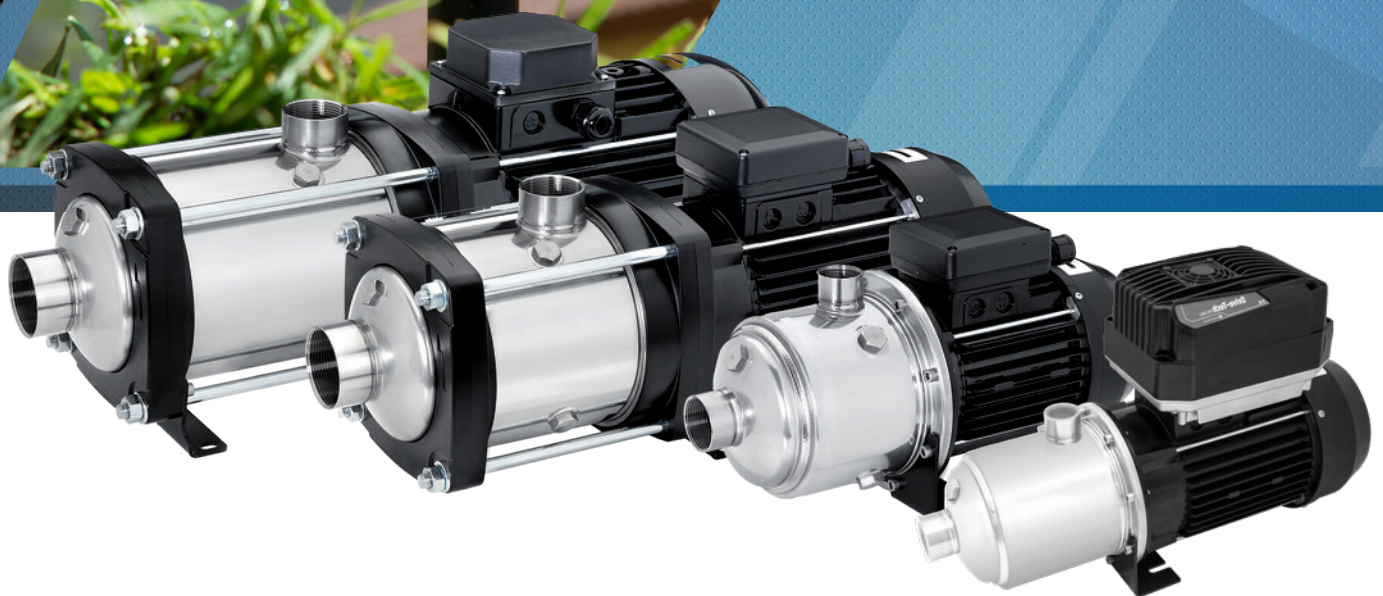




# HORIZONTAL MULTISTAGE PUMPS 60 HZ

EH, EHsp (SELF-PRIMING), EH DTm (WITH DRIVE-TECH<sub>MINI</sub>) SERIES





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NOTE: Franklin Electric S.r.l. reserves the right to amend specification without prior notice

For the most up-to-date product information, visit [franklinwater.eu](http://franklinwater.eu).

# STAINLESS STEEL HORIZONTAL MULTISTAGE PUMPS

## FEATURES AND BENEFITS

### APPLICATIONS



Water Distribution  
Pressure Boosting



Circulation of hot+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 (EH 15-20)
- Materials WRAS and ACS certificated
- Flexible application base plate (only for EH and EH DTm)
- 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: EH 3-5-9, EHsp 3-5; EH DTm 3-5-9
- Mechanical seal Type E1 = Carbon graphite / Silicon carbide / EPDM: EH 15-20

### SUPERIOR EFFICIENCY AND PERFORMANCE

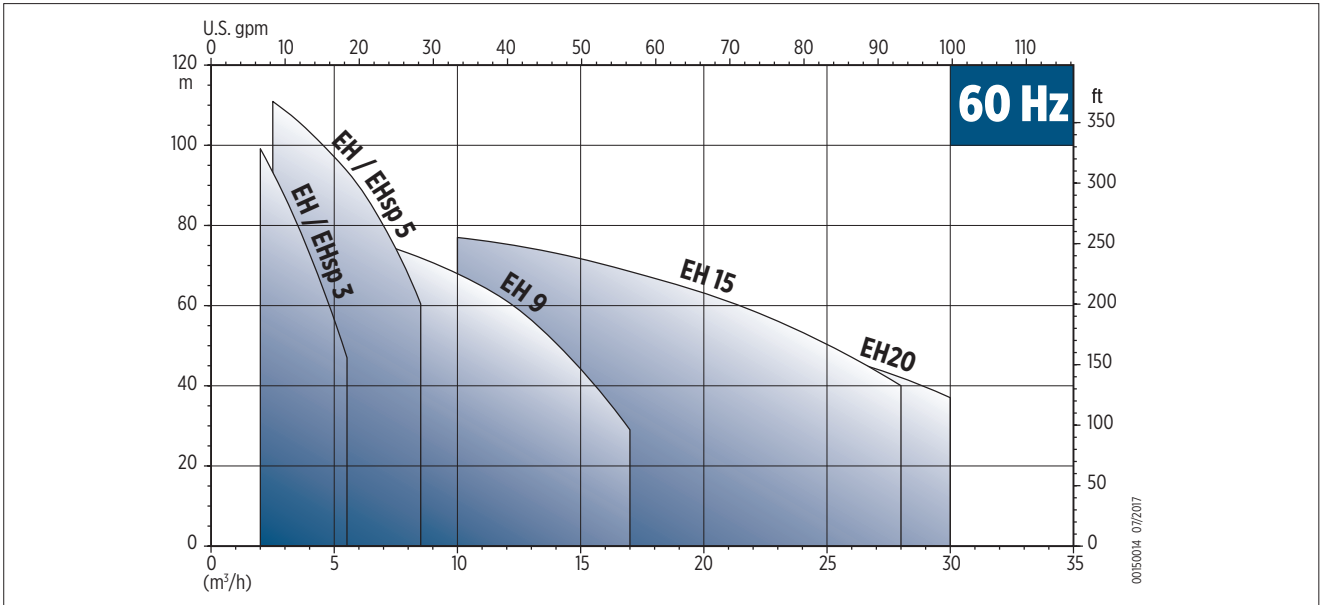
- Flow: up to 30 m<sup>3</sup>/h
- Head: up to 111 m
- Maximum working pressure 10 Bar
- Max. altitude at nominal load: 1000 m
- Maximum allowable amount of sand: 50 g/m<sup>3</sup> (EH)
- Maximum ambient temperature: 40 °C
- The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012,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

### CONSTRUCTION OPTIONS

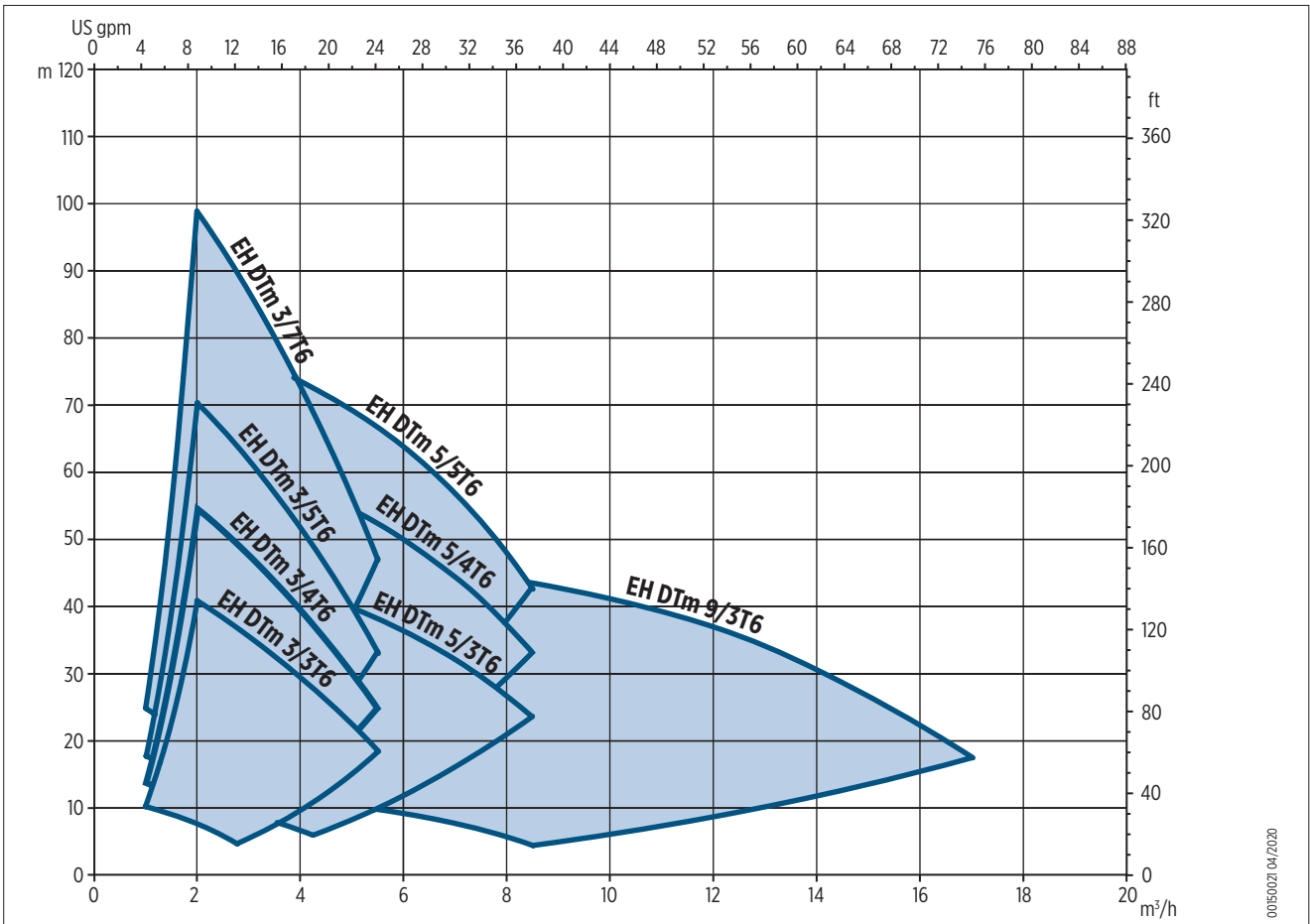
- Special mechanical seal (EH)
- Inlet and outlet connections NPT threaded

# FAMILY CURVES

## EH-EHsp



## EH DTm



## PUMP IDENTIFICATION CODE

15 / 3 I 022 T 5 E1

- Three-phase motor efficiency (IE3)
- Pumps speciality - "empty" (standard configuration)
- Mechanical seal type
- Frequency: 5 (50 Hz); 6 (60 Hz)
- M (Single-phase); T (Three-phase)
- Motor power kW x 10
- Pump material: I (AISI 304); N(AISI 316)
- Number of stages
- Nominal flow rate in m<sup>3</sup>/h
- Pump model: EH (standard)  
EHsp (self-priming)  
EH DTm (with Drive-Tech MINI)

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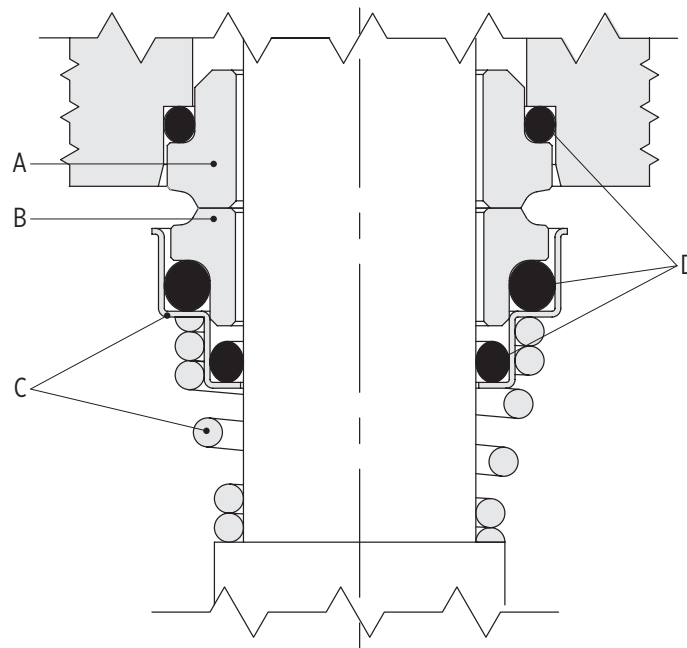
## GENERAL FEATURES

Model		3	5	9	15	20
Nominal flow [m <sup>3</sup> /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
	Version with Drive-tech <sub>MINI</sub>	85	85	85	-	-
	Self-priming version	35	35	-	-	-
Max. D hydraulic [%]	Standard version	42	56.8	61	67.7	65.7
	Version with Drive-tech <sub>MINI</sub>	42	56.8	61	-	-
	Self-priming version	40.5	53.5	-	-	-
Range [m <sup>3</sup> /h]	Standard version	2.0 - 5.5	2.5 - 8.5	6.0 - 17	10 - 28	12 - 33
	Version with Drive-tech <sub>MINI</sub>	1.0 - 5.5	1.2 - 8.5	3 - 17	-	-
Pressione max. [bar]	Standard version	10	10	10	10	10
Material versions	I (AISI 304)	•	•	•	•	•
	N (AISI 316L)	•	•	•	•	•
Hydraulic connection (dimensions)	Rp (inlet - outlet) - standard	1"¼ - 1"	1"¼ - 1"	1"½ - 1"¼	2" - 1"½	2" - 1"½
	NPT (inlet - outlet) - optional	1"¼ - 1"	1"¼ - 1"	1"½ - 1"¼	2" - 1"½	2" - 1"½

