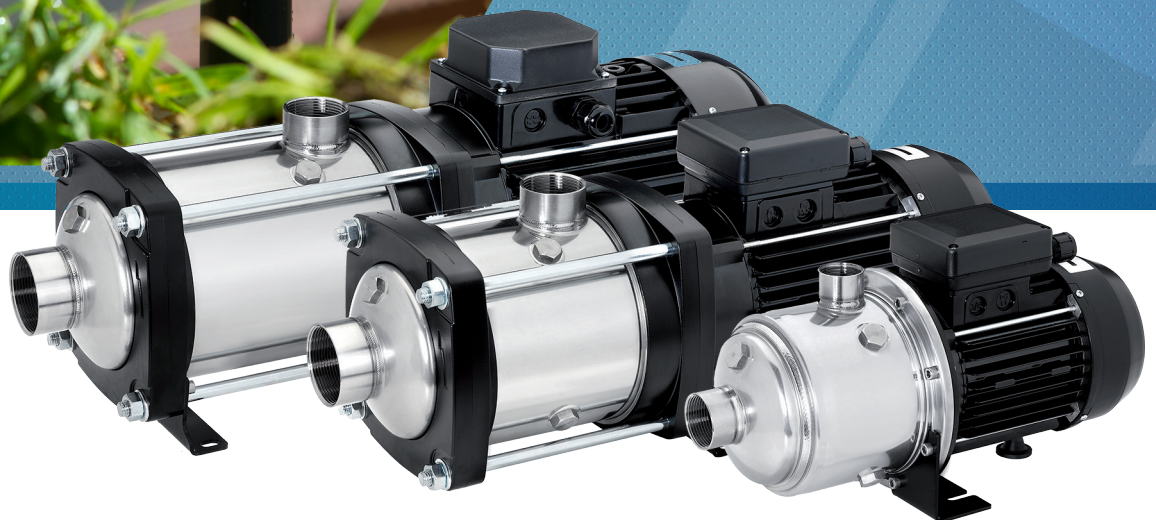




Franklin Electric

HORIZONTAL MULTISTAGE PUMPS 50 Hz

MH SERIES



INDEX

Product Overview	2
Features and benefits.....	2
Family curves.....	3
Pump identification code.....	3
General features.....	4
Mechanical seal specifications	5
Motor specifications 50 Hz	6
Motor spare parts	7
MH SERIES - HORIZONTAL MULTISTAGE PUMPS	
Spare parts and materials	10
3-5-9 MH.....	10
15-20 MH.....	12
Technical data and performance curves at 50 Hz	15
3 MH.....	16
5 MH.....	18
9 MH.....	20
15 MH.....	22
20 MH.....	24

Franklin Electric reserves the right to amend specification without prior notice.

For the most up-to-date product information, visit franklinwater.eu.

PRODUCT OVERVIEW

FEATURES AND BENEFITS

APPLICATIONS



Water Distribution
Pressure Boosting



Circulation of hot and
cold water for heating,
cooling, conditioning systems



Irrigation
Gardening
Sprinklers



Wash down unit



Domestic, industrial and
agricultural systems

COMPACT CLOSE-COUPLED DESIGN

- Reinforced with tie rods and corrosion resistance (MH 15-20)
- Materials WRAS and ACS certificated
- Flexible application base plate (only for MH)
- Floating neck ring in PPS
- Heavy duty oversize motor shaft
- Impellers and diffusers are made of stainless steel
- Easy maintenance
- Connections: Rp threaded for inlet and outlet (NPT optional)
- Mechanical seal Type E0 = Carbon graphite / Ceramic alumina / EPDM: MH 3-5-9
- Mechanical seal Type E1 = Carbon graphite / Silicon carbide / EPDM: MH 15-20

SUPERIOR EFFICIENCY AND PERFORMANCE

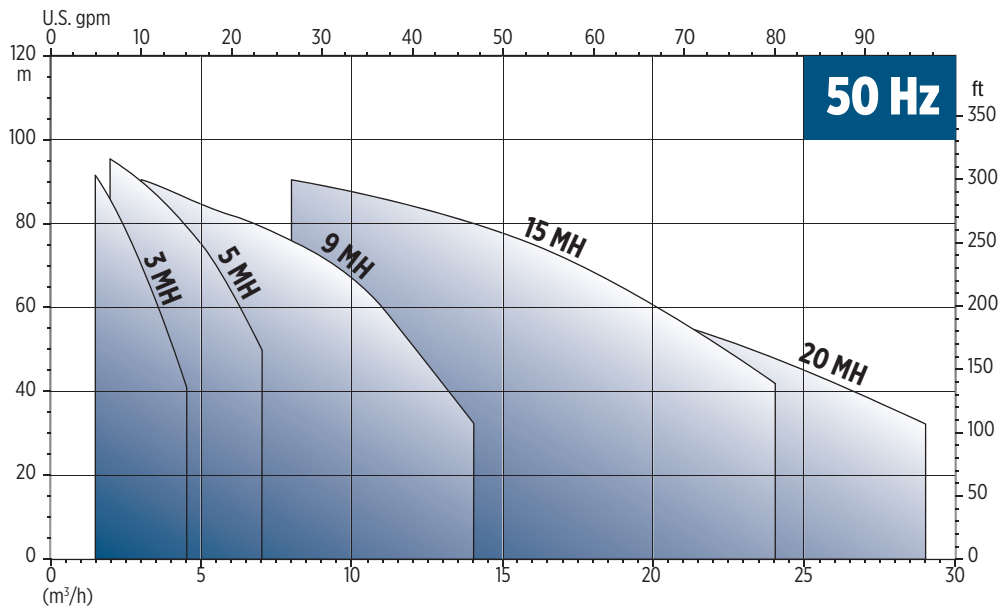
- Flow: up to 29 m³/h
- Head: up to 104 m
- Maximum working pressure: 10 Bar
- Max. altitude at nominal load: 1000 m
- Maximum allowable amount of sand: 50 g/m³ (MH)
- Maximum ambient temperature: 40 °C
- The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

CONSTRUCTION OPTIONS

- Special mechanical seal (MH)
- Inlet and outlet connections NPT threaded

FAMILY CURVES

MH



PUMP IDENTIFICATION CODE

15 3 P - 6 3 E0 IE3

- Special version
- Motor efficiency class
- Mechanical seal type: E0 (Standard version)
- M (Single-phase); T (Three-phase)
- Frequency: 5 (50 Hz); 6 (60 Hz)
- Connection type: "B" (Rp); "P" (NPT)
- Number of stages
- Pump model: "...MH" (AISI 304); "...MHN" (AISI 316)
- Nominal flow rate: m³/h (50 Hz)
gpm (60 Hz)

00-00008-07/2021

GENERAL FEATURES

GENERAL FEATURES

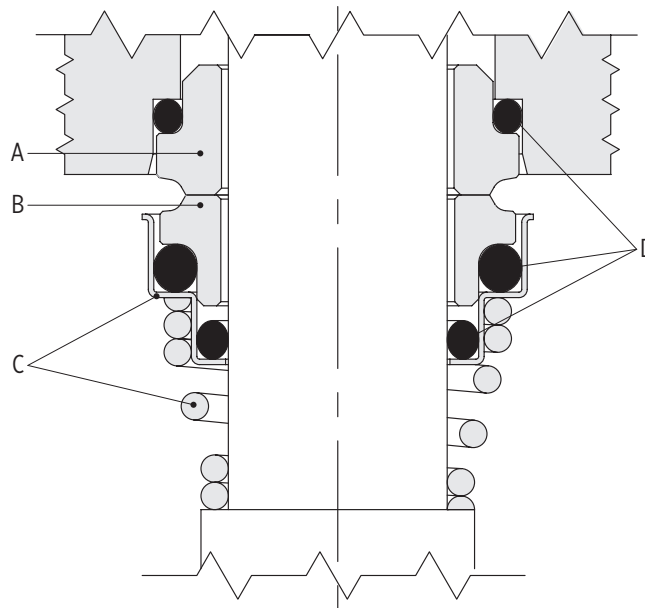
Model		3	5	9	15	20
Nominal flow [m ³ /h]		3.2	5.1	9.1	16.4	19
Maximum liquid temperature [°C]	Single-phase	55	55	55	55	55
	Three-phase (only industrial uses)	110	110	110	110	110
	Three-phase (domestic, commercial, other uses)	85	85	85	85	85
	Three-phase (drinking water)	85	85	85	85	85
Max. η hydraulic	Standard version	45.5	56.8	61	66.7	68.2
Range [m ³ /h]	Standard version	1.5 - 4.5	2 - 7	3 - 14	8 - 24	10 - 28
Max. pression [bar]	Standard version	10	10	10	10	10
Material versions	I (AISI 304)	•	•	•	•	•
	N (AISI 316L)	•	•	•	•	•
Hydraulic connection (Dimensions)	Rp (inlet - outlet) - Standard	1"1/4 - 1"	1"1/4 - 1"	1"1/2 - 1"1/4	2" - 1"1/2	2" - 1"1/2
	NPT (inlet - outlet) - Optional	1"1/4 - 1"	1"1/4 - 1"	1"1/2 - 1"1/4	2" - 1"1/2	2" - 1"1/2

"-" = not available

• = available



MECHANICAL SEAL SPECIFICATIONS



00130012 05/2017

STANDARD VERSION

Model	Type				Position				Temperature [°C]
					A Stationary part	B Rotating part	C Other components	D Elastomers	
MH 3-5-9									
E0	V	B	G	E	Ceramic alumina	Carbon graphite	AISI 316	EPDM	-15 / +110
MH 15-20									
E1	B	Q	G	E	Carbon graphite	Silicon Carbide	AISI 316	EPDM	-15 / +110

AVAILABLE ON REQUEST

Model	Type				Position				Temperature [°C]
					A Stationary part	B Rotating part	C Other components	D Elastomers	
E2	Q	Q	G	E	Silicon Carbide	Silicon Carbide	AISI 316	EPDM	-15 / +110
V3*	Q	Q	G	V	Silicon Carbide	Silicon Carbide	AISI 316	FKM	-10 / +110
V8*	Q	U	G	V	Silicon Carbide	Tungsten Carbide	AISI 316	FKM	-10 / +110

