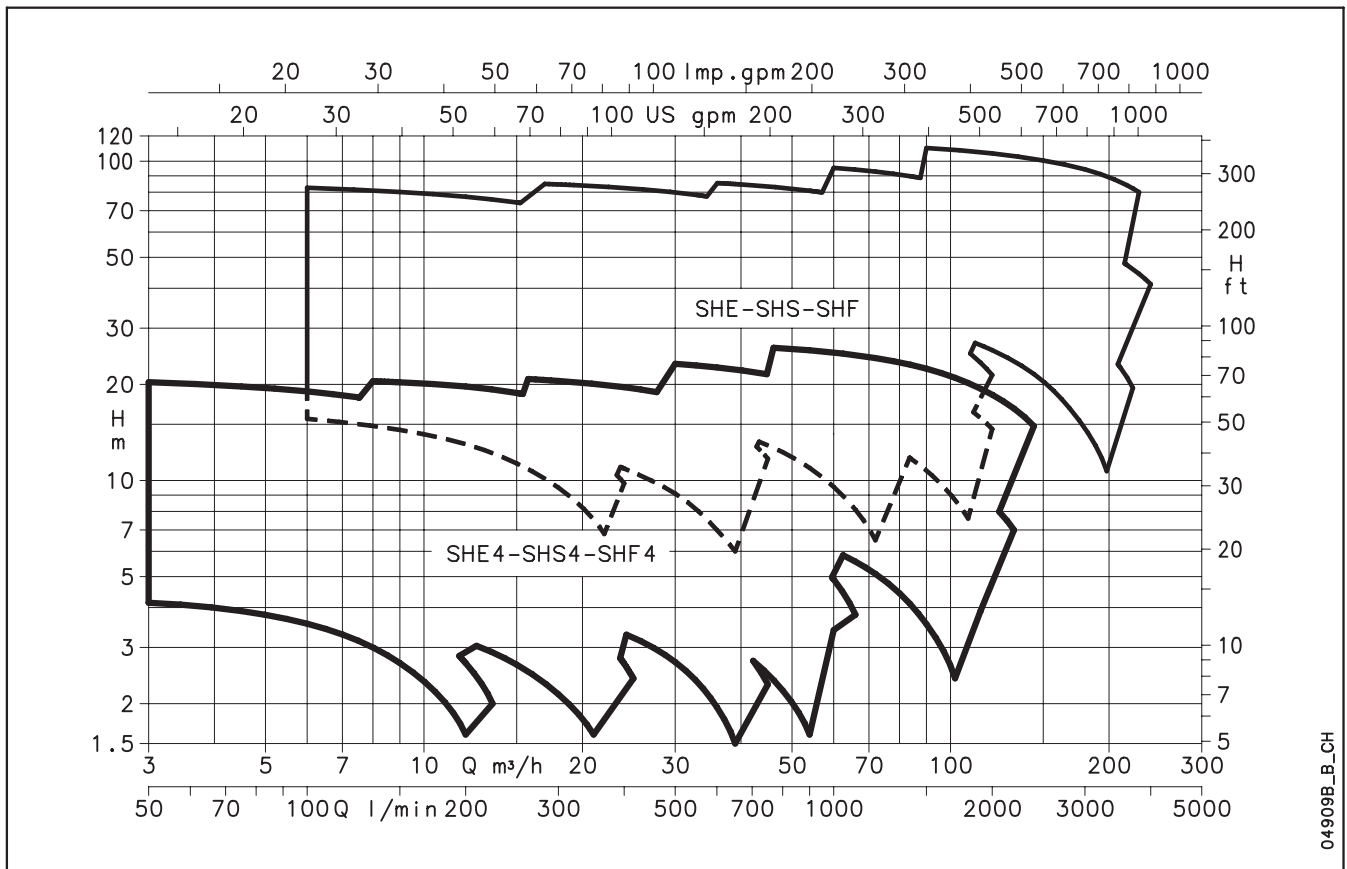
Engineered for life



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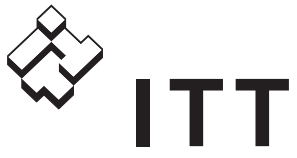
SERIE SH OPERATING CHARACTERISTICS AT 50 Hz



04909B_B_CH

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Lowara

Centrifugal electric pumps made of AISI 316 stainless steel in compliance with EN 733

SH Series



MARKET SECTORS

The Lowara SH series pumps are used for water and clean liquid circulation in heating, ventilating and air conditioning systems, and for pressure boosting in industrial applications.

SPECIFICATIONS

PUMP

- The SH series consists of single-stage centrifugal pumps made of pressed AISI 316 stainless steel.
- The liquid sizes and diameters of the suction and delivery ports are in compliance with EN 733 standards (ex DIN 24255).
- Flange dimensions in compliance with UNI-EN 1092-1.
- Available sizes: DN 25 to DN 80.
- Anti-clockwise rotation when facing pump's suction port.
- Back pull-out design.

APPLICATION RANGE

- **Delivery**
up to 240 m³/h, 2 poles
up to 130 m³/h, 4 poles
- **Head**
up to 110 m, 2 poles
up to 23 m, 4 poles

- **Temperature of pumped liquid**

Standard -10 to +120°C
Special versions available on request.

- **Maximum working pressure** 12 bar (PN 12).

MOTOR

- Three-phase asynchronous, squirrel cage rotor, enclosed construction, external ventilation.
- Performances according to EN 60034-1.
- Standard supply Lowara motors up to 7.5 kW (included) for the 4-pole version, and up to 22 kW (included) for the 2-pole version. Other motor brands for higher powers.
- The Lowara surface motors have efficiency values that fall within the range normally referred to as efficiency class 2
- IP 55 protection.
- Insulation class F.
- Max. ambient temperature: 40°C. For different environmental conditions, check the power.
- Overload protection to be provided by user.
- Condensation drain plugs on all LOWARA motors.
- **Standard voltage**
Single-phase version 220-240 V, 50 Hz
Three-phase version 220-240/380-415 V, 50 Hz for powers up to 3 kW;
380-415/660-690 V, 50 Hz for powers above 3 kW.

CONSTRUCTION CHARACTERISTICS

- Stainless steel centrifugal pump with end suction and radial discharge ports.
- Pump body made of AISI 316L stainless steel.
- Flanges in compliance with UNI-EN 1092-1 (ex UNI 2236) and DIN 2533.
- Back pull-out design (impeller, bracket and motor can be extracted without disconnecting the pump body from the piping).
- Closed impeller made of AISI 316L stainless steel, laser-technology welded (for sizes 25, 32, 40, 50, 65-160/75, 65-160/110A) or AISI CF8M cast stainless steel.
- Mechanical seal according to EN 12756 (ex DIN 24960).
- 316L stainless steel fill & drain plugs.

MOTOR-PUMP COUPLING

- **SHE** close-coupled by means of a bracket with impeller keyed directly to the motor shaft extension.
- **SHS** with a bracket, adaptor and rigid coupling keyed to the standard motor shaft extension.
- **SHF** with bracket, support, flexible coupling, and aligning and anchoring base.
- A bare shaft pump version and version with spacer coupling are also available.

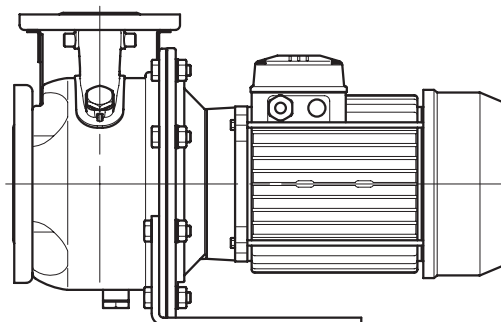
ACCESSORIES ON REQUEST

- AISI 316 stainless steel or galvanized iron counter-flanges.
- Intermediate flange with pressure gauge connection.
- Pump and motor shims.

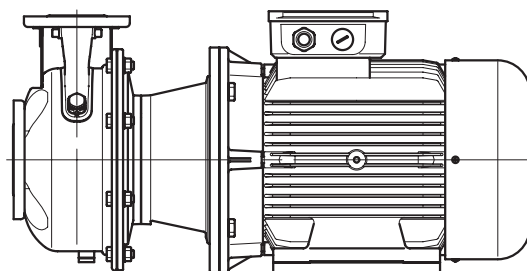
OPTIONAL FEATURES

- Different voltages and frequencies.
- Special materials for the mechanical seal and gaskets.
- Version with internal recirculation of pumped liquid to mechanical seal.
- Version with rotation locking system seal.
- Tropicalized motors.
- Version with HYDROVAR® control system.
- SHF with flexible coupling with spacer.
- Diesel motor.

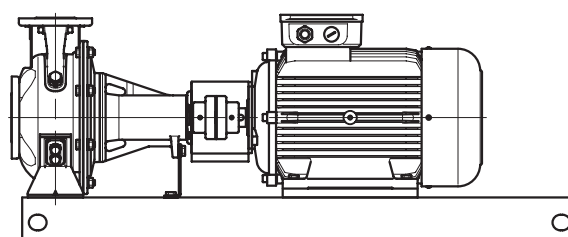
SHE - SHE4



SHS - SHS4



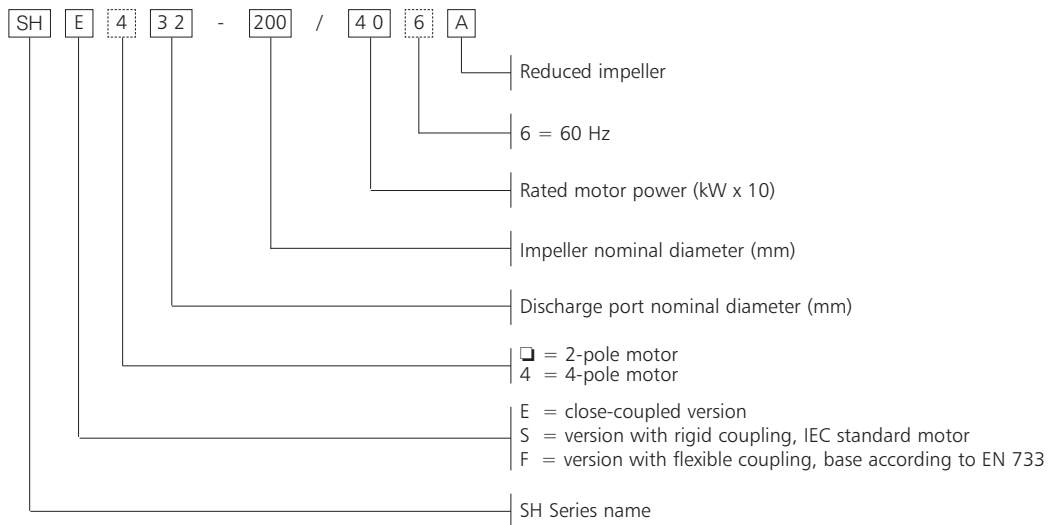
SHF - SHF4



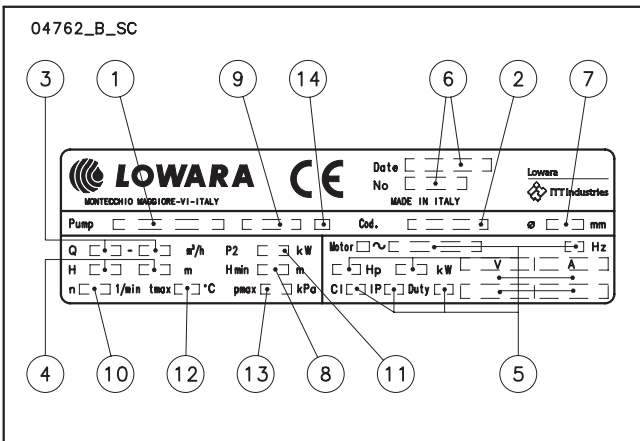
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SH SERIES IDENTIFICATION CODE



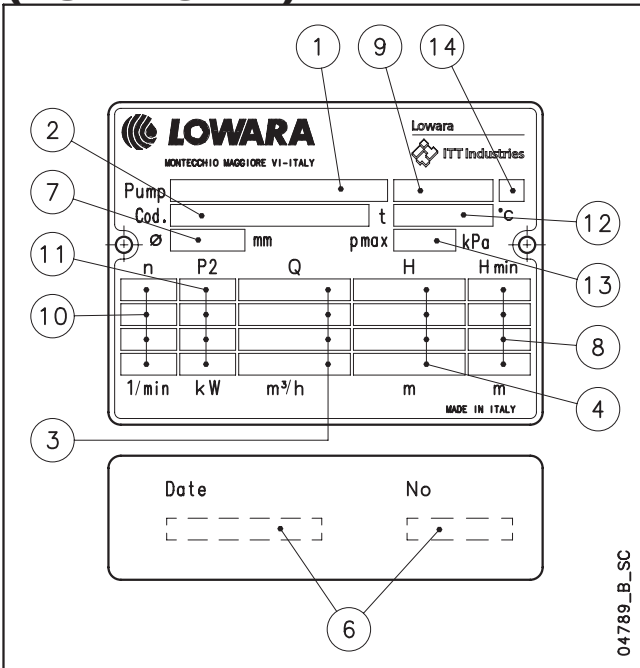
SHE – SHS RATING PLATE



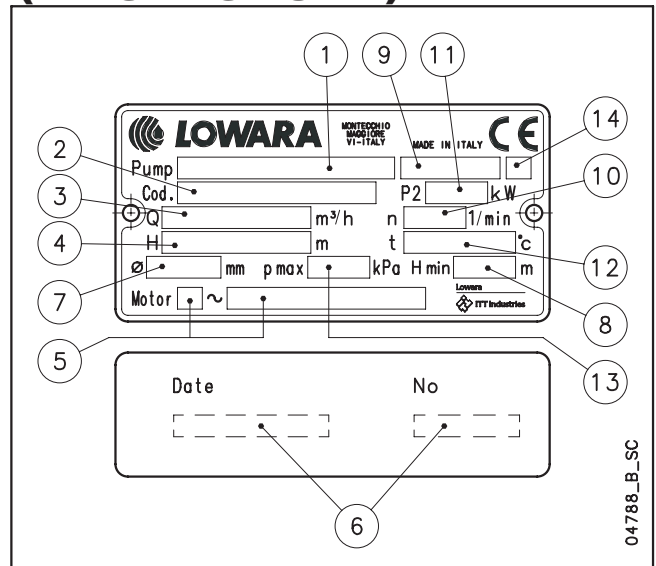
LEGEND

- 1– Electric pump type
- 2– Code
- 3– Delivery range
- 4– Head range
- 5– Motor type
- 6– Date of manufacture and serial number
- 7– Impeller diameter
- 8– Minimum head
- 9– Mechanical seal material identification code
- 10– Speed
- 11– Rated output
- 12– Maximum operating temperature
- 13– Maximum operating pressure
- 14– O-ring material identification code

SHF RATING PLATE (PUMP ONLY)



SHF RATING PLATE (ELECTRIC PUMP)



LIST OF MODELS SH SERIES 50 Hz
2 POLES

SIZE	kW	VERSION			
		SHEM	SHE	SHS	SHF
25-125/07	0,75	•	•	•	•
25-125/11	1,1	•	•	•	•
25-160/15	1,5	•	•	•	•
25-160/22	2,2	•	•	•	•
25-200/30	3	-	•	•	•
25-200/40	4	-	•	•	•
25-250/55	5,5	-	•	•	•
25-250/75	7,5	-	•	•	•
25-250/110	11	-	•	•	•
32-125/07	0,75	•	•	•	•
32-125/11	1,1	•	•	•	•
32-160/15	1,5	•	•	•	•
32-160/22	2,2	•	•	•	•
32-200/30	3	-	•	•	•
32-200/40	4	-	•	•	•
32-250/55	5,5	-	•	•	•
32-250/75	7,5	-	•	•	•
32-250/110	11	-	•	•	•
40-125/11	1,1	•	•	•	•
40-125/15	1,5	•	•	•	•
40-125/22	2,2	•	•	•	•
40-160/30	3	-	•	•	•
40-160/40	4	-	•	•	•
40-200/55	5,5	-	•	•	•
40-200/75	7,5	-	•	•	•
40-250/92	9,2	-	•	-	-
40-250/110A	11	-	-	•	•
40-250/110	11	-	•	•	•
40-250/150	15	-	•	•	•
50-125/22	2,2	•	•	•	•
50-125/30	3	-	•	•	•
50-125/40	4	-	•	•	•
50-160/55	5,5	-	•	•	•
50-160/75	7,5	-	•	•	•
50-200/92	9,2	-	•	-	-
50-200/110A	11	-	-	•	•
50-200/110	11	-	•	•	•
50-250/150	15	-	•	•	•
50-250/185	18,5	-	•	•	•
50-250/220	22	-	•	•	•
65-160/40	4	-	•	•	•
65-160/55	5,5	-	•	•	•
65-160/75	7,5	-	•	•	•
65-160/92	9,2	-	•	-	-
65-160/110A	11	-	-	•	•
65-160/110	11	-	•	•	•
65-200/150	15	-	•	•	•
65-200/185	18,5	-	•	•	•
65-200/220	22	-	•	•	•
65-250/300	30	-	-	•	•
65-250/370	37	-	-	•	•
80-160/110	11	-	•	•	•
80-160/150	15	-	•	•	•
80-160/185	18,5	-	•	•	•
80-200/220	22	-	•	•	•
80-200/300	30	-	-	•	•
80-200/370	37	-	-	•	•
80-250/450	45	-	-	-	•
80-250/550	55	-	-	-	•
80-250/750	75	-	-	-	•