"-" = not available  
 • = available



# MECHANICAL SEAL SPECIFICATIONS



00130002\_05/2017

## STANDARD VERSION

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

## AVAILABLE ON REQUEST (ONLY FOR EH)

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 pole
- 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 <sub>N</sub> [kW]	Motor size	INPUT CURRENT I <sub>N</sub> [A]	Capacitor		230 V 60 Hz						
			230 V	μF	[V]	η <sub>N</sub> [min <sup>-1</sup> ]	I <sub>s</sub> /I <sub>N</sub>	η %	cos φ	T <sub>N</sub> [Nm]	T <sub>s</sub> /T <sub>N</sub>
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 <sub>N</sub> [kW]	Rendimento / Efficiency η <sub>N</sub> %						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	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 <sub>N</sub> [kW]	Motor size	N. of poles	f <sub>N</sub> [Hz]	400 V 60 Hz				
				cos φ	I <sub>s</sub> /I <sub>N</sub>	T <sub>N</sub> [Nm]	T <sub>s</sub> /T <sub>N</sub>	T <sub>M</sub> /T <sub>N</sub>
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

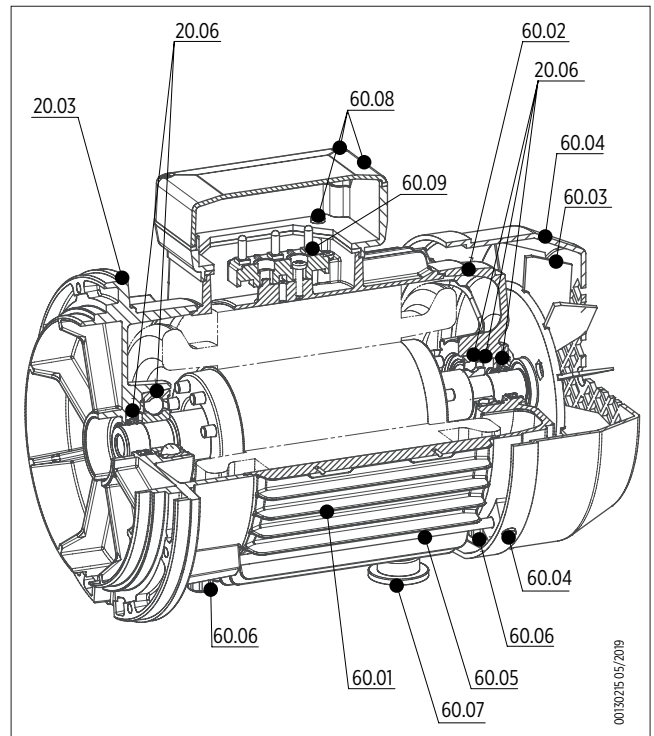


P <sub>N</sub> [kW]	VOLTAGE U <sub>N</sub>				n <sub>N</sub> [min <sup>-1</sup> ]	Motor operating conditions		
	Δ 230 V	Y 400 V	Δ 400 V	Y 690 V		Altitude Above Sea Level [m]	T. amb min/max [°C]	ATEX
	I <sub>N</sub> [A]							
0.75	2.8	1.6	-	-	3440	≤ 1000	-15 / +40	No
1.1	4.0	2.3	-	-	3440			
1.5	5.4	3.1	-	-	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.	Part 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

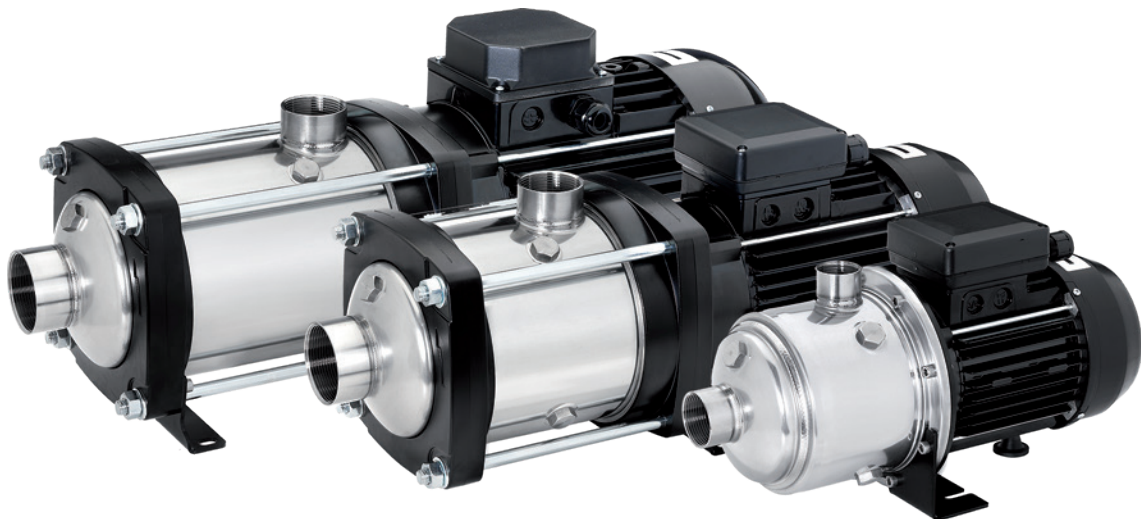


## ErP REGULATION

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

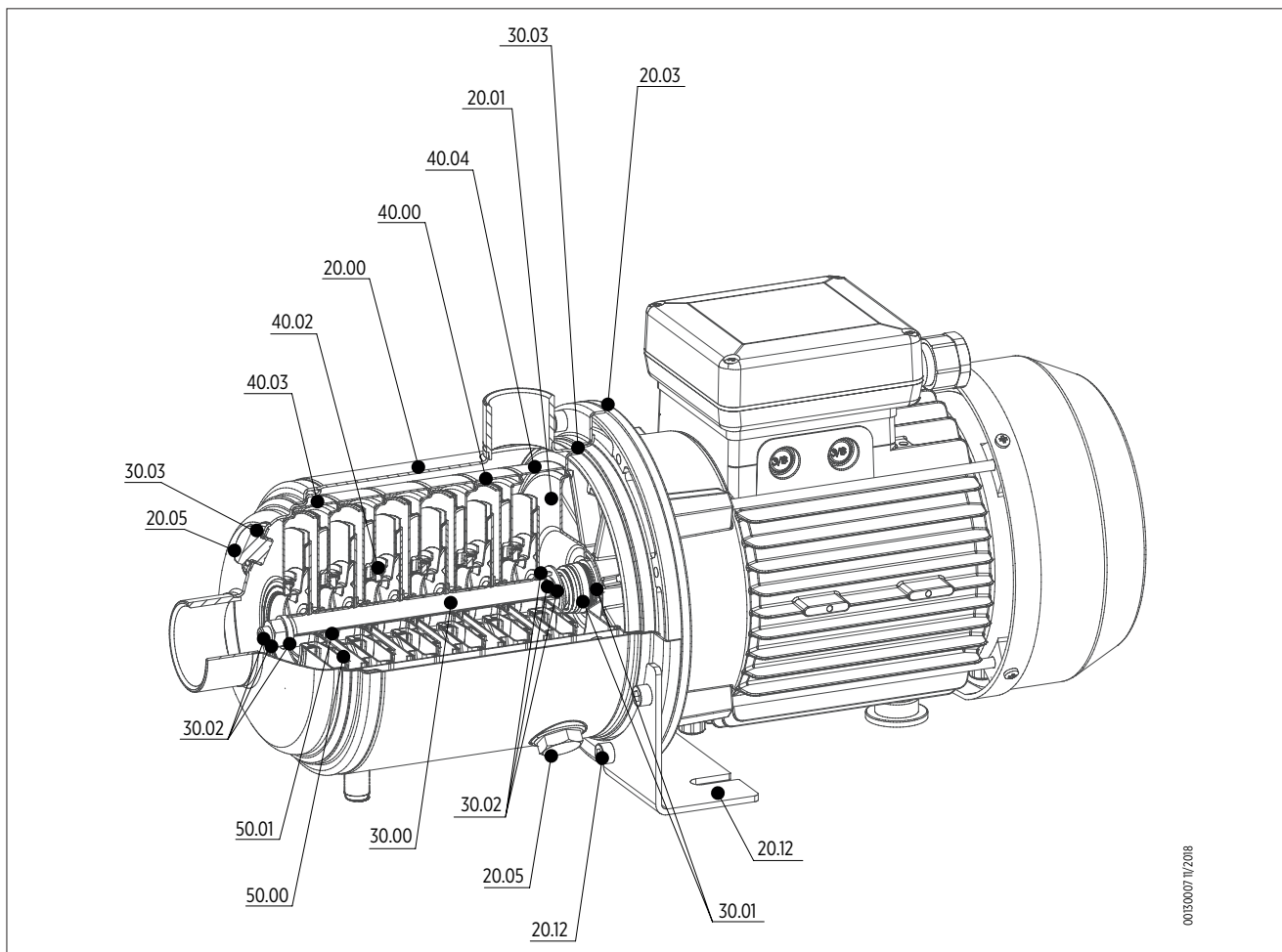
1. nominal efficiency ( $\eta$ ) at the full, 75 % and 50 % rated load and voltage (UN): see motor nameplate or the catalogue (<http://franklinwater.eu/products/>);
2. efficiency level: see motor nameplate or the catalogue;
3. the year of manufacture: see motor nameplate
4. manufacturer's name or trade 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. ---

**EH Series**  
**Horizontal multistage pumps**  
**3-5-9-15-20**  
**60 Hz**



# SPARE PARTS AND MATERIALS

EH 3-5-9



## PARTS IN CONTACT WITH LIQUID

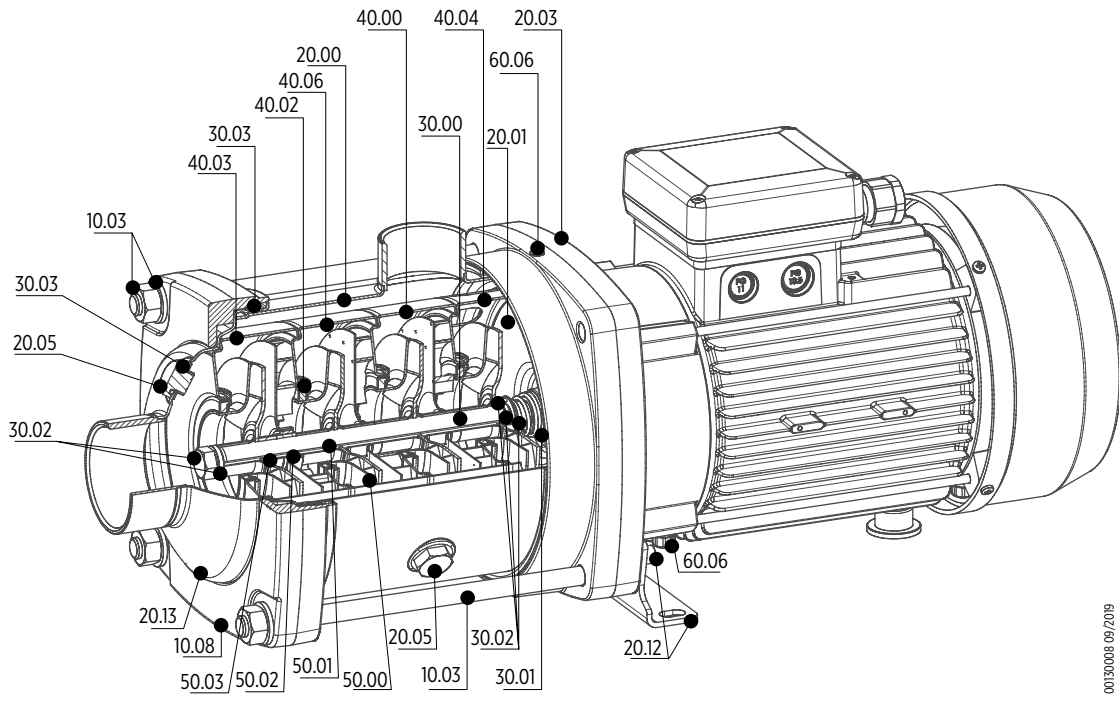
Ref. No.	Part description	Material	Standard			
			I version		N version	
			ASTM/AISI	DIN/EN	ASTM/AISI	DIN/EN
20.00	Outer case	Stainless steel	AISI 304	14.301	AISI 316 L	14.404
20.01	Mechanical seal housing	Stainless steel	AISI 304	14.301	AISI 316 L	14.404
20.05	Filling plug	Stainless steel	AISI 304	14.301	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 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
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 LIST