* On request version with stopper pin

Type	Material
B	Carbon graphite
E	EPDM
G	AISI 316
Q	Silicon Carbide
V	FKM
V	Ceramic alumina
U	Tungsten Carbide

MOTOR SPECIFICATIONS 50 Hz

- Asynchronous, TEFC (Totally Enclosed, Fan-Cooled)
- 2 poles
- Protection degree: IPX5
- Insulation class: F
- Frequency of starts:
 - Max. 60 starts/hour for motor power up to 3 kW (with min. 1 minute resting time)
 - Max. 30 starts/hour for motor power from 4 kW (with min. 2 minute resting time)

SINGLE-PHASE VERSION

- High Efficiency single-phase motors according to EU Regulation 2019/1781
- Standard voltage: 220-240 V \pm 5%
- Thermal protection built into the motor

Efficiency class	P _N [kW]	Motor size	Input current I _N [A]	Capacitor		230 V - 50 Hz							
				230 V	[μF]	[V]	n _N [min ⁻¹]	I _S [A]	Eta _N [%]	cos φ	T _N [Nm]	T _S [Nm]	T _{MAX} [Nm]
IE2	0.37	71	2.9	20	450	2930	18	69.5	0.85	1.2	1.2	5.1	
	0.55	71	3.6	20	450	2900	18	74.1	0.91	1.8	1.2	5.1	
	0.75	71	4.6	20	450	2860	18	77.4	0.95	2.5	1.2	5.1	
	1.1	80	6.3	25	450	2850	25	79.6	0.96	3.7	1.1	6.6	
	1.5	80	8.4	30	450	2890	40	81.3	0.95	5.0	1.9	9.8	

THREE-PHASE VERSION

- High Efficiency three-phase motors of 0.75 kW according to EU Regulation 2019/1781
- Efficiency class: IE3 (Premium Efficiency) according to IEC 60034-30-1:2014
- Electrical performance according to IEC 60034-2-1:2007
- Standard voltage:
 - 220-240 / 380-415 V \pm 5 % up to 3 kW
 - 380-415 / 660-690 V \pm 5 % from 4 kW
- Thermal protection to be provided into the starter panel by the installer

P _N [kW]	Efficiency η _N %						IE
	Δ 230 V Y 400 V			Δ 400 V Y 690 V			
	4/4	3/4	2/4	4/4	3/4	2/4	
0.75	80.9	81.5	79.6	-	-	-	3
1.1	82.7	84.6	84.2	-	-	-	
1.5	84.3	85.7	85.3	-	-	-	
2.2	86.1	86.7	85.4	-	-	-	
3	87.1	87.5	86.1	-	-	-	
4	-	-	-	88.1	88.7	87.7	
5.5	-	-	-	89.2	89.4	88.1	



MOTOR SPECIFICATIONS 50 Hz

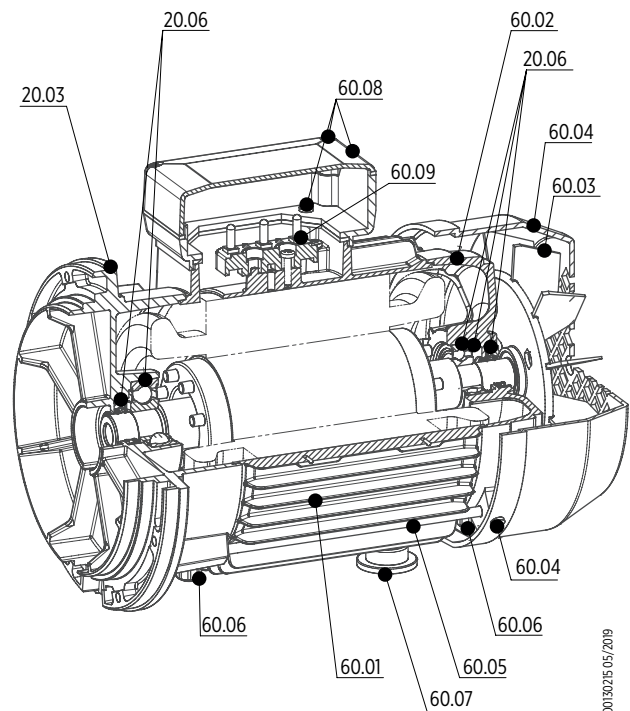
P _N [kW]	Motor size	N. of poles	f _N [Hz]	400 V - 50 Hz				
				cos φ	I _s / I _N	T _N [Nm]	T _s / T _N	T _M / T _N
0.75	71	2	50	0.83	6.8	2.6	3.6	3.7
1.1	71			0.82	5.9	3.7	3.2	3.1
1.5	80			0.79	6.8	5.1	3.2	3.2
2.2	90			0.8	9.6	7.3	4.3	4.4
3	90			0.83	9.6	9.9	4.7	4.9
4	100			0.85	8.1	13.2	2.8	3
5.5	112			0.81	8.4	18.1	4.3	4.5

P _N [kW]	Voltage U _N				n _N [min ⁻¹]	Motor operating conditions		
	Δ 230 V	Y 400 V	Δ 400 V	Y 690 V		Altitude above sea level [m]	T. amb min/max [°C]	ATEX
	I _N [A]							
0.75	2.8	1.6	-	-	2800	≤ 1000	-15 / +40	NO
1.1	4.1	2.3	-	-	2840			
1.5	5.7	3.3	-	-	2830			
2.2	8	4.6	-	-	2880			
3	10.4	6	-	-	2900			
4	-	-	7.7	4.4	2900			
5.5	-	-	11	6.4	2900			

MOTOR SPARE PARTS

SPARE PARTS LIST

Ref. No.	Parts description
20.03	Motor bracket
20.06	Kit bearings
60.01	Motor housing and stator
60.02	Bearing housing
60.03	Fan
60.04	Fan cover and screws
60.05	Motor tie rods
60.06	Kit motor spare components
60.07	Motor housing foot
60.08	Terminal box cover and base
60.09	Terminal board



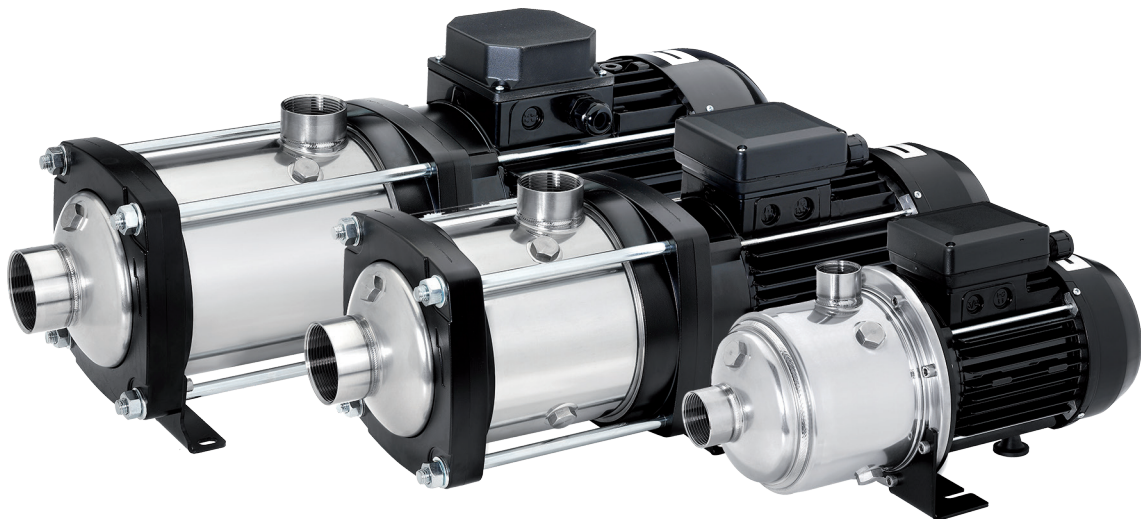
00130215 05/2019

ErP REGULATION

Information related to energy performance of the motor, according to Reg. 2019/1781 CE and modifications:

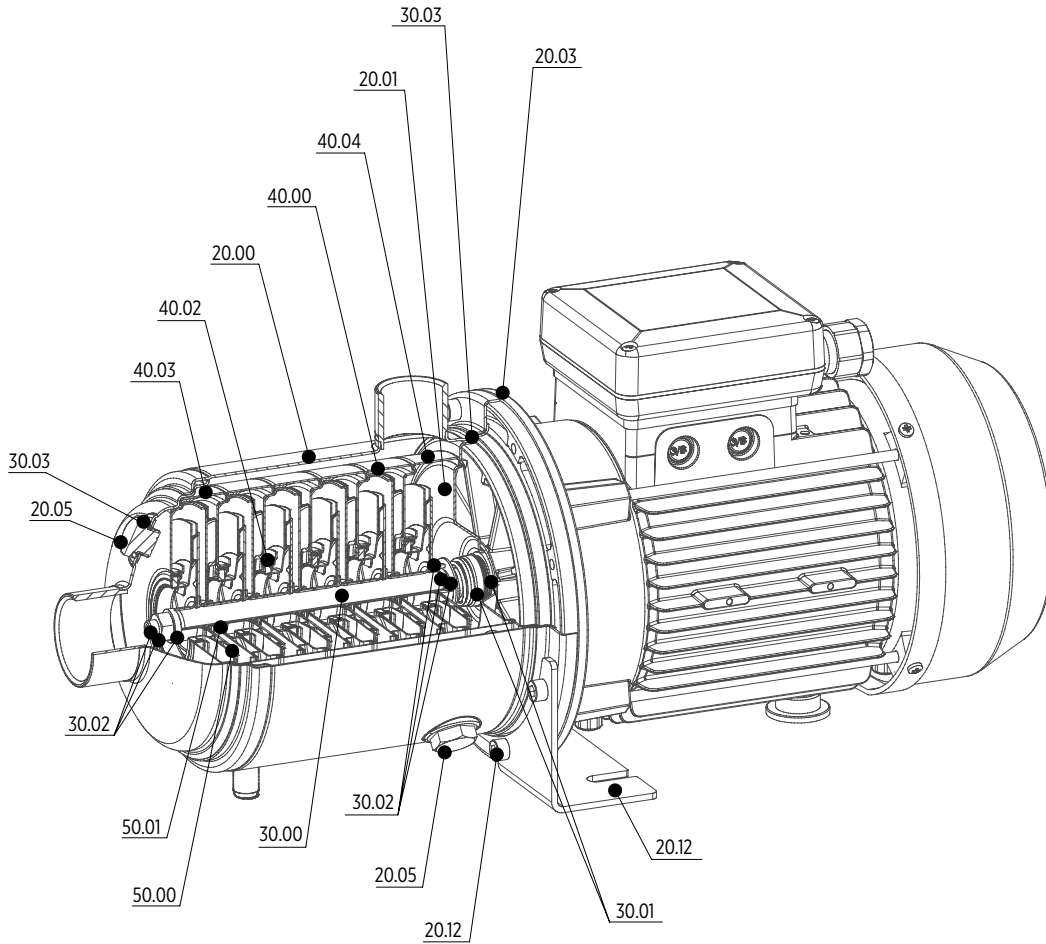
1. Nominal efficiency (η) at the full, 75 % and 50 % rated load and voltage (UN): see motor nameplate or the catalogue (<http://franklinwater.eu/products/>);
2. Efficiency level: see motor nameplate or the catalogue (<http://franklinwater.eu/products/>);
3. The year of manufacture: see motor nameplate;
4. Manufacturer's name or trade mark, commercial registration number and place of manufacturer: see the motor nameplate;
5. Product's model number: see motor nameplate or the catalogue (<http://franklinwater.eu/products/>);
6. Number of poles of the motor: see motor nameplate or the catalogue (<http://franklinwater.eu/products/>);
7. The rated power output(s) or range of rated power output (kW): see motor nameplate or the catalogue (<http://franklinwater.eu/products/>);
8. The rated input frequency(s) of the motor (Hz): see motor nameplate or the catalogue (<http://franklinwater.eu/products/>);
9. The rated voltage(s) or range of rated voltage (V): see motor nameplate or the catalogue (<http://franklinwater.eu/products/>);
10. The rated speed(s) or range of rated speed (rpm): see motor nameplate or the catalogue (<http://franklinwater.eu/products/>);
11. Information relevant for disassembly, recycling or disposal at end-of-life: see the motor Instruction manual;
12. Information on the range of operating conditions for which the motor is specifically designed (<http://franklinwater.eu/products/>):
 - a. Altitudes above sea-level: 0-1000 m;
 - b. Ambient air temperature: max. 40°C;
 - c. ---;
 - d. Maximum operating temperature: max. 60°C;
 - e. ---

MH Series Horizontal Multistage Pumps 3-5-9-15-20



SPARE PARTS AND MATERIALS

MH 3-5-9



00500071/2018

PARTS IN CONTACT WITH LIQUID

Ref. No.	Parts description	Material	Standard			
			I version		N version	
			ASTM/AISI	DIN/EN	ASTM/AISI	DIN/EN
20.00	Outer case	Stainless steel	AISI 304	14.301	AISI 316 L	14.404
20.01	Mechanical seal housing	Stainless steel	AISI 304	14.301	AISI 316 L	14.404
20.05	Filling plug	Stainless steel	AISI 304	14.301	AISI 316	14.401
30.00	Pump shaft	Stainless steel	AISI 304	14.301	AISI 316	14.401
30.01	Kit mechanical seal	Carbon graphite / Ceramic alumina / EPDM				
30.02	Mechanical seal fastening kit	Stainless steel	AISI 304	14.301	AISI 316	14.401
30.03	Kit O-rings	EPDM				
40.00	Stage housing and diffuser	Stainless steel	AISI 304	14.301	AISI 316 L	14.404
40.02	Floating neck ring	Stainless steel / PPS	AISI 304	14.301	AISI 316 L	14.404
40.03	Initial stage housing	Stainless steel	AISI 304	14.301	AISI 316 L	14.404
40.04	Last Stage with diffuser	Stainless steel	AISI 304	14.301	AISI 316 L	14.404
50.00	Impeller	Stainless steel	AISI 304	14.301	AISI 316 L	14.404
50.01	Impeller spacers	Stainless steel	AISI 304	14.301	AISI 316 L	14.404

SPARE PARTS AND MATERIALS

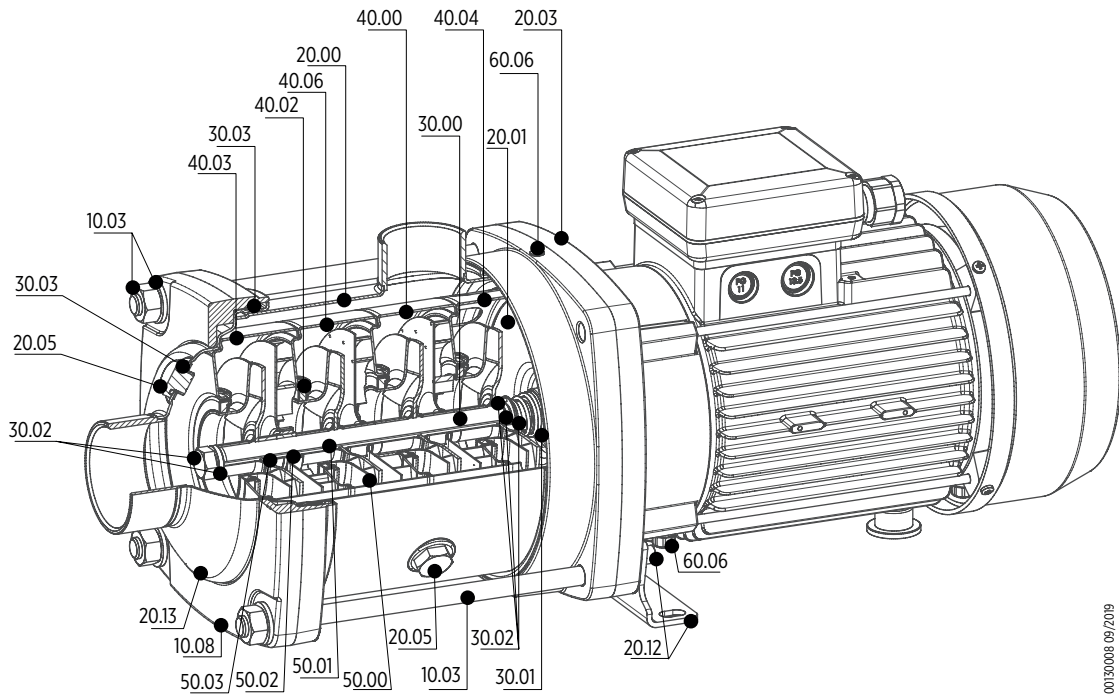
SPARE PARTS LIST

Ref. No.	Parts description
20.00	Outer case
20.01	Mechanical seal housing
20.03	Motor bracket
20.05	Filling plug
20.12	Support foot and screws
30.00	Pump shaft
30.01	Kit mechanical seal
30.02	Mechanical seal fastening kit

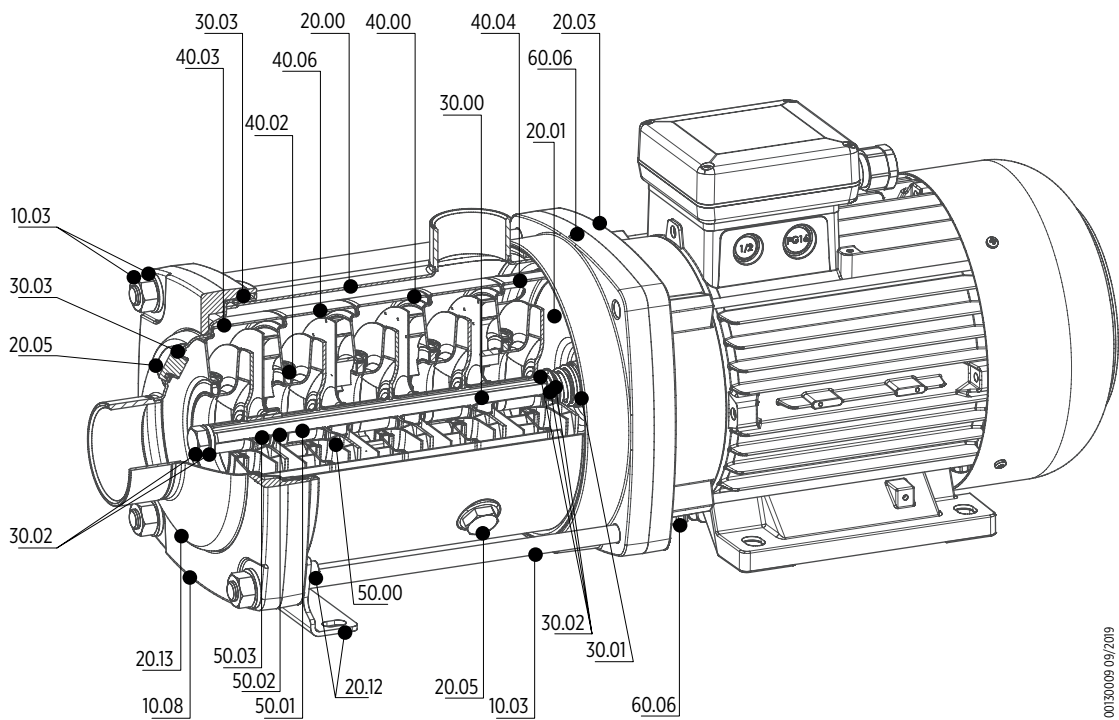
Ref. No.	Parts description
30.03	Kit O-rings
40.00	Stage housing and diffuser
40.02	Floating neck ring
40.03	Initial stage housing
40.04	Last Stage with diffuser
50.00	Impeller
50.01	Impeller spacer

