PRODUCT CATALOG

Franklin Electric

HORIZONTAL MULTISTAGE PUMPS 60 Hz

MH SERIES

franklinwater.eu

FPS

INDEX

MH SERIES - HORIZONTAL MULTISTAGE PUMPS

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

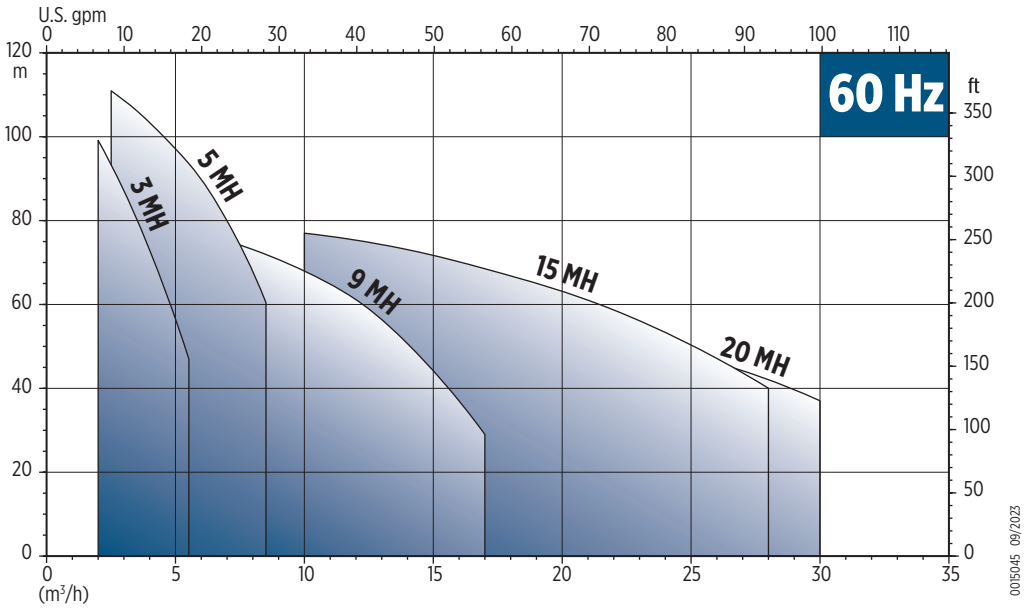
- Flow: up to 30 m^3/h
- Head: up to 111 m
- Maximum working pressure: 10 Bar
- Max. altitude at nominal load: 1000 m
- Maximum allowable amount of sand: 50 g/m^3 (MH)
- Maximum ambient temperature: 40 °C
- The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

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)

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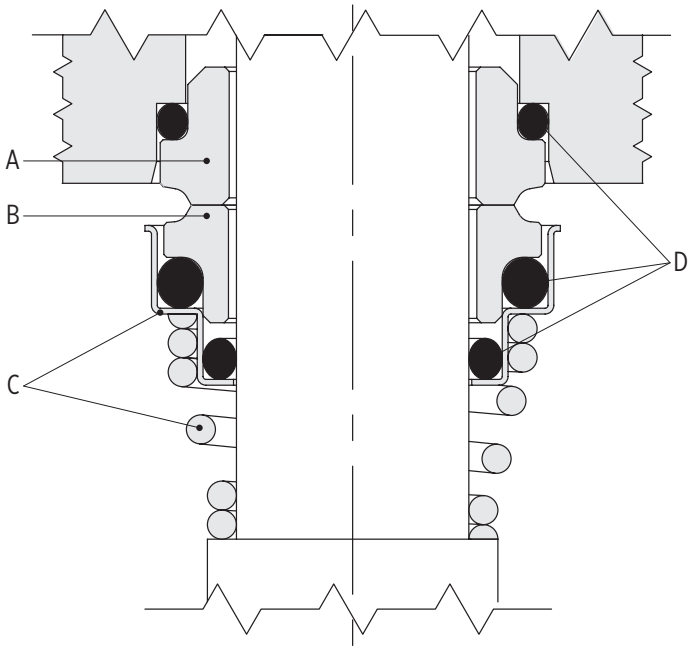
GENERAL FEATURES

Model		3	5	9	15	20
Nominal flow [m3/h]		3.9	6	12	20	23
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. Ŋ hydraulic	Standard version	42	56.8	61	67.7	65.7
Range [m³/h]	Standard version	2.0 - 5.5	2.5 - 8.5	6.0 - 17	10 - 28	12 - 33
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



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 60 Hz

- Asynchronous, TEFC (Totally Enclosed, Fan-Cooled)
- 2 poles
- Protection degree: IP55
- 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

- Standard voltage: 220 V ± 5%
- Thermal protection built into the motor

P_N [kW]	Motor size	Input current I_N [A]	Capacitor		230 V - 60 Hz						
		230 V	[µF]	[V]	n_N [min^{-1}]	I_S / I_N	η %	cos ϕ	T_N [Nm]	T_S / T_N	T_M / T_N
0.55	71	3.6	16	450	3460	6.6	73.5	0.93	1.5	0.5	2.8
0.75	71	4.8	16	450	3410	4.4	75.3	0.95	2.1	0.4	2.0
0.9	71	5.4	30	450	3470	5.7	80.6	0.96	2.5	0.6	2.4
1.1	71	5.8	30	450	3430	5.3	81.5	0.97	3.0	0.5	2.0
1.3	80	8.5	30	450	3470	3.9	80.0	0.97	3.6	0.6	3.9
1.5	80	9.3	30	450	3370	3.5	80.0	0.98	4.1	0.5	3.4

THREE-PHASE VERSION

- IE3 Motors Efficiency
- IE efficiency according to IEC 60034-30-1:2014
- Electrical performance according to IEC 60034-2-1:2007
- Standard voltage: 220-230 / 380-400 V ± 5 % up to 3 kW (thermal protection to be provide into the starter panel by the installer)

P_N [kW]	Efficiency η_N %						
	Δ 230 V Y 400 V			Δ 400 V Y 690 V			IE
	4/4	3/4	2/4	4/4	3/4	2/4	
0.75	82.5	82.6	80.4	-	-	-	3
1.1	84	84.5	82.8	-	-	-	
1.5	85.5	85.7	83.7	-	-	-	
2.2	86.9	87.6	86.8	-	-	-	
3	88.5	88.5	86.9	-	-	-	
4	-	-	-	88.6	88.6	87.2	
5.5	-	-	-	89.5	90.0	88.9	

P_N [kW]	Motor size	N. of poles	f_N [Hz]	400 V - 60 Hz				
				cos ϕ	I_S / I_N	T_N [Nm]	T_S / T_N	T_M / T_N
0.75	71	2	60	0.85	7.9	2.1	3.9	4
1.1	71			0.85	6.6	3.1	3	3.1
1.5	80			0.85	8.2	4.1	3.1	3.2
2.2	90			0.89	9.8	6.0	4	4.1
3	90			0.85	9.8	8.2	3.6	3.7
4	100			0.88	11.2	10.9	4.8	4.9
5.5	112			0.87	11	14.9	4.9	5