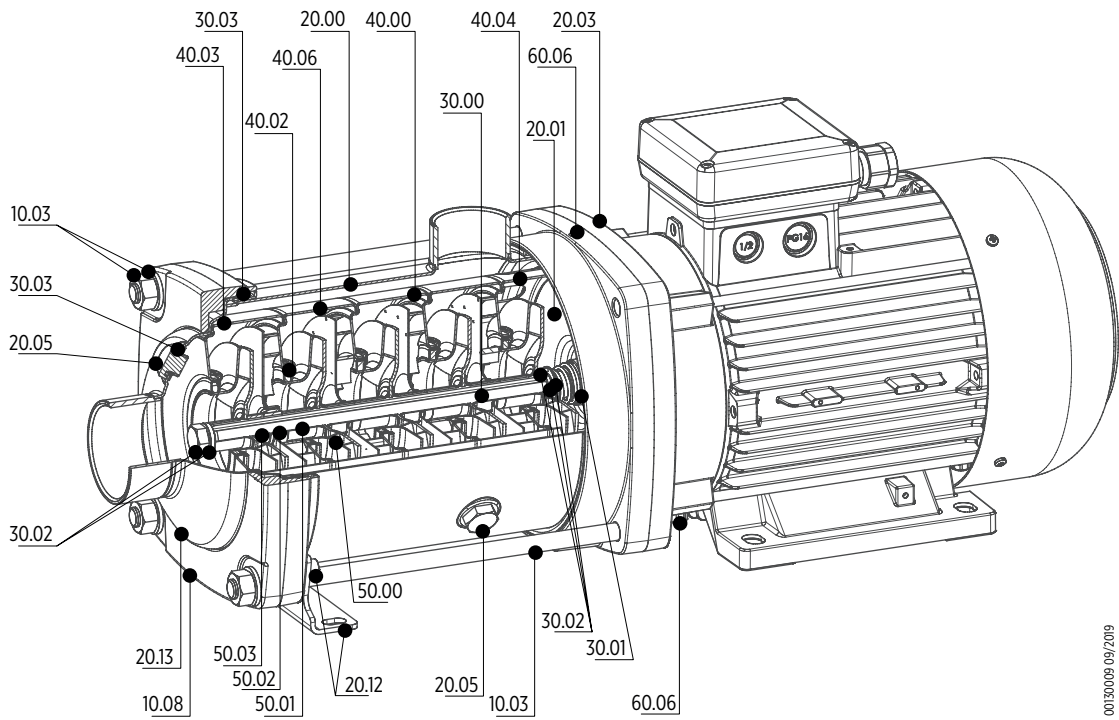
Ref. No.	Part description
20.00	Outer case
20.01	Mechanical seal housing
20.03	Motor bracket
20.05	Filling plug
20.12	Support foot and screws
30.00	Pump shaft
30.01	Kit mechanical seal
30.02	Mechanical seal fastening kit

Ref. No.	Part 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

EH 15-20



00130008 09/2019



00130009 09/2019



## PARTS IN CONTACT WITH LIQUID

Ref. No.	Part 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, Tungsten carbide (WC)	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	Tungsten carbide (WC)				
50.03	Intermediary sleeve spacer	Stainless steel	AISI 304	14.301	AISI 316 L	14.404

## SPARE PARTS LIST

Ref. No.	Part 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.	Part 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	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
	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]																				
EH 3/26	31.8		27.7	26.1	22.3	17.9	12.8													
EH 3/36	47.0		40.1	37.5	31.8	25.1	17.5													
EH 3/46	63.3		54.6	51.3	43.7	34.9	24.7													
EH 3/56	78.4		66.8	62.4	52.8	41.7	29.0													
EH 3/66	95.8		82.9	77.9	66.6	53.3	38.0													
EH 3/76	111.1		95.4	89.4	76.1	60.5	42.7													
EH 5/26	33.3			30.4	28.8	27.1	25.1	23.8	19.3	15.2										
EH 5/36	50.2			45.9	43.6	41.1	38.0	36.2	29.4	23.4										
EH 5/46	67.7			62.2	59.3	56.1	52.1	49.7	40.8	32.8										
EH 5/56	84.1			76.8	72.9	68.7	63.5	60.4	49.0	39.0										
EH 9/26	34.2							29.5	28.3	27.3	25.7	22.6	18.2	12.6	9.5					
EH 9/36	51.8							44.8	42.9	41.6	39.2	34.6	28.0	19.7	14.9					

## 3 ~ HYDRAULIC PERFORMANCE

Pump model	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
	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]																				
EH 3/2T6	32.1		28.0	26.4	22.7	18.3	13.2													
EH 3/3T6	47.5		40.8	38.3	32.6	26.0	18.3													
EH 3/4T6	63.6		54.8	51.5	43.9	35.1	24.9													
EH 3/5T6	80.5		70.2	66.2	56.8	45.9	33.1													
EH 3/6T6	96.0		83.3	78.3	67.1	53.9	38.6													
EH 3/7T6	112.9		98.9	93.3	80.2	64.9	47.1													
EH 5/2T6	33.6			30.7	29.3	27.6	25.6	24.3	19.9	15.9										
EH 5/3T6	50.4			46.0	43.8	41.3	38.2	36.3	29.6	23.6										
EH 5/4T6	67.8			62.4	59.5	56.3	52.4	50.0	41.1	33.2										
EH 5/5T6	85.2			78.7	75.3	71.4	66.6	63.6	52.7	42.7										
EH 5/T66	101.8			93.7	89.5	84.7	78.8	75.2	61.9	50.0										
EH 5/7T6	119.6			110.7	105.9	100.6	93.8	89.7	74.5	60.6										
EH 9/2T6	34.9							30.8	29.7	28.8	27.4	24.6	20.3	14.8	11.6					
EH 9/3T6	52.4							46.3	44.6	43.3	41.2	36.9	30.5	22.4	17.5					
EH 9/4T6	70.1							62.2	59.9	58.3	55.4	49.9	41.3	30.5	24.0					
EH 9/5T6	87.3							76.9	74.0	71.9	68.2	61.1	50.3	36.7	28.6					
EH 15/2T6	41.9										37.2	36.0	34.8	33.6	32.7	29.6	23.9	16.5		
EH 15/3T6	63.2										56.0	54.1	52.2	50.1	48.9	44.6	37.0	26.7		
EH 15/4T6	82.3										74.4	72.0	69.6	66.6	64.9	59.0	49.1	36.1		
EH 20/2T6	45.2											40.6	39.5	38.4	37.9	36.1	32.9	28.0	20.4	
EH 20/3T6	67.7											60.6	58.9	57.3	56.5	53.7	49.0	41.5	30.1	

# EH 3 - TECHNICAL DATA

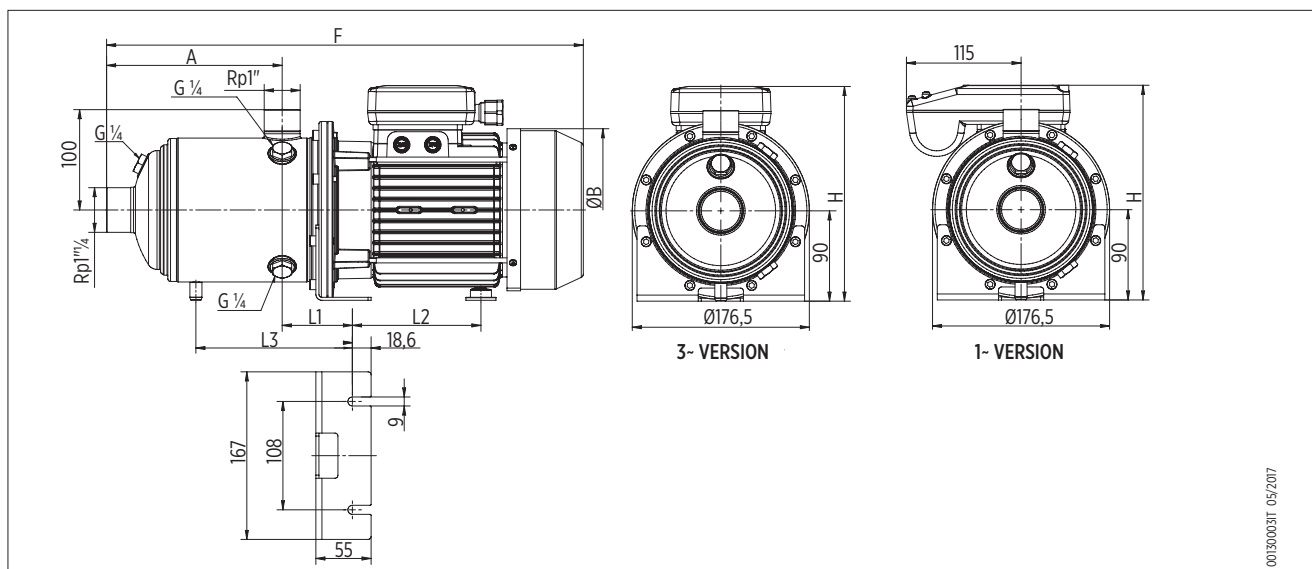
## 1 ~ ELECTRIC PUMP TECHNICAL DATA

Pump model	MOTOR SIZE	MOTOR NOMINAL POWER		INPUT POWER [kW]	Capacitor 450 V [µf]	INPUT CURRENT [A] 220-230 V	Dimensions [mm]						Weight [Kg]	
		[kW]	[HP]				A	F	ØB	H	L1	L2		L3
EH 3/26	71	0.55	0.75	0.74	16	3.6	103	361	144	207	70	101	-	11.2
EH 3/36	71	0.75	1	1.02	16	4.9	103	361	144	207	70	101	-	11.4
EH 3/46	71	0.9	1.2	1.29	30	6.0	127	385	144	207	70	101	-	13.4
EH 3/56	71	1.1	1.5	1.57	30	7.3	151	409	144	207	70	101	-	13.8
EH 3/66	80	1.5	2	1.99	30	9.9	175	475	162	214	70	128	-	17.8
EH 3/76	80	1.5	2	2.28	30	11.1	199	499	162	214	70	128	180	18.2

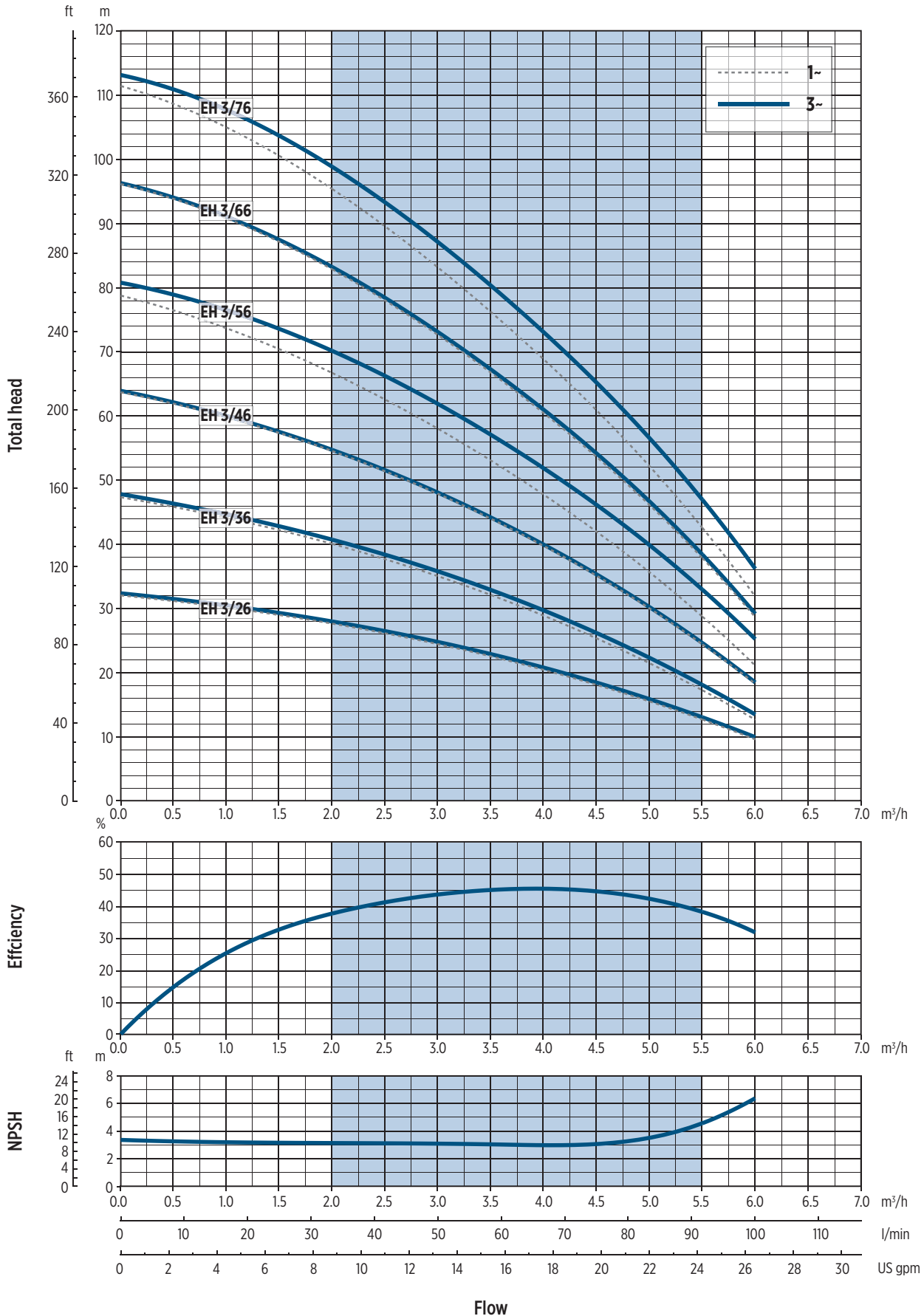
## 3 ~ ELECTRIC PUMP TECHNICAL DATA

Pump model	MOTOR SIZE	MOTOR NOMINAL POWER		INPUT POWER [kW]	INPUT CURRENT [A]		Dimensions [mm]						Weight [Kg]	
		[kW]	[HP]		220-230 V	380-400 V	A	F	ØB	H	L1	L2		L3
EH 3/2T6	71	0.75	1	0.67	2.2	1.3	103	363	144	207	70	101	-	10.8
EH 3/3T6	71	0.75	1	0.95	2.9	1.7	103	363	144	207	70	101	-	11
EH 3/4T6	71	1.1	1.5	1.26	3.9	2.3	127	387	144	207	70	101	-	12.2
EH 3/5T6	80	1.5	2	1.62	5.1	2.9	151	448	162	214	70	128	-	16
EH 3/6T6	80	1.5	2	1.91	5.8	3.4	175	472	162	214	70	128	-	16.4
EH 3/7T6	90	2.2	2.7	2.25	6.7	3.9	199	543	179	221	70	172	180	22.4