• = Available

sh_she-shs-shf_2p50_b_tem

4 POLES

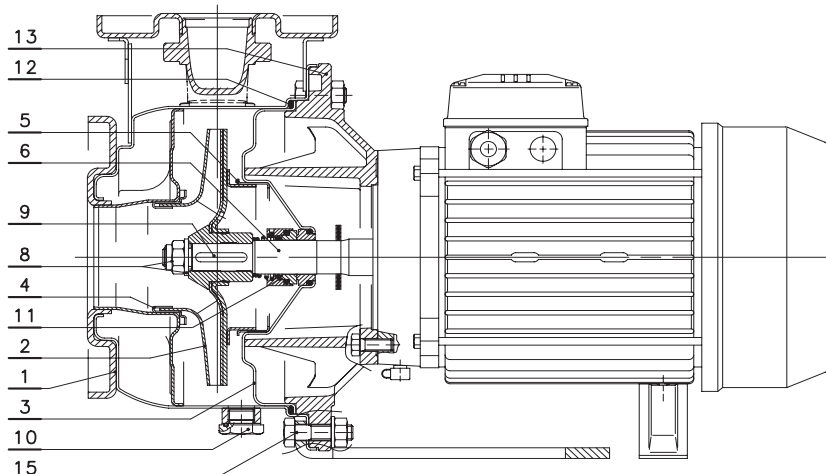
SIZE	kW	VERSION		
		SHE4	SHS4	SHF4
25-125/02A	0,25	•	-	•
25-125/02	0,25	•	-	•
25-160/02	0,25	•	-	•
25-160/03	0,37	•	-	•
25-200/03	0,37	•	-	•
25-200/05	0,55	•	-	•
25-250/07	0,75	•	•	•
25-250/11	1,1	•	•	•
25-250/15	1,5	•	•	•
32-125/02A	0,25	•	-	•
32-125/02	0,25	•	-	•
32-160/02	0,25	•	-	•
32-160/03	0,37	•	-	•
32-200/03	0,37	•	-	•
32-200/05	0,55	•	-	•
32-250/07	0,75	•	•	•
32-250/11	1,1	•	•	•
32-250/15	1,5	•	•	•
40-125/02A	0,25	•	-	•
40-125/02	0,25	•	-	•
40-125/03	0,37	•	-	•
40-160/03	0,37	•	-	•
40-160/05	0,5	•	-	•
40-200/07	0,75	•	•	•
40-200/11	1,1	•	•	•
40-250/11	1,1	•	•	•
40-250/15	1,5	•	•	•
40-250/22	2,2	•	•	•
50-125/03A	0,37	•	-	•
50-125/03	0,37	•	-	•
50-125/05	0,5	•	-	•
50-160/07	0,75	•	•	•
50-160/11	1,1	•	•	•
50-200/11	1,1	•	•	•
50-200/15	1,5	•	•	•
50-250/22A	2,2	•	•	•
50-250/22	2,2	•	•	•
50-250/30	3	•	•	•
65-160/05	0,5	•	•	•
65-160/07	0,75	•	•	•
65-160/11A	1,1	•	•	•
65-160/11	1,1	•	•	•
65-160/15	1,5	•	•	•
65-200/15	1,5	•	•	•
65-200/22	2,2	•	•	•
65-200/30	3	•	•	•
65-250/40	4	•	•	•
65-250/55	5,5	•	•	•
80-160/15	1,5	•	•	•
80-160/22A	2,2	•	•	•
80-160/22	2,2	•	•	•
80-200/30	3	•	•	•
80-200/40	4	•	•	•
80-250/55	5,5	•	•	•
80-250/75	7,5	•	•	•
80-250/92	9,2	•	•	-

• = Available

sh_she4-shs4-shf4_4p50_b_tem

SHE-SHE4 SERIES LIST OF MODELS AND TABLE OF MATERIALS

04906_B_DS



VERSIONS	
2 POLES	4 POLES
SHE 25-125/07	SHE4 25-200/05
SHE 25-125/11	SHE4 25-250/07
SHE 25-160/15	SHE4 25-250/11
SHE 25-160/22	SHE4 25-250/15
SHE 25-200/30	SHE4 32-200/05
SHE 25-200/40	SHE4 32-250/07
SHE 25-250/55	SHE4 32-250/11
SHE 25-250/75	SHE4 32-250/15
SHE 25-250/110	SHE4 40-160/05
SHE 32-125/07	SHE4 40-200/07
SHE 32-125/11	SHE4 40-200/11
SHE 32-160/15	SHE4 40-250/11
SHE 32-160/22	SHE4 40-250/15
SHE 32-200/30	SHE4 40-250/22
SHE 32-200/40	SHE4 50-125/05
SHE 32-250/55	SHE4 50-160/07
SHE 32-250/75	SHE4 50-160/11
SHE 32-250/110	SHE4 50-200/11
SHE 40-125/11	SHE4 50-200/15
SHE 40-125/15	SHE4 50-250/22A
SHE 40-125/22	SHE4 50-250/22
SHE 40-160/30	SHE4 50-250/30
SHE 40-160/40	SHE4 65-160/05
SHE 40-200/55	SHE4 65-160/07
SHE 40-200/75	SHE4 65-160/11A
SHE 40-250/92	SHE4 65-160/11
SHE 40-250/110	SHE4 65-160/15
SHE 50-125/22	SHE4 65-200/15
SHE 50-125/30	SHE4 65-200/22
SHE 50-125/40	SHE4 65-200/30
SHE 50-160/55	SHE4 65-250/40
SHE 50-160/75	SHE4 65-250/55
SHE 50-200/92	SHE4 80-160/15
SHE 50-200/110	SHE4 80-160/22A
SHE 65-160/40	SHE4 80-160/22
SHE 65-160/55	SHE4 80-200/30
SHE 65-160/75	SHE4 80-200/40
SHE 65-160/92	SHE4 80-250/55
SHE 65-160/110	SHE4 80-250/75
SHE 80-160/110	SHE4 80-250/92

sh-she-she4-p_a_mo

REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
2	Impeller 25-32-40-50-65(160)	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
	Impeller 65(200-250)-80	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (cast AISI 316)
3	Seal housing	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
4	Wear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
5	Counterwear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
6	Shaft extension	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
7	Rigid shaft coupling	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
8	Impeller locknut and washer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
9	Tab	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
10	Fill/drain plugs	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
11	Mechanical seal	Ceramic / Carbon / FPM (standard version)		
12	Elastomers	FPM (standard version)		
13	Adapter*	Aluminium	EN 1706-AC-AISI11Cu2 (Fe) (AC46100)	-
	Adapter	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
15	Pump body fastening bolts & screws	Galvanized steel		

* For the 25/32/40-125 2/4-pole, 25/32/40 - 160 2/4-pole, 25/32/40 - 200 2/4-pole versions



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SHE-SHE4 SERIES LIST OF MODELS AND TABLE OF MATERIALS

<p>04902_B_DS</p>	<table border="1"> <thead> <tr> <th colspan="2">VERSIONS 2 POLES</th> </tr> </thead> <tbody> <tr><td>SHE 40-250/150</td></tr> <tr><td>SHE 50-250/150</td></tr> <tr><td>SHE 50-250/185</td></tr> <tr><td>SHE 50-250/220</td></tr> <tr><td>SHE 65-200/150</td></tr> <tr><td>SHE 65-200/185</td></tr> <tr><td>SHE 65-200/220</td></tr> <tr><td>SHE 80-160/150</td></tr> <tr><td>SHE 80-160/185</td></tr> <tr><td>SHE 80-200/220</td></tr> </tbody> </table> <p style="text-align: right;">sh-she-s_a_mo</p>	VERSIONS 2 POLES		SHE 40-250/150	SHE 50-250/150	SHE 50-250/185	SHE 50-250/220	SHE 65-200/150	SHE 65-200/185	SHE 65-200/220	SHE 80-160/150	SHE 80-160/185	SHE 80-200/220										
VERSIONS 2 POLES																							
SHE 40-250/150																							
SHE 50-250/150																							
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SHE 65-200/150																							
SHE 65-200/185																							
SHE 65-200/220																							
SHE 80-160/150																							
SHE 80-160/185																							
SHE 80-200/220																							
	<table border="1"> <thead> <tr> <th colspan="2">VERSIONS 4 POLES</th> </tr> </thead> <tbody> <tr><td>SHE4 25-125/02A</td><td>SHE4 40-125/02A</td></tr> <tr><td>SHE4 25-125/02</td><td>SHE4 40-125/02</td></tr> <tr><td>SHE4 25-160/02</td><td>SHE4 40-125/03</td></tr> <tr><td>SHE4 25-160/03</td><td>SHE4 40-160/03</td></tr> <tr><td>SHE4 25-200/03</td><td>SHE4 50-125/03A</td></tr> <tr><td>SHE4 32-125/02A</td><td>SHE4 50-125/03</td></tr> <tr><td>SHE4 32-125/02</td><td></td></tr> <tr><td>SHE4 32-160/02</td><td></td></tr> <tr><td>SHE4 32-160/03</td><td></td></tr> <tr><td>SHE4 32-200/03</td><td></td></tr> </tbody> </table> <p style="text-align: right;">sh-she4-p_a_mo</p>	VERSIONS 4 POLES		SHE4 25-125/02A	SHE4 40-125/02A	SHE4 25-125/02	SHE4 40-125/02	SHE4 25-160/02	SHE4 40-125/03	SHE4 25-160/03	SHE4 40-160/03	SHE4 25-200/03	SHE4 50-125/03A	SHE4 32-125/02A	SHE4 50-125/03	SHE4 32-125/02		SHE4 32-160/02		SHE4 32-160/03		SHE4 32-200/03	
VERSIONS 4 POLES																							
SHE4 25-125/02A	SHE4 40-125/02A																						
SHE4 25-125/02	SHE4 40-125/02																						
SHE4 25-160/02	SHE4 40-125/03																						
SHE4 25-160/03	SHE4 40-160/03																						
SHE4 25-200/03	SHE4 50-125/03A																						
SHE4 32-125/02A	SHE4 50-125/03																						
SHE4 32-125/02																							
SHE4 32-160/02																							
SHE4 32-160/03																							
SHE4 32-200/03																							

REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
2	Impeller 25-32-40-50-65(160)	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
	Impeller 65(200-250)-80	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (cast AISI 316)
3	Seal housing	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
4	Wear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
5	Counterwear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
6	Shaft extension	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
7	Rigid shaft coupling	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
8	Impeller locknut and washer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
9	Tab	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
10	Fill/drain plugs	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
11	Mechanical seal	Ceramic / Carbon / FPM (standard version)		
12	Elastomers	FPM (standard version)		
13	Adapter*	Aluminium	EN 1706-AC-AISi11Cu2 (Fe) (AC46100)	-
	Adapter	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
15	Pump body fastening bolts & screws	Galvanized steel		

* For the 25/32/40-125 2/4-pole, 25/32/40 - 160 2/4-pole, 25/32/40 - 200 2/4-pole versions

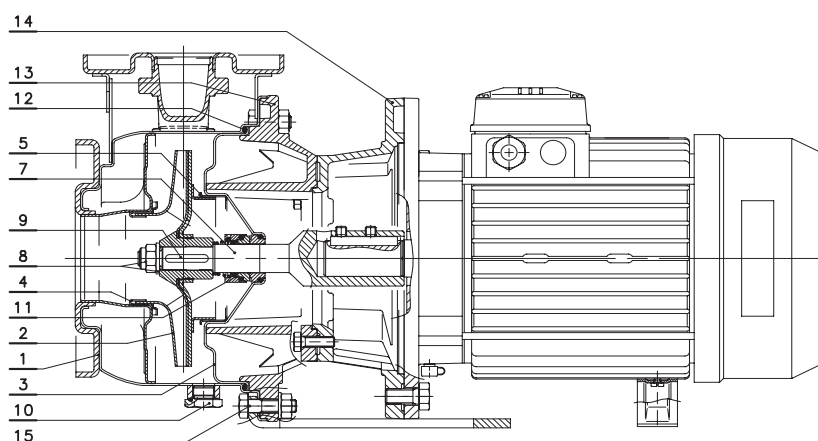


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SHS-SHS4 SERIES LIST OF MODELS AND TABLE OF MATERIALS

04956_C_DS



VERSIONS	
2 POLES	4 POLES
SHS 25-125/07	SHS4 25-250/07
SHS 25-125/11	SHS4 25-250/11
SHS 25-160/15	SHS4 25-250/15
SHS 25-160/22	SHS4 32-250/07
SHS 25-200/30	SHS4 32-250/11
SHS 25-200/40	SHS4 32-250/15
SHS 25-250/55	SHS4 40-200/07
SHS 25-250/75	SHS4 40-200/11
SHS 32-125/07	SHS4 40-250/11
SHS 32-125/11	SHS4 40-250/15
SHS 32-160/15	SHS4 40-250/22
SHS 32-160/22	SHS4 50-160/07
SHS 32-200/30	SHS4 50-160/11
SHS 32-200/40	SHS4 50-200/11
SHS 32-250/55	SHS4 50-200/15
SHS 32-250/75	SHS4 50-250/22A
SHS 40-125/11	SHS4 50-250/22
SHS 40-125/15	SHS4 50-250/30
SHS 40-125/22	SHS4 65-160/05
SHS 40-160/30	SHS4 65-160/07
SHS 40-160/40	SHS4 65-160/11A
SHS 40-200/55	SHS4 65-160/11
SHS 40-200/75	SHS4 65-160/15
SHS 50-125/22	SHS4 65-200/15
SHS 50-125/30	SHS4 65-200/22
SHS 50-125/40	SHS4 65-200/30
SHS 50-160/55	SHS4 65-250/40
SHS 50-160/75	SHS4 65-250/55
SHS 65-160/40	SHS4 80-160/15
SHS 65-160/55	SHS4 80-160/22A
SHS 65-160/75	SHS4 80-160/22
	SHS4 80-200/30
	SHS4 80-200/40
	SHS4 80-250/55
	SHS4 80-250/75
	SHS4 80-250/92

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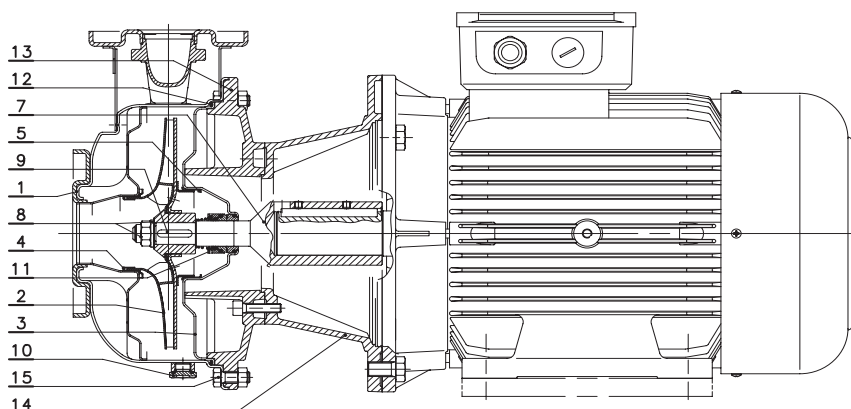
REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
2	Impeller 25-32-40-50-65(160)	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
	Impeller 65(200-250)-80	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (cast AISI 316)
3	Seal housing	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
4	Wear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
5	Counterwear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
7	Rigid shaft coupling	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
8	Impeller locknut and washer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
9	Tab	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
10	Fill/drain plugs	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
11	Mechanical seal	Ceramic / Carbon / FPM (standard version)		
12	Elastomers	FPM (standard version)		
13	Adapter*	Aluminium	EN 1706-AC-AISI11Cu2 (Fe) (AC46100)	-
	Adapter	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
14	Adapter-motor coupling	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
15	Pump body fastening bolts & screws	Galvanized steel		

* For the 25/32/40-125 2/4-pole, 25/32/40 - 160 2/4-pole, 25/32/40 - 200 2/4-pole versions

sh_shs_c_tm

**SHS SERIES
LIST OF MODELS AND TABLE OF MATERIALS**

04952_B_DS


**VERSIONS
2 POLES**

SHS 25-250/110
SHS 32-250/110
SHS 40-250/110A
SHS 40-250/110
SHS 40-250/150
SHS 50-200/110A
SHS 50-200/110
SHS 50-250/150
SHS 50-250/185
SHS 50-250/220
SHS 65-160/110A
SHS 65-160/110
SHS 65-200/150
SHS 65-200/185
SHS 65-200/220
SHS 65-250/300
SHS 65-250/370
SHS 80-160/110
SHS 80-160/150
SHS 80-160/185
SHS 80-200/220
SHS 80-200/300
SHS 80-200/370

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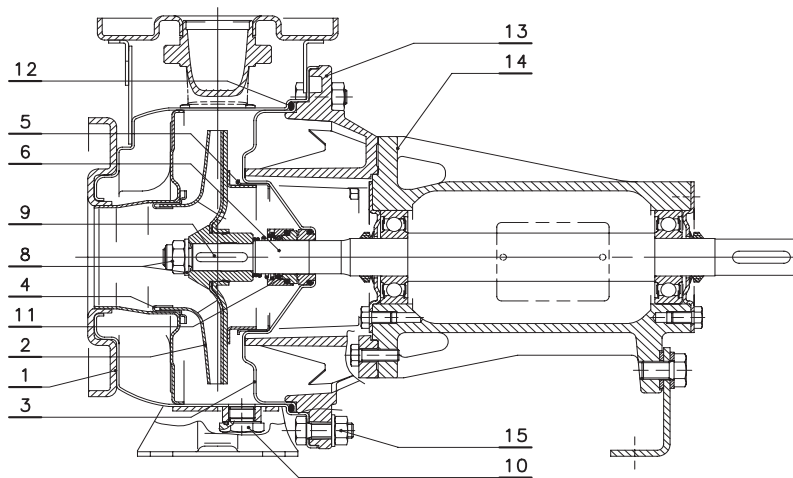
REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
2	Impeller 25-32-40-50-65(160)	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
	Impeller 65(200-250)-80	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (cast AISI 316)
3	Seal housing	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
4	Wear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
5	Counterwear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
7	Rigid shaft coupling	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
8	Impeller locknut and washer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
9	Tab	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
10	Fill/drain plugs	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
11	Mechanical seal	Ceramic / Carbon / FPM (standard version)		
12	Elastomers	FPM (standard version)		
13	Adapter*	Aluminium	EN 1706-AC-AISI11Cu2 (Fe) (AC46100)	-
	Adapter	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
14	Adapter-motor coupling	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
15	Pump body fastening bolts & screws	Galvanized steel		

* For the 25/32/40-125 2/4-pole, 25/32/40 - 160 2/4-pole, 25/32/40 - 200 2/4-pole versions



SHF BARE SHAFT SERIES LIST OF MODELS AND TABLE OF MATERIALS

04979_B_DS



VERSIONS
SHF 25-125
SHF 25-160
SHF 25-200
SHF 25-250
SHF 32-125
SHF 32-160
SHF 32-200
SHF 32-250
SHF 40-125
SHF 40-160
SHF 40-200
SHF 40-250
SHF 50-125
SHF 50-160
SHF 50-200
SHF 50-250
SHF 65-160
SHF 65-200
SHF 65-250
SHF80-160
SHF 80-200
SHF 80-250

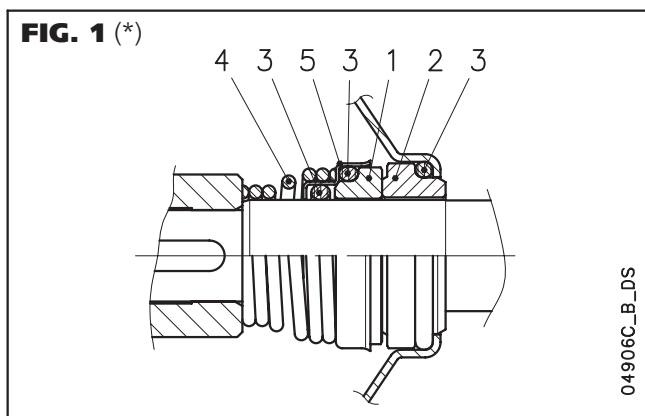
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REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
2	Impeller 25-32-40-50-65(160)	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
	Impeller 65(200-250)-80	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (cast AISI 316)
3	Seal housing	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
4	Wear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
5	Counterwear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
6	Shaft extension	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
8	Impeller locknut and washer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
9	Tab	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
10	Fill/drain plugs	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
11	Mechanical seal	Ceramic / Carbon / FPM (standard version)		
12	Elastomers	FPM (standard version)		
13	Adapter *	Aluminium	EN 1706-AC-AISI11Cu2 (Fe) (AC46100)	-
	Adapter	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
14	Transmission support body	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
15	Pump body fastening bolts & screws	Galvanized steel		

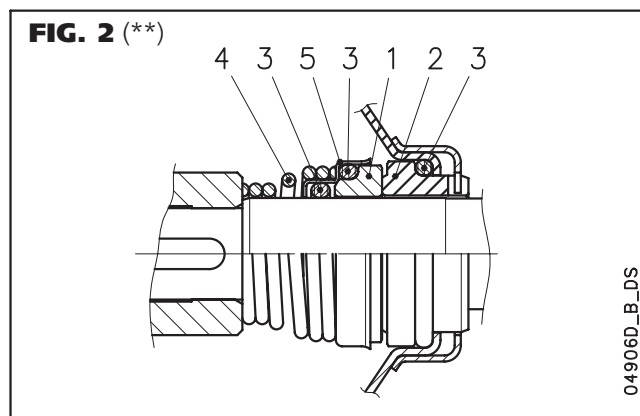
*For the 25/32/40-125 2/4-pole, 25/32/40 - 160 2/4-pole, 25/32/40 - 200 2/4-pole versions

SH MECHANICAL SEAL SERIES, ACCORDING TO EN 12756

Mechanical seal with mounting dimensions according to EN 12756 (ex DIN 24960) and ISO 3069.