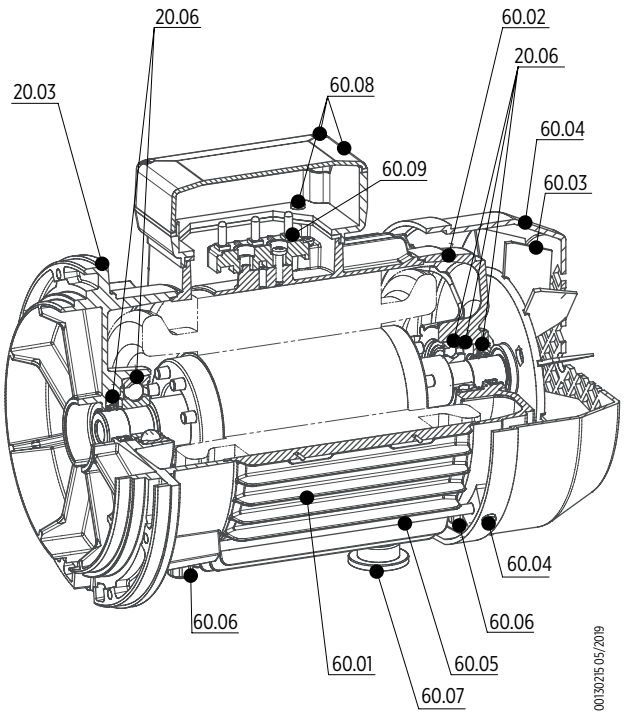
MOTOR SPECIFICATIONS 60 HZ

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	-	-	3440	≤ 1000	-15 / +40	NO
1.1	4.0	2.3	-	-	3440			
1.5	5.4	3.1	-	-	3480			
2.2	7.5	4.3	-	-	3490			
3	10.5	6.1	-	-	3510			
4	-	-	7.8	4.5	3520			
5.5	-	-	10.7	6.2	3520			

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



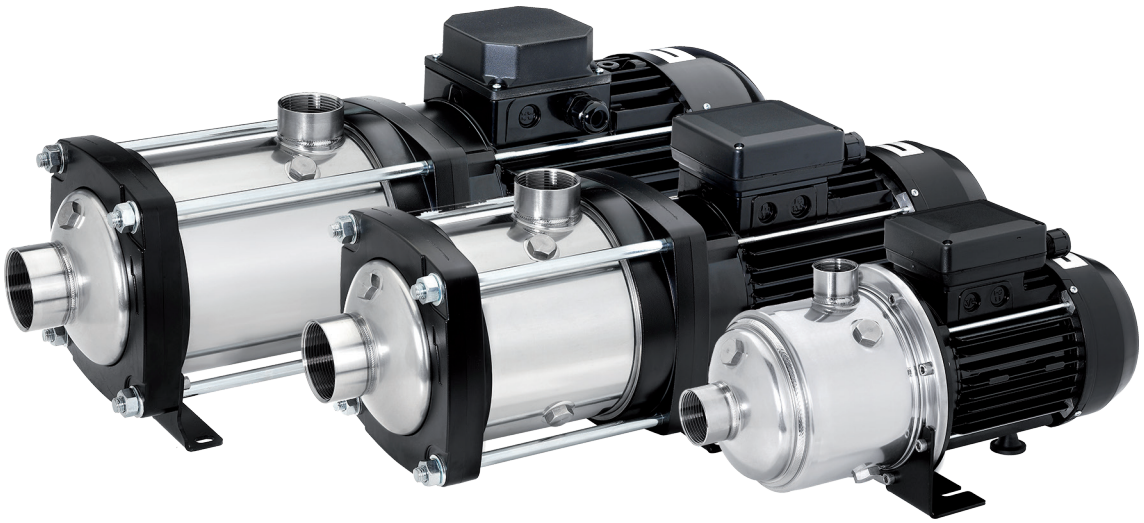
ErP REGULATION

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/):

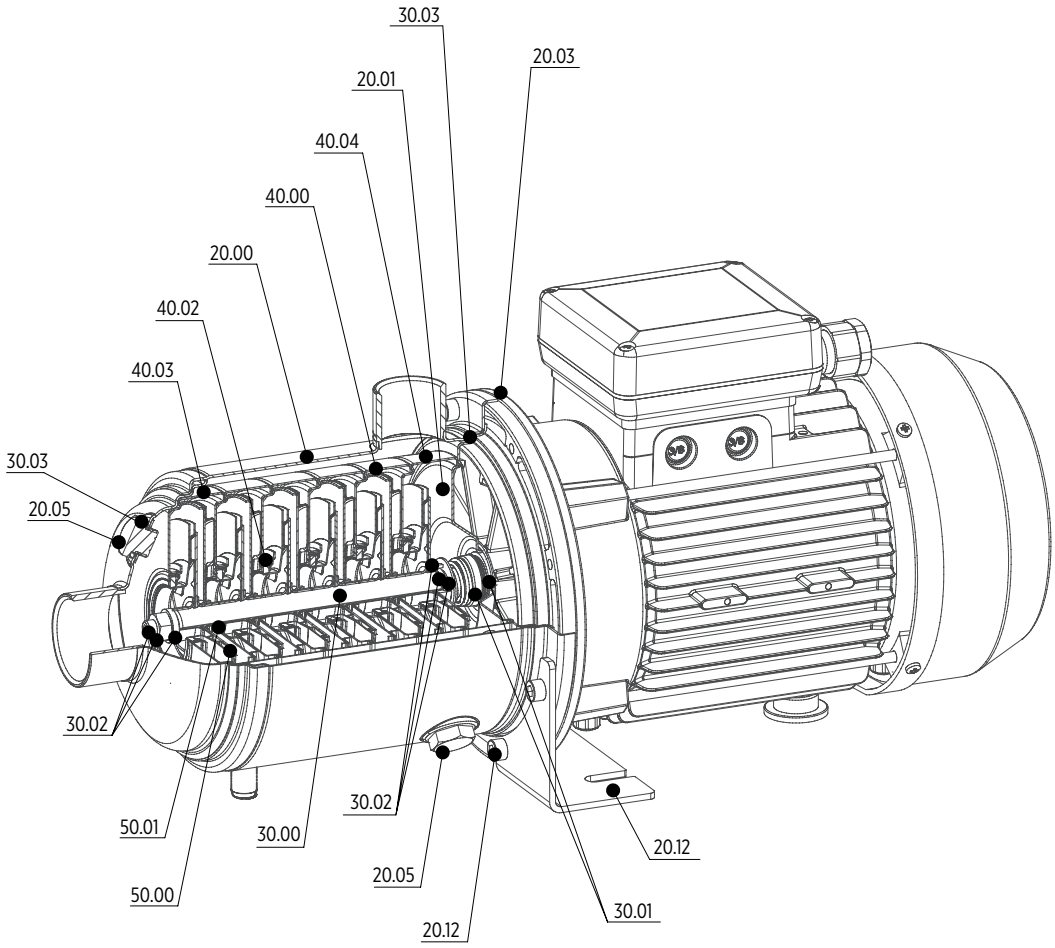
    a. Altitudes above sea-level: 0-1000 m;
    b. Ambient air temperature: max. 40°C;
    c. ---;
    d. Maximum operating temperature: max. 60°C;
    e. ---