SPARE PARTS AND MATERIALS

MH 15-20



00130009 09/2019



00130009 09/2019



SPARE PARTS AND MATERIALS

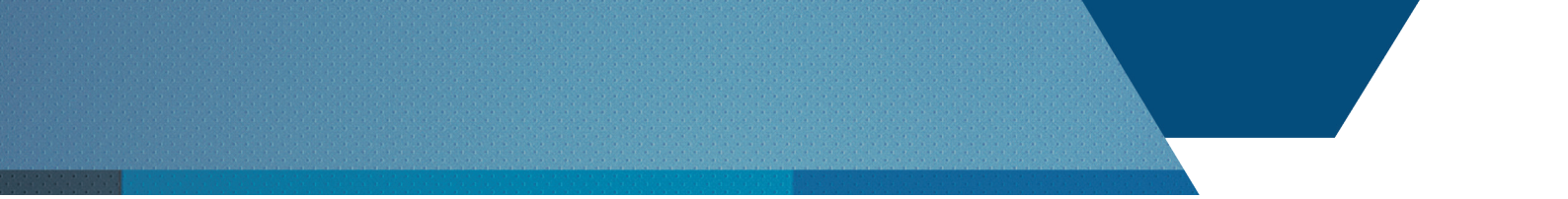
PARTS IN CONTACT WITH LIQUID

Ref. No.	Parts description	Material	Standard			
			I version		N version	
			ASTM/AISI	DIN/EN	ASTM/AISI	DIN/EN
20.00	Outer case	Stainless steel	AISI 304	14.301	AISI 316 L	14.404
20.01	Mechanical seal housing	Stainless steel	AISI 304	14.301	AISI 316	14.401
20.05	Filling plug	Stainless steel	AISI 304	14.301	AISI 316	14.401
20.13	Inlet cover	Stainless steel	AISI 304	14.301	AISI 316	14.401
30.00	Pump shaft	Stainless steel	AISI 304	14.301	AISI 316	14.401
30.01	Kit mechanical seal	Carbon graphite / Silicon Carbide (SiC) / EPDM				
30.02	Mechanical seal fastening kit	Stainless steel	AISI 304	14.301	AISI 316	14.401
30.03	Kit O-rings	EPDM				
40.00	Stage housing and diffuser	Stainless steel	AISI 304	14.301	AISI 316 L	14.404
40.02	Floating neck ring	Stainless steel and PPS	AISI 304	14.301	AISI 316 L	14.404
40.03	Initial stage housing	Stainless steel	AISI 304	14.301	AISI 316 L	14.404
40.04	Last Stage with diffuser	Stainless steel	AISI 304	14.301	AISI 316 L	14.404
40.06	Stage housing and diffuser with bearing	Stainless steel / Silicon Carbide (SiC)	AISI 304	14.301	AISI 316 L	14.404
50.00	Impeller	Stainless steel	AISI 304	14.301	AISI 316 L	14.404
50.01	Impeller spacer	Stainless steel	AISI 304	14.301	AISI 316 L	14.404
50.02	Intermediary sleeve	Silicon Carbide (SiC)				
50.03	Intermediary sleeve spacer	Stainless steel	AISI 304	14.301	AISI 316 L	14.404

SPARE PARTS LIST

Ref. No.	Parts description
10.03	Tie bolts, washers and nuts
10.08	Pre-load flange
20.00	Outer case
20.01	Mechanical seal housing
20.03	Motor bracket
20.05	Filling plug
20.12	Support foot and screws
20.13	Inlet cover
30.00	Pump shaft
30.01	Kit mechanical seal
30.02	Mechanical seal fastening kit

Ref. No.	Parts description
30.03	Kit O-rings
40.00	Stage housing and diffuser
40.02	Floating neck ring
40.03	Initial stage housing
40.04	Last Stage with diffuser
40.06	Stage housing and diffuser with bearing
50.00	Impeller
50.01	Impeller spacer
50.02	Intermediate sleeve
50.03	Intermediate sleeve spacer
60.06	Kit motor spare components



TECHNICAL DATA AND PERFORMANCE CURVES AT 50 Hz

HYDRAULIC PERFORMANCE AT 50 Hz

Pump model	Stages	Q = DELIVERY																
		l/min 0	16.7	25.0	33.3	50.0	75.0	100.0	116.7	133.3	166.7	200.0	233.3	283.3	333.3	400.0	466.7	533.3
		m ³ /h 0	1.0	1.5	2.0	3.0	4.5	6.0	7.0	8.0	10.0	12.0	14.0	17.0	20.0	24.0	28.0	32
		US gpm 0	4.4	6.6	8.8	13.2	19.8	26.4	30.8	35.2	44.0	52.8	61.6	74.7	87.9	105.5	123.1	140.9
		H = TOTAL METERS HEAD OF WATER COLUMN [m]																
3 MH	2	22.4		20.0	18.7	15.5	9.7											
	3	33.2		29.3	27.4	22.5	13.8											
	4	43.7		38.3	35.6	29.1	17.5											
	5	54.0		46.8	43.4	35.2	20.7											
	6	65.1		56.7	52.6	42.8	25.4											
	7	75.3		65.1	60.2	48.7	28.4											
	8	87.6		77.0	71.7	58.8	35.6											
5 MH	2	23.5			21.7	20.5	18.3	15.0	11.8									
	3	34.8			31.9	30.0	26.5	21.3	16.5									
	4	46.2			42.4	39.9	35.2	28.4	21.9									
	5	57.3			52.1	48.8	42.7	34.0	25.8									
	6	69.5			64.0	60.3	53.4	43.2	33.6									
	7	80.7			73.9	69.5	61.3	49.2	37.9									
	8	93.9			87.1	82.6	73.8	60.6	47.9									
9 MH	2	23.7				22.0	20.8	19.7	18.9	18.1	15.6	11.9	6.9					
	3	35.3				32.7	30.8	29.1	27.9	26.6	22.8	17.2	9.7					
	4	47.4				44.2	41.9	39.7	38.2	36.5	31.7	24.3	14.4					
	5	60.1				56.6	54.0	51.4	49.7	47.8	42.1	33.0	20.7					
	6	71.8				67.4	64.2	61.0	58.9	56.5	49.5	38.5	23.7					
	7	84.3				79.4	75.8	72.2	69.9	67.1	59.2	46.5	29.3					
	8	96.0				90.3	86.1	81.9	79.2	76.0	66.8	52.2	32.5					
15 MH	2	28.5								25.0	24.0	22.9	21.7	19.2	15.9	10.3		
	3	43.3								38.3	36.9	35.3	33.5	29.9	25.0	16.5		
	4	57.9								51.4	49.5	47.4	45.0	40.3	33.8	22.5		
	5	72.6								64.5	62.2	59.6	56.7	50.8	42.7	28.6		
	6	87.5								78.2	75.5	72.5	69.0	62.1	52.5	35.6		
20 MH	2	31.2									27.9	27.2	26.5	25.3	23.1	18.5	12.7	
	3	46.8									41.9	40.8	39.8	37.8	34.6	27.7	19.0	
	4	62.5									56.0	54.6	53.2	50.6	46.3	37.2	25.6	
	5	78.5									70.6	68.9	67.3	64.1	58.9	47.6	33.2	

3 MH - TECHNICAL DATA

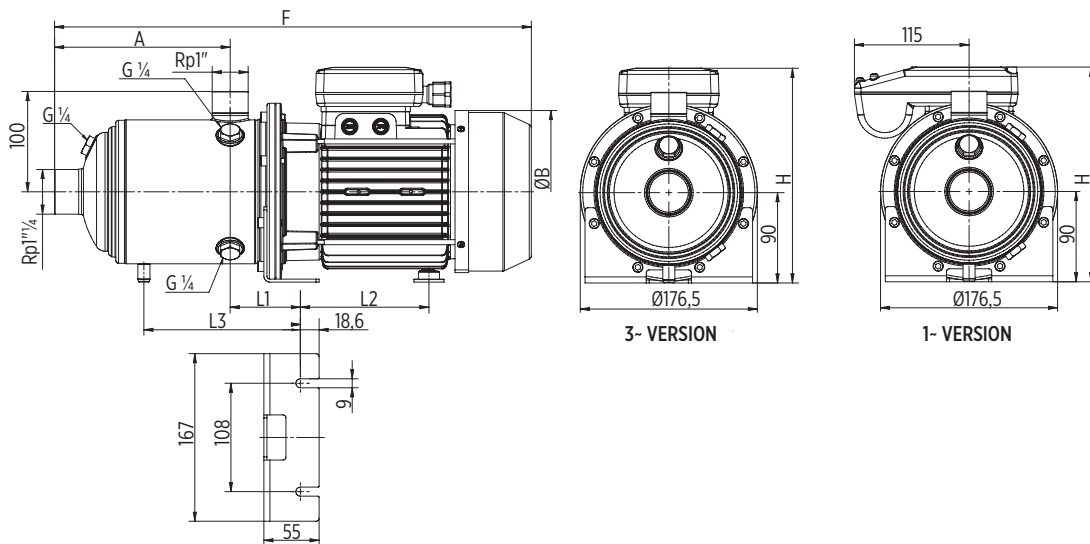
1 ~ ELECTRIC PUMP TECHNICAL DATA

Pump model	Motor size	Motor nominal power		Input power [kW]	Capacitor 450 V [µf]	Input current [A] 220-240 V	Dimensions [mm]						Weight [kg]	
		[kW]	[HP]				A	F	ØB	H	L1	L2		L3
MH 3/2	71	0.37	0.5	0.53	20	2.9	103	361	144	207	70	101	-	11.2
MH 3/3	71	0.55	0.75	0.74	20	3.6	103	361	144	207	70	101	-	11.4
MH 3/4	71	0.55	0.75	0.74	20	3.6	127	385	144	207	70	101	-	11.8
MH 3/5	71	0.75	1	0.97	20	4.6	151	409	144	207	70	101	-	12.4
MH 3/6	80	1.1	1.5	1.38	25	6.3	175	470	162	214	70	128	-	16
MH 3/7	80	1.1	1.5	1.38	25	6.3	199	494	162	214	70	128	180	16.6
MH 3/8	80	1.5	2	1.85	30	8.4	223	523	162	214	70	128	204	18.8
MH 3/9	80	1.5	2	1.85	30	8.4	247	547	162	214	70	128	228	19.4