(*) Standard version



(**) Version with fixed assembly anti-rotation lockpin

LIST OF MATERIALS

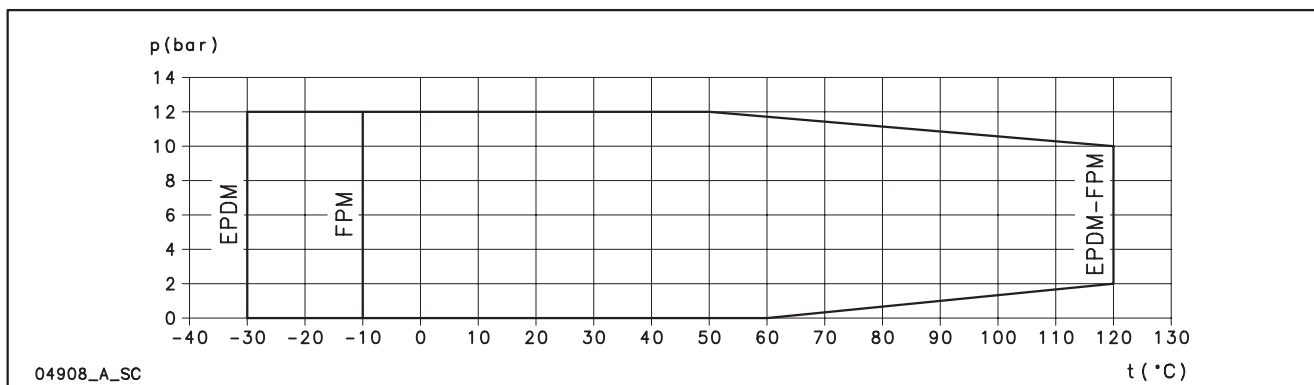
POSITION 1 – 2	POSITION 3	POSITION 4 – 5
B : Resin impregnated carbon	E : EPDM	G : AISI 316
Q ₁ : Silicon carbide	V : FPM	
V : Ceramic		

sh_ten-mec_a_tm

SEAL TYPES

TYPE	POSITION					TEMPERATURE (°C)
	1 ROTATING ASSEMBLY	2 FIXED ASSEMBLY	3 ELASTOMERS	4 SPRINGS	5 OTHER COMPONENTS	
STANDARD MECHANICAL SEAL						
VBVGG	V	B	V	G	G	-10 +120
OTHER MECHANICAL SEAL TYPES						
Q ₁ BVGG	Q ₁	B	V	G	G	-10 +120
Q ₁ Q ₁ VGG	Q ₁	Q ₁	V	G	G	-10 +120
VBEGG	V	B	E	G	G	-30 +120
Q ₁ BEGG	Q ₁	B	E	G	G	-30 +120
Q ₁ Q ₁ EGG	Q ₁	Q ₁	E	G	G	-30 +120

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COMPLETE PUMP PRESSURE / TEMPERATURE OPERATING LIMITS (WITH ANY OF THE SEALS LISTED ABOVE)


04908_A_SC

t (°C)

MOTORS

Enclosed short circuit squirrel cage motor (TEFC), with aluminium casing and external ventilation. Lowara motors are used as standard for powers up to 7.5 kW (included) in the 4-pole version and up to 22 kW (included) in the 2-pole version. Other motor brands are used for higher powers.

The Lowara surface motors have efficiency values that fall within the range normally referred to as efficiency class 2.

The motors are fan cooled according to EN 60034-6.

The terminal box is made of ABS technopolymer for motor sizes up to IM 100 and aluminium alloy for larger sizes.

The cable gland has standard passage dimensions according to EN 50262 (metric thread) for SM motors, and according to DIN 46255 (Pg thread) for LM motors.

The standard protection is IP55, insulation class F.

Standard voltage:

- Single-phase version: 220-240 V 50 Hz, with built-in automatic reset overload protection up to 1.5 kW.
- Three-phase version: 220-240/380-415 V 50 Hz for powers up to 3 kW. 380-415/660-690 V 50 Hz for powers above 3 kW, overload protection to be provide by the user.

SHE SERIES SINGLE-PHASE 50 Hz, 2-POLE MOTORS

MOTOR TYPE			INPUT CURRENT	CAPACITOR		DATA FOR 230 V 50 Hz VOLTAGE					
kW	IEC SIZE*	CONSTRUCTION DESIGN	In (A)	F	V	rpm	Is / In	n %	cosφ	Cn Nm	Cs/Cn
			220-240 V								
0,75	90R	B14	5.02-5.39	30	450	2875	5,10	70,6	0,91	2,49	0,71
1,1	90R	B14	7.07-6.81	30	450	2800	3,80	73,8	0,95	3,75	0,47
1,5	90R	B14	9.32-8.63	40	450	2780	3,45	75,5	0,97	5,15	0,47
2,2	90	B14	13.3-12.6	50	450	2785	3,45	76,9	0,97	7,54	0,36

*R = Reduced size of motor casing as compared to shaft extension and flange.

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SHE SERIES THREE-PHASE 50 Hz 2-POLE MOTORS

MOTOR TYPE			INPUT CURRENT				DATA FOR 400 V 50 Hz VOLTAGE					
kW	IEC SIZE*	CONSTRUCTION DESIGN	In (A)				rpm	Is / In	n %	cosφ	Cn Nm	Cs/Cn
			Δ 220-240 V	Y 380-415 V	Δ 380-415 V	Y 660-690 V						
0,75	90R	B14	3,72	2,15	-	-	2915	8,23	77,7	0,65	2,45	5,20
1,1	90R	B14	4,52	2,61	-	-	2875	6,78	78,9	0,77	3,65	3,49
1,5	90R	B14	5,98	3,45	-	-	2875	7,04	80,1	0,78	4,98	3,83
2,2	90R	B14	8,71	5,03	-	-	2860	7,32	81,1	0,78	7,34	4,12
3	90	B14	10,4	6,01	-	-	2860	6,38	84,3	0,85	10,0	2,77
4	112R	B14	-	-	8,09	4,67	2890	7,70	85,3	0,84	13,2	2,80
5,5	112	B14	-	-	10,1	5,83	2900	9,62	87,0	0,90	18,1	3,91
7,5	112	B14	-	-	13,7	7,91	2900	9,73	88,1	0,90	24,7	3,99
9,2	132	B14	-	-	16,8	9,7	2930	9,15	89,7	0,88	30,0	4,31
11	132	B14	-	-	20,0	11,5	2925	8,98	89,7	0,88	35,9	3,43
15	160	B34	-	-	26,7	15,4	2940	8,72	89,7	0,90	48,7	3,49
18,5	160	B34	-	-	32,8	18,9	2945	9,49	90,7	0,90	60,0	3,27
22	180R	B34	-	-	38,7	22,3	2940	9,16	91,3	0,90	71,4	3,20

*R = Reduced size of motor casing as compared to shaft extension and flange

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ITT

Lowara

SHS-SHF SERIES THREE-PHASE 50 Hz 2-POLE MOTORS

MOTOR TYPE				INPUT CURRENT				DATA FOR 400 V 50 Hz VOLTAGE					
kW	IEC SIZE*	CONSTRUCTION DESIGN		In (A)				rpm	Is / In	n %	cosφ	Cn	
		SHS	SHF	Δ 220-240 V	Y 380-415 V	Δ 380-415 V	Y 660-690 V					Nm	Cs/Cn
0,75	80R	B5	-	3,50	2,02	-	-	2855	5,81	74,3	0,72	2,51	3,76
0,75	80	-	B3	3,72	2,15	-	-	2915	8,23	77,7	0,65	2,45	5,20
1,1	80	B5	B3	4,52	2,61	-	-	2875	6,78	78,9	0,77	3,65	3,49
1,5	90R	B5	-	5,98	3,45	-	-	2875	7,04	80,1	0,78	4,98	3,83
1,5	90	-	B3	5,42	3,13	-	-	2870	6,39	80,8	0,85	4,99	2,62
2,2	90R	B5	-	8,71	5,03	-	-	2860	7,32	81,1	0,78	7,34	4,12
2,2	90	-	B3	7,81	4,51	-	-	2860	6,63	82,1	0,86	7,34	2,91
3	100R	B5	-	10,4	6,01	-	-	2860	6,38	84,3	0,85	10,0	2,77
3	100	-	B3	10,4	6,01	-	-	2885	6,96	84,4	0,85	9,92	3,09
4	112R	B5	-	-	-	8,09	4,67	2890	7,70	85,3	0,84	13,2	2,80
4	112	-	B3	-	-	7,43	4,29	2900	8,29	87,0	0,89	13,2	3,35
5,5	132R	B5	-	-	-	10,1	5,83	2900	9,62	87,0	0,90	18,1	3,91
5,5	132	-	B3	-	-	10,3	5,95	2910	7,11	87,1	0,89	18,0	3,08
7,5	132R	B5	-	-	-	13,7	7,91	2900	9,73	88,1	0,90	24,7	3,99
7,5	132	-	B3	-	-	13,9	8,03	2920	7,76	88,3	0,88	24,5	2,97
11	160	B35	B3	-	-	20,1	11,6	2935	7,58	88,5	0,89	35,8	2,91
15	160	B35	B3	-	-	26,7	15,4	2940	8,72	89,7	0,90	48,7	3,49
18,5	160	B35	B3	-	-	32,8	18,9	2945	9,49	90,7	0,90	60,0	3,27
22	180R	B35	-	-	-	38,7	22,3	2940	9,16	91,3	0,90	71,4	3,20
22	180	-	B3	-	-	41,7	24,1	2930	7,10	90,8	0,84	72,0	2,50
30	200	B35	B3	-	-	54	31,2	2950	6,80	92,5	0,87	97,0	2,40
37	200	B35	B3	-	-	65	37,5	2950	7,20	92,9	0,88	120	2,50
45	225	-	B3	-	-	80	46	2960	6,70	92,9	0,88	145	2,40
55	250	-	B3	-	-	99	57	2955	6,70	93,0	0,87	178	2,40
75	280	-	B3	-	-	133	77	2960	6,80	93,8	0,87	242	2,30

*R = Reduced size of motor casing as compared to shaft extension and flange

shs-shf-mott-2p50_b_te

**SHE SERIES
THREE-PHASE 50 Hz 4-POLE MOTORS**

MOTOR TYPE			INPUT CURRENT				DATA FOR 400 V 50 Hz VOLTAGE					
kW	IEC SIZE*	CONSTRUCTION DESIGN	In (A)				rpm	Is / In	n %	cosφ	Cn Nm	Cs/Cn
			Δ 220-240 V	Y 380-415 V	Δ 380-415 V	Y 660-690 V						
0,25	71	B5	1,71	0,99	-	-	1390	3,58	62,0	0,59	1,71	3,16
0,37	71	B5	2,53	1,46	-	-	1370	3,39	61,4	0,60	2,57	3,40
0,55	90R	B14	3,03	1,75	-	-	1390	3,95	68,2	0,67	3,77	2,45
0,75	90R	B5	4,04	2,33	-	-	1395	4,06	70,1	0,66	5,13	2,73
1,1	90	B5	4,42	2,55	-	-	1415	4,48	78,2	0,80	7,42	2,14
1,5	90	B5	5,84	3,37	-	-	1415	5,10	81,0	0,79	10,1	2,43
2,2	100	B5	8,16	4,71	-	-	1420	5,52	83,1	0,81	14,8	2,36
3	100	B5	11,1	6,38	-	-	1425	6,13	84,1	0,81	20,1	2,69
4	112	B5	-	-	8,39	4,84	1440	6,47	85,5	0,81	26,5	2,69
5,5	132	B14	-	-	11,4	6,58	1450	5,71	87,2	0,80	36,2	2,56
7,5	132	B14	-	-	15,3	8,83	1445	6,14	88,0	0,81	49,5	2,93
9,2	132	B14	-	-	18,5	10,7	1445	6,14	88,2	0,81	60,7	2,88

*R = Reduced size of motor casing as compared to shaft extension and flange

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**SHS-SHF SERIES
THREE-PHASE 50 Hz 4-POLE MOTORS**

MOTOR TYPE				INPUT CURRENT				DATA FOR 400 V 50 Hz VOLTAGE					
kW	IEC SIZE*	CONSTRUCTION DESIGN		In (A)				rpm	Is / In	n %	cosφ	Cn Nm	Cs/Cn
		SHS	SHF	Δ 220-240 V	Y 380-415 V	Δ 380-415 V	Y 660-690 V						
0,25	71	-	B3	1,71	0,99	-	-	1390	3,58	62,0	0,59	1,71	3,16
0,37	71	-	B3	2,53	1,46	-	-	1370	3,39	61,4	0,60	2,57	3,40
0,55	80	B5	B3	3,03	1,75	-	-	1390	3,95	68,2	0,67	3,77	2,45
0,75	80	B5	B3	4,04	2,33	-	-	1395	4,06	70,1	0,66	5,13	2,73
1,1	90	B5	B3	4,42	2,55	-	-	1415	4,48	78,2	0,80	7,42	2,14
1,5	90	B5	B3	5,84	3,37	-	-	1415	5,10	81,0	0,79	10,1	2,43
2,2	100	B5	B3	8,16	4,71	-	-	1420	5,52	83,1	0,81	14,8	2,36
3	100	B5	B3	11,1	6,38	-	-	1425	6,13	84,1	0,81	20,1	2,69
4	112	B5	B3	-	-	8,39	4,84	1440	6,47	85,5	0,81	26,5	2,69
5,5	132	B5	B3	-	-	11,4	6,58	1450	5,71	87,2	0,80	36,2	2,56
7,5	132	B5	B3	-	-	15,3	8,83	1445	6,14	88,0	0,81	49,5	2,93
9,2	132	B5	-	-	-	18,5	10,7	1445	6,14	88,2	0,81	60,7	2,88

*R = Reduced size of motor casing as compared to shaft extension and flange

shs-shf-mott-4p50_b_te

MOTOR NOISE

The tables below show the mean sound pressure levels (Lp) measured at 1 meter's distance in a free field according to the A curve (ISO 1680 standard).

The noise values are measured with idling 50 Hz motor with a tolerance of 3 dB (A).