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



SPARE PARTS AND MATERIALS

MH 3-5-9



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

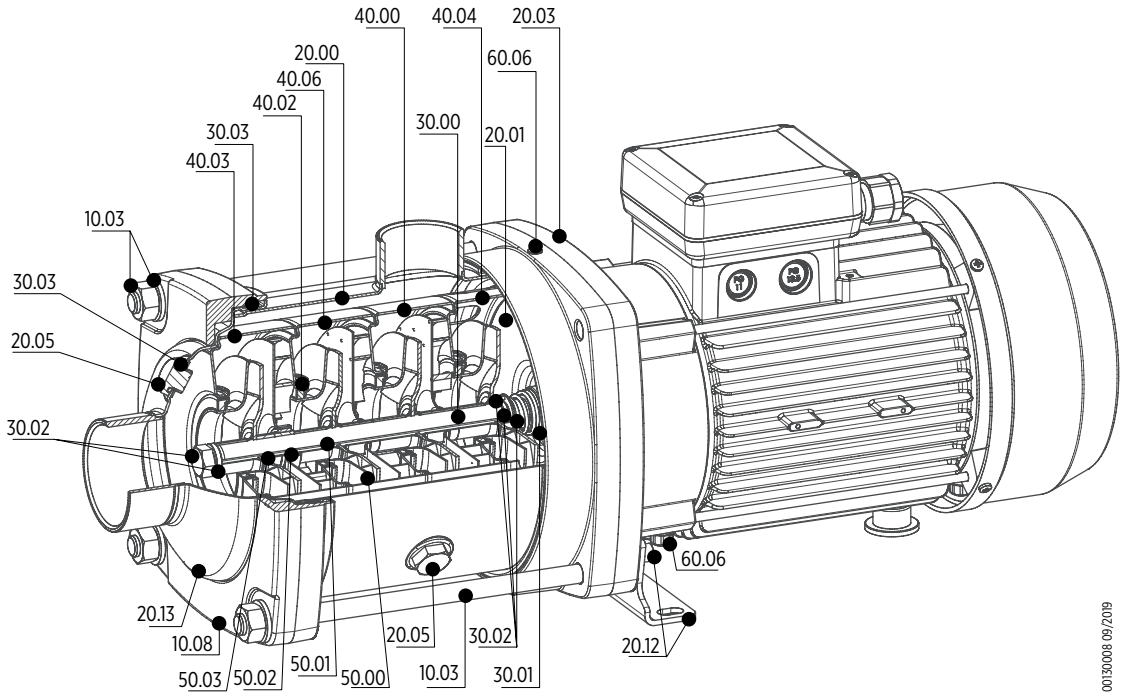
SPARE PARTS LIST

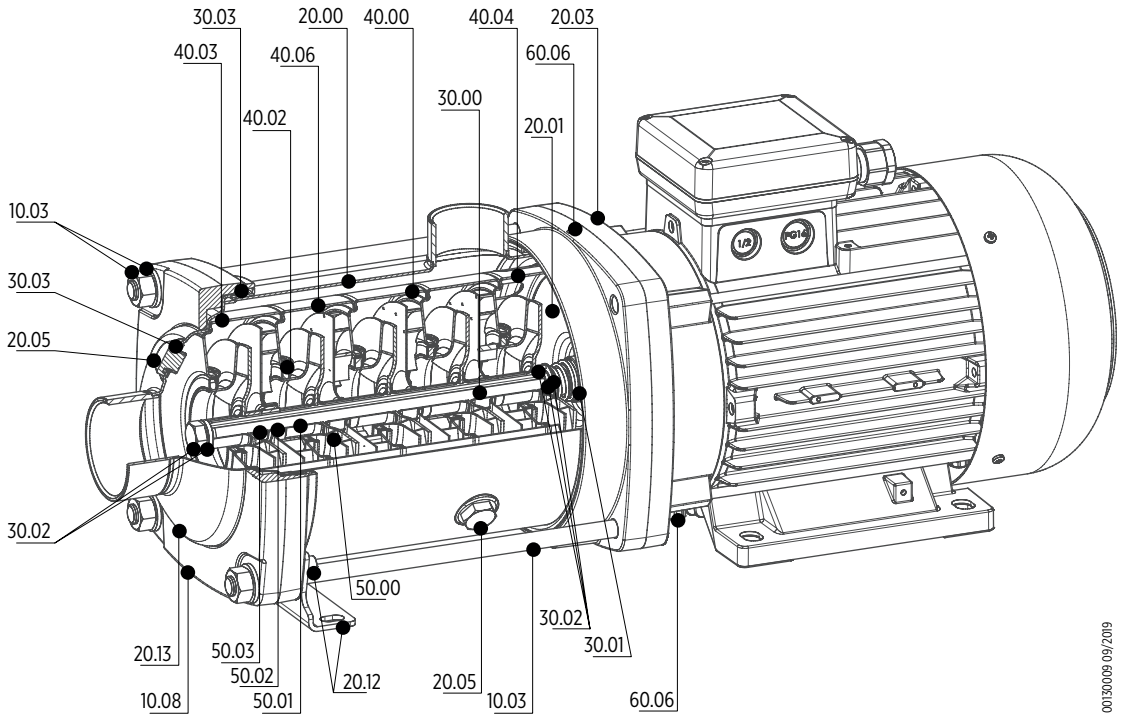
Ref. No.	Parts description
20.00	Outer case
20.01	Mechanical seal housing
20.03	Motor bracket
20.05	Filling plug
20.12	Support foot and screws
30.00	Pump shaft
30.01	Kit mechanical seal
30.02	Mechanical seal fastening kit

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





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 60 Hz

1 ~ HYDRAULIC PERFORMANCE

Pump model	Stages	Q = DELIVERY																			
		l/min 0	16.7	33.3	41.7	58.3	75.0	91.7	100.0	125.0	141.7	166.7	200.0	233.3	266.7	283.3	333.3	400.0	466.7	550.0	600.0
		m3/h 0	1.0	2.0	2.5	3.5	4.5	5.5	6.0	7.5	8.5	10.0	12.0	14.0	16.0	17.0	20.0	24.0	28.0	33.0	36.0
		US gpm 0	4.4	8.8	11.0	15.4	19.8	24.2	26.4	33.0	37.4	44.0	52.8	61.6	70.3	74.7	87.9	105.5	123.1	145.1	158.5
		H = TOTAL METERS HEAD OF WATER COLUMN [m]																			
3 MH	2	31.8		27.7	26.1	22.3	17.9	12.8													
	3	47.0		40.1	37.5	31.8	25.1	17.5													
	4	63.3		54.6	51.3	43.7	34.9	24.7													
	5	78.4		66.8	62.4	52.8	41.7	29.0													
	6	95.8		82.9	77.9	66.6	53.3	38.0													
	7	111.1		95.4	89.4	76.1	60.5	42.7													
5 MH	2	33.3			30.4	28.8	27.1	25.1	23.8	19.3	15.2										
	3	50.2			45.9	43.6	41.1	38.0	36.2	29.4	23.4										
	4	67.7			62.2	59.3	56.1	52.1	49.7	40.8	32.8										
	5	84.1			76.8	72.9	68.7	63.5	60.4	49.0	39.0										
9 MH	2	34.2							29.5	28.3	27.3	25.7	22.6	18.2	12.6	9.5					
	3	51.8							44.8	42.9	41.6	39.2	34.6	28.0	19.7	14.9					

3 ~ HYDRAULIC PERFORMANCE

Pump model	Stages	Q = DELIVERY																			
		l/min 0	16.7	33.3	41.7	58.3	75.0	91.7	100.0	125.0	141.7	166.7	200.0	233.3	266.7	283.3	333.3	400.0	466.7	550.0	600.0
		m3/h 0	1.0	2.0	2.5	3.5	4.5	5.5	6.0	7.5	8.5	10.0	12.0	14.0	16.0	17.0	20.0	24.0	28.0	33.0	36.0
		US gpm 0	4.4	8.8	11.0	15.4	19.8	24.2	26.4	33.0	37.4	44.0	52.8	61.6	70.3	74.7	87.9	105.5	123.1	145.1	158.5
		H = TOTAL METERS HEAD OF WATER COLUMN [m]																			
3 MH	2	32.1		28.0	26.4	22.7	18.3	13.2													
	3	47.5		40.8	38.3	32.6	26.0	18.3													
	4	63.6		54.8	51.5	43.9	35.1	24.9													
	5	80.5		70.2	66.2	56.8	45.9	33.1													
	6	96.0		83.3	78.3	67.1	53.9	38.6													
	7	112.9		98.9	93.3	80.2	64.9	47.1													
5 MH	2	33.6			30.7	29.3	27.6	25.6	24.3	19.9	15.9										
	3	50.4			46.0	43.8	41.3	38.2	36.3	29.6	23.6										
	4	67.8			62.4	59.5	56.3	52.4	50.0	41.1	33.2										
	5	85.2			78.7	75.3	71.4	66.6	63.6	52.7	42.7										
	6	101.8			93.7	89.5	84.7	78.8	75.2	61.9	50.0										
	7	119.6			110.7	105.9	100.6	93.8	89.7	74.5	60.6										
9 MH	2	34.9							30.8	29.7	28.8	27.4	24.6	20.3	14.8	11.6					
	3	52.4							46.3	44.6	43.3	41.2	36.9	30.5	22.4	17.5					
	4	70.1							62.2	59.9	58.3	55.4	49.9	41.3	30.5	24.0					
	5	87.3							76.9	74.0	71.9	68.2	61.1	50.3	36.7	28.6					
15 MH	2	41.9										37.2	36.0	34.8	33.6	32.7	29.6	23.9	16.5		
	3	63.2										56.0	54.1	52.2	50.1	48.9	44.6	37.0	26.7		
	4	82.3										74.4	72.0	69.6	66.6	64.9	59.0	49.1	36.1		
20 MH	2	45.2											40.6	39.5	38.4	37.9	36.1	32.9	28.0	20.4	
	3	67.7											60.6	58.9	57.3	56.5	53.7	49.0	41.5	30.1	