3 ~ ELECTRIC PUMP TECHNICAL DATA

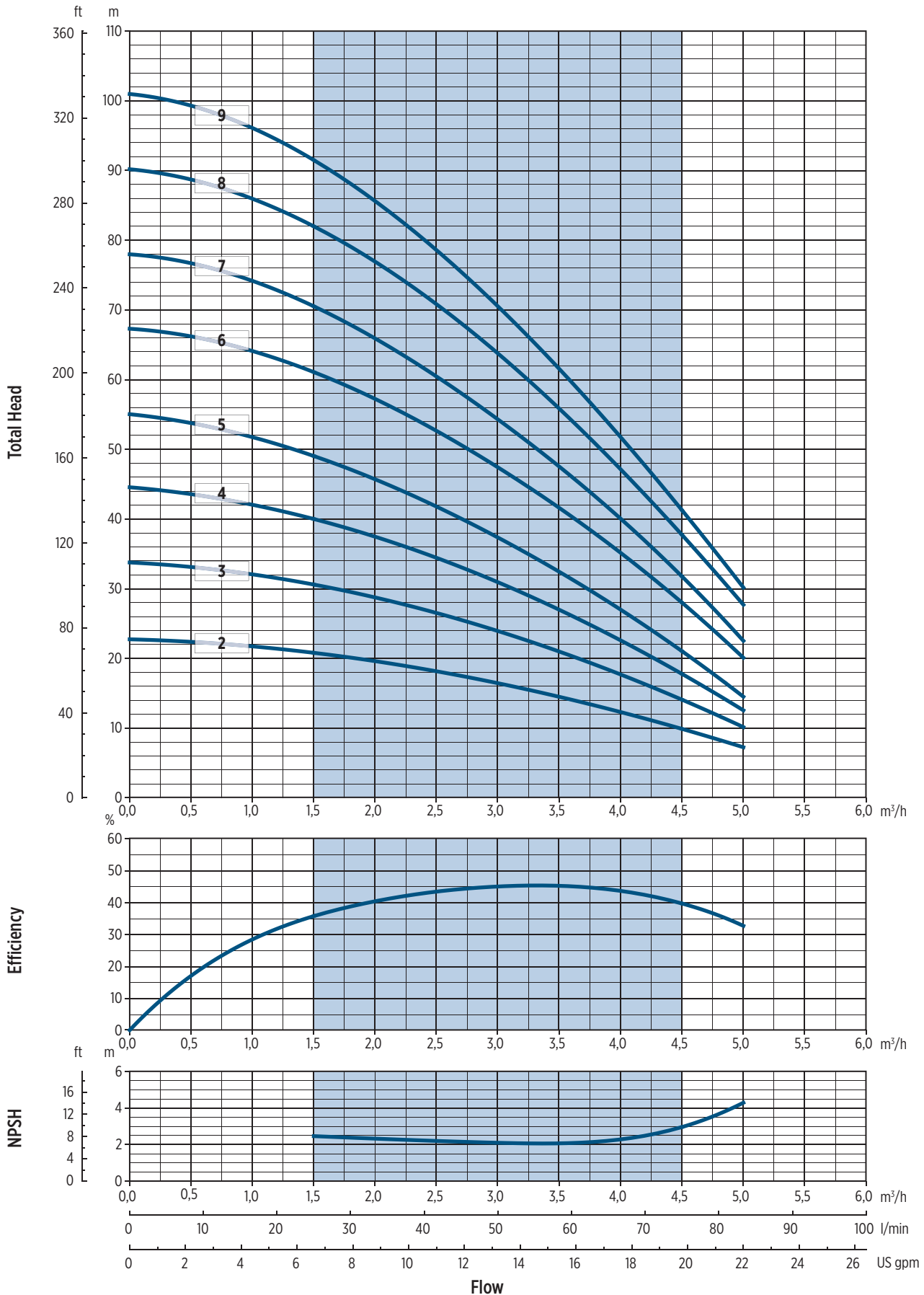
Pump model	Stages	Motor size	Motor nominal power		Input power [kW]	Input current [A]		Dimensions [mm]						Weight [kg]	
			[kW]	[HP]		220-240 V	380-415 V	A	F	ØB	H	L1	L2		L3
3 MH	2	71	0.75	1	0.41	1.9	1.1	103	363	144	207	70	101	-	10.8
	3	71	0.75	1	0.57	2.1	1.2	103	363	144	207	70	101	-	11
	4	71	0.75	1	0.72	2.4	1.4	127	387	144	207	70	101	-	11.6
	5	71	0.75	1	0.87	2.7	1.6	151	411	144	207	70	101	-	12
	6	71	1.1	1.5	1.02	3.3	1.9	175	435	144	207	70	101	-	13.2
	7	71	1.1	1.5	1.17	3.6	2.1	199	459	144	207	70	101	180	13.8
	8	80	1.5	2	1.39	4.8	2.8	223	520	162	214	70	128	204	17.6
	9	80	1.5	2	1.55	5.1	3.0	247	544	162	214	70	128	228	18.2

DIMENSIONAL DRAWINGS



00300031 05/2017

3 MH - PERFORMANCE CURVES AT 50 Hz



00120041 05/2018

5 MH - TECHNICAL DATA

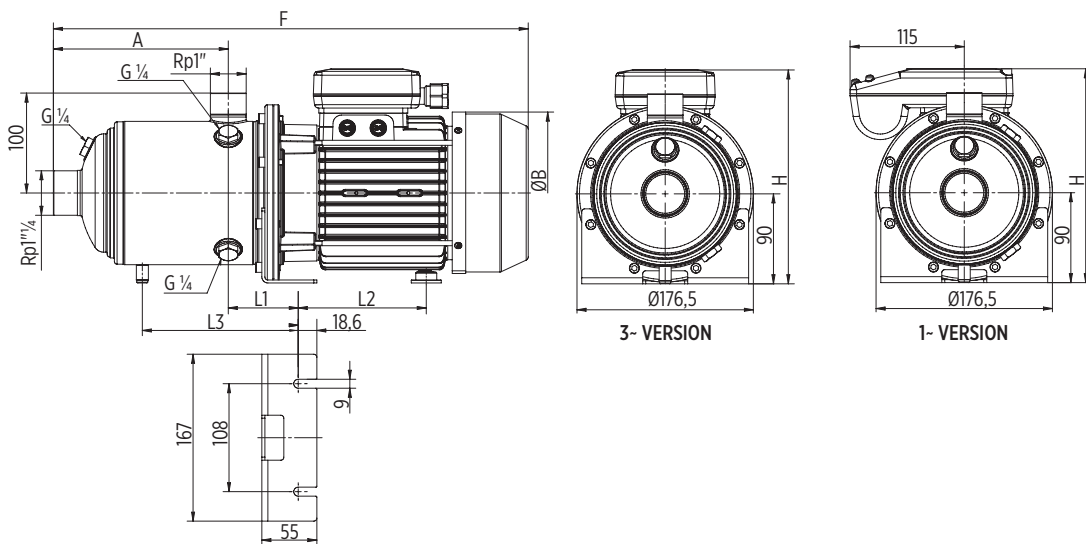
1 ~ ELECTRIC PUMP TECHNICAL DATA

Pump model	Motor size	Motor nominal power		Input power [kW]	Capacitor 450 V [µf]	Input current [A]	Dimensions [mm]						Weight [kg]	
		[kW]	[HP]				A	F	ØB	H	L1	L2		L3
MH 5/2	71	0.55	0.75	0.74	20	3.6	103	361	144	207	70	101	-	11.2
MH 5/3	71	0.55	0.75	0.74	20	3.6	103	361	144	207	70	101	-	11.4
MH 5/4	80	1.1	1.5	1.38	25	6.3	127	422	162	214	70	128	-	14.8
MH 5/5	80	1.1	1.5	1.38	25	6.3	151	446	162	214	70	128	-	15.4
MH 5/6	80	1.5	2	1.85	30	8.4	175	475	162	214	70	128	-	17.8
MH 5/7	80	1.5	2	1.85	30	8.4	199	499	162	214	70	128	180	18.2