**SHE-SHS 50 Hz 2-POLE
MOTOR NOISE**

POWER	MOTOR TYPE	NOISE
kW	SIZE IEC*	LpA dB
0,75	90R	<70
1,1	90R	<70
1,5	90R	<70
2,2	90R	<70
3	90	<70
4	112R	<70
5,5	112	<70
7,5	112	<70
9,2	132	73
11	132	73
15	160	75
18,5	160	75
22	160	75
30	200	80
37	200	80

**SHF 50 Hz 2-POLE
MOTOR NOISE**

POWER	MOTOR TYPE	NOISE
kW	SIZE IEC*	LpA dB
0,75	80	<70
1,1	80	<70
1,5	90	<70
2,2	90	<70
3	100	<70
4	112	<70
5,5	132	73
7,5	132	73
11	160	75
15	160	75
18,5	160	75
22	180	78
30	200	80
37	200	80
45	225	84
55	250	84
75	280	84

**SHE4-SHS4 50 Hz 4-POLE
MOTOR NOISE**

POWER	MOTOR TYPE	NOISE
kW	SIZE IEC*	LpA dB
0,25	71	<70
0,37	71	<70
0,55	90R	<70
0,75	90R	<70
1,1	90	<70
1,5	90	<70
2,2	100	<70
3	100	<70
4	112	<70
5,5	132	<70
7,5	132	<70
9,2	132	<70

**SHF4 50 Hz 4-POLE
MOTOR NOISE**

POWER	MOTOR TYPE	NOISE
kW	SIZE IEC	LpA dB
0,25	71	<70
0,37	71	<70
0,55	80	<70
0,75	80	<70
1,1	90	<70
1,5	90	<70
2,2	100	<70
3	100	<70
4	112	<70
5,5	132	<70
7,5	132	<70
-	-	-

*R = Reduced size of motor casing as compared to shaft extension and flange

sh_she-shs-shf_mott_b_tr



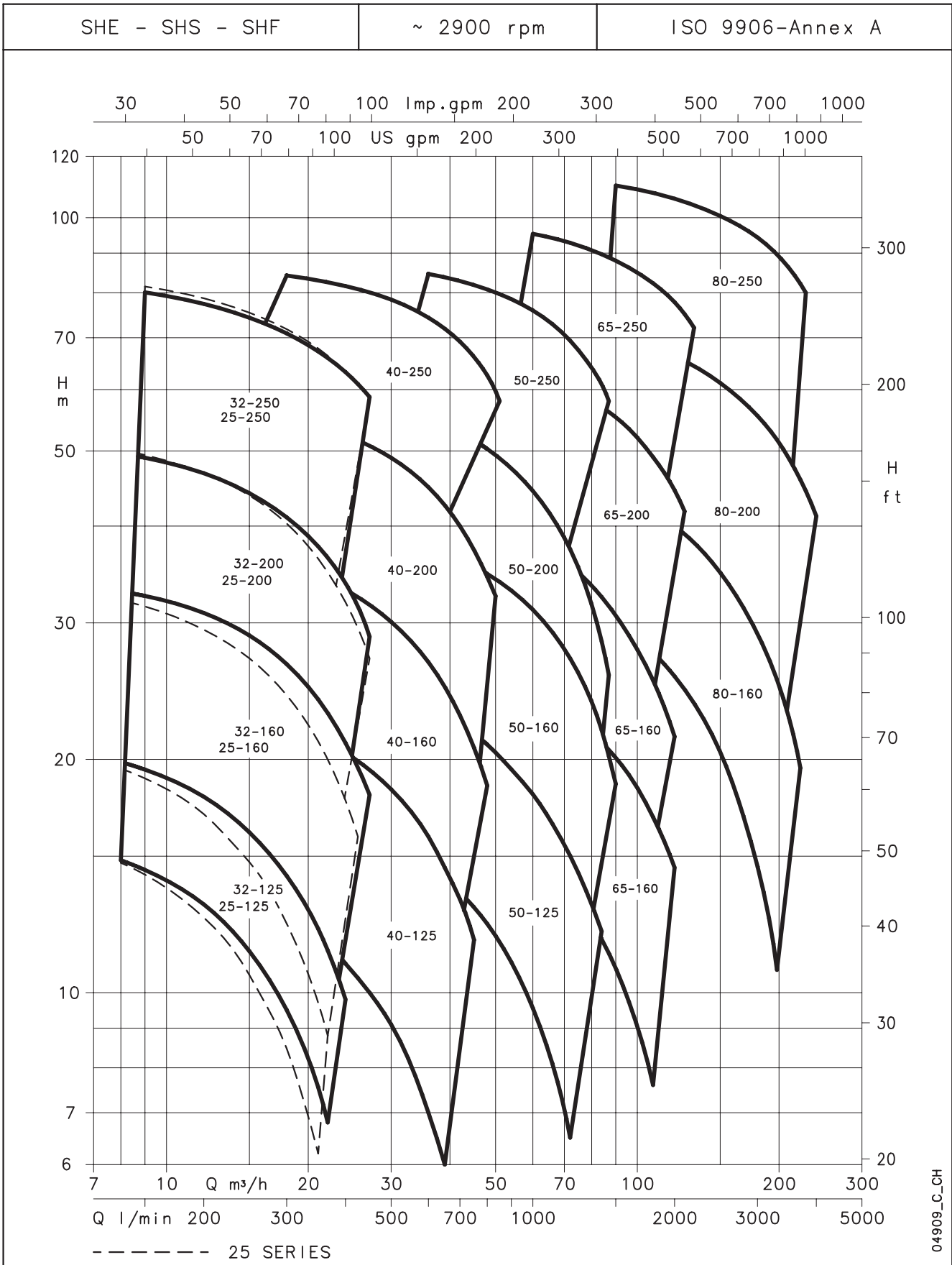
Lowara



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Lowara

SHE-SHS-SHF SERIES HYDRAULIC PERFORMANCE RANGE AT 50 Hz, 2 POLES



04909_C_CH

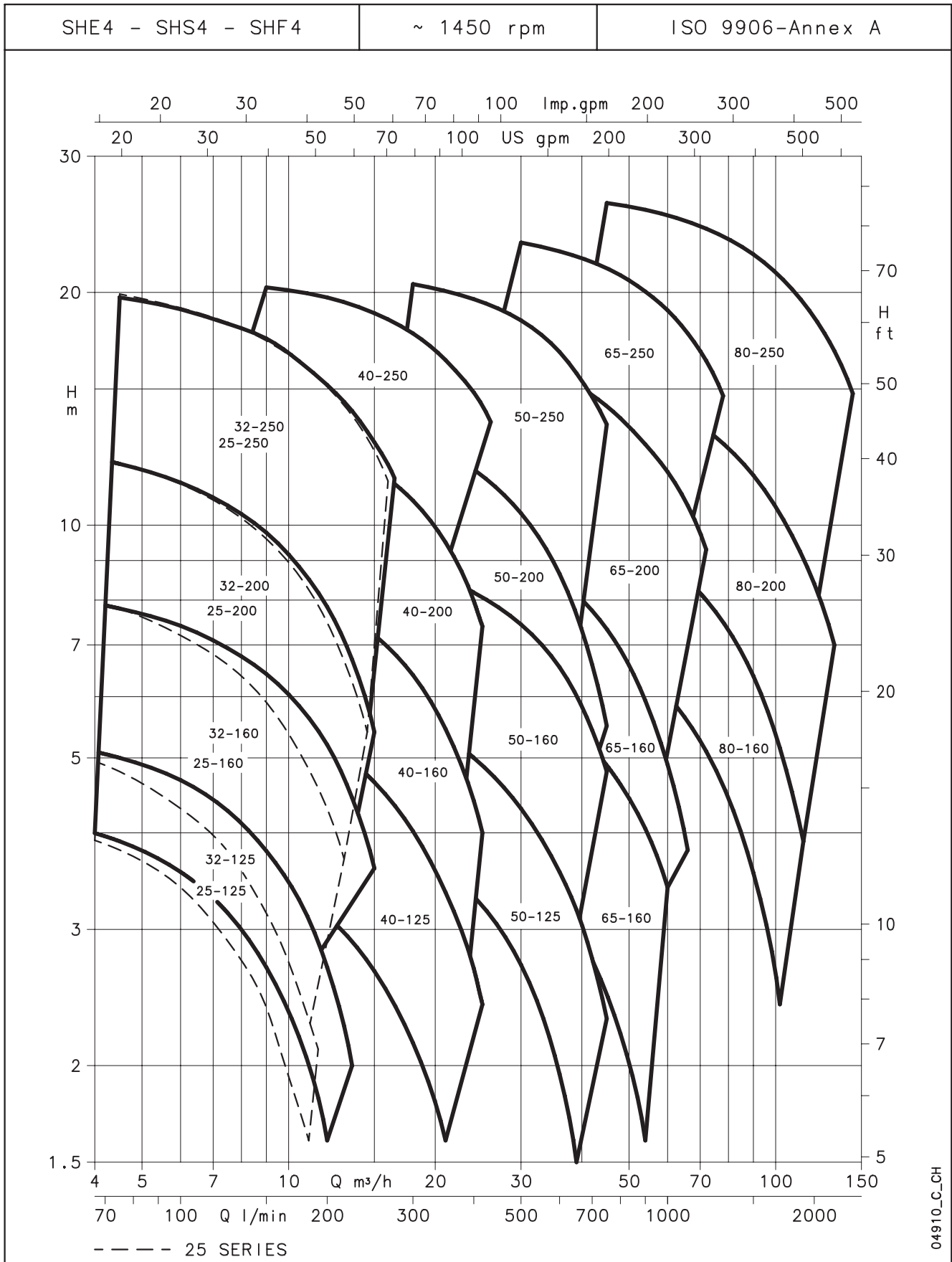
These performances are valid for liquids with density $\rho=1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.



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SHE4-SHS4-SHF4 SERIES HYDRAULIC PERFORMANCE RANGE AT 50 Hz, 4 POLES



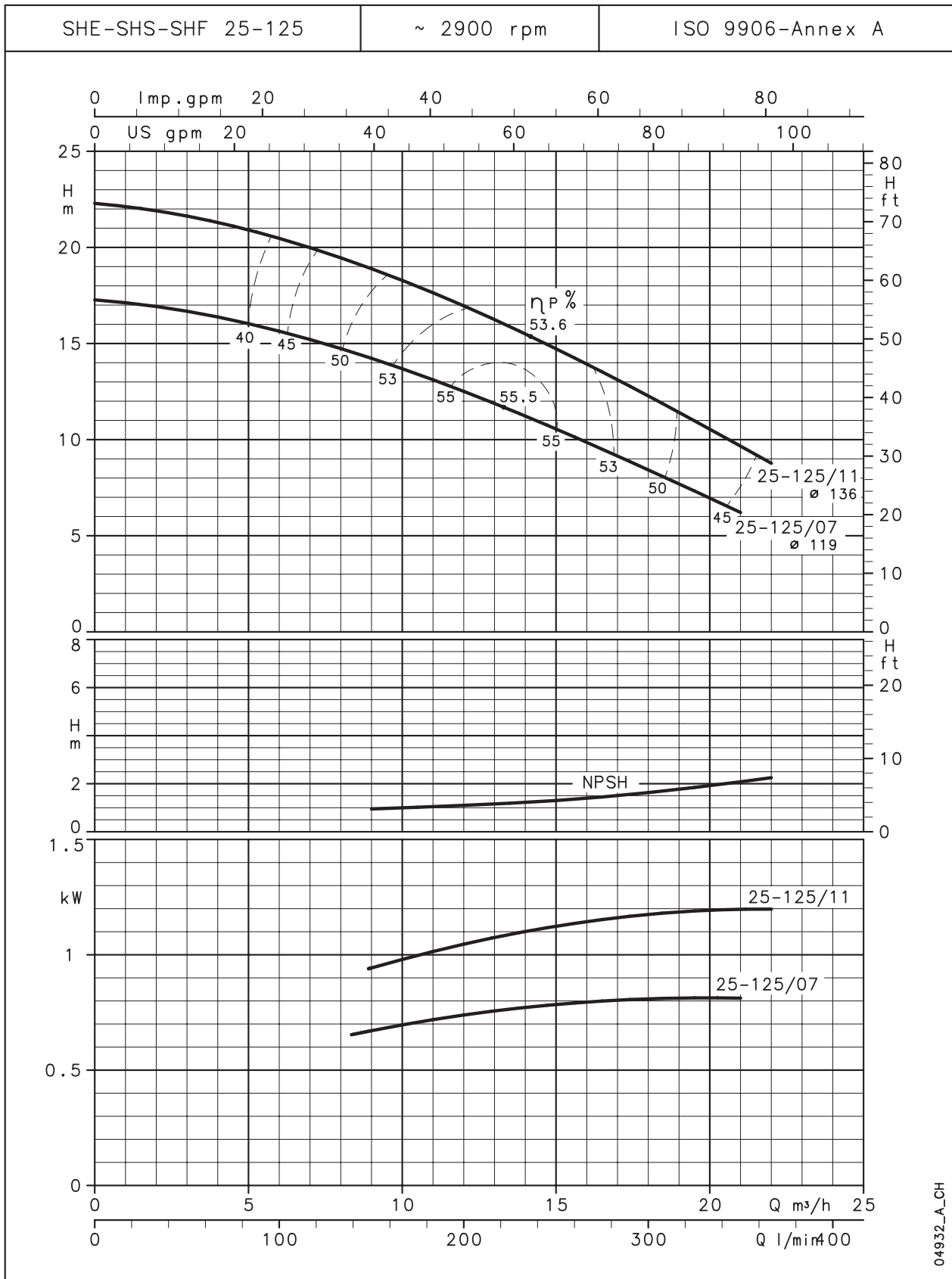
These performances are valid for liquids with density $\rho=1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.



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SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES

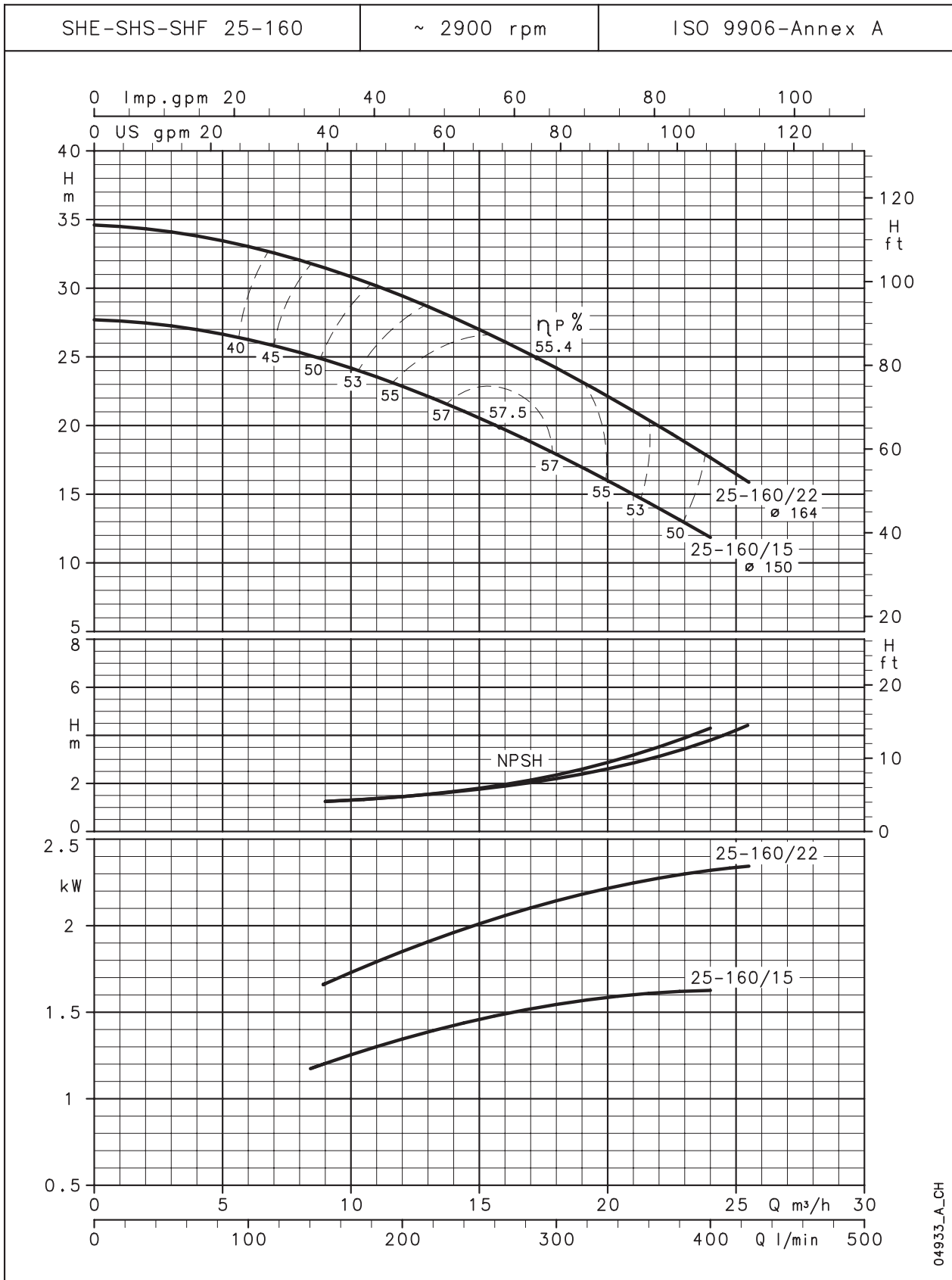


04932_A_CH

The NPSH values are laboratory values; for practical use we suggest increasing these values by 0.5 m
The performances are valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.



SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES

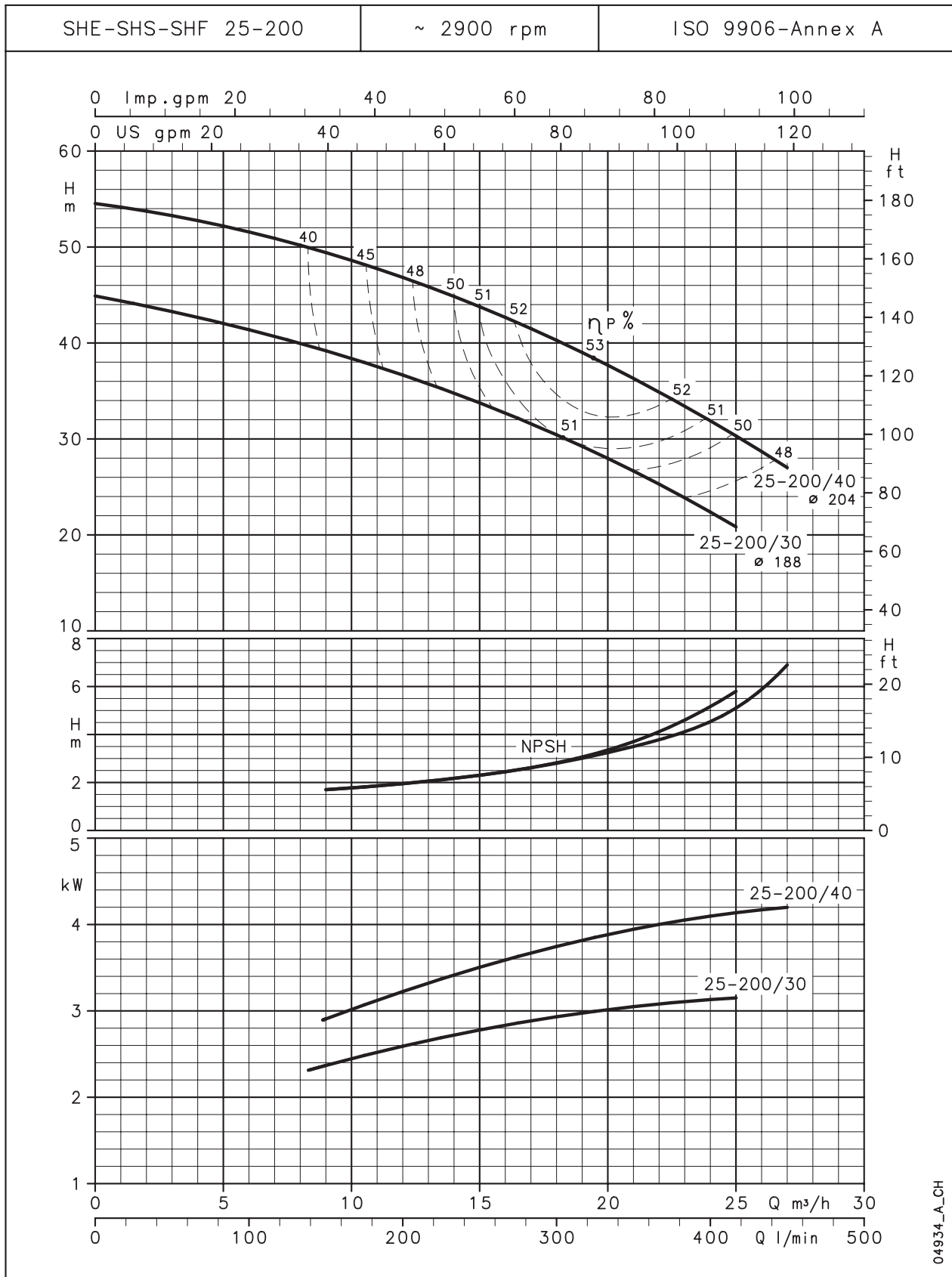


04933_A_CH

The NPSH values are laboratory values: for practical use we suggest increasing these values by 0.5 m
The performances are valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.



SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04934_A_CH

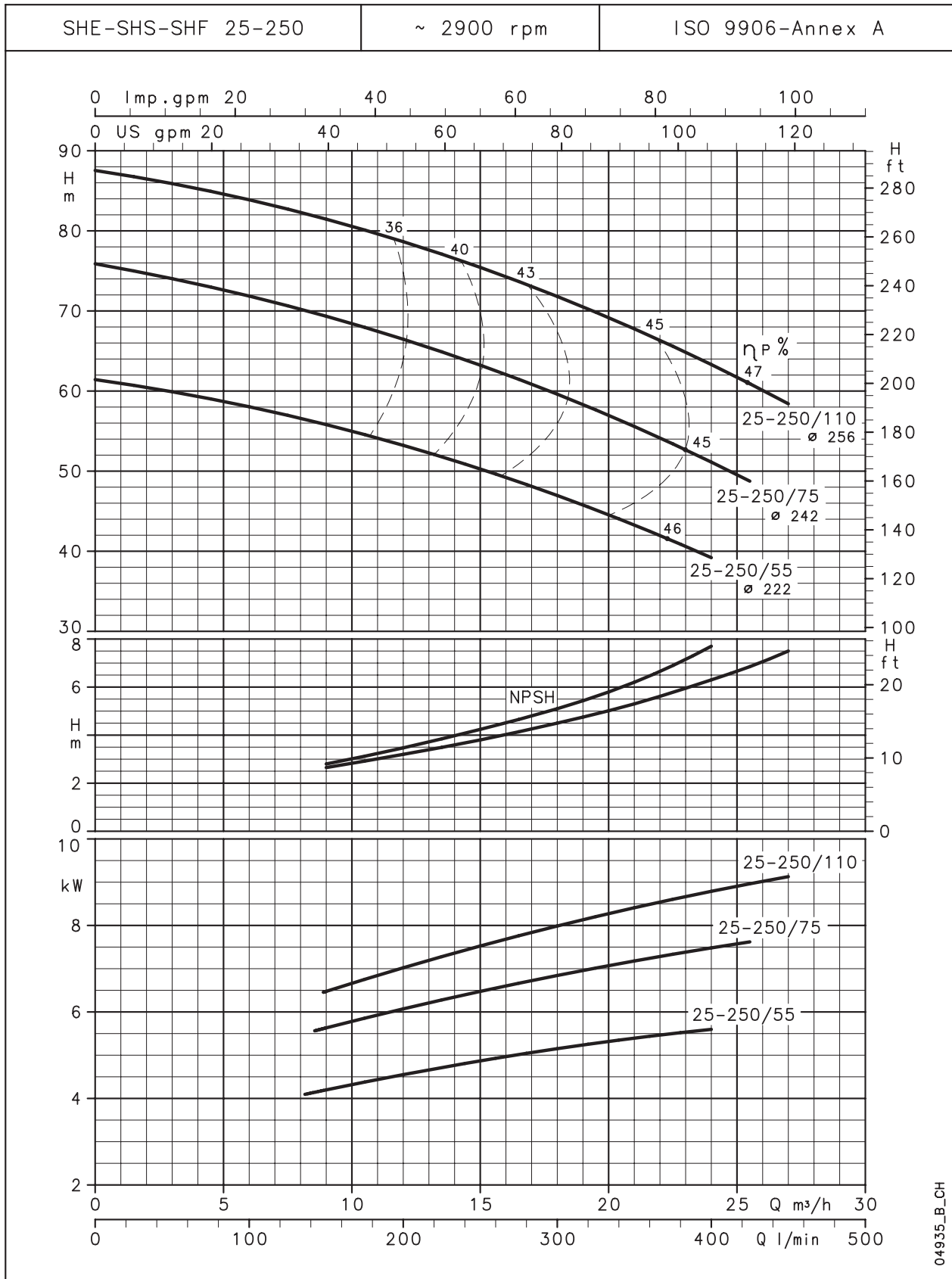
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0.5 m
The performances are valid for liquids with density $\rho=1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.



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SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES

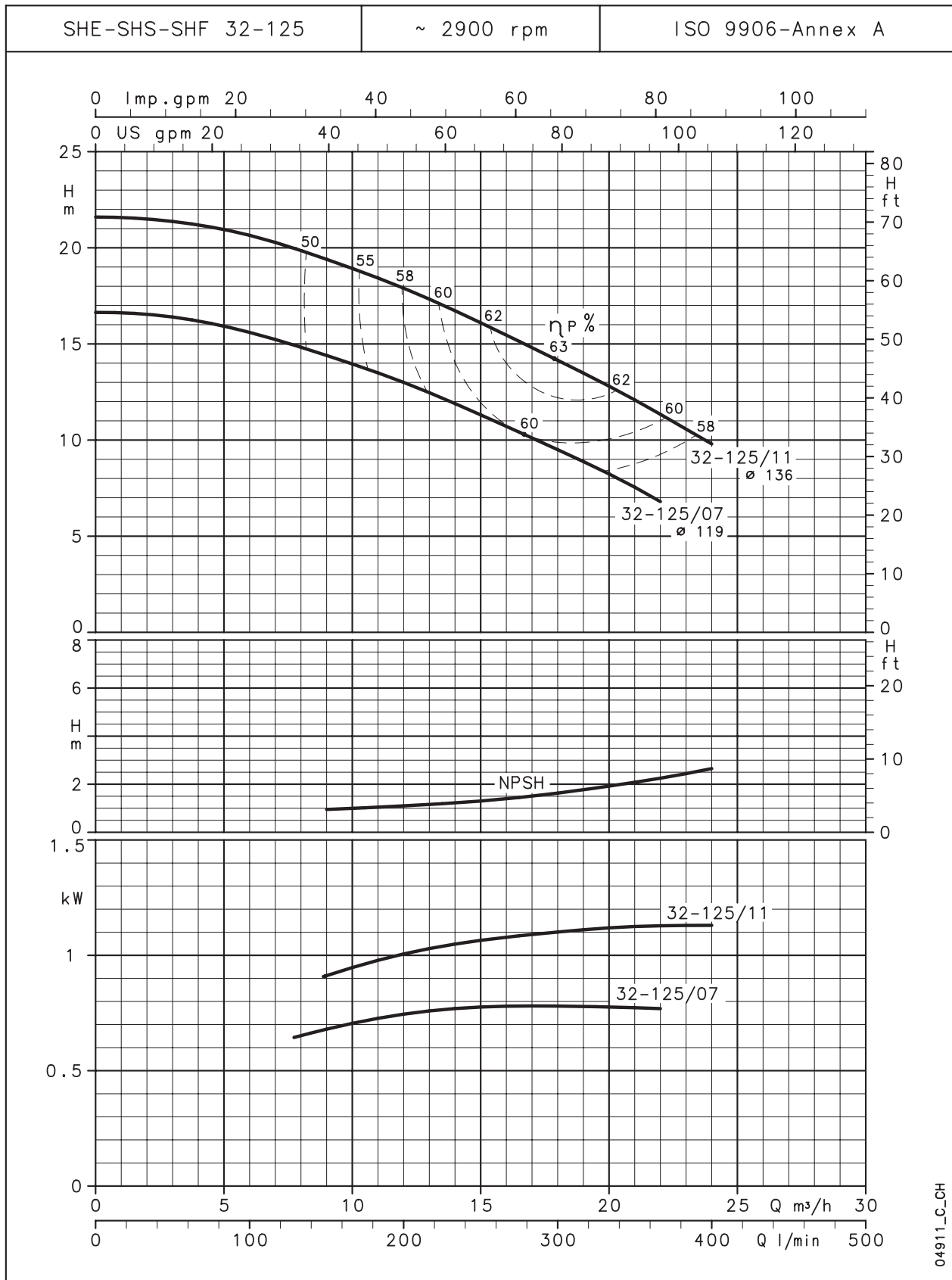


04935_B_CH

The NPSH values are laboratory values: for practical use we suggest increasing these values by 0.5 m
The performances are valid for liquids with density $\rho=1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.



SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



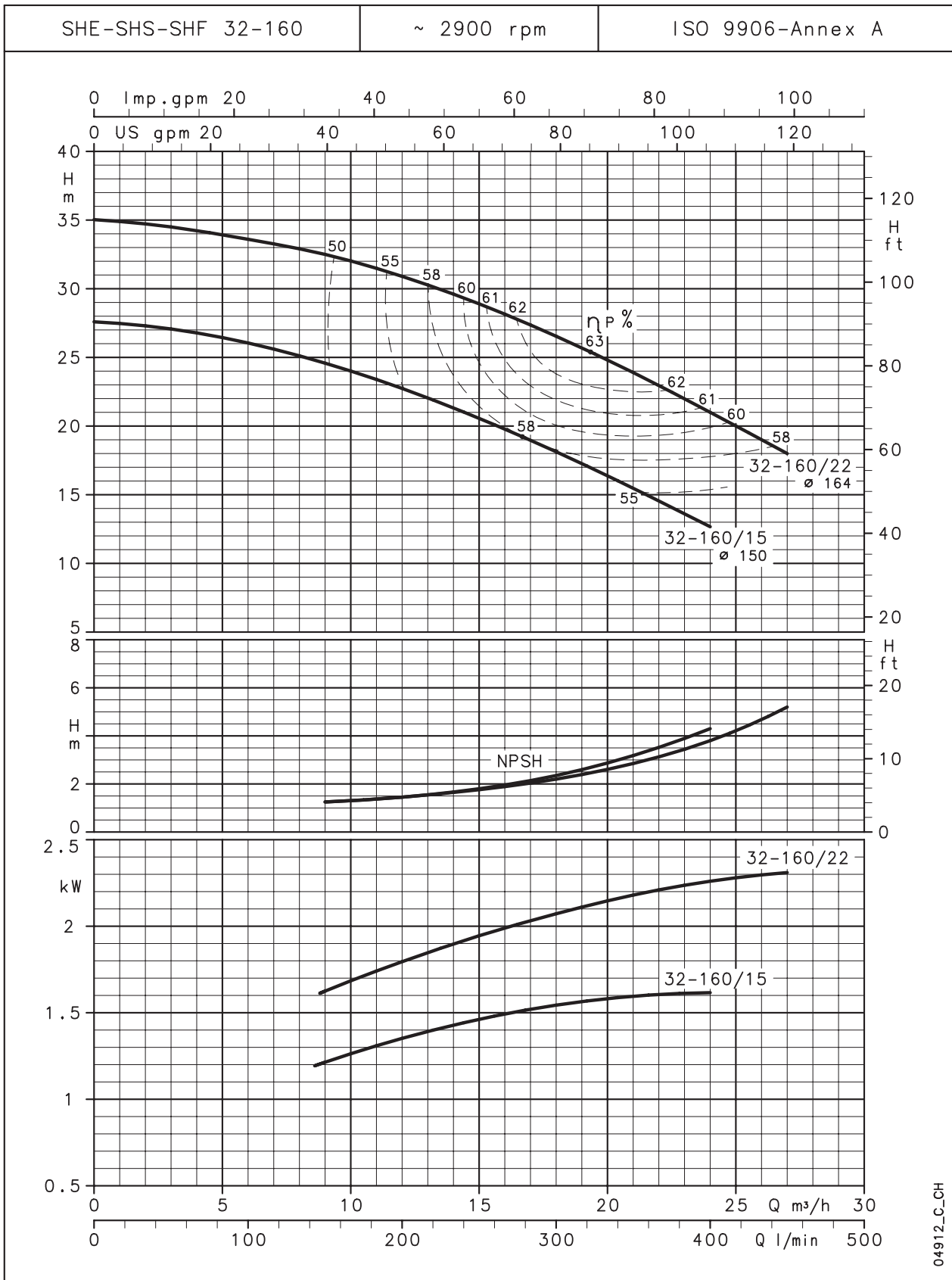
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0.5 m
 The performances are valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.



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SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



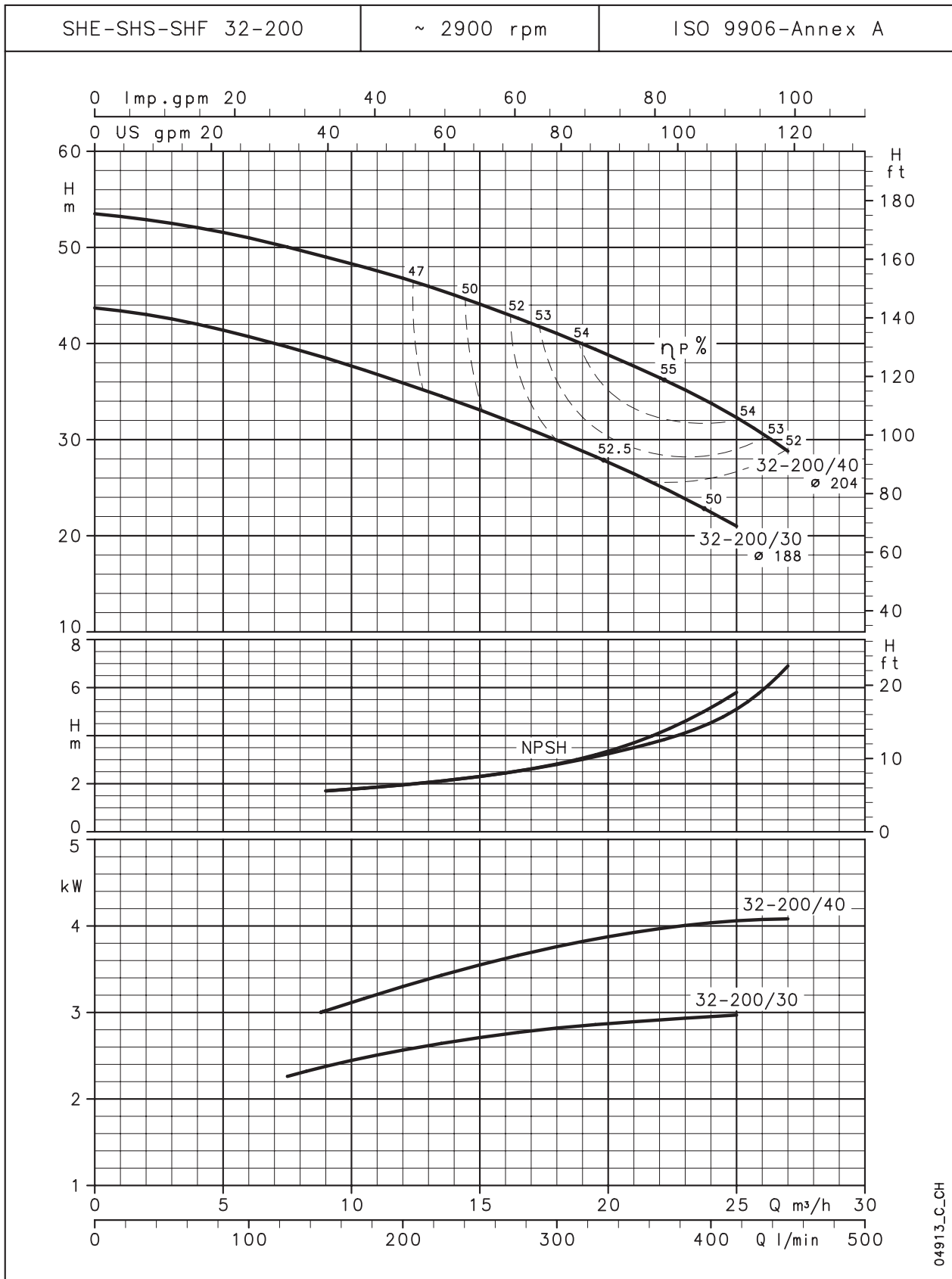
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0.5 m
 The performances are valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.



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SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04913_C-CH

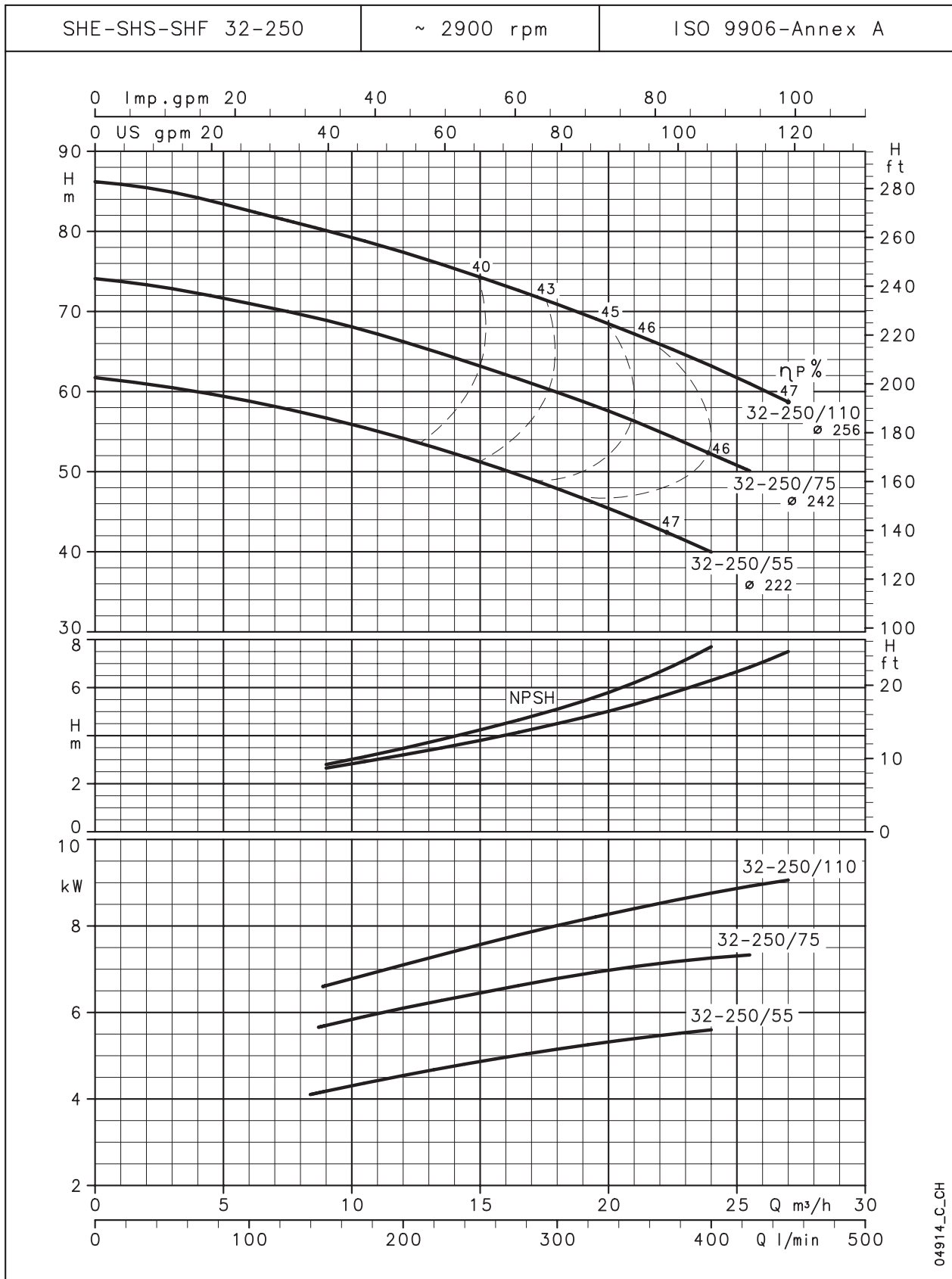
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0.5 m
The performances are valid for liquids with density $\rho=1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.