## DIMENSIONAL DRAWINGS



# EH 3 - PERFORMANCE CURVES AT 60 HZ



0020051 01/2017

# EH 5 - TECHNICAL DATA

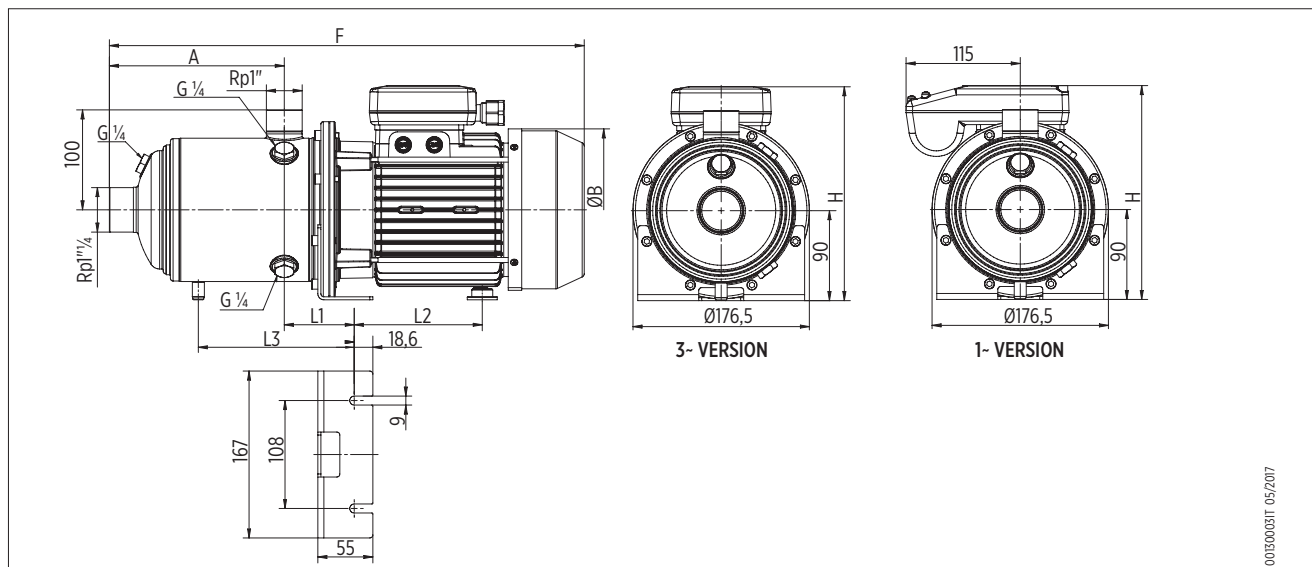
## 1 ~ ELECTRIC PUMP TECHNICAL DATA

Pump model	MOTOR SIZE	MOTOR NOMINAL POWER		INPUT POWER [kW]	Capacitor 450 V [µf]	INPUT CURRENT [A] 220-230 V	Dimensions [mm]						Weight [Kg]	
		[kW]	[HP]				A	F	ØB	H	L1	L2		L3
EH 5/26	71	0.75	1	0.96	16	4.6	103	361	144	207	70	101	-	11.2
EH 5/36	71	0.9	1.2	1.34	30	6.3	103	361	144	207	70	101	-	12.8
EH 5/46	80	1.3	1.8	1.88	30	9.5	127	427	162	214	70	128	-	16.6
EH 5/56	80	1.5	2	2.27	30	11.1	151	451	162	214	70	128	-	17.2

## 3 ~ ELECTRIC PUMP TECHNICAL DATA

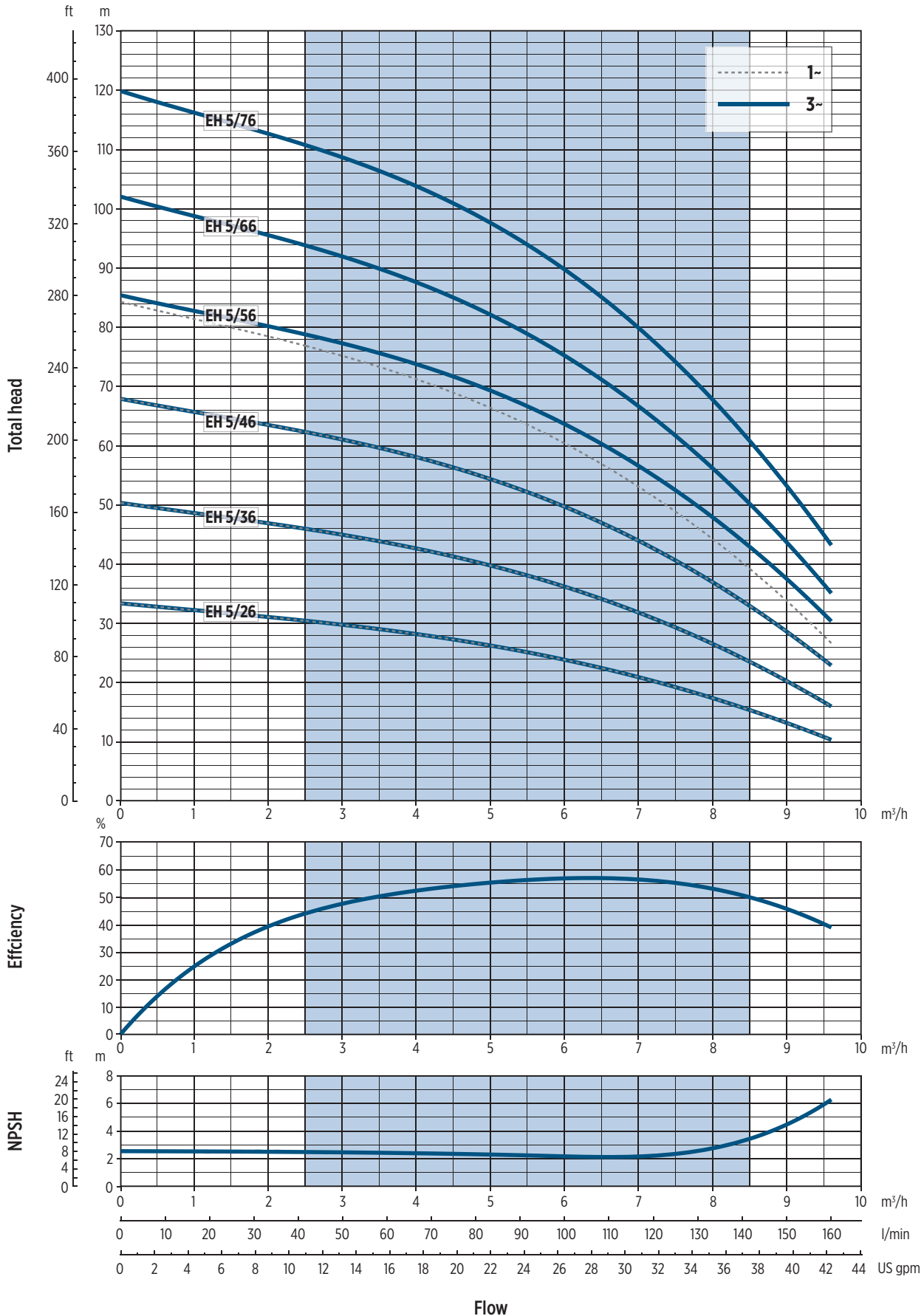
Pump model	MOTOR SIZE	MOTOR NOMINAL POWER		INPUT POWER [kW]	INPUT CURRENT [A]		Dimensions [mm]						Weight [Kg]	
		[kW]	[HP]		220-230 V	380-400 V	A	F	ØB	H	L1	L2		L3
EH 5/2T6	71	0.75	1	0.89	2.8	1.6	103	363	144	207	70	101	-	10.8
EH 5/3T6	71	1.1	1.5	1.32	4.0	2.3	103	363	144	207	70	101	-	11.6
EH 5/4T6	80	1.5	2	1.79	5.5	3.2	127	424	162	214	70	128	-	15.4
EH 5/5T6	90	2.2	2.7	2.24	6.7	3.8	151	495	179	221	70	172	-	21.2
EH 5/6T6	90	2.2	2.7	2.65	7.8	4.5	175	519	179	221	70	172	-	21.8
EH 5/7T6	90	3	4	3.11	8.9	5.1	199	578	179	221	70	172	180	25.2

## DIMENSIONAL DRAWINGS



001B00031T 05/2017

# EH 5 - PERFORMANCE CURVES AT 60 HZ



00120052.07/2017

# EH 9 - TECHNICAL DATA

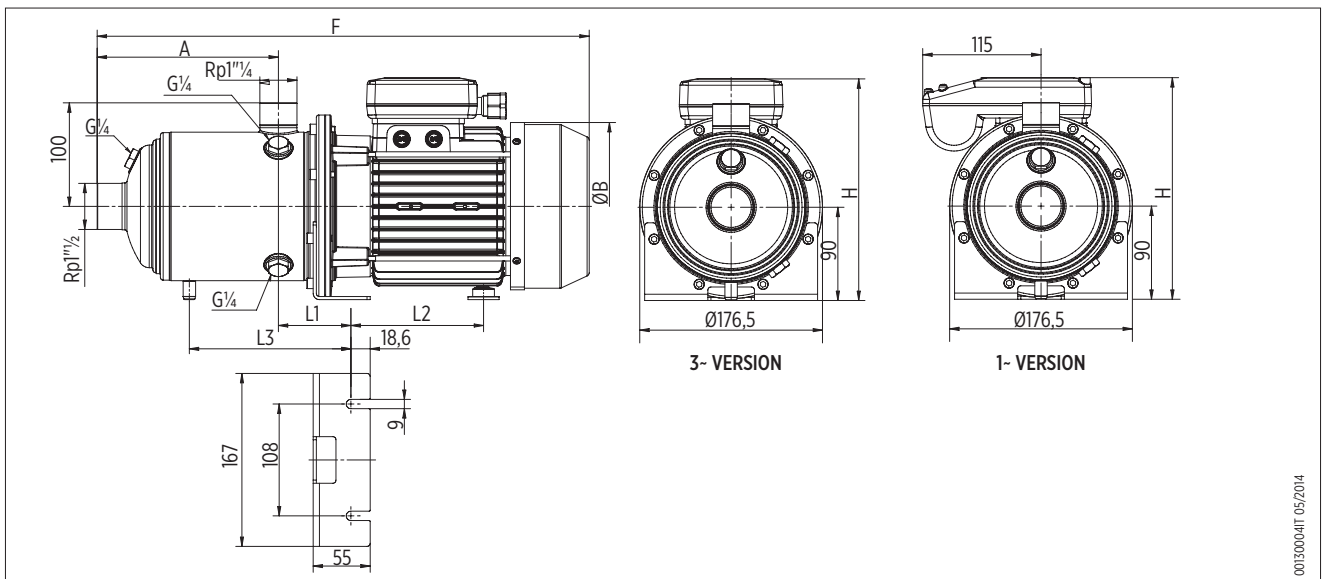
## 1 ~ ELECTRIC PUMP TECHNICAL DATA

Pump model	MOTOR SIZE	MOTOR NOMINAL POWER		INPUT POWER [kW]	Capacitor 450 V [µf]	INPUT CURRENT [A] 220-230 V	Dimensions [mm]						Weight [Kg]	
		[kW]	[HP]				A	F	ØB	H	L1	L2		L3
EH 9/26	71	1.1	1.5	1.52	30	7.1	118	380	144	207	74	101	-	13
EH 9/36	80	1.5	2	2.34	30	11.4	118	422	162	214	74	128	-	16.4