3 ~ ELECTRIC PUMP TECHNICAL DATA

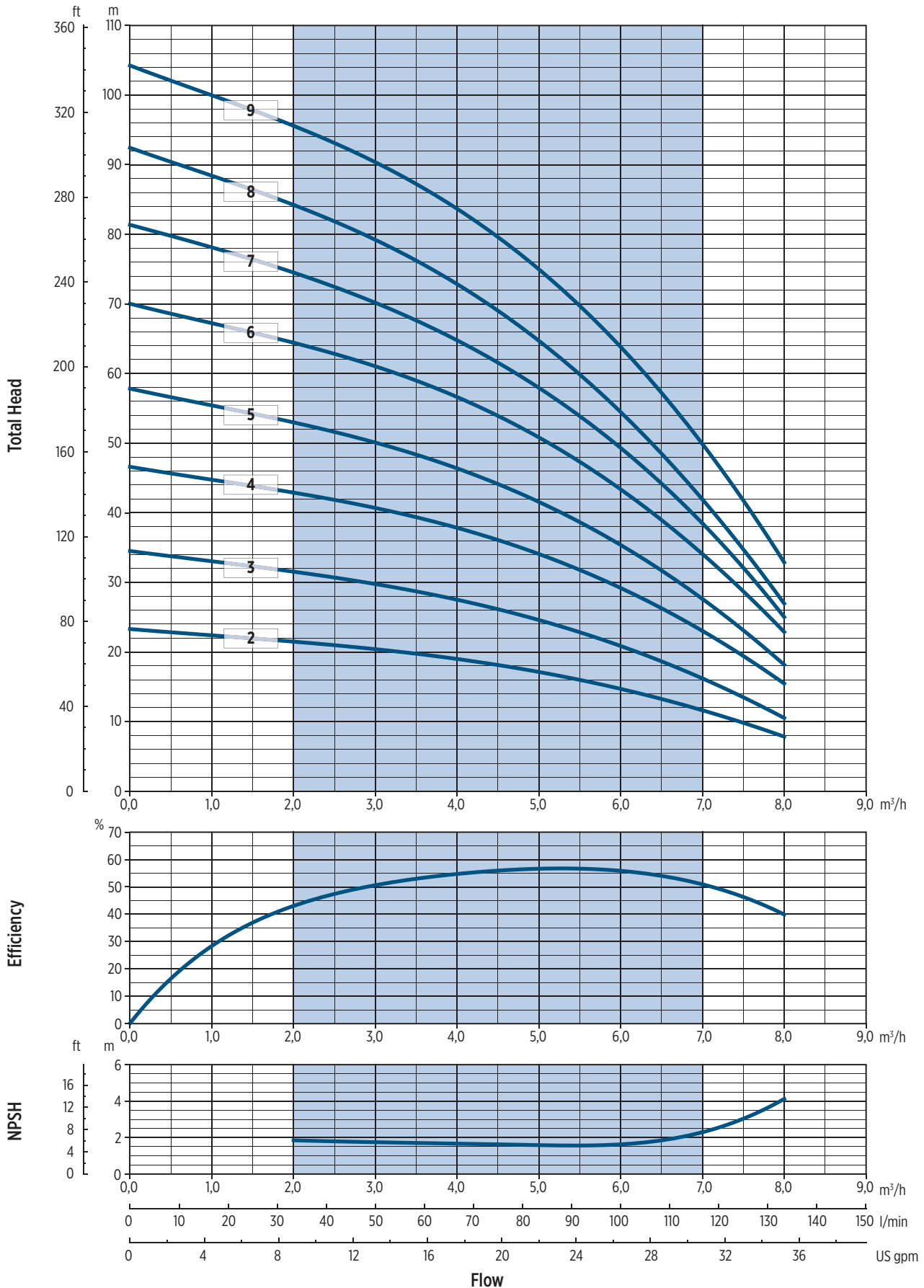
Pump model	Stages	Motor size	Motor nominal power		Input power [kW]	Input current [A]		Dimensions [mm]						Weight [kg]	
			[kW]	[HP]		220-240 V	380-415 V	A	F	ØB	H	L1	L2		L3
5 MH	2	71	0.75	1	0.55	2.1	1.2	103	363	144	207	70	101	-	10.8
	3	71	0.75	1	0.77	2.5	1.4	103	363	144	207	70	101	-	11
	4	71	1.1	1.5	0.99	3.2	1.9	127	387	144	207	70	101	-	12.2
	5	71	1.1	1.5	1.21	3.7	2.2	151	411	144	207	70	101	-	12.6
	6	80	1.5	2	1.50	5.0	2.9	175	472	162	214	70	128	-	16.6
	7	80	1.5	2	1.72	5.5	3.2	199	496	162	214	70	128	180	17
	8	90	2.2	3	2.06	6.8	3.9	223	567	179	221	70	172	204	23
	9	90	2.2	3	2.29	7.4	4.3	247	591	179	221	70	172	228	23.4

DIMENSIONAL DRAWINGS



00E3003IT 05/2017

5 MH - PERFORMANCE CURVES AT 50 Hz



002002.05/20

9 MH - TECHNICAL DATA

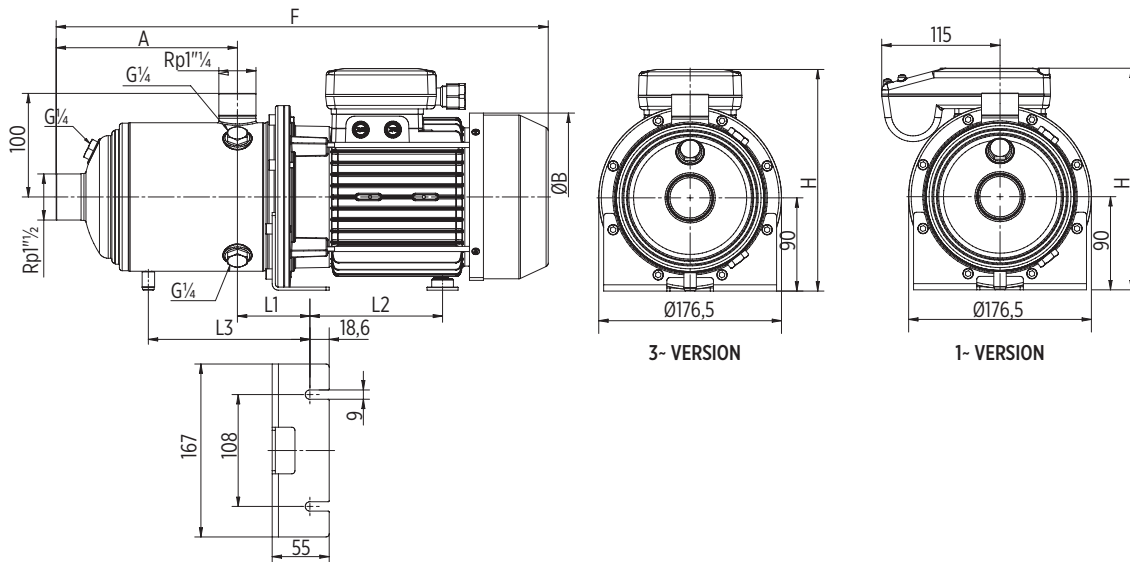
1 ~ ELECTRIC PUMP TECHNICAL DATA

Pump model	Motor size	Motor nominal power		Input power [kW]	Capacitor 450 V [µf]	Input current [A]	Dimensions [mm]						Weight [kg]	
		[kW]	[HP]				A	F	ØB	H	L1	L2		L3
MH 9/2	71	0.75	1	0.97	20	4.6	118	380	144	207	74	101	-	11.6
MH 9/3	80	1.1	1.5	1.38	25	6.3	118	419	162	214	74	128	-	14.6
MH 9/4	80	1.5	2	1.85	30	8.4	148	452	162	214	74	128	-	17

3 ~ ELECTRIC PUMP TECHNICAL DATA

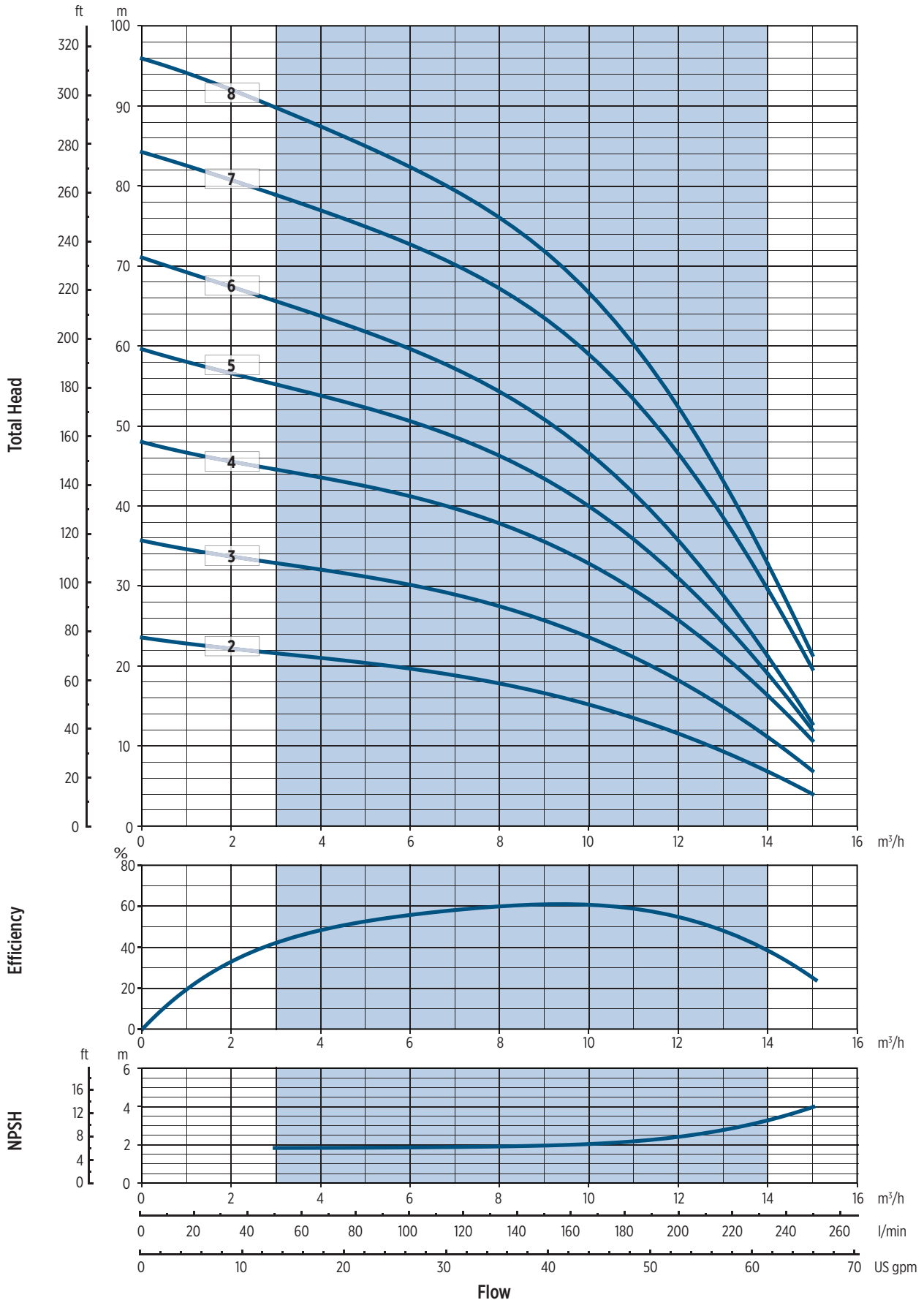
Pump model	Stages	Motor size	Motor nominal power		Input power [kW]	Input current [A]		Dimensions [mm]						Weight [kg]	
			[kW]	[HP]		220-240 V	380-415 V	A	F	ØB	H	L1	L2		L3
9 MH	2	71	0.75	1	0.87	2.7	1.6	118	382	144	207	74	101	-	11.2
	3	71	1.1	1.5	1.24	3.8	2.2	118	382	144	207	74	101	-	12
	4	80	1.5	2	1.70	5.5	3.2	148	449	162	214	74	128	-	15.8
	5	90	2.2	3	2.20	7.1	4.1	178	526	179	221	74	172	-	21.8
	6	90	2.2	3	2.61	8.2	4.7	208	556	179	221	74	172	192	22.4
	7	90	3	4	3.08	9.5	5.5	238	621	179	221	74	172	222	26
	8	90	3	4	3.49	10.4	6.0	268	651	179	221	74	172	252	26.6