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SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04914_C_CH

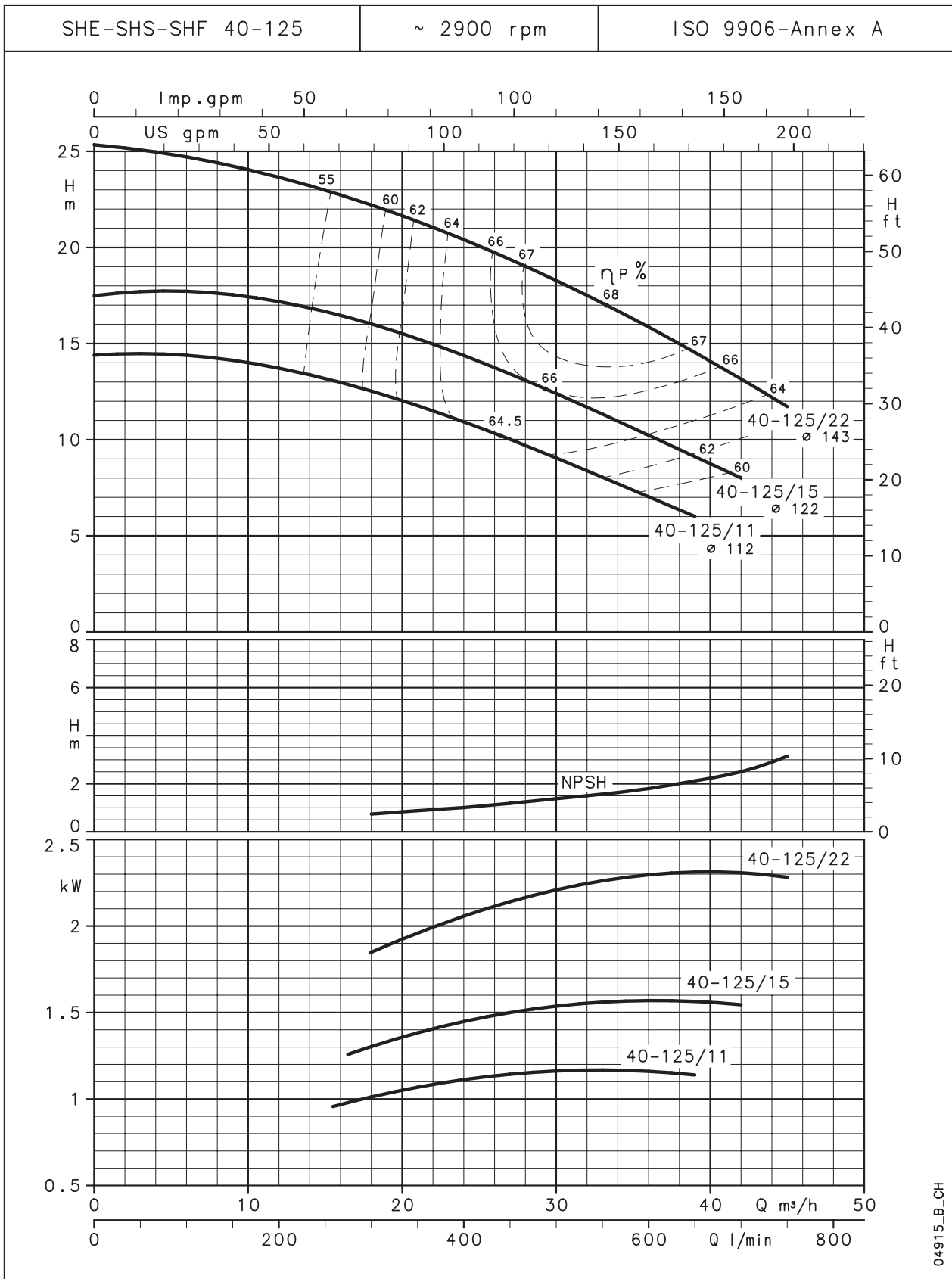
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0.5 m
 The performances are valid for liquids with density $\rho=1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.



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SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04915_B_CH

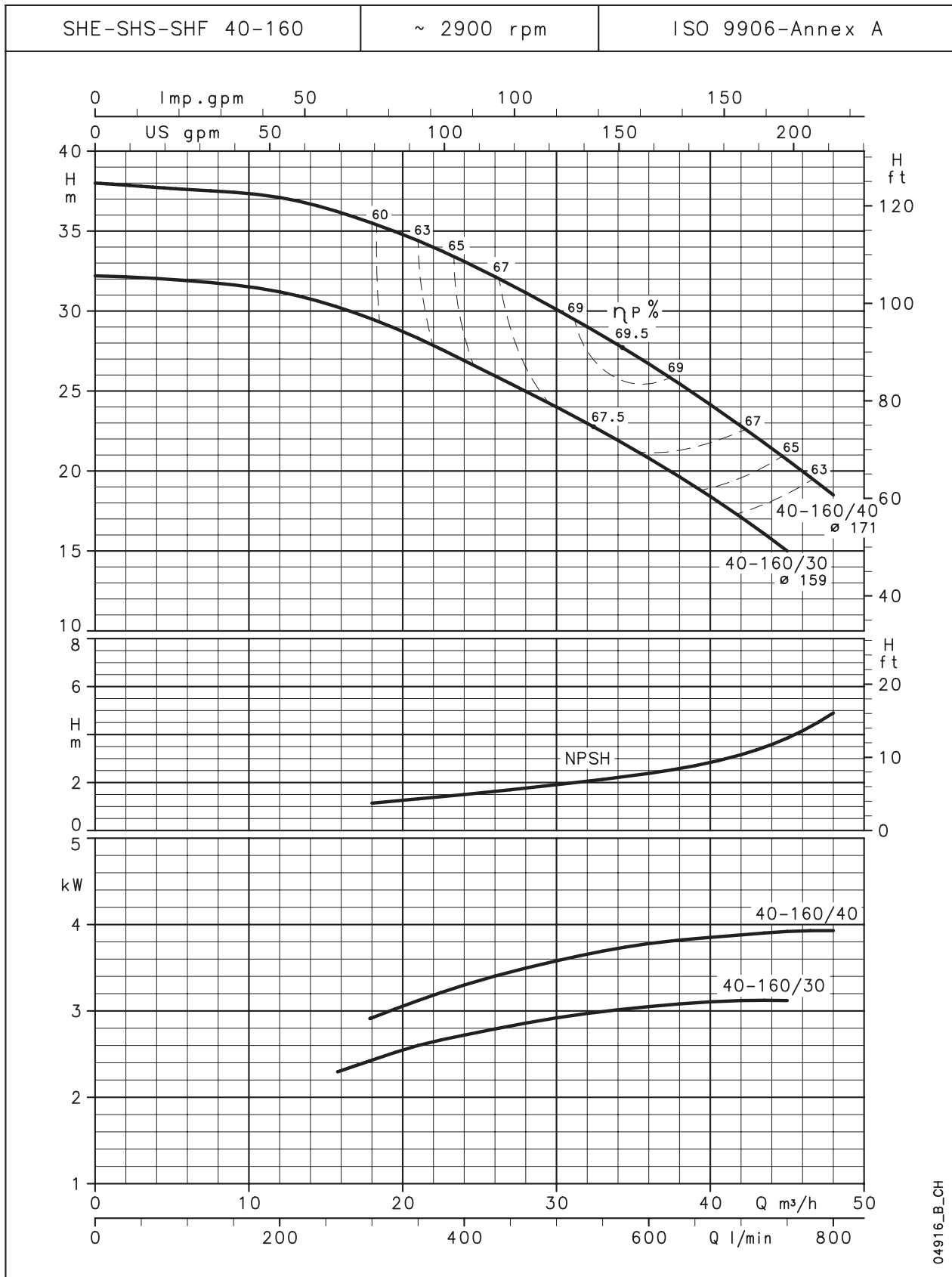
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0.5 m
The performances are valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.



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SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04916_B_CH

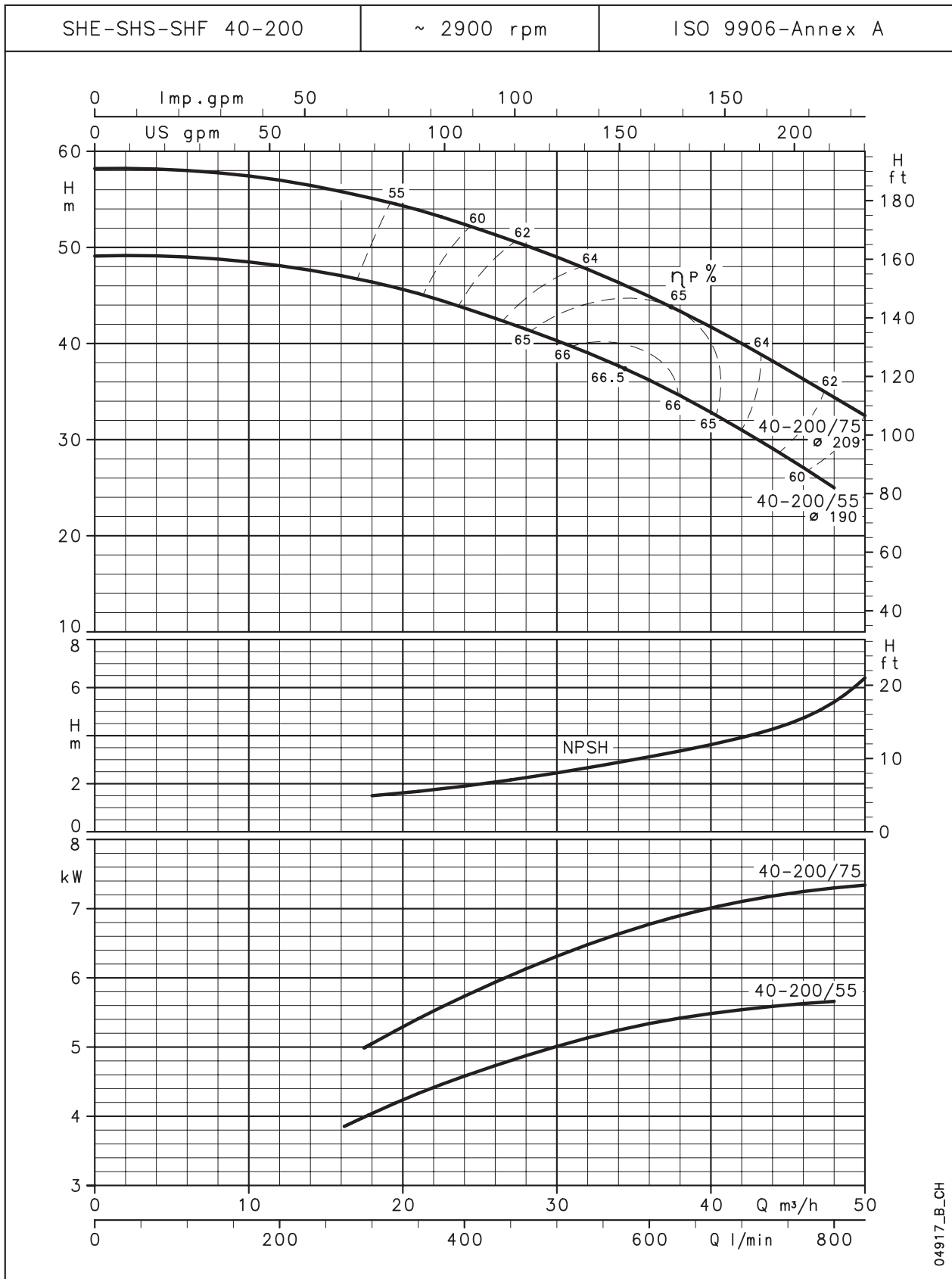
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0.5 m
The performances are valid for liquids with density $\rho=1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.



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SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04917_B_CH

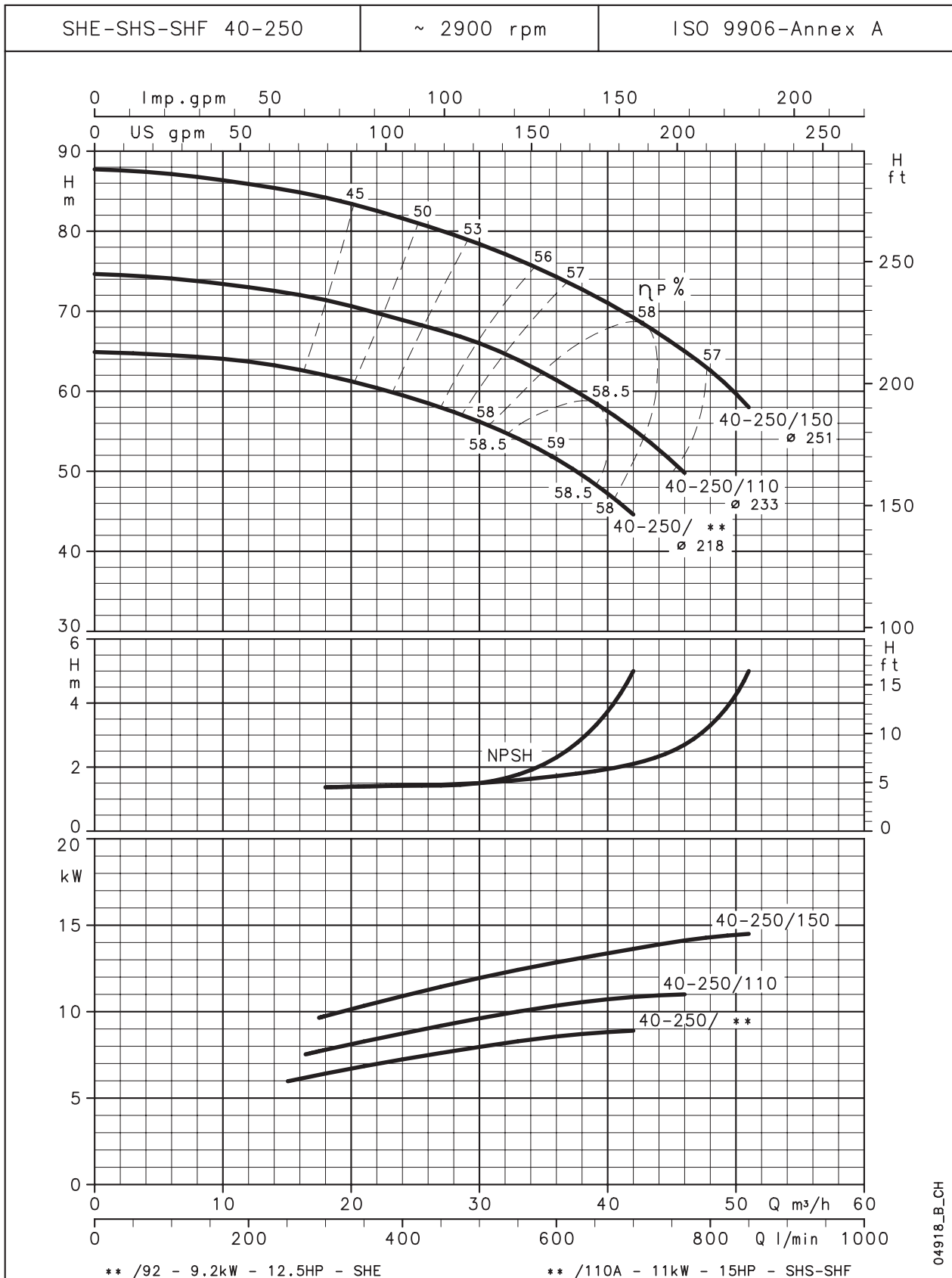
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0.5 m
The performances are valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.



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SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04918_B_CH

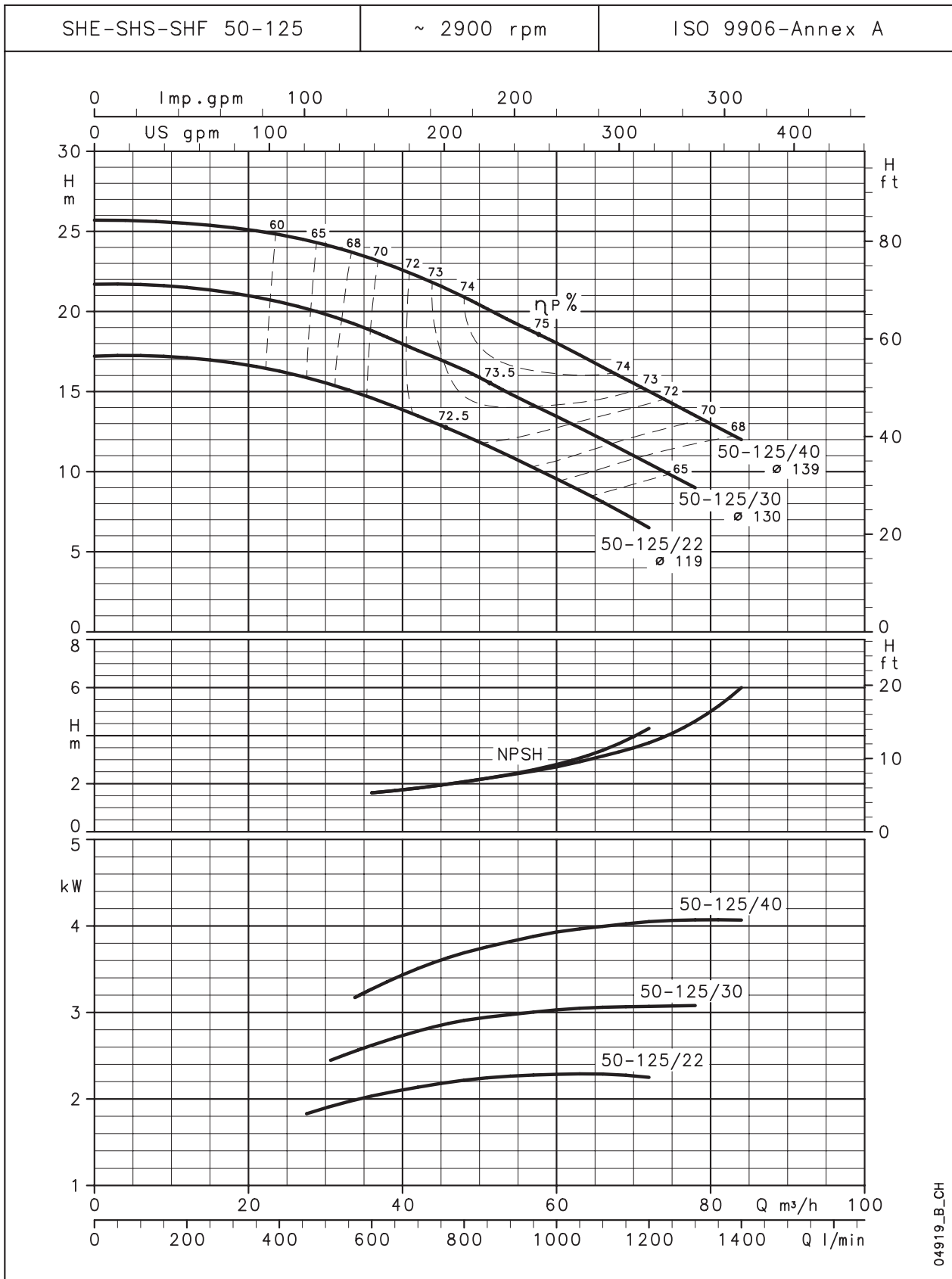
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0.5 m
 The performances are valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.