## 3 ~ ELECTRIC PUMP TECHNICAL DATA

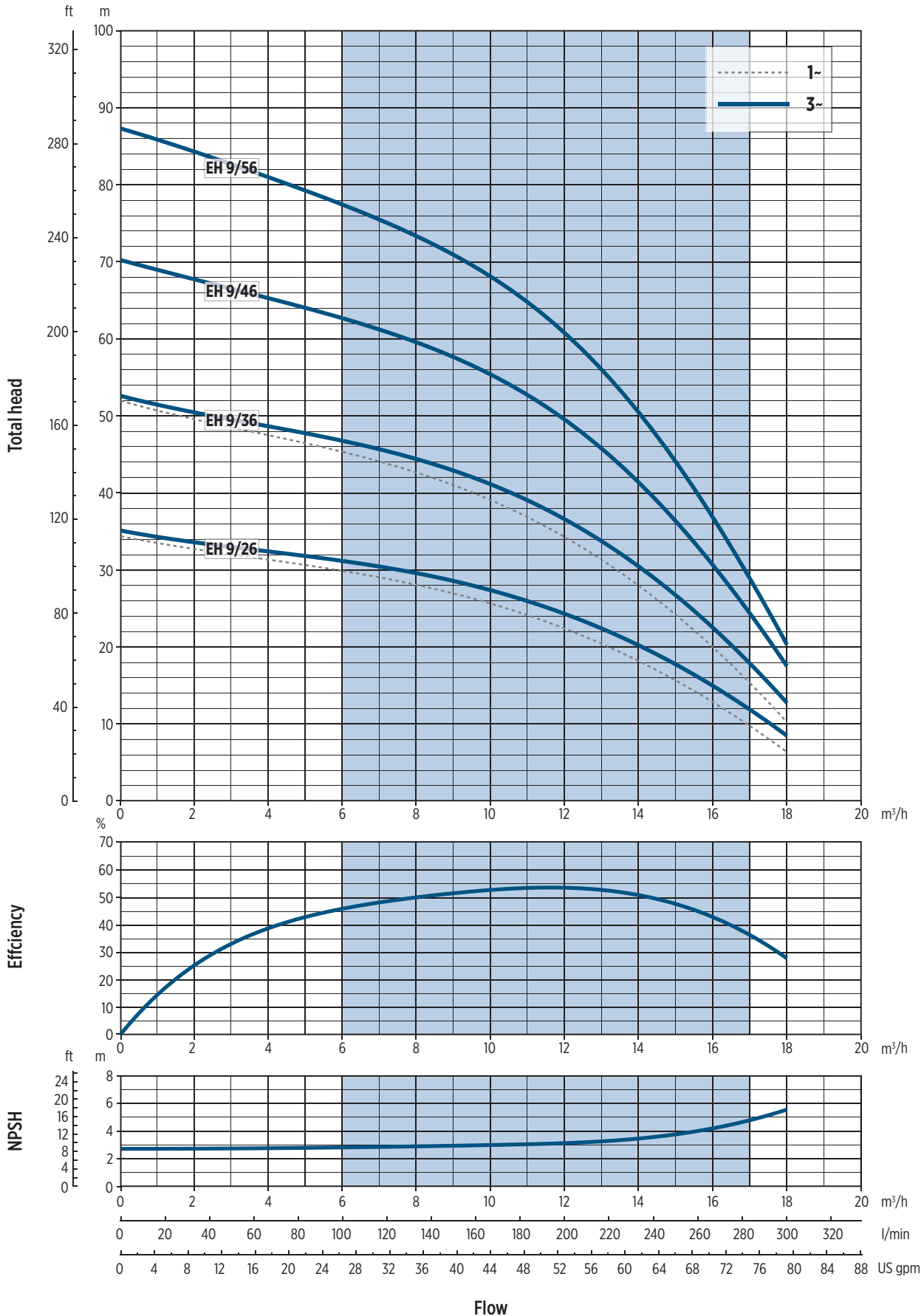
Pump model	MOTOR SIZE	MOTOR NOMINAL POWER		INPUT POWER [kW]	INPUT CURRENT [A]		Dimensions [mm]						Weight [Kg]	
		[kW]	[HP]		220-230 V	380-400 V	A	F	ØB	H	L1	L2		L3
EH 9/2T6	80	1.5	2	1.56	4.9	2.8	118	419	162	214	74	128	-	15
EH 9/3T6	90	2.2	2.7	2.31	6.9	4.0	118	466	179	221	74	172	-	20.4
EH 9/4T6	90	3	4	3.07	8.8	5.1	148	531	179	221	74	172	-	24
EH 9/5T6	90	3	4	3.77	10.9	6.3	178	561	179	221	74	172	-	24.6

## DIMENSIONAL DRAWINGS



00130004IT\_05/2014

# EH 9 - PERFORMANCE CURVES AT 60 HZ



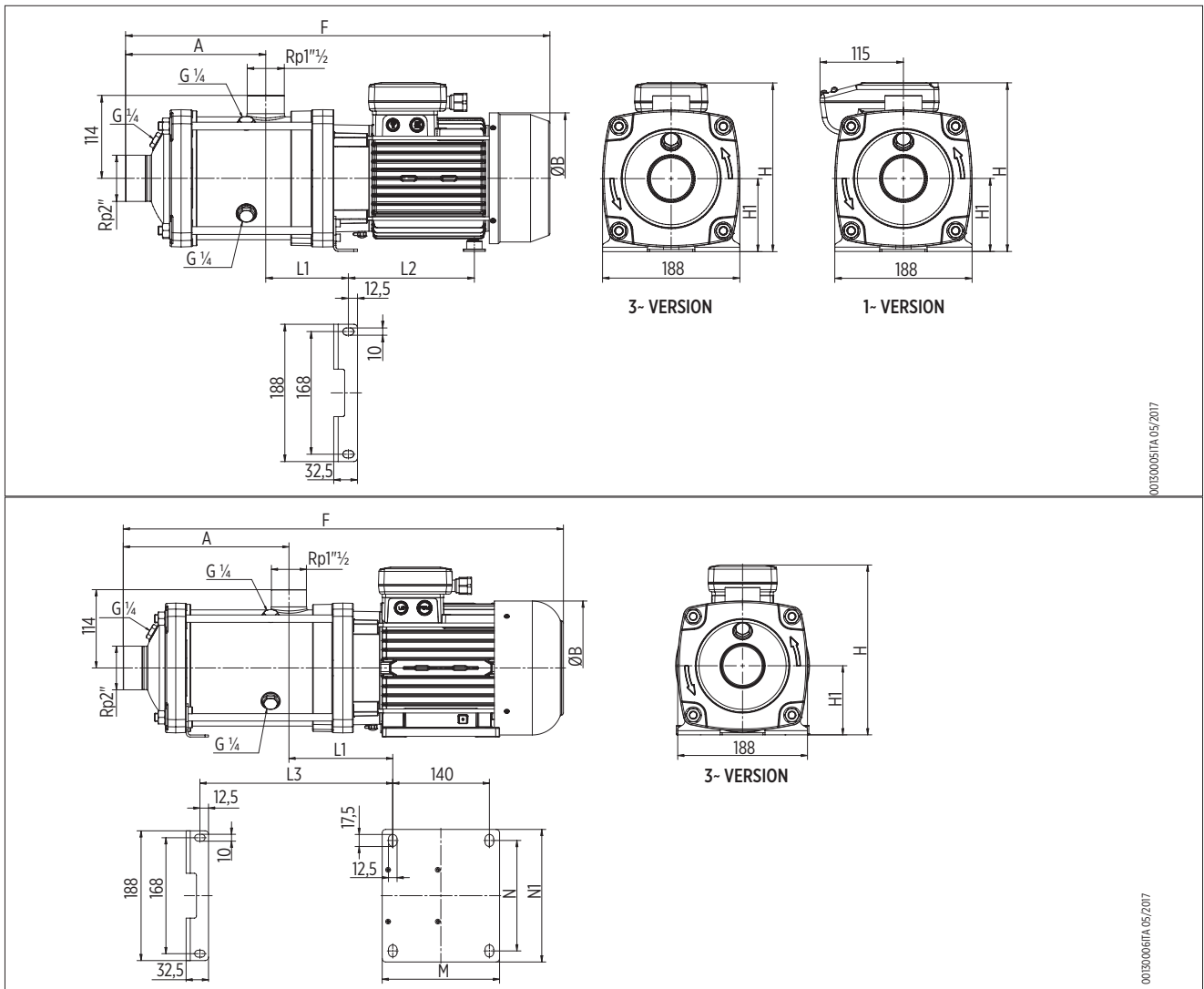
00120055 07/2017

# EH 15 - TECHNICAL DATA

## 3 ~ ELECTRIC PUMP TECHNICAL DATA

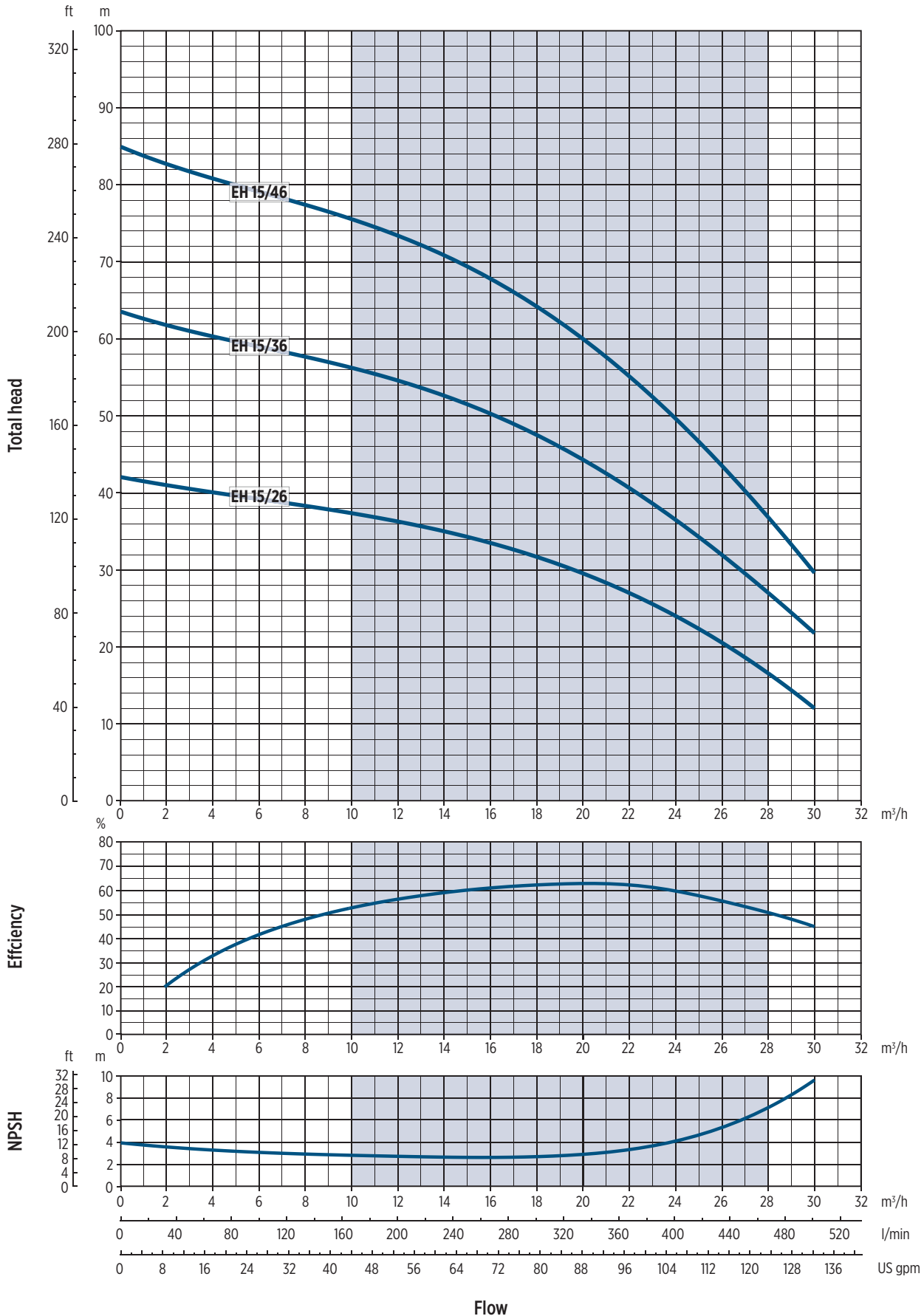
Pump model	MOTOR SIZE	MOTOR NOMINAL POWER		INPUT POWER [kW]	INPUT CURRENT [A]		Dimensions [mm]									Weight [Kg]		
		[kW]	[HP]		220-230 V	380-400 V	A	F	ØB	H	H1	L1	L2	L3	M		N	N1
EH 15/2T6	90	3	4	2.88	9.0	5.2	144	567	179	231	100	113	173	-	-	-	-	27
EH 15/3T6	100	4	5.5	4.25	12.7	7.3	144	574	194	246	100	150	-	279	170	160	192	34.4
EH 15/4T6	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