DIMENSIONAL DRAWINGS



00500041/05/2014

9 MH - PERFORMANCE CURVES AT 50 Hz



00120045.05/2018

15 MH - TECHNICAL DATA

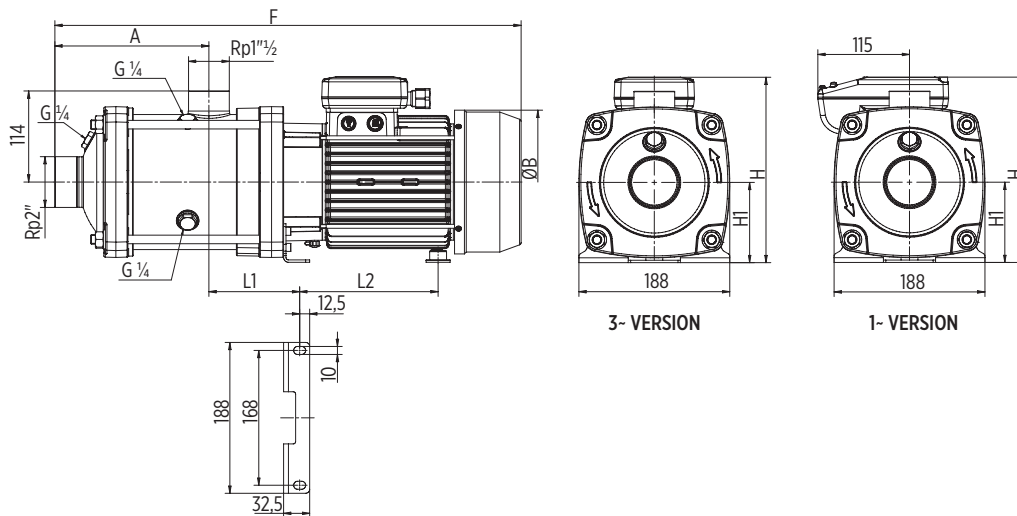
1 ~ ELECTRIC PUMP TECHNICAL DATA

Pump model	Motor size	Motor nominal power		Input power [kW]	Capacitor 450 V [µf]	Input current [A] 220-240 V	Dimensions [mm]										Weight [kg]	
		[kW]	[HP]				A	F	ØB	H	H1	L1	L2	L3	M	N		N1
MH 15/2	80	1.5	2	1.85	30	8.4	144	488	162	224	100	113	129	-	-	-	-	20.2

3 ~ ELECTRIC PUMP TECHNICAL DATA

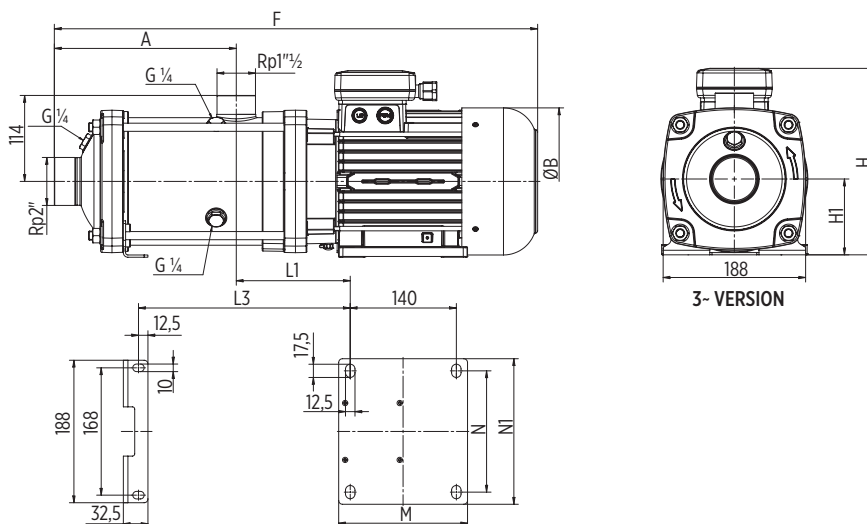
Pump model	Stages	Motor size	Motor nominal power		Input power [kW]	Input current [A]			Dimensions [mm]										Weight [kg]	
			[kW]	[HP]		220-240 V	380-415 V	660-690 V	A	F	ØB	H	H1	L1	L2	L3	M	N		N1
15 MH	2	80	1.5	2	1.60	5.3	3.0	-	144	485	162	224	100	113	129	-	-	-	18.8	
	3	90	2.2	3	2.45	7.8	4.5	-	144	532	179	231	100	113	173	-	-	-	24.4	
	4	90	3	4	3.28	9.9	5.7	-	192	615	179	231	100	113	173	-	-	-	28.6	
	5	100	4	5.5	4.09	-	7.0	4.1	240	670	194	246	100	150	-	279	170	160	192	37
	6	112	5.5	7.5	4.95	-	9.3	5.4	288	732	218	263	112	152	-	329	180	190	220	46.2
	7	112	5.5	7.5	5.71	-	10.3	6.0	336	780	218	263	112	152	-	377	180	190	220	47.6