3 MH - TECHNICAL DATA

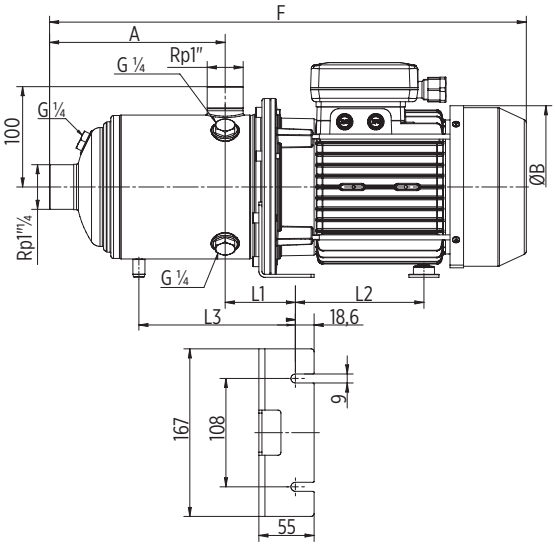
1 ~ ELECTRIC PUMP TECHNICAL DATA

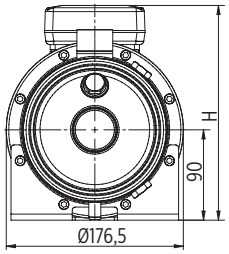
Pump model	Stages	Motor size	Motor nominal power		Input power	Capacitor 450 V	Input current [A]	Dimensions [mm]							Weight [kg]
			[kW]	[HP]	[kW]	[µf]	220-230 V	A	F	ØB	H	L1	L2	L3	
3 MH	2	71	0.55	0.75	0.74	16	3.6	103	361	144	207	70	101	-	11.2
	3	71	0.75	1	1.02	16	4.9	103	361	144	207	70	101	-	11.4
	4	71	0.9	1.2	1.29	30	6.0	127	385	144	207	70	101	-	13.4
	5	71	1.1	1.5	1.57	30	7.3	151	409	144	207	70	101	-	13.8
	6	80	1.5	2	1.99	30	9.9	175	475	162	214	70	128	-	17.8
	7	80	1.5	2	2.28	30	11.1	199	499	162	214	70	128	180	18.2

3 ~ ELECTRIC PUMP TECHNICAL DATA

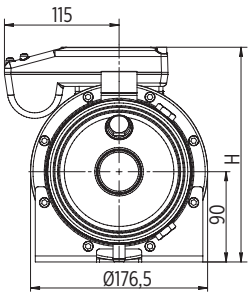
Pump model	Stages	Motor size	Motor nominal power		Input power	Input current [A]		Dimensions [mm]							Weight [kg]
			[kW]	[HP]	[kW]	220-230 V	380-400 V	A	F	ØB	H	L1	L2	L3	
3 MH	2	71	0.75	1	0.67	2.2	1.3	103	363	144	207	70	101	-	10.8
	3	71	0.75	1	0.95	2.9	1.7	103	363	144	207	70	101	-	11
	4	71	1.1	1.5	1.26	3.9	2.3	127	387	144	207	70	101	-	12.2
	5	80	1.5	2	1.62	5.1	2.9	151	448	162	214	70	128	-	16
	6	80	1.5	2	1.91	5.8	3.4	175	472	162	214	70	128	-	16.4
	7	90	2.2	2.7	2.25	6.7	3.9	199	543	179	221	70	172	180	22.4