# EH 15 - PERFORMANCE CURVES AT 60 HZ



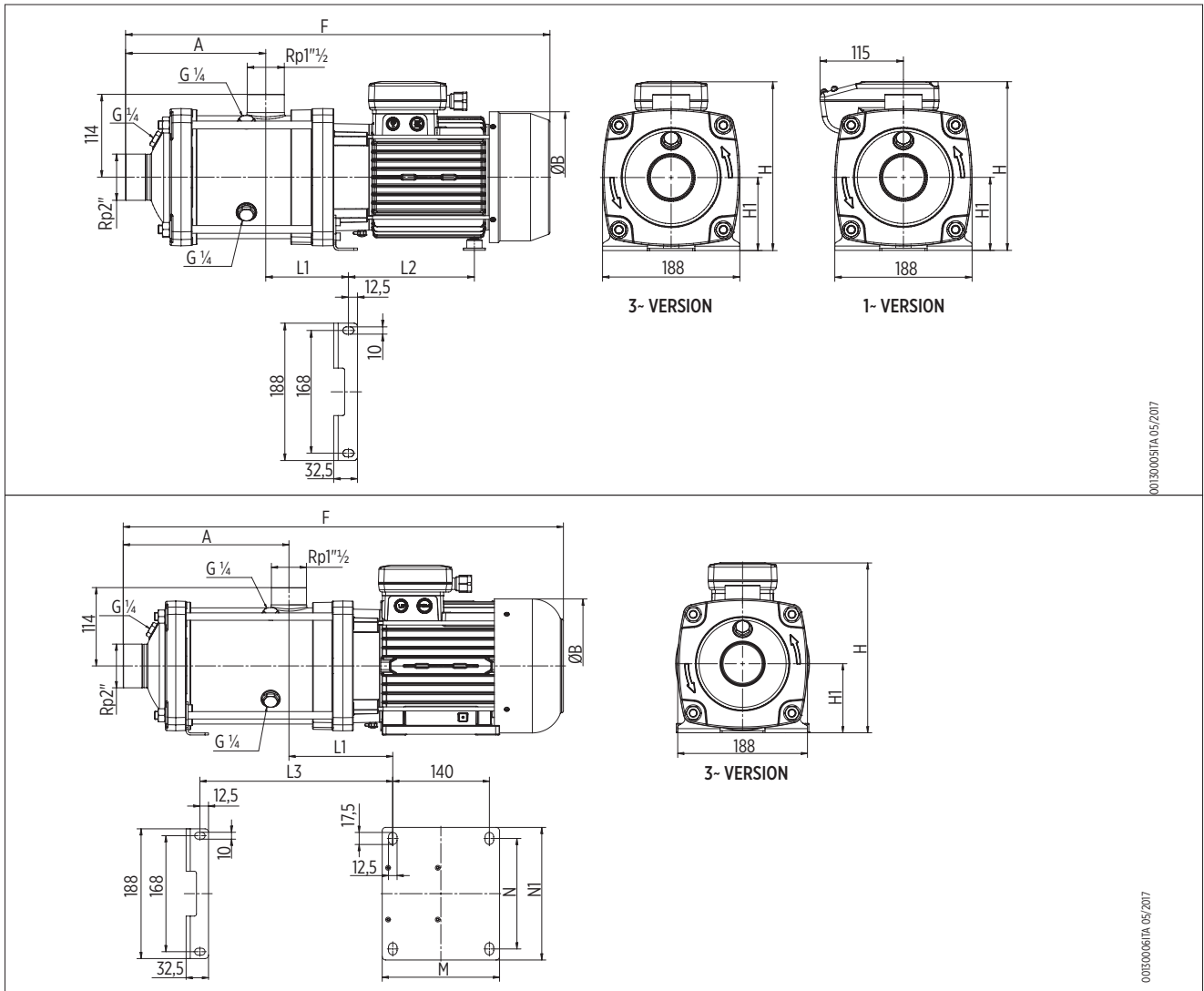
00120054 07/2017

# EH 20 - TECHNICAL DATA

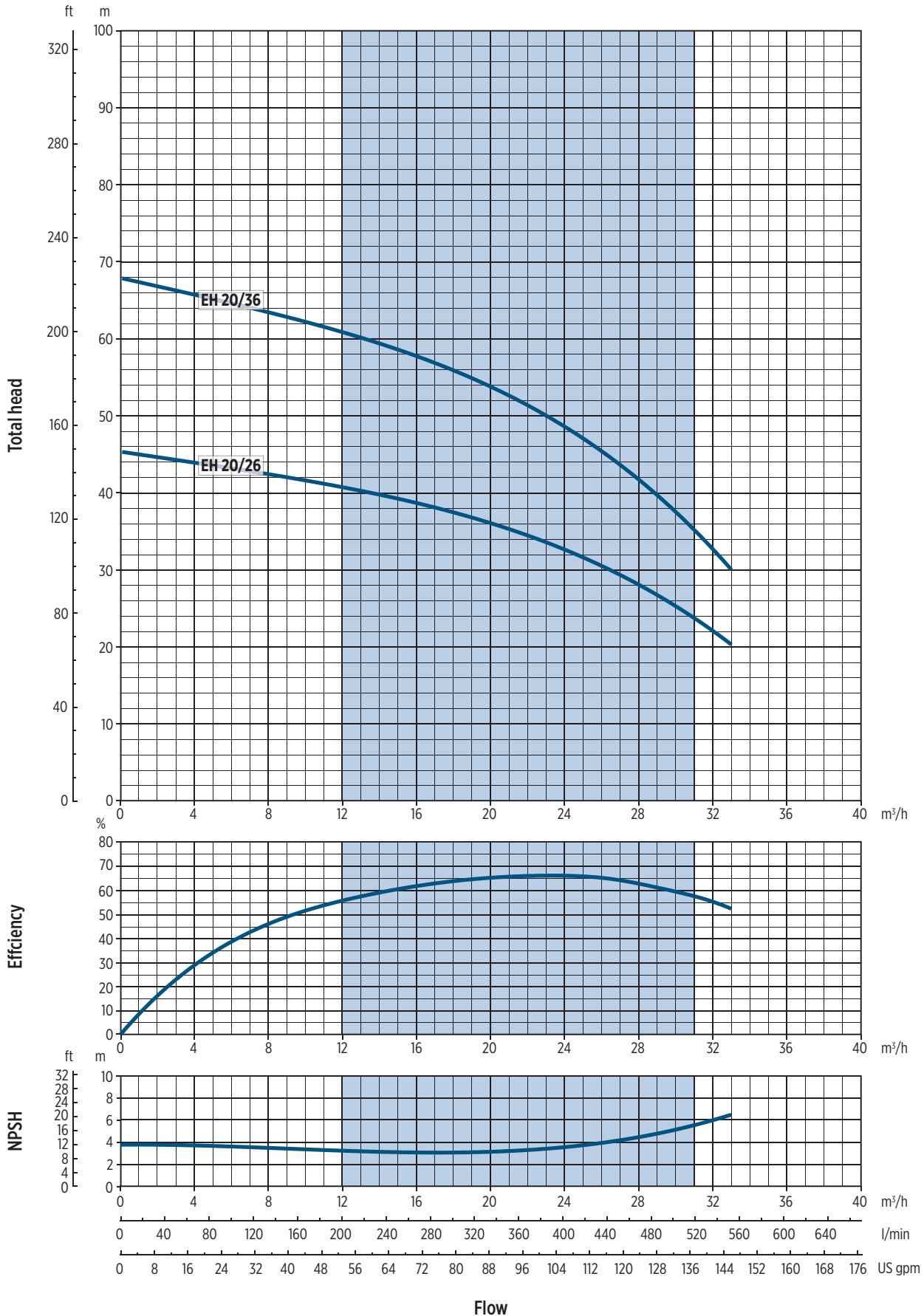
## 3 ~ ELECTRIC PUMP TECHNICAL DATA

Pump model	MOTOR SIZE	MOTOR NOMINAL POWER		INPUT POWER [kW]	INPUT CURRENT [A]		Dimensions [mm]									Weight [Kg]		
		[kW]	[HP]		220-230 V	380-400 V	A	F	ØB	H	H1	L1	L2	L3	M		N	N1
EH 20/2T6	100	4	5.5	3.93	11.9	6.9	144	574	194	246	100	150	-	231	170	160	192	34.2
EH 20/3T6	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



# EH 20 - PERFORMANCE CURVES AT 60 HZ



00120055 07/2017

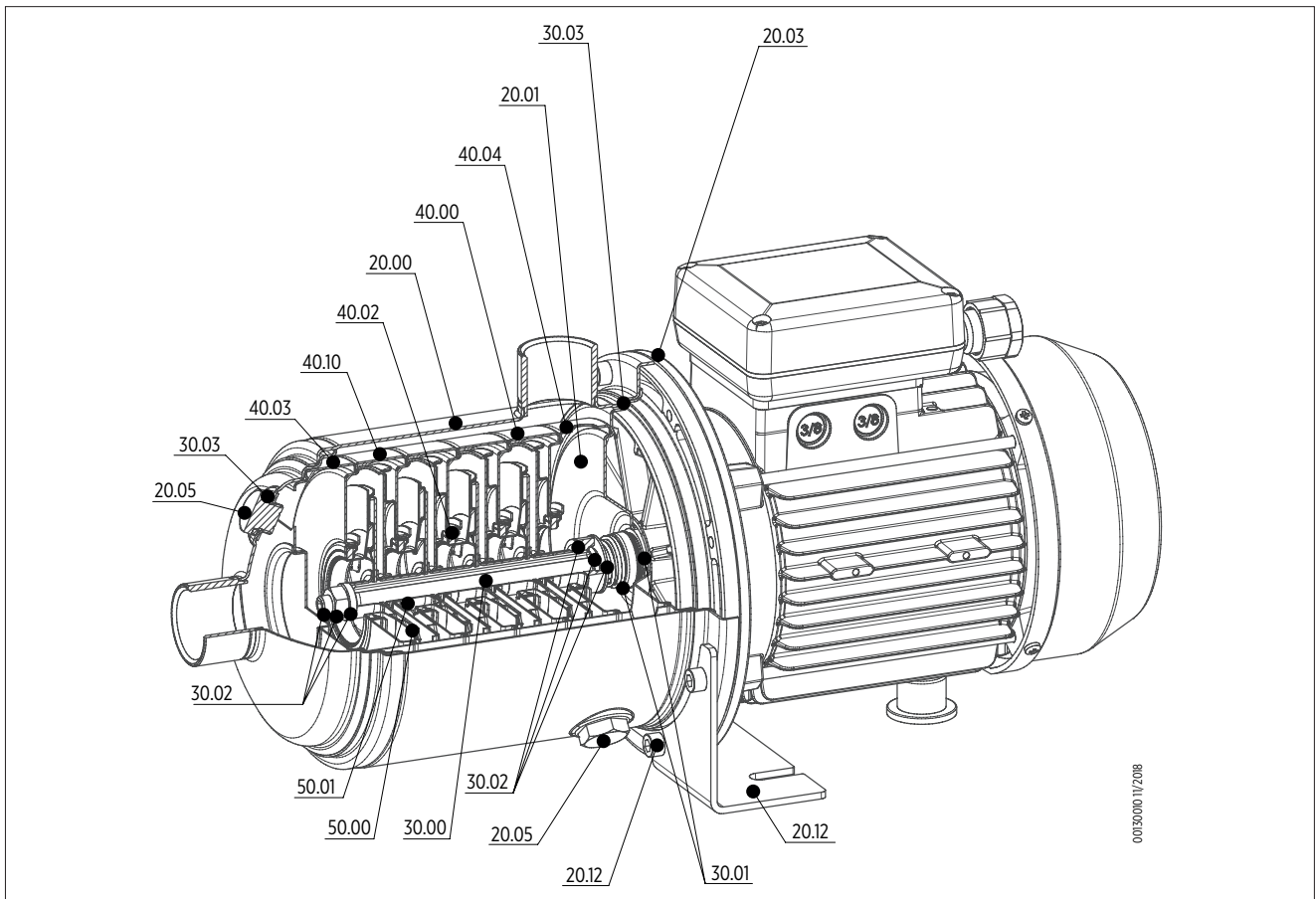


**EHsp Series**  
**Horizontal self-priming pumps**  
**3-5**  
**60 Hz**



# SPARE PARTS AND MATERIALS

EHsp 3-5



0019010 11/2016

## PARTS IN CONTACT WITH LIQUID

Ref. No.	Part description	Material	Standard	
			ASTM/AISI	DIN/EN
20.00	Outer case	Stainless steel	AISI 304	14.301
20.01	Mechanical seal housing	Stainless steel	AISI 304	14.301
20.05	Filling plug	Stainless steel	AISI 304	14.301
30.00	Pump shaft	Stainless steel	AISI 304	14.301
30.01	Mechanical seal	Carbon graphite / Ceramic alumina/ EPDM		
30.02	Mechanical seal fastening kit	Stainless steel	AISI 304	14.301
30.03	Kit O-rings	EPDM		
40.00	Stage housing and diffuser	Stainless steel	AISI 304	14.301
40.02	Floating neck ring	Stainless steel and PPS	AISI 304	14.301
40.03	Initial stage housing	Stainless steel	AISI 304	14.301
40.04	Last Stage with diffuser	Stainless steel	AISI 304	14.301
40.10	Stage housing with priming valve	Stainless steel	AISI 301/304	1.4310/1.4301
50.00	Impeller	Stainless steel	AISI 304	14.301
50.01	Impeller spacer	Stainless steel	AISI 304	14.301

## SPARE PARTS LIST

Ref. No.	Part 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.	Part 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
40.10	Stage housing with priming valve
50.00	Impeller
50.01	Impeller spacer





# TECHNICAL DATA AND PERFORMANCE CURVES AT 60 HZ

## 1 ~ HYDRAULIC PERFORMANCE

Pump model	Q = DELIVERY														
	l/min 0	25.0	33.3	41.7	50.0	58.3	66.7	75.0	83.3	91.7	100.0	116.7	133.3	141.7	150.0
	m <sup>3</sup> /h 0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	7.0	8.0	8.5	9.0
	gpm 0	6.6	8.8	11.0	13.2	15.4	17.6	19.8	22.0	24.2	26.4	30.8	35.2	37.4	39.6
H = TOTAL METERS HEAD OF WATER COLUMN [m]															
EHsp 3/36	47.4		40.5	37.8	34.8	31.5	28.0	24.1	19.9	15.1					
EHsp 3/46	64.0		55.1	51.6	47.7	43.3	38.7	33.5	27.9	21.5					
EHsp 3/56	79.1		67.3	62.9	57.8	52.3	46.5	39.9	33.0	25.0					
EHsp 5/36	48.5			44.8	43.7	42.5	41.2	39.7	38.1	36.4	34.5	30.0	24.2	20.8	
EHsp 5/46	65.5			60.8	59.4	57.9	56.2	54.2	52.2	49.9	47.4	41.6	33.8	29.3	
EHsp 5/56	81.3			74.9	73.0	71.1	68.8	66.3	63.6	60.7	57.5	50.1	40.3	34.7	