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SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04919_B_CH

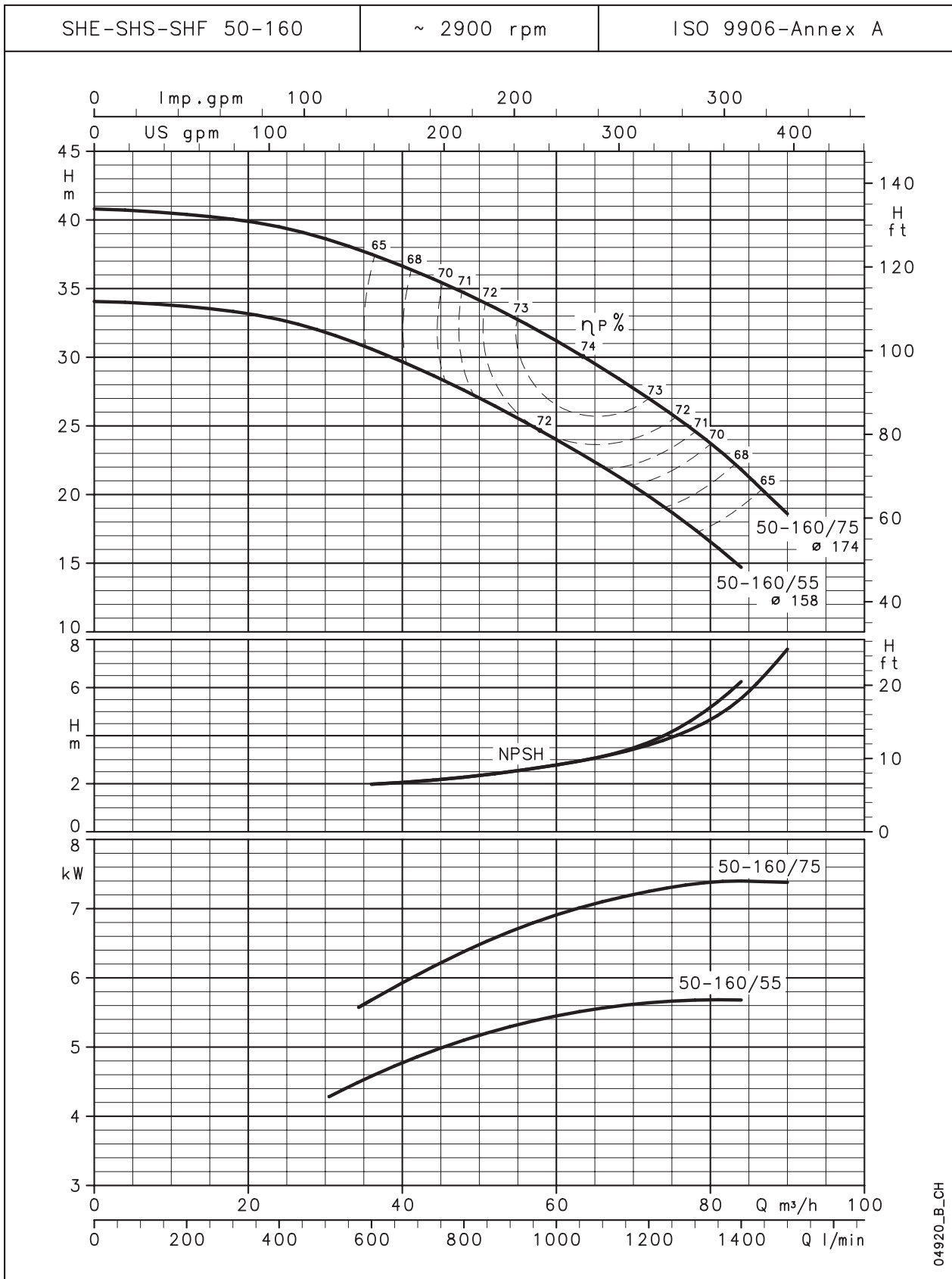
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0.5 m
The performances are valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.



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SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04920_B_CH

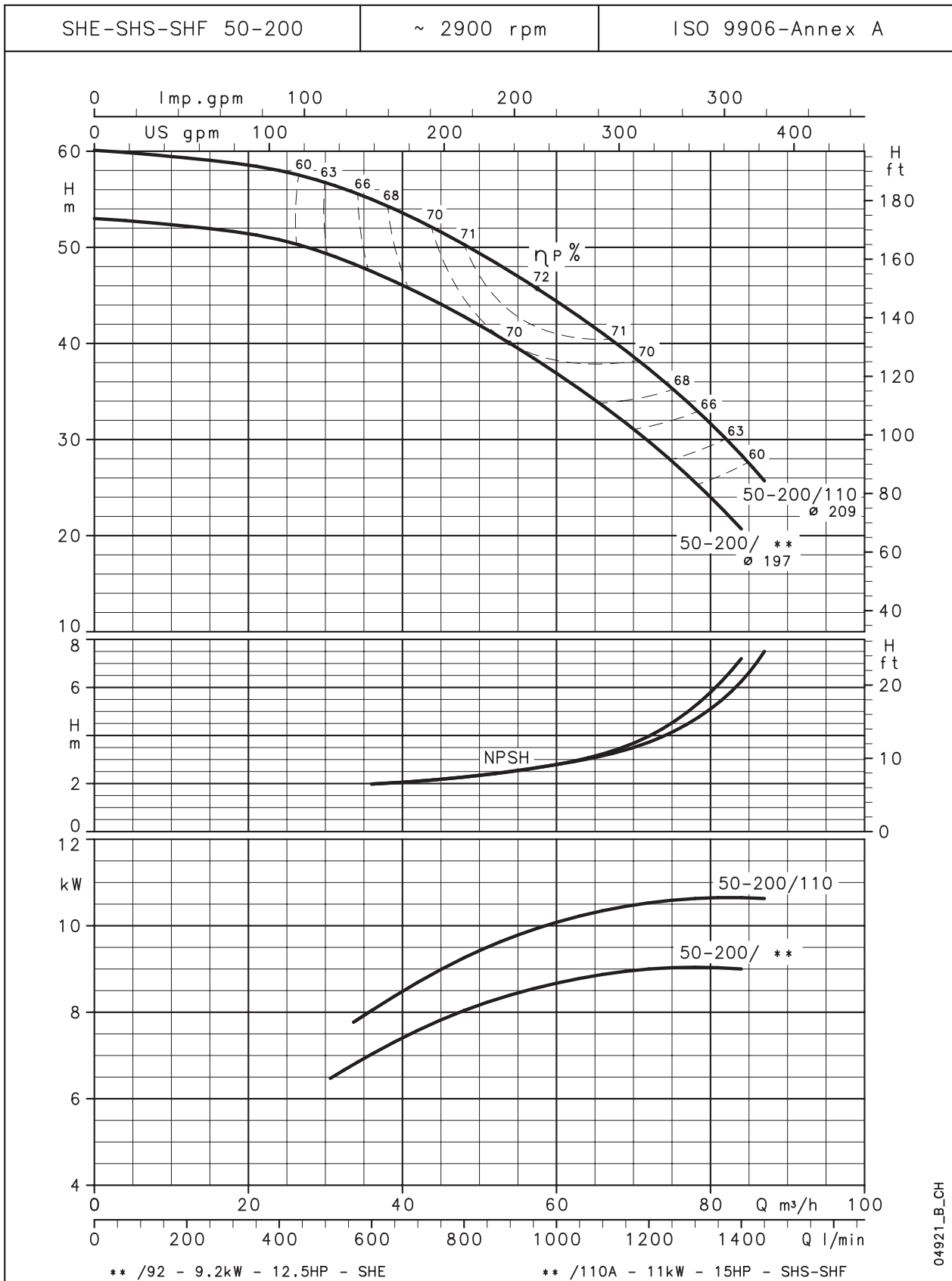
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0.5 m
The performances are valid for liquids with density $\rho=1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu=1 \text{ mm}^2/\text{sec}$.



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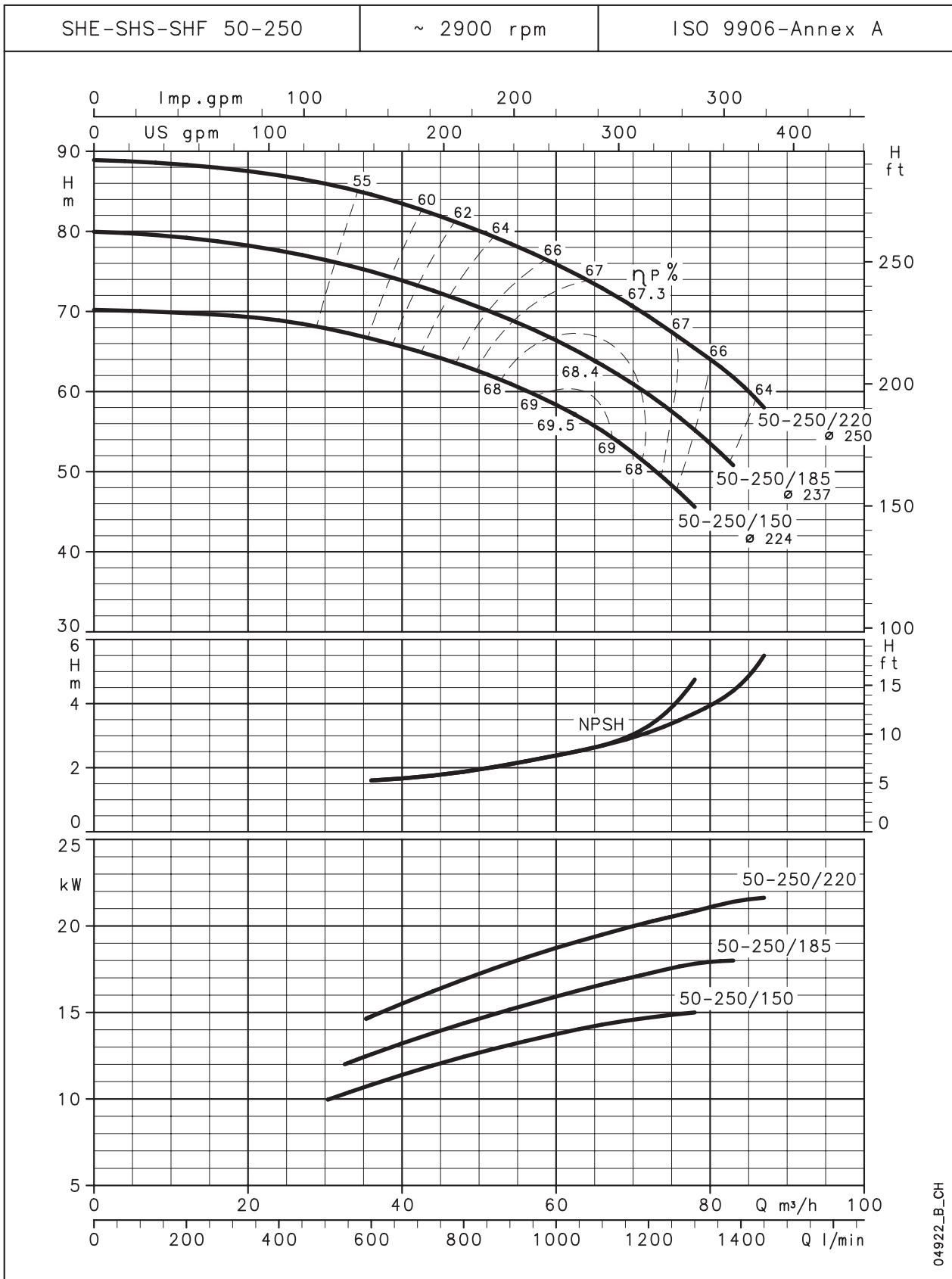
SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



The NPSH values are laboratory values; for practical use we suggest increasing these values by 0.5 m
 The performances are valid for liquids with density $\rho=1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.



SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04922_B_CH

The NPSH values are laboratory values: for practical use we suggest increasing these values by 0.5 m
The performances are valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.



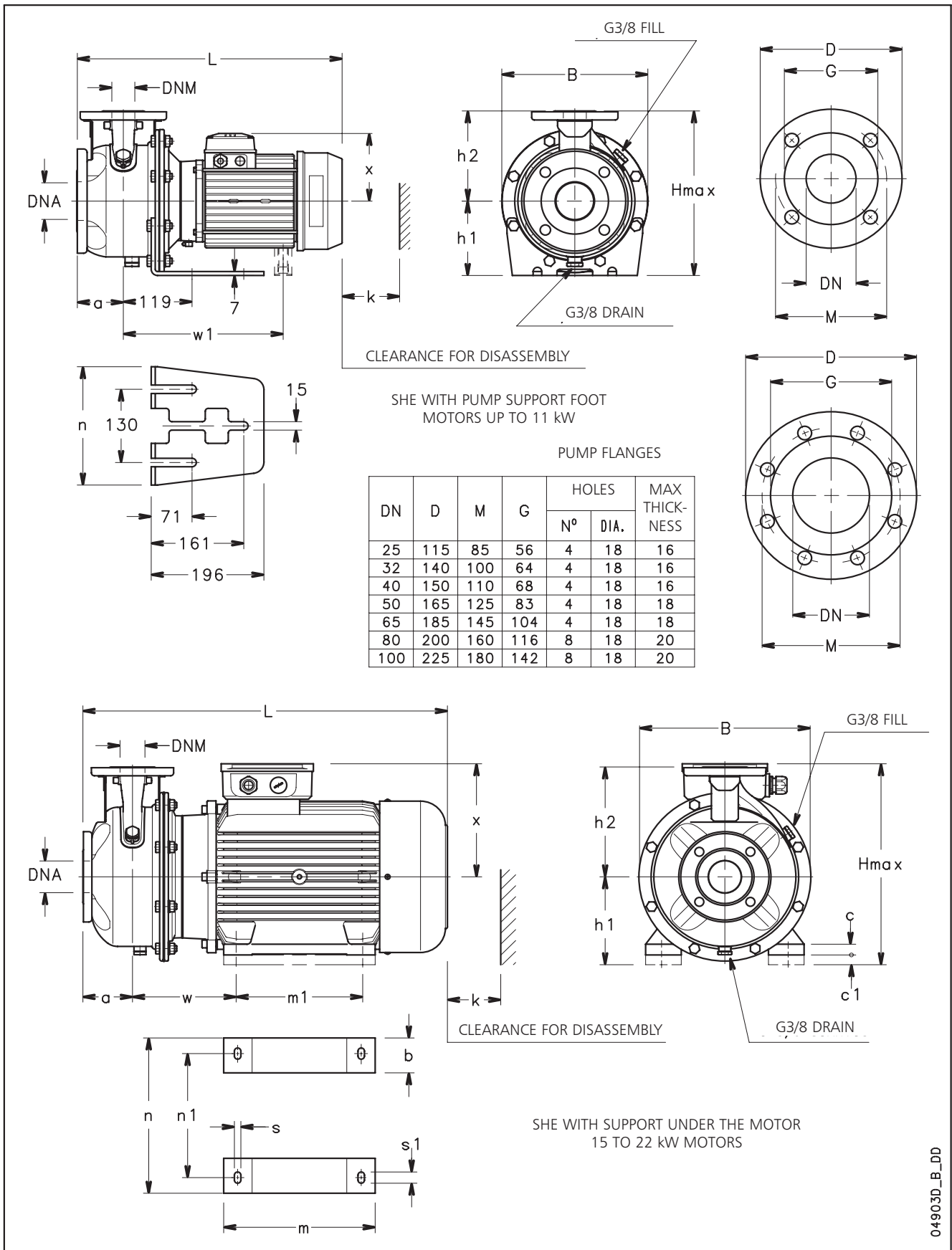
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DIMENSIONS AND WEIGHTS