DIMENSIONAL DRAWINGS





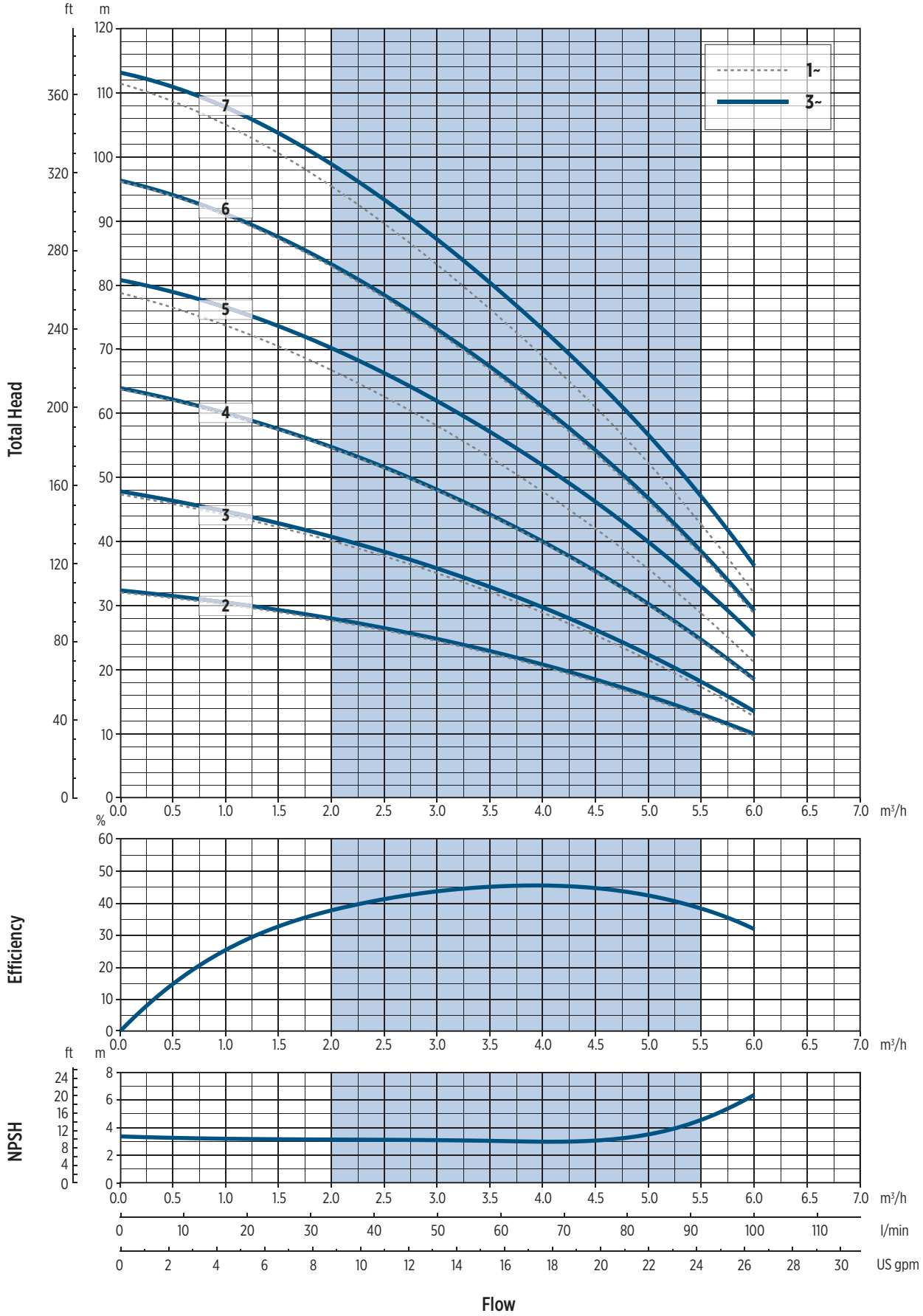
3~ VERSION



1~ VERSION

001300031T 05/2017

3 MH – PERFORMANCE CURVES AT 60 Hz



5 MH - TECHNICAL DATA

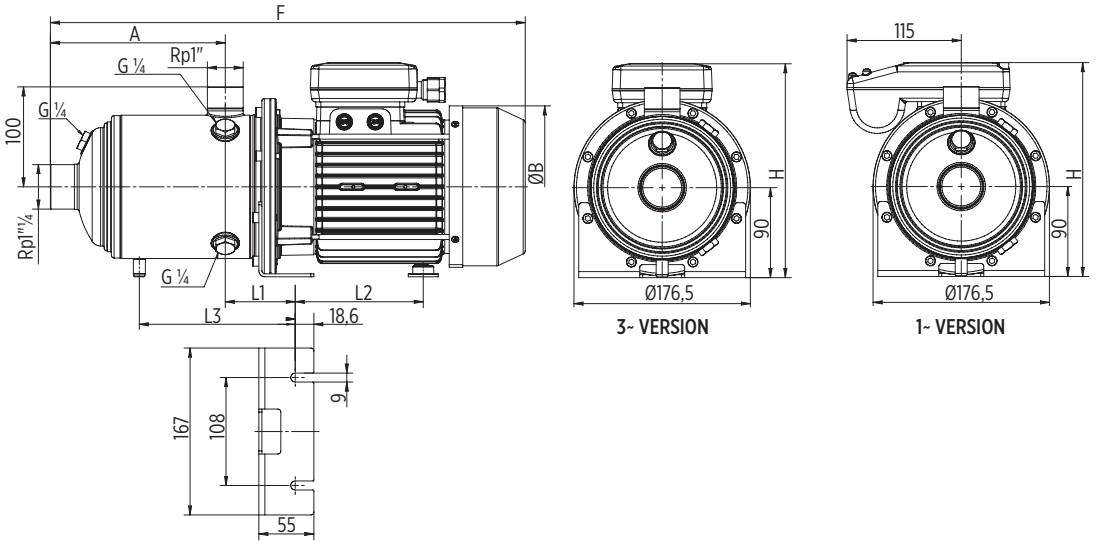
1 ~ ELECTRIC PUMP TECHNICAL DATA

Pump model	Stages	Motor size	Motor nominal power		Input power	Capacitor 450 V	Input current [A]	Dimensions [mm]							Weight [kg]
			[kW]	[HP]	[kW]	[µf]	220-230 V	A	F	ØB	H	L1	L2	L3	
5 MH	2	71	0.75	1	0.96	16	4.6	103	361	144	207	70	101	-	11.2
	3	71	0.9	1.2	1.34	30	6.3	103	361	144	207	70	101	-	12.8
	4	80	1.1	1.5	1.88	30	9.5	127	427	162	214	70	128	-	16.6
	5	80	1.5	2	2.27	30	11.1	151	451	162	214	70	128	-	17.2

3 ~ ELECTRIC PUMP TECHNICAL DATA

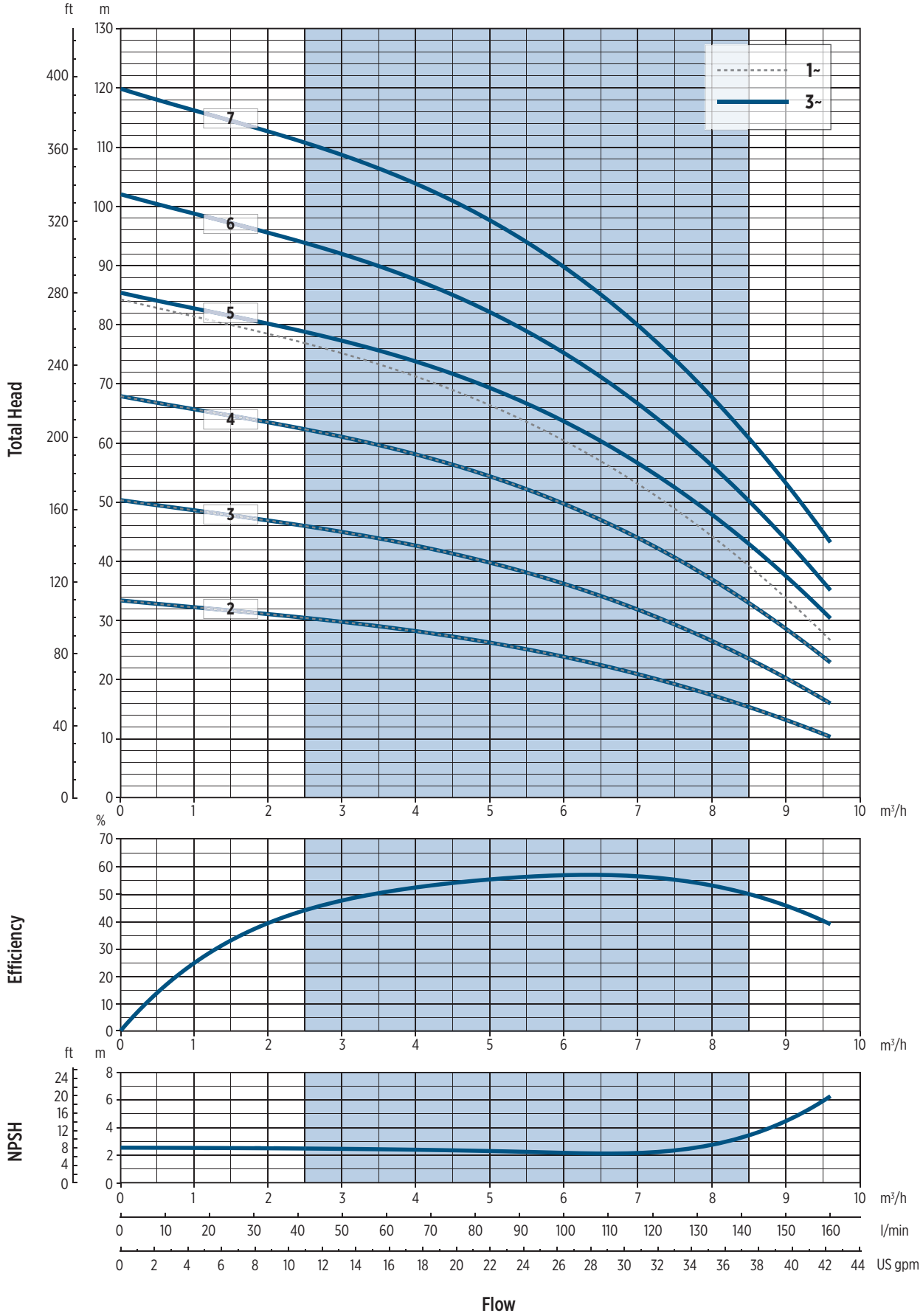
Pump model	Stages	Motor size	Motor nominal power		Input power	Input current [A]		Dimensions [mm]							Weight [kg]
			[kW]	[HP]	[kW]	220-230 V	380-400 V	A	F	ØB	H	L1	L2	L3	
5 MH	2	71	0.75	1	0.89	2.8	1.6	103	363	144	207	70	101	-	10.8
	3	71	1.1	1.5	1.32	4.0	2.3	103	363	144	207	70	101	-	11.6
	4	80	1.5	2	1.79	5.5	3.2	127	424	162	214	70	128	-	15.4
	5	90	2.2	2.7	2.24	6.7	3.8	151	495	179	221	70	172	-	21.2
	6	90	2.2	2.7	2.65	7.8	4.5	175	519	179	221	70	172	-	21.8
	7	90	3	4	3.11	8.9	5.1	199	578	179	221	70	172	180	25.2