## 3 ~ HYDRAULIC PERFORMANCE

Pump model	Q = DELIVERY														
	l/min 0	25.0	33.3	41.7	50.0	58.3	66.7	75.0	83.3	91.7	100.0	116.7	133.3	141.7	150.0
	m <sup>3</sup> /h 0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	7.0	8.0	8.5	9.0
	gpm 0	6.6	8.8	11.0	13.2	15.4	17.6	19.8	22.0	24.2	26.4	30.8	35.2	37.4	39.6
H = TOTAL METERS HEAD OF WATER COLUMN [m]															
EHsp 3/3T6	48.0		41.2	38.5	35.6	32.3	28.8	25.0	20.8	16.0					
EHsp 3/4T6	64.2		55.3	51.8	47.9	43.5	38.9	33.7	28.2	21.7					
EHsp 3/5T6	81.4		70.9	66.7	61.8	56.5	50.6	44.3	37.3	29.3					
EHsp 5/3T6	48.7			44.9	43.8	42.7	41.3	39.9	38.3	36.5	34.6	30.2	24.4	21.0	
EHsp 5/4T6	65.6			61.0	59.6	58.1	56.4	54.5	52.4	50.2	47.7	41.9	34.2	29.7	
EHsp 5/5T6	82.3			77.0	75.3	73.5	71.4	69.1	66.6	63.8	60.8	53.6	44.1	38.4	

# EHsp 3 - TECHNICAL DATA

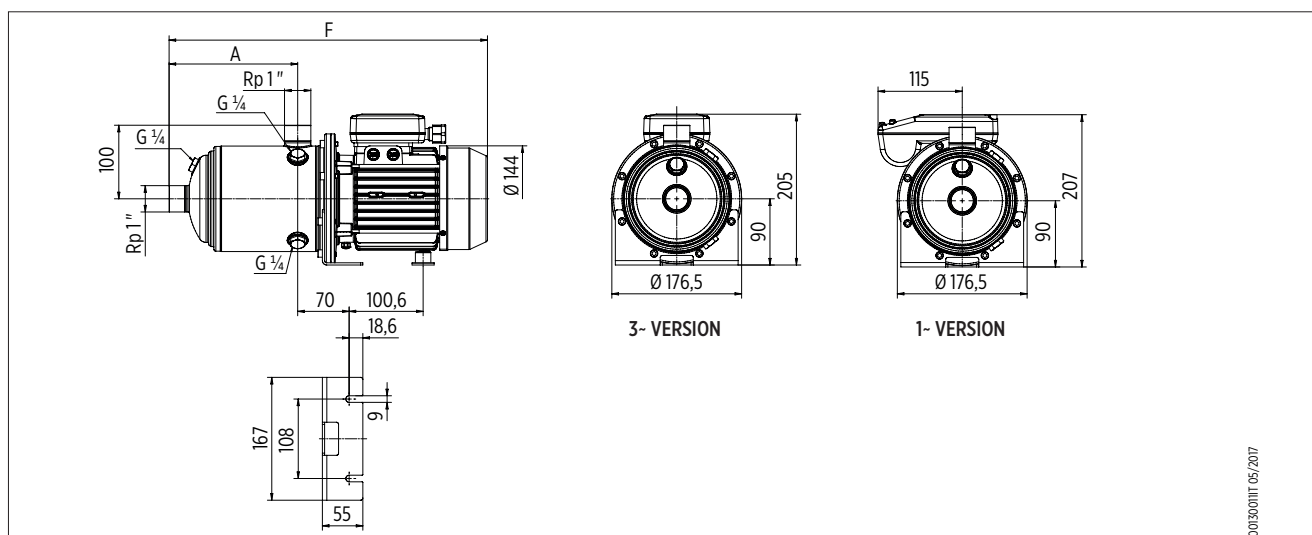
## 1 ~ ELECTRIC PUMP TECHNICAL DATA

Pump model	MOTOR SIZE	MOTOR NOMINAL POWER		INPUT POWER [kW]	Capacitor 450 V [µf]	INPUT CURRENT [A] 220-230 V	Dimensions [mm]		Weight [Kg]
		[kW]	[HP]				A	F	
EHsp 3/36	71	0.75	1	1.02	16	4.9	151	411	12
EHsp 3/46	71	0.9	1.2	1.30	30	6.1	175	435	14
EHsp 3/56	71	1.1	1.5	1.57	30	7.3	199	459	14.6

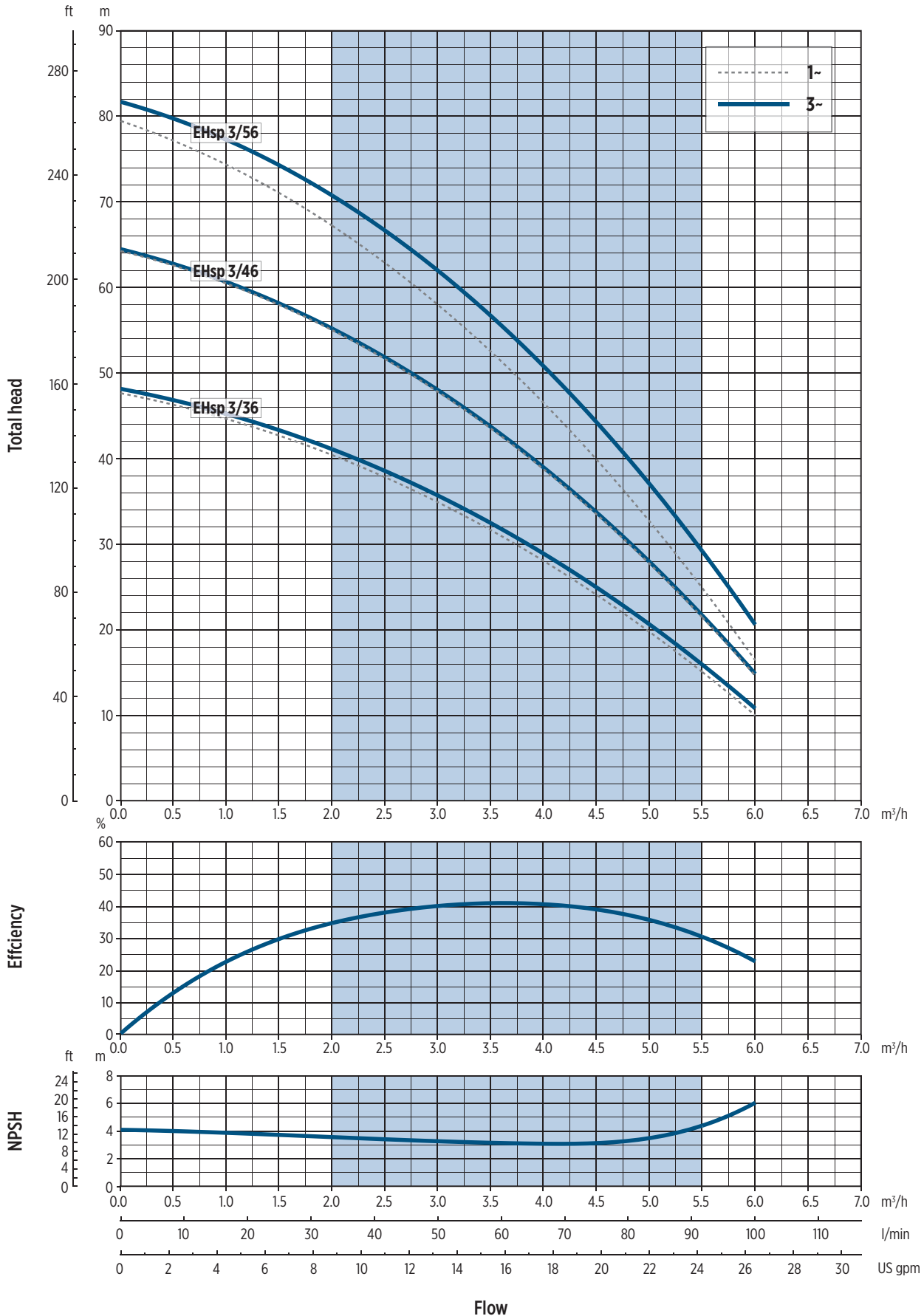
## 3 ~ ELECTRIC PUMP TECHNICAL DATA

Pump model	MOTOR SIZE	MOTOR NOMINAL POWER		INPUT POWER [kW]	INPUT CURRENT [A]		Dimensions [mm]		Weight [Kg]
		[kW]	[HP]		220-230 V	380-400 V	A	F	
EHsp 3/3T6	71	0.75	1	0.96	2.9	1.7	151	411	11.6
EHsp 3/4T6	71	1.1	1.5	1.27	3.9	2.3	175	435	12.8
EHsp 3/5T6	80	1.5	2	1.62	5.1	2.9	199	496	16.6

## DIMENSIONAL DRAWINGS



# EHsp 3 - PERFORMANCE CURVES AT 60 HZ



00120056 07/2017

# EHsp 5 - TECHNICAL DATA

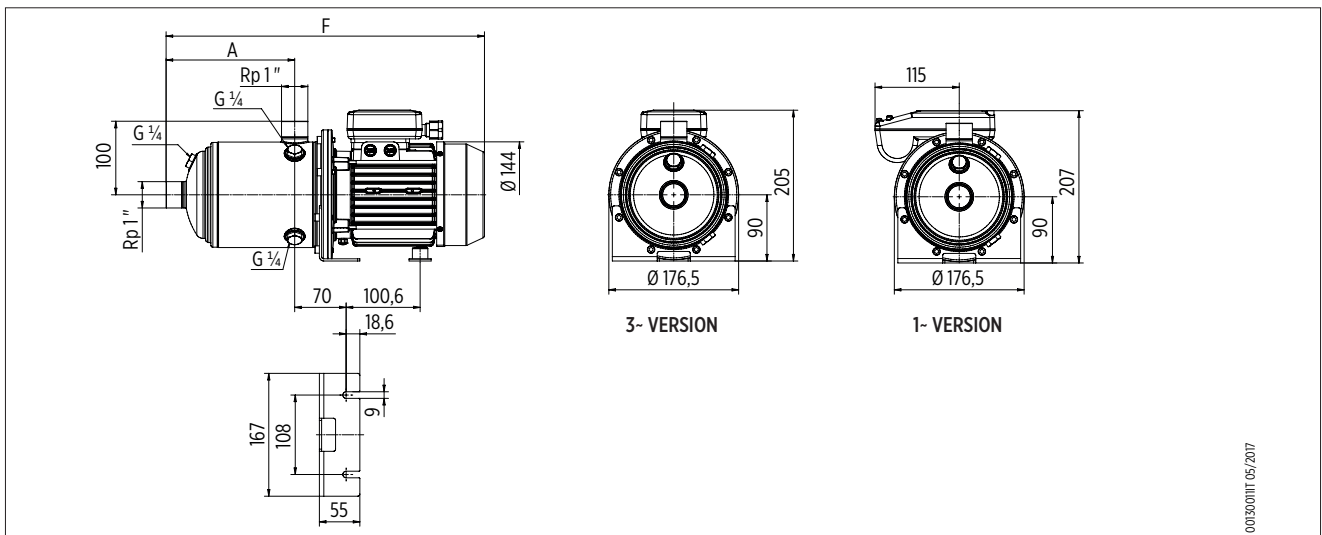
## 1 ~ ELECTRIC PUMP TECHNICAL DATA

Pump model	MOTOR SIZE	MOTOR NOMINAL POWER		INPUT POWER [kW]	Capacitor 450 V [µf]	INPUT CURRENT [A] 220-230 V	Dimensions [mm]		Weight [Kg]
		[kW]	[HP]				A	F	
EHsp 5/36	71	0.9	1.2	1.35	30.0	6.3	151	411	13.6
EHsp 5/46	80	1.1	1.5	1.89	30.0	9.5	175	472	17.2
EHsp 5/56	80	1.5	2	2.28	30.0	11.1	199	496	17.8