DIMENSIONAL DRAWINGS



3- VERSION

1- VERSION

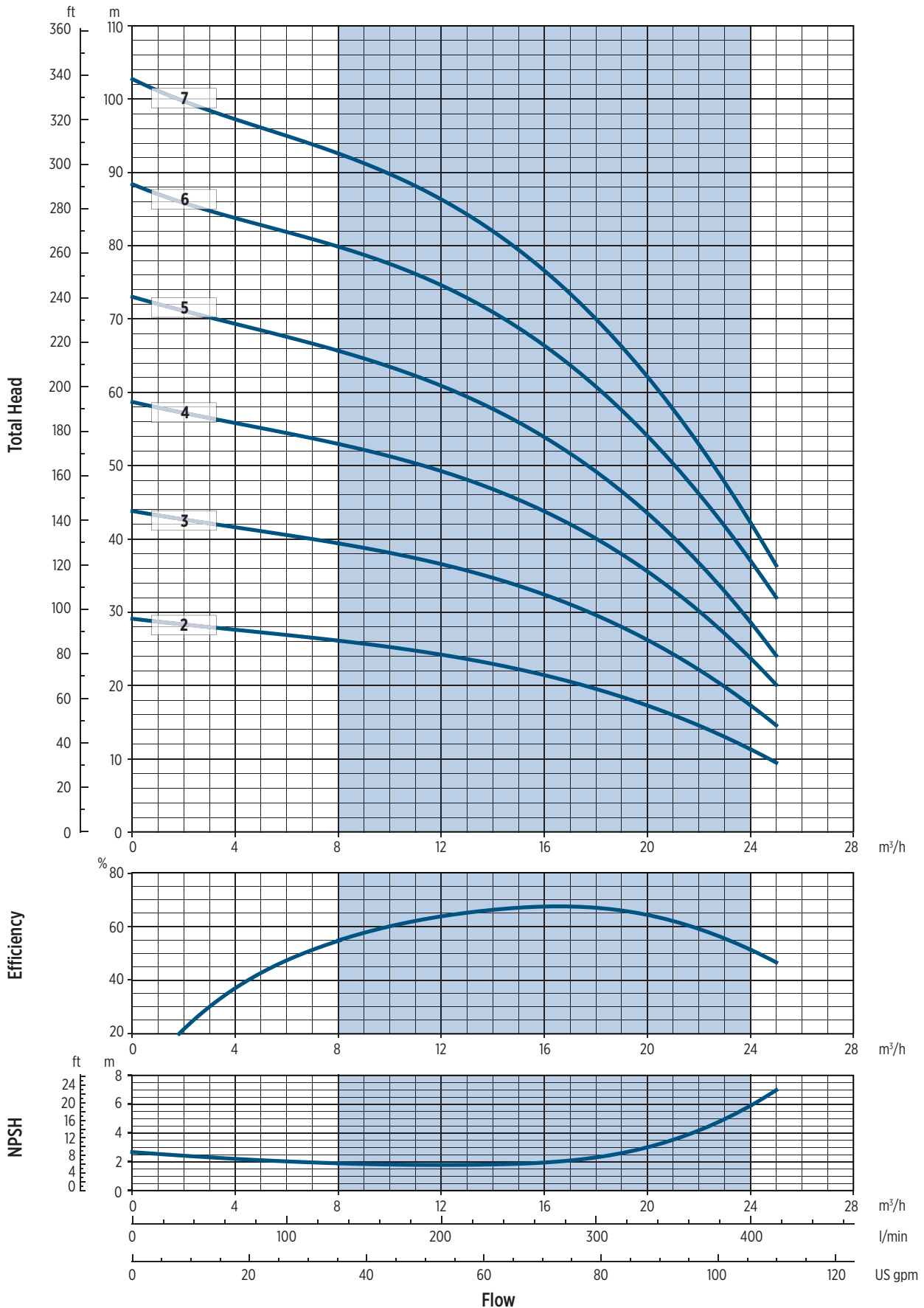


3- VERSION

0013000511A 05/2017

0013000611A 05/2017

15 MH - PERFORMANCE CURVES AT 50 Hz

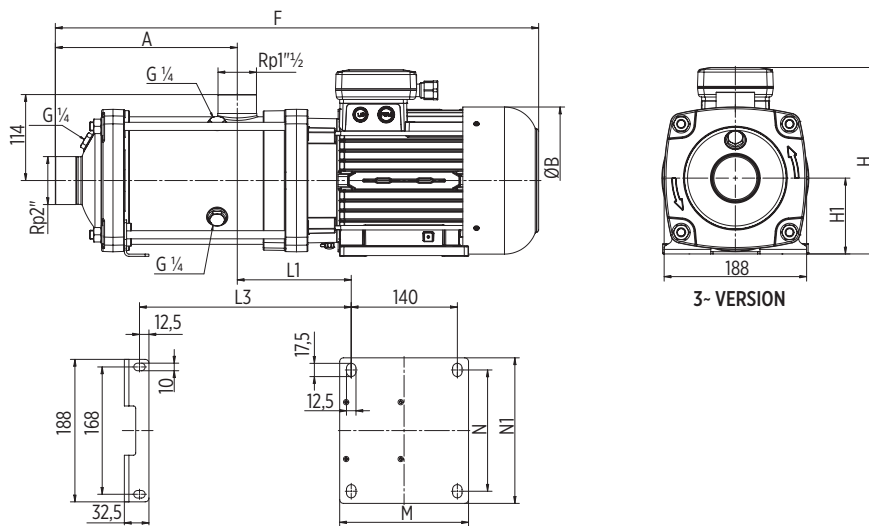
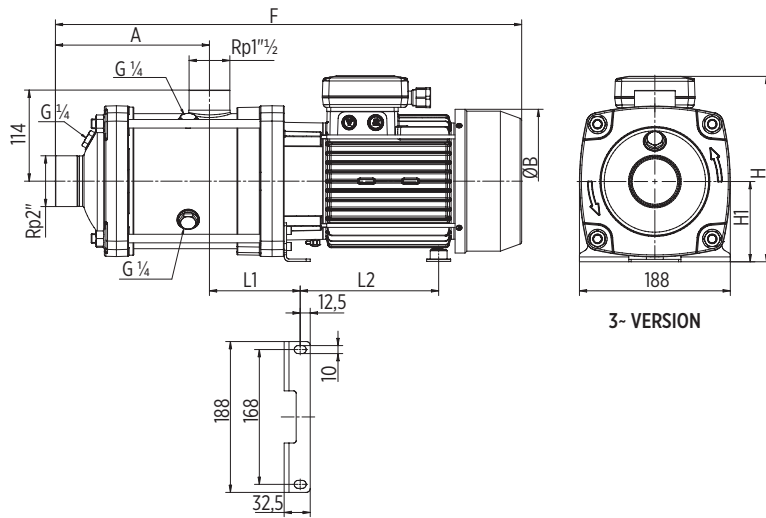


20 MH - TECHNICAL DATA

3 ~ ELECTRIC PUMP TECHNICAL DATA

Pump model	Stages	Motor size	Motor nominal power		Input power [kW]	Input current [A]			Dimensions [mm]											Weight [kg]
			[kW]	[HP]		220-240 V	380-415 V	660-690 V	A	F	ØB	H	H1	L1	L2	L3	M	N	N1	
20 MH	2	90	2.2	3	2.29	7.4	4.3	-	144	532	179	231	100	113	173	-	-	-	-	24.2
	3	90	3	4	3.43	10.3	5.9	-	144	567	179	231	100	113	173	-	-	-	-	27.2
	4	100	4	5.5	4.53	-	7.7	4.4	192	622	194	246	100	150	-	231	170	160	192	35.8
	5	112	5.5	7.5	5.69	-	10.3	6.0	240	684	218	263	112	152	-	281	180	190	220	45

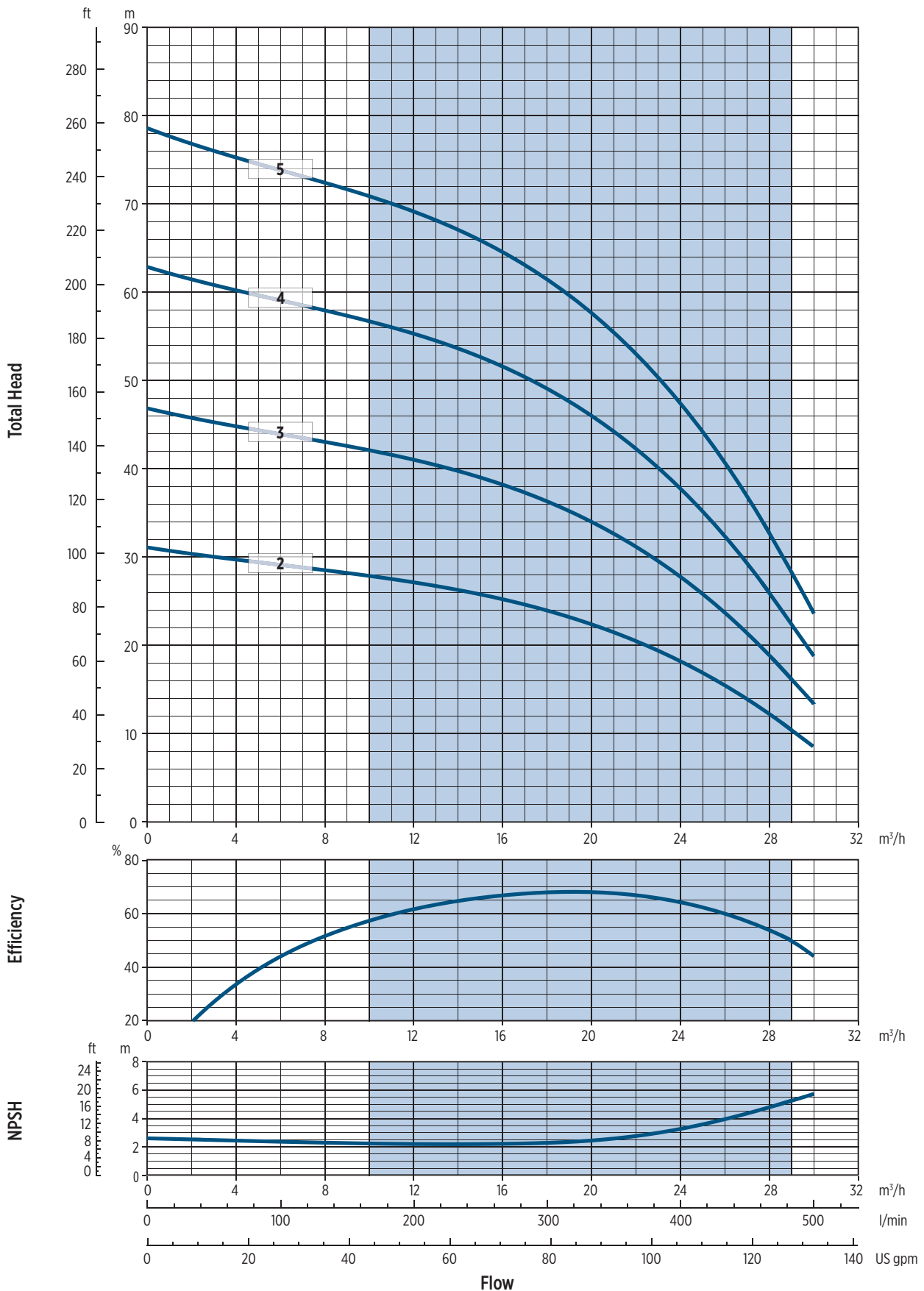
DIMENSIONAL DRAWINGS



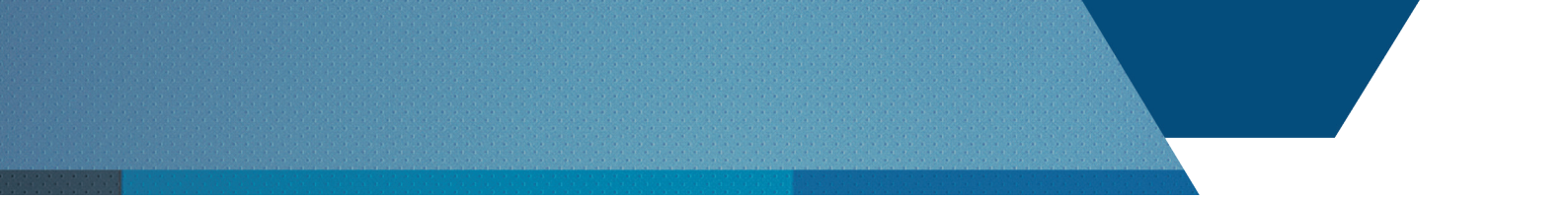
001300051TA.09/2023

001300061TA.05/2017

20 MH - PERFORMANCE CURVES AT 50 Hz



00720045 05/2018



CATALOG REVISION CHANGE NOTICE

Rev. No.	Changes	Page
01	General updatings	All
02	Modification of "List of main components" and "Parts in contact with fluids"	4, 27-30 (REV.01)
03	Updating description	2, 3
	Updating section "Spare parts and materials"	6 ÷ 11
	Added section "Motor spare parts"	14
04	Updating of "Spare parts list" and "Drawing" of MH 15-20	8, 9
05	Updating of "Hydraulic performance" tables	4
	Removed "MH 9/7" single-phase model	20
06	Updating of "Hydraulic performance" MHsp table	4
07	Updating of general description	2, 3
	Updating of "Hydraulic performance" MH series	13
08	MHsp removed from "Compact Close-Coupled Design".	2
	MHsp removed from "Family Curves".	3
	"Pump Identification Code" updated.	4
	"General Features" table modified.	4
	"Standard Version" table modified.	5
	"Single-phase version" table updated and "50 Hz - MH Motor Specifications" section modified.	6
	"Parts in contact with liquid" table updated.	10-13
	"Technical Data" tables updated.	16-24
	"Technical Data" drawings updated.	22, 24
"MHsp Series - 3-5 50 Hz Self-Priming Horizontal Pumps" section removed.	26	

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