DIMENSIONAL DRAWINGS



0013003IT 05/2017

5 MH – PERFORMANCE CURVES AT 60 Hz



9 MH - TECHNICAL DATA

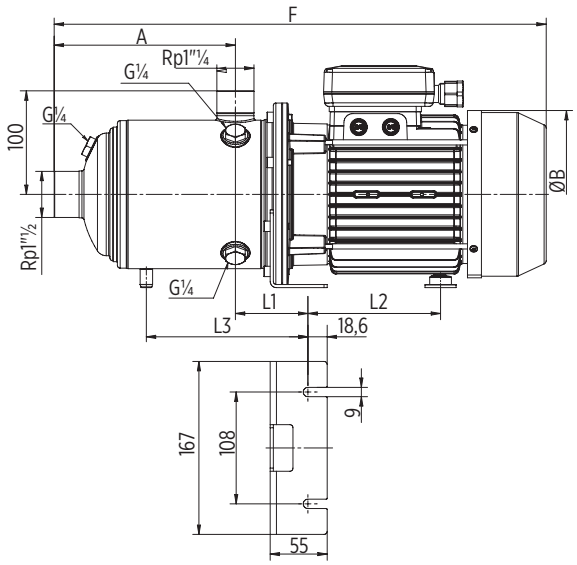
1 ~ ELECTRIC PUMP TECHNICAL DATA

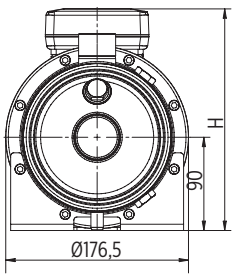
Pump model	Stages	Motor size	Motor nominal power		Input power	Capacitor 450 V	Input current [A]	Dimensions [mm]							Weight [kg]
			[kW]	[HP]	[kW]	[µf]	220-230 V	A	F	ØB	H	L1	L2	L3	
9 MH	2	71	1.1	1.5	1.52	30	7.1	118	380	144	207	74	101	-	13
	3	80	1.5	2	2.34	30	11.4	118	422	162	214	74	128	-	16.4

3 ~ ELECTRIC PUMP TECHNICAL DATA

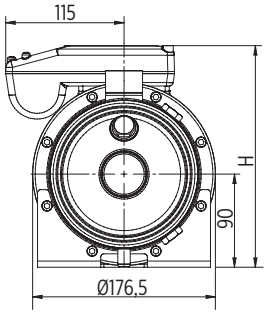
Pump model	Stages	Motor size	Motor nominal power		Input power	Input current [A]		Dimensions [mm]							Weight [kg]
			[kW]	[HP]	[kW]	220-230 V	380-400 V	A	F	ØB	H	L1	L2	L3	
9 MH	2	80	1.5	2	1.56	4.9	2.8	118	419	162	214	74	128	-	15
	3	90	2.2	2.7	2.31	6.9	4.0	118	466	179	221	74	172	-	20.4
	4	90	3	4	3.07	8.8	5.1	148	531	179	221	74	172	-	24
	5	90	3	4	3.77	10.9	6.3	178	561	179	221	74	172	-	24.6