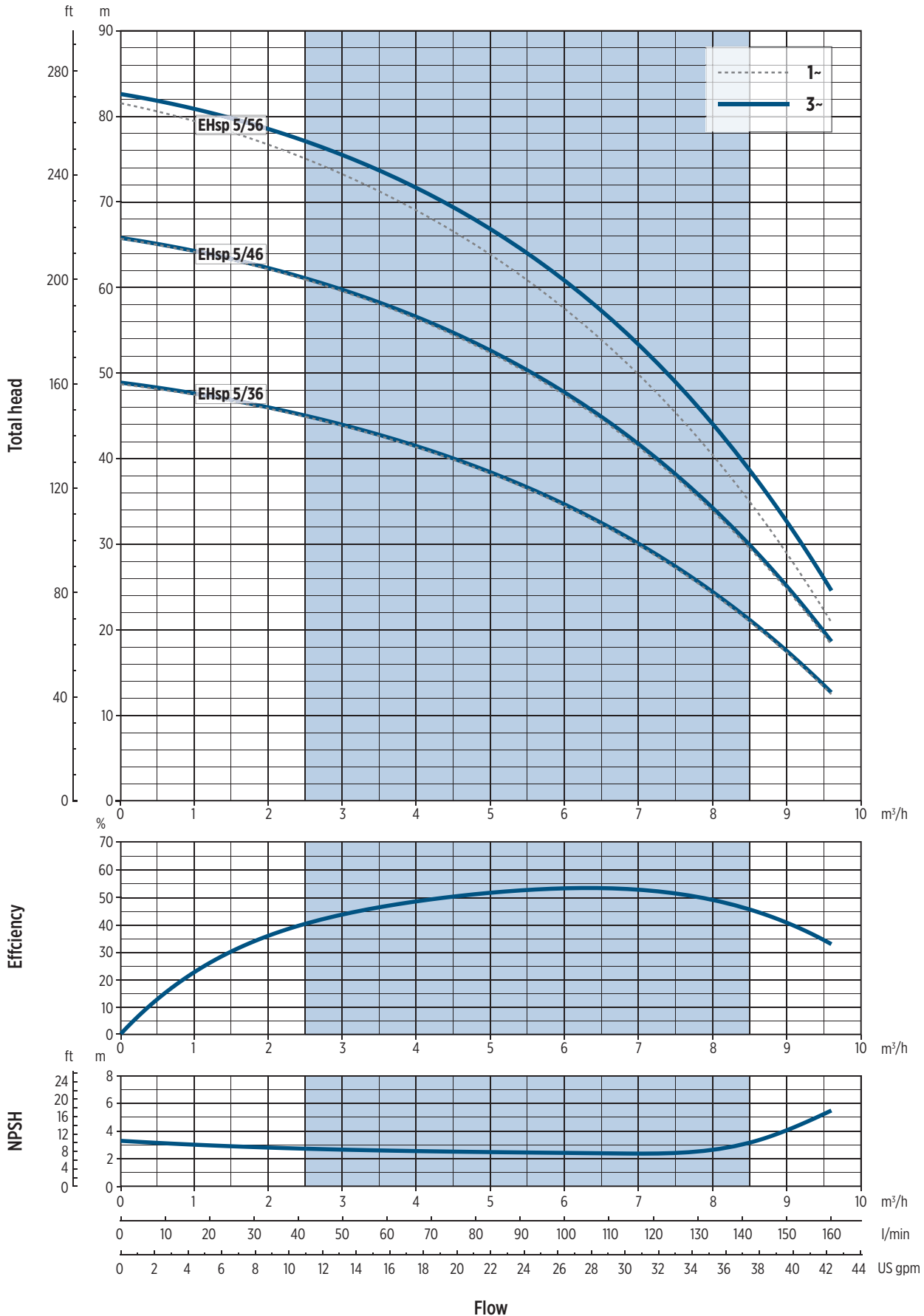
## 3 ~ ELECTRIC PUMP TECHNICAL DATA

Pump model	MOTOR SIZE	MOTOR NOMINAL POWER		INPUT POWER [kW]	INPUT CURRENT [A]		Dimensions [mm]		Weight [Kg]
		[kW]	[HP]		220-230 V	380-400 V	A	F	
EHsp 5/3T6	71	1.1	1.5	1.35	4.0	2.3	151	411	12.2
EHsp 5/4T6	80	1.5	2	1.80	5.5	3.2	175	475	16
EHsp 5/5T6	90	2.2	2.7	2.25	6.7	3.9	199	543	22

## DIMENSIONAL DRAWINGS



# EHsp 5 - PERFORMANCE CURVES AT 60 HZ



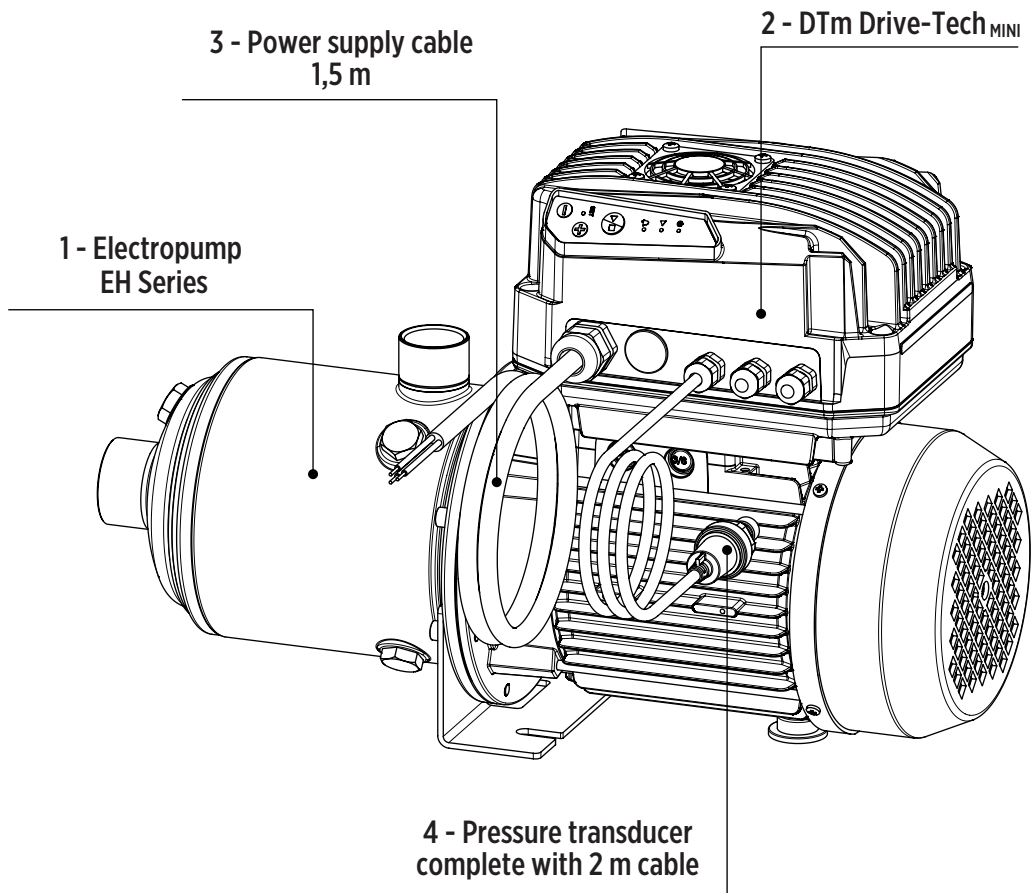
00120057/09/2018



**EH DTm Series**  
**Horizontal multistage pumps Drive-Tech<sub>MINI</sub>**  
**3-5-9**  
**60 Hz**



# EH DTm - PACKAGE SYSTEM AND MAIN COMPONENTS INCLUDED

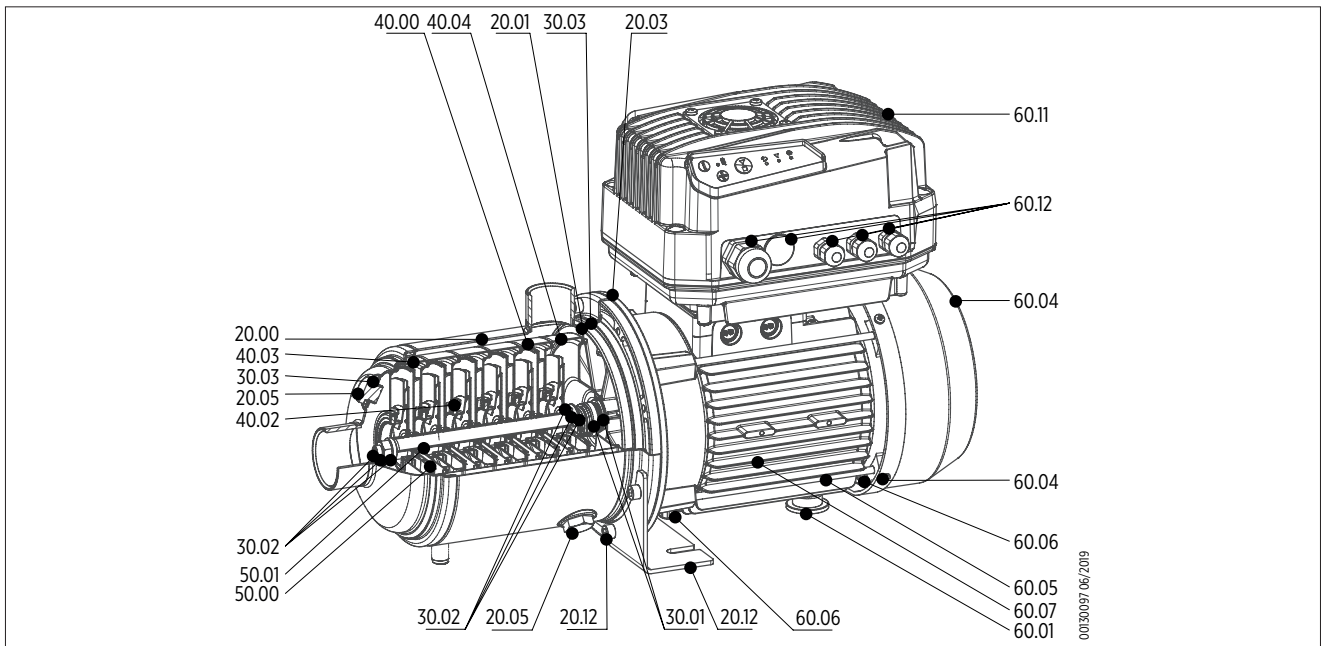


00130087/07/2021



# SPARE PARTS AND MATERIALS

EH DTm 3-5-9



## PARTS IN CONTACT WITH LIQUID

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

## SPARE PARTS LIST

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

Ref. No.	Part description
30.02	Mechanical seal fastening kit
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

# DRIVE-TECH MINI INVERTER FOR EH DTm PUMPS

## APPLICATIONS

- Booster sets
- HVAC systems with electric circulation pumps
- Control of electric pumps (when installed on the wall)

## FEATURES

- Energy saving thanks to variable speed control
- Smooth start-up and stop
- Longer system life and greater system reliability
- Simplified installation on the motor or on the wall
- Quick commissioning through guided initial configuration
- Installation possible in damp and dusty environments due to IP55 degree protection
- High thermal and mechanical performance due to all-aluminium casing and independent ventilation



## SPECIFICATIONS

- **Advanced user experience due to:**
  - Programming and monitoring via smartphone and FE Connect, available for Android, iOS devices
  - Remote control using a smartphone placed nearby as a modem
  - Copy / pasting pre-imposed programmes between different devices
  - Ability to send reports via email
  - Multilingual support
- **Multiple control methods:**
  - Constant pressure control
  - Constant or proportional differential pressure control
  - Constant temperature control
  - Constant differential temperature control
  - Constant flow control
  - Control with external frequency signal or pre-set at 1 or 2 values
- **Integrated protections against:**
  - Overvoltage and undervoltage
  - Overcurrent and no load
  - Dry running
  - Overheating
  - EMC compatibility for home environment:
  - Integrated PFC (P.F. 1) to comply with EN61000-3-2
  - Integrated filter for Category C1 (EN61800-3), Class B (EN55011)
- **Group operation (COMBO):**
  - Up to 8 connected units
  - Alternating operation to equalise electric pump wear
  - Master or slave switching in case of failure of one unit, to guarantee the continued operation of the set
- **Advanced motor controls:**
  - Control of new generation asynchronous motors
  - Sensorless control of synchronous permanent magnet motors
- **Inputs and outputs:**
  - 2 programmable digital inputs for motor start and stop
  - Modbus RTU serial port
  - 2 relay outputs for alarm and motor status signalling
  - 2 4-20 mA analogue inputs
  - 2 0-10 V analogue inputs

## SYSTEM PERFORMANCE

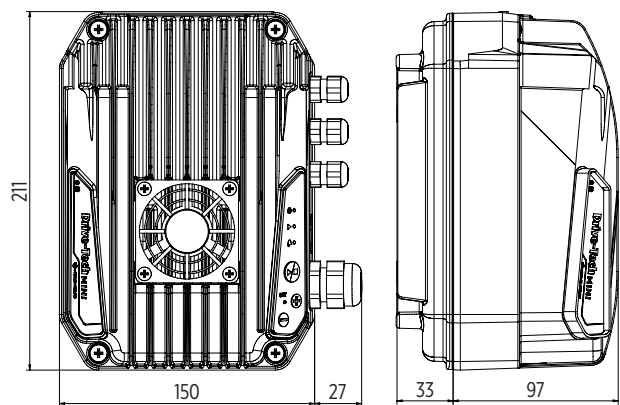
- Line-side power factor: 1
- Mains supply frequency: 50-60 Hz ( $\pm 2\%$ )
- Storage temperature: from  $-30^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$
- Minimum ambient working temperature at nominal load:  $-10^{\circ}\text{C}$
- Maximum working temperature at nominal load:  $+40^{\circ}\text{C}$
- Maximum altitude at nominal load: 1000 metres above sea level
- Relative humidity: max 95% (without condensation)
- Degree of protection: IP55 (NEMA 4) or degree of motor protection if mounted on the motor (protect the device from direct exposure to sunlight and atmospheric influences)
- Connectivity: RS 485 serial port for COMBO operation (up to 8 units) + SMART Bluetooth communication + RS485 serial port for MODBUS RTU communication

## TRANSDUCER SPECIFICATIONS

- Nominal output signal (protected against short circuits):  $4 \div 20$  mA
- Power supply voltage [ $U_B$ ], antipolarity protection:  $9 \div 28$  V
- Sensor temperature range:  $0^{\circ}\