SHE SERIES DIMENSIONS AND WEIGHTS



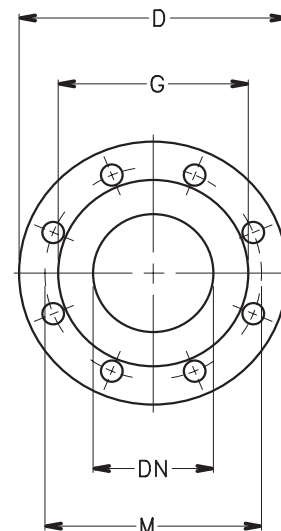
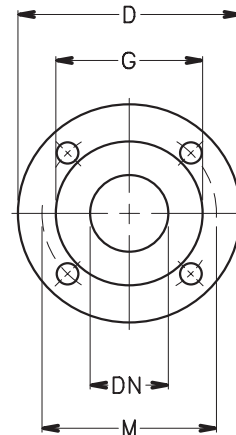
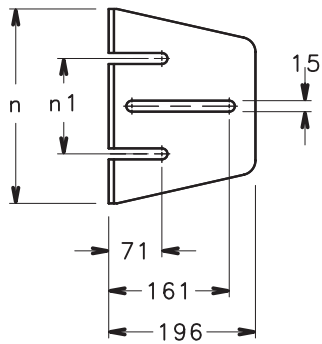
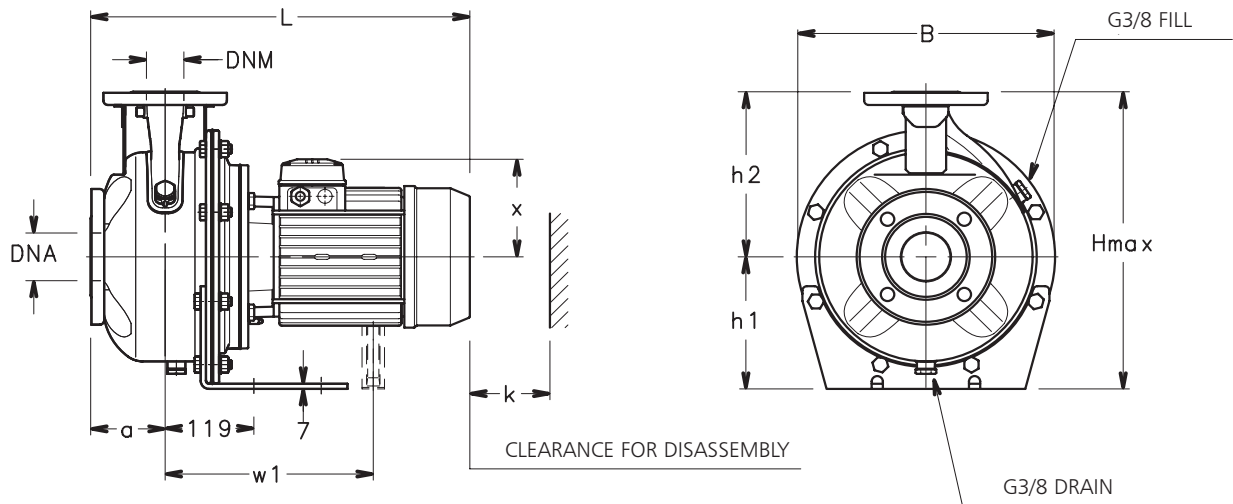
04903D_B_DD

**SHE SERIES
DIMENSIONS AND WEIGHTS**

PUMP TYPE	DIMENSIONS (mm)																B	H max	L	k	WEIGHT kg	
	PUMP						SUPPORT															
	DNM	DNA	a	h2	w	w1	x	b	c	c1	h1	m	m1	n	n1	s						s1
SHE 25-125/07	25	50	80	140	-	-	129	-	-	-	160	-	-	190	-	-	-	218	300	443	98	17
SHE 25-125/11	25	50	80	140	-	-	129	-	-	-	160	-	-	190	-	-	-	218	300	443	98	19
SHE 25-160/15	25	50	80	160	-	-	129	-	-	-	160	-	-	210	-	-	-	253	320	443	98	23
SHE 25-160/22	25	50	80	160	-	-	129	-	-	-	160	-	-	210	-	-	-	253	320	443	98	24
SHE 25-200/30	25	50	80	180	-	-	121	-	-	-	160	-	-	230	-	-	-	284	340	461	98	34
SHE 25-200/40	25	50	80	180	-	-	133	-	-	-	160	-	-	230	-	-	-	284	340	487	98	36
SHE 25-250/55	25	50	100	225	-	-	151	-	-	-	180	-	-	265	-	-	-	345	405	553	98	63
SHE 25-250/75	25	50	100	225	-	-	151	-	-	-	180	-	-	265	-	-	-	345	405	553	98	69
SHE 25-250/110	25	50	100	225	-	278	194	-	-	-	180	-	-	265	-	-	-	345	405	604	98	87
SHE 32-125/07	32	50	80	140	-	-	129	-	-	-	112	-	-	190	-	-	-	218	252	443	98	17
SHE 32-125/11	32	50	80	140	-	-	129	-	-	-	112	-	-	190	-	-	-	218	252	443	98	19
SHE 32-160/15	32	50	80	160	-	-	129	-	-	-	132	-	-	210	-	-	-	253	292	443	98	23
SHE 32-160/22	32	50	80	160	-	-	129	-	-	-	132	-	-	210	-	-	-	253	292	443	98	24
SHE 32-200/30	32	50	80	180	-	-	121	-	-	-	160	-	-	230	-	-	-	284	340	461	98	34
SHE 32-200/40	32	50	80	180	-	-	133	-	-	-	160	-	-	230	-	-	-	284	340	487	98	36
SHE 32-250/55	32	50	100	225	-	-	151	-	-	-	180	-	-	265	-	-	-	345	405	553	98	63
SHE 32-250/75	32	50	100	225	-	-	151	-	-	-	180	-	-	265	-	-	-	345	405	553	98	69
SHE 32-250/110	32	50	100	225	-	278	194	-	-	-	180	-	-	265	-	-	-	345	405	604	98	87
SHE 40-125/11	40	65	80	140	-	-	129	-	-	-	112	-	-	190	-	-	-	218	252	443	100	20
SHE 40-125/15	40	65	80	140	-	-	129	-	-	-	112	-	-	190	-	-	-	218	252	443	100	21
SHE 40-125/22	40	65	80	140	-	-	129	-	-	-	112	-	-	190	-	-	-	218	252	443	100	25
SHE 40-160/30	40	65	80	160	-	-	121	-	-	-	132	-	-	210	-	-	-	253	292	461	100	28
SHE 40-160/40	40	65	80	160	-	-	133	-	-	-	132	-	-	210	-	-	-	253	292	487	100	35
SHE 40-200/55	40	65	100	180	-	-	151	-	-	-	160	-	-	230	-	-	-	284	340	553	100	49
SHE 40-200/75	40	65	100	180	-	-	151	-	-	-	160	-	-	230	-	-	-	284	340	553	100	50
SHE 40-250/92	40	65	100	225	-	278	194	-	-	-	180	-	-	265	-	-	-	345	405	604	107	84
SHE 40-250/110	40	65	100	225	-	278	194	-	-	-	180	-	-	265	-	-	-	345	405	604	107	89
SHE 40-250/150	40	65	100	225	208	-	244	72	22	20	180	260	210	318	254	13	23	345	424	688	107	125
SHE 50-125/22	50	65	100	160	-	-	129	-	-	-	132	-	-	210	-	-	-	253	292	463	104	25
SHE 50-125/30	50	65	100	160	-	-	121	-	-	-	132	-	-	210	-	-	-	253	292	481	104	29
SHE 50-125/40	50	65	100	160	-	-	133	-	-	-	132	-	-	210	-	-	-	253	292	507	104	35
SHE 50-160/55	50	65	100	180	-	-	151	-	-	-	160	-	-	210	-	-	-	253	340	553	104	49
SHE 50-160/75	50	65	100	180	-	-	151	-	-	-	160	-	-	210	-	-	-	253	340	553	104	52
SHE 50-200/92	50	65	100	200	-	278	194	-	-	-	160	-	-	245	-	-	-	310	360	604	104	79
SHE 50-200/110	50	65	100	200	-	278	194	-	-	-	160	-	-	245	-	-	-	310	360	604	104	83
SHE 50-250/150	50	65	100	225	208	-	244	72	22	20	180	260	210	318	254	13	23	345	424	688	107	126
SHE 50-250/185	50	65	100	225	208	-	244	72	22	20	180	304	254	318	254	13	23	345	424	732	107	138
SHE 50-250/220	50	65	100	225	208	-	244	72	22	20	180	304	254	318	254	13	23	345	424	732	107	145
SHE 65-160/40	65	80	100	200	-	-	133	-	-	-	160	-	-	245	-	-	-	310	360	507	130	51
SHE 65-160/55	65	80	100	200	-	-	151	-	-	-	160	-	-	245	-	-	-	310	360	553	130	60
SHE 65-160/75	65	80	100	200	-	-	151	-	-	-	160	-	-	245	-	-	-	310	360	553	130	65
SHE 65-160/92	65	80	100	200	-	278	194	-	-	-	160	-	-	245	-	-	-	310	360	604	130	90
SHE 65-160/110	65	80	100	200	-	278	194	-	-	-	160	-	-	245	-	-	-	310	360	604	130	97
SHE 65-200/150	65	80	100	225	208	-	244	72	22	20	180	260	210	318	254	13	23	310	424	688	130	126
SHE 65-200/185	65	80	100	225	208	-	244	72	22	20	180	304	254	318	254	13	23	310	424	732	130	126
SHE 65-200/220	65	80	100	225	208	-	244	72	22	20	180	304	254	318	254	13	23	310	424	732	130	139
SHE 80-160/110	80	100	125	225	-	278	194	-	-	-	180	-	-	265	-	-	-	345	405	629	160	89
SHE 80-160/150	80	100	125	225	208	-	244	72	22	20	180	260	210	318	254	13	23	345	424	713	160	133
SHE 80-160/185	80	100	125	225	208	-	244	72	22	20	180	304	254	318	254	13	23	345	424	757	160	143
SHE 80-200/220	80	100	125	250	208	-	244	72	22	20	180	304	254	318	254	13	23	345	430	757	160	154



SHE4 SERIES DIMENSIONS AND WEIGHTS



PUMP FLANGES

DN	D	M	G	HOLES		MAX THICKNESS
				N°	DIA.	
25	115	85	56	4	18	16
32	140	100	64	4	18	16
40	150	110	68	4	18	16
50	165	125	83	4	18	18
65	185	145	104	4	18	18
80	200	160	116	8	18	20
100	225	180	142	8	18	20

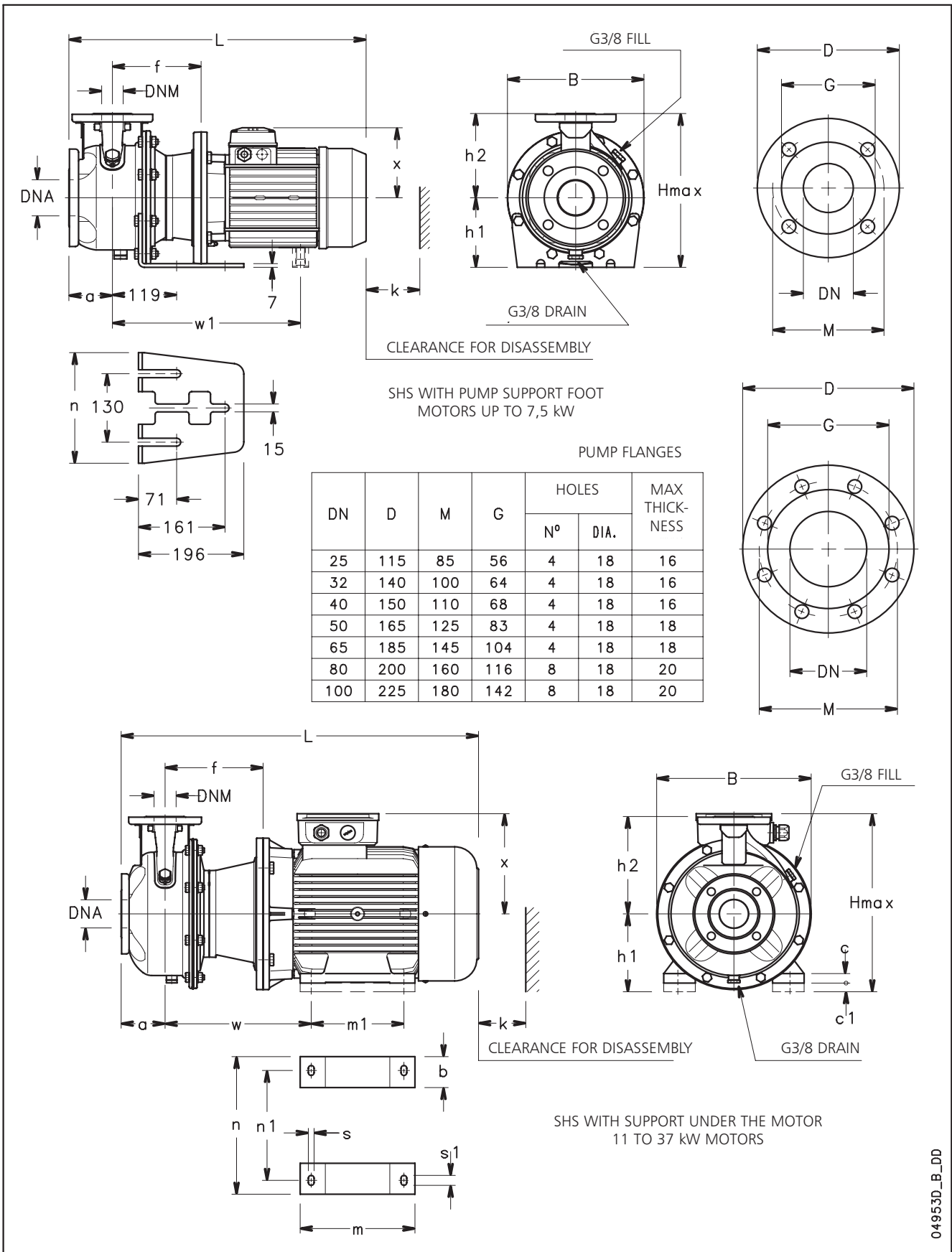
04904D_B_DD

**SHE4 SERIES
DIMENSIONS AND WEIGHTS**

PUMP TYPE	DIMENSIONS (mm)										B	H max	L	k	WEIGHT kg			
	PUMP					h1	n	n1	B	H max						L	k	WEIGHT kg
	DNM	DNA	a	h2	w1													
SHE4 25-125/02A	25	50	80	140	-	121	160	190	130	218	300	411	98	15				
SHE4 25-125/02	25	50	80	140	-	121	160	190	130	218	300	411	98	16				
SHE4 25-160/02	25	50	80	160	-	121	160	210	130	253	320	411	98	18				
SHE4 25-160/03	25	50	80	160	-	121	160	210	130	253	320	411	98	19				
SHE4 25-200/03	25	50	80	180	-	121	160	230	130	284	340	411	98	26				
SHE4 25-200/05	25	50	80	180	-	129	160	230	130	284	340	443	98	27				
SHE4 25-250/07	25	50	100	225	-	129	180	265	130	345	405	463	98	41				
SHE4 25-250/11	25	50	100	225	-	121	180	265	130	345	405	481	98	43				
SHE4 25-250/15	25	50	100	225	-	121	180	265	130	345	405	481	98	45				
SHE4 32-125/02A	32	50	80	140	-	121	112	190	130	218	252	411	98	15				
SHE4 32-125/02	32	50	80	140	-	121	112	190	130	218	252	411	98	16				
SHE4 32-160/02	32	50	80	160	-	121	132	210	130	253	292	411	98	18				
SHE4 32-160/03	32	50	80	160	-	121	132	210	130	253	292	411	98	19				
SHE4 32-200/03	32	50	80	180	-	121	160	230	130	284	340	411	98	26				
SHE4 32-200/05	32	50	80	180	-	129	160	230	130	284	340	443	98	27				
SHE4 32-250/07	32	50	100	225	-	129	180	265	130	345	405	463	98	41				
SHE4 32-250/11	32	50	100	225	-	121	180	265	130	345	405	481	98	43				
SHE4 32-250/15	32	50	100	225	-	121	180	265	130	345	405	481	98	45				
SHE4 40-125/02A	40	65	80	140	-	121	112	190	130	218	252	411	100	16				
SHE4 40-125/02	40	65	80	140	-	121	112	190	130	218	252	411	100	17				
SHE4 40-125/03	40	65	80	140	-	121	112	190	130	218	252	411	100	18				
SHE4 40-160/03	40	65	80	160	-	121	132	210	130	253	292	411	100	20				
SHE4 40-160/05	40	65	80	160	-	129	132	210	130	253	292	443	100	24				
SHE4 40-200/07	40	65	100	180	-	129	160	230	130	285	340	463	100	26				
SHE4 40-200/11	40	65	100	180	-	121	160	230	130	285	340	481	100	29				
SHE4 40-250/11	40	65	100	225	-	121	180	265	130	345	405	481	107	41				
SHE4 40-250/15	40	65	100	225	-	121	180	265	130	345	405	481	107	55				
SHE4 40-250/22	40	65	100	225	-	133	180	265	130	345	405	507	107	56				
SHE4 50-125/03A	50	65	100	160	-	121	132	210	130	253	292	431	104	20				
SHE4 50-125/03	50	65	100	160	-	121	132	210	130	253	292	431	104	20				
SHE4 50-125/05	50	65	100	160	-	129	132	210	130	253	292	463	104	26				
SHE4 50-160/07	50	65	100	180	-	129	160	210	130	253	340	463	104	29				
SHE4 50-160/11	50	65	100	180	-	121	160	210	130	253	340	481	104	34				
SHE4 50-200/11	50	65	100	200	-	121	160	245	130	310	360	481	104	42				
SHE4 50-200/15	50	65	100	200	-	121	160	245	130	310	360	481	104	45				
SHE4 50-250/22A	50	65	100	225	-	133	180	265	130	345	405	507	107	47				
SHE4 50-250/22	50	65	100	225	-	133	180	265	130	345	405	507	107	47				
SHE4 50-250/30	50	65	100	225	-	133	180	265	130	345	405	507	107	53				
SHE4 65-160/05	65	80	100	200	-	129	160	245	130	310	360	463	130	32				
SHE4 65-160/07	65	80	100	200	-	129	160	245	130	310	360	463	130	35				
SHE4 65-160/11A	65	80	100	200	-	121	160	245	130	310	360	481	130	38				
SHE4 65-160/11	65	80	100	200	-	121	160	245	130	310	360	481	130	39				
SHE4 65-160/15	65	80	100	200	-	121	160	245	130	310	360	481	130	42				
SHE4 65-200/15	65	80	100	225	-	121	180	245	130	310	405	481	130	50				
SHE4 65-200/22	65	80	100	225	-	133	180	245	130	310	405	507	130	55				
SHE4 65-200/30	65	80	100	225	-	133	180	245	130	310	405	507	130	55				
SHE4 65-250/40	65	80	100	250	-	151	200	265	130	345	450	530	140	64				
SHE4 65-250/55	65	80	100	250	-	194	200	265	130	345	450	566	140	78				
SHE4 80-160/15	80	100	125	225	-	121	180	265	130	345	405	506	160	49				
SHE4 80-160/22A	80	100	125	225	-	133	180	265	130	345	405	532	160	54				
SHE4 80-160/22	80	100	125	225	-	133	180	265	130	345	405	532	160	57				
SHE4 80-200/30	80	100	125	250	-	133	180	265	130	345	430	532	160	60				
SHE4 80-200/40	80	100	125	250	-	151	180	265	130	345	430	555	160	68				
SHE4 80-250/55	80	100	125	280	259	194	200	303	210	383	480	591	160	83				
SHE4 80-250/75	80	100	125	280	278	194	200	303	210	383	480	629	160	87				
SHE4 80-250/92	80	100	125	280	278	194	200	303	210	383	480	629	160	94				



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