DIMENSIONAL DRAWINGS





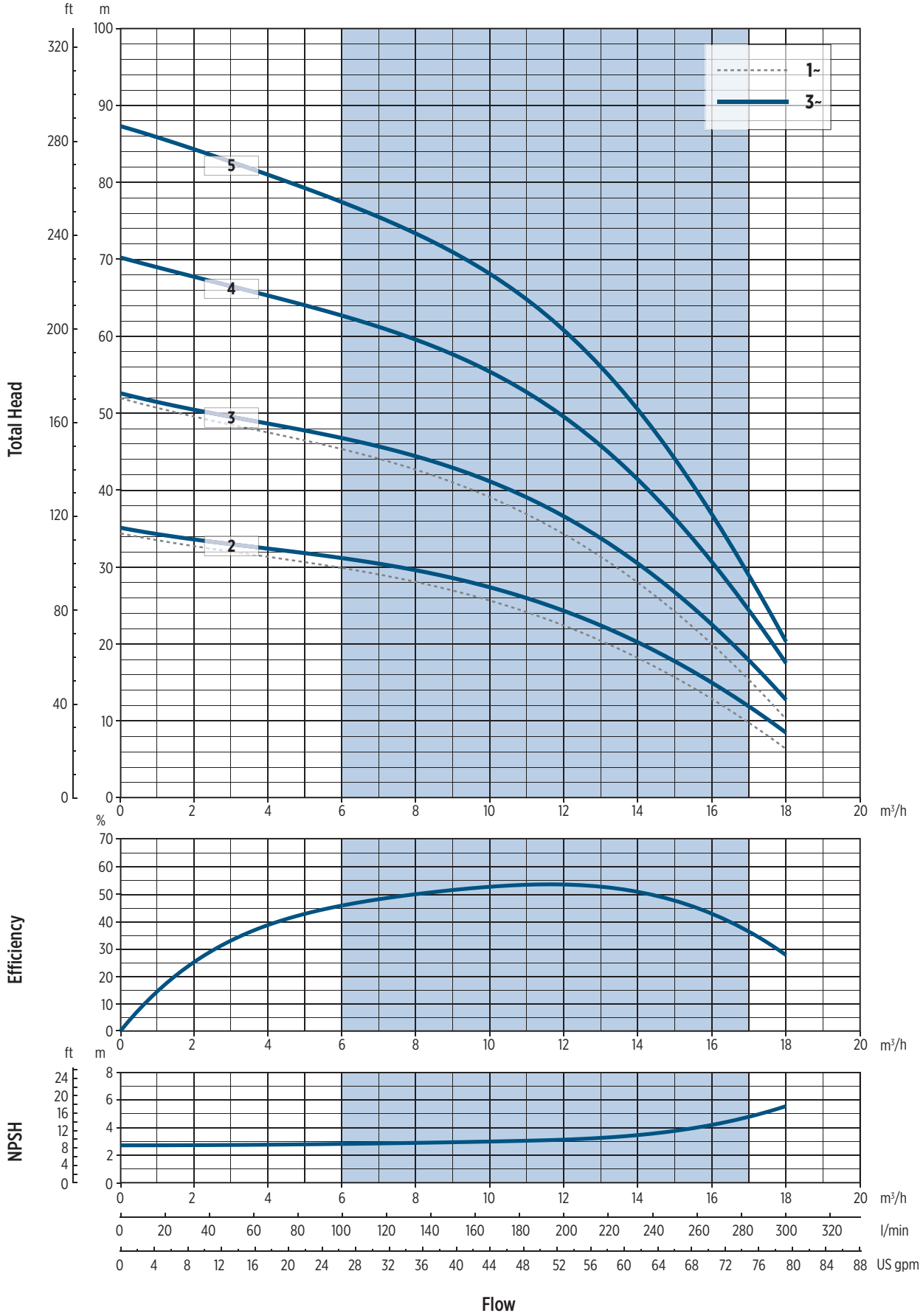
3~ VERSION



1~ VERSION

0013004IT 05/2014

9 MH – PERFORMANCE CURVES AT 60 HZ



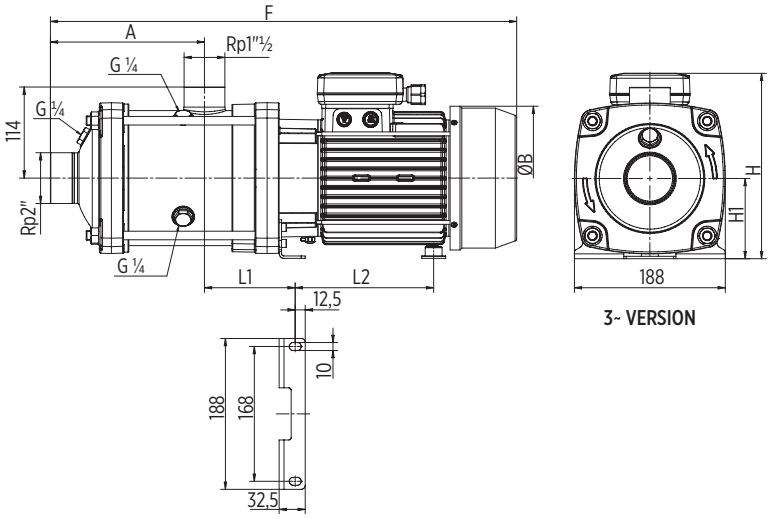
The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

15 MH - TECHNICAL DATA

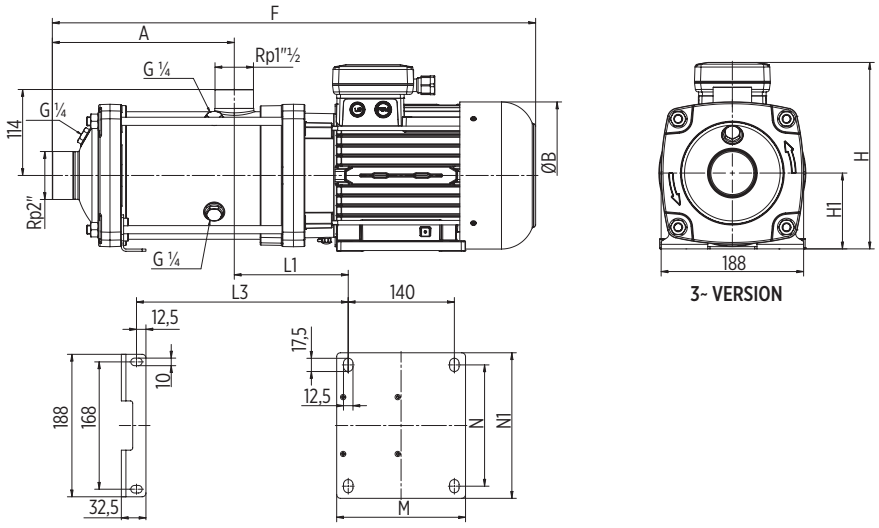
3 ~ ELECTRIC PUMP TECHNICAL DATA

Pump model	Stages	Motor size	Motor nominal power		Input power	Input current [A]		Dimensions [mm]											Weight [kg]
			[kW]	[HP]	[kW]	220-230 V	380-400 V	A	F	ØB	H	H1	L1	L2	L3	M	N	N1	
15 MH	2	90	3	4	2.88	9.0	5.2	144	567	179	231	100	113	173	-	-	-	-	27
	3	100	4	5.5	4.25	12.7	7.3	144	574	194	246	100	150	-	279	170	160	192	34.4
	4	112	5.5	7.5	5.66	17.0	9.8	192	636	218	263	112	152	-	329	180	190	220	43.6

DIMENSIONAL DRAWINGS

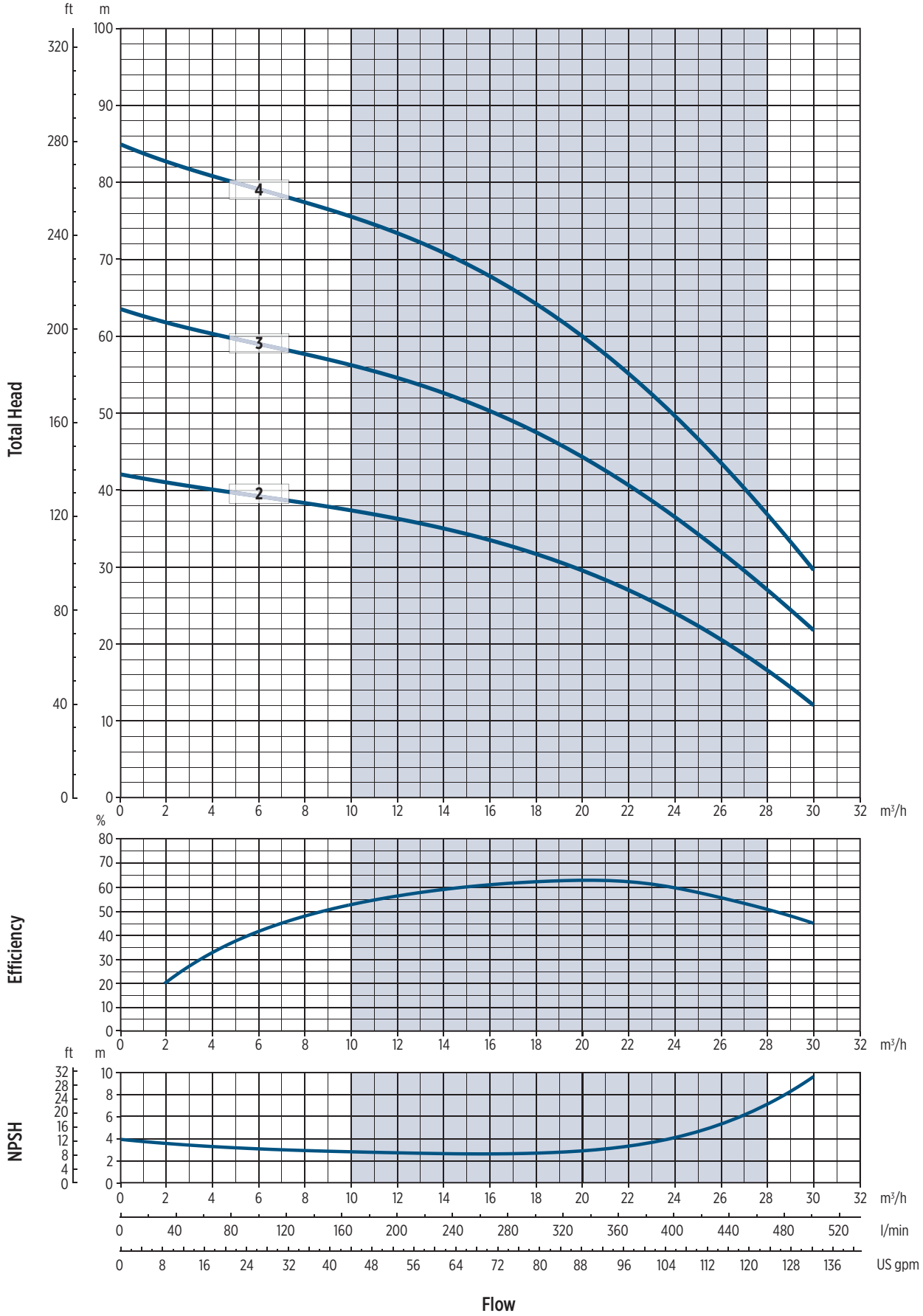


00130005ITA 09/2023



00130006ITA 05/2017

15 MH – PERFORMANCE CURVES AT 60 Hz



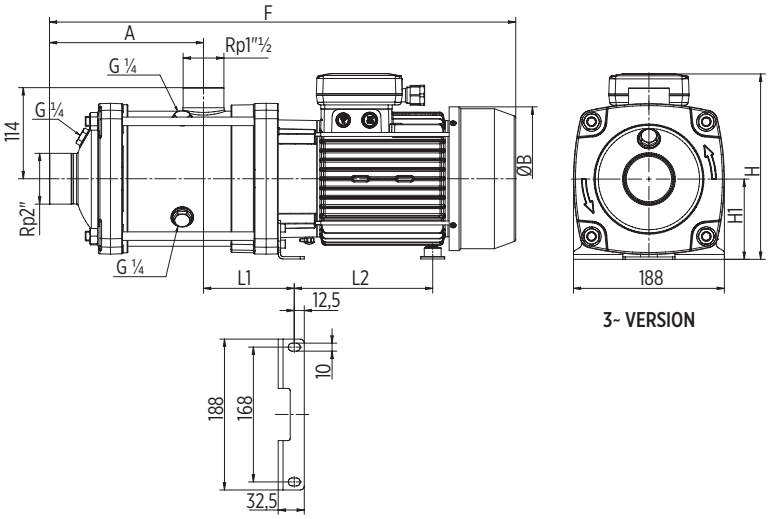
The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

20 MH - TECHNICAL DATA

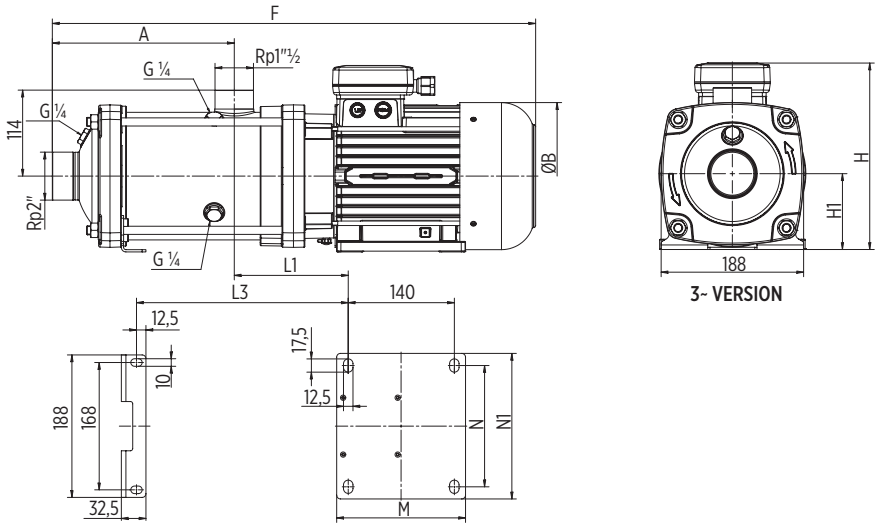
3 ~ ELECTRIC PUMP TECHNICAL DATA

Pump model	Stages	Motor size	Motor nominal power		Input power	Input current [A]		Dimensions [mm]										Weight [kg]
			[kW]	[HP]	[kW]	220-230 V	380-400 V	A	F	ØB	H	H1	L1	L2	L3	M	N	N1	
20 MH	2	100	4	5.5	3.93	11.9	6.9	144	574	194	246	100	150	-	231	170	160	192	34.2
	3	112	5.5	7.5	5.77	17.5	10.1	144	588	218	263	112	152	-	281	180	190	220	42.2

DIMENSIONAL DRAWINGS

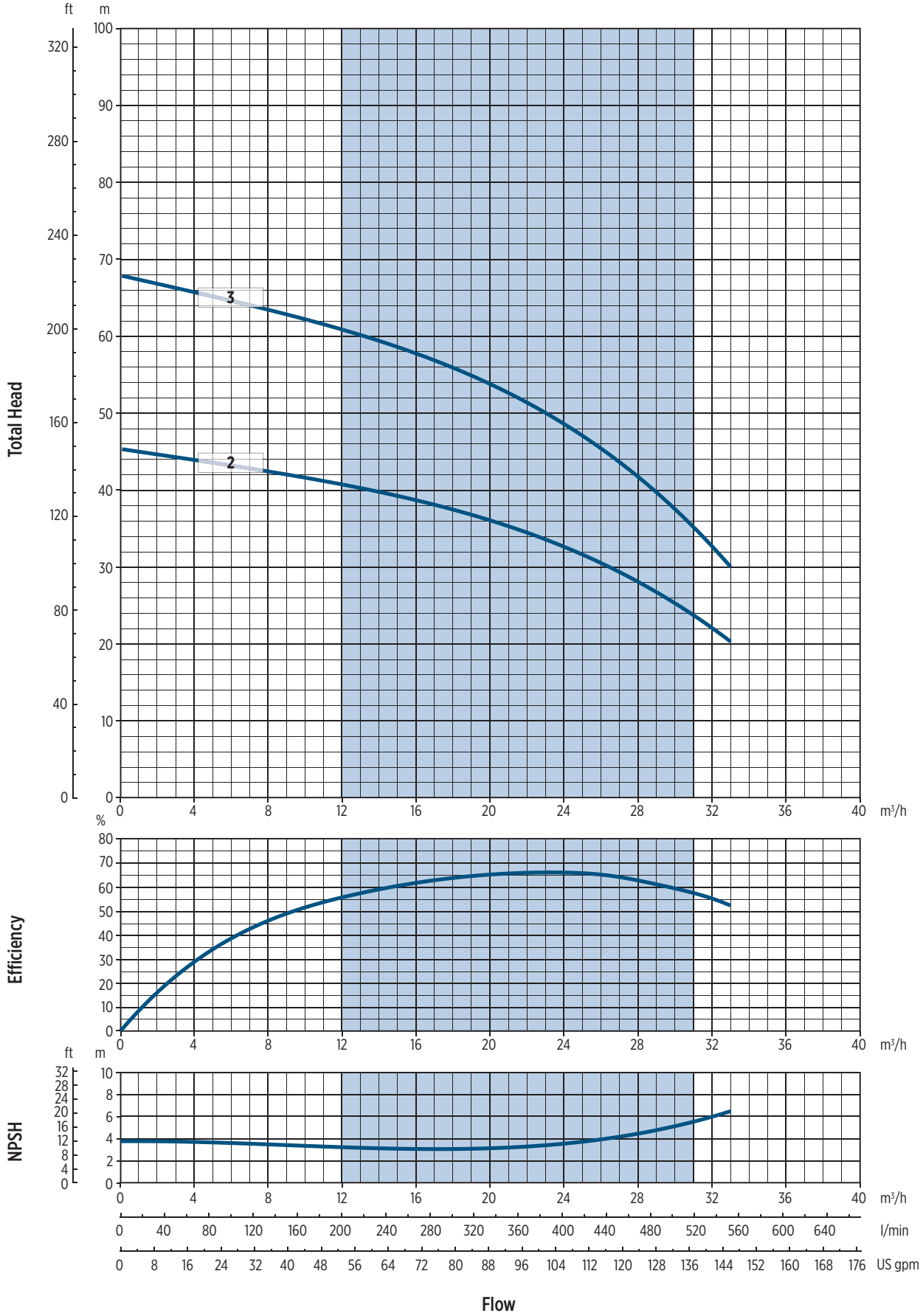


3- VERSION



3- VERSION

20 MH - PERFORMANCE CURVES AT 60 Hz



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

CATALOG REVISION CHANGE NOTICE

Rev. No.	Changes	Page
01	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
	“Parts in contact with liquid” table updated.	10-13
	“Technical Data” drawings updated.	22, 24
	“MHsp Series - 3-5 50 Hz Self-Priming Horizontal Pumps” section removed.	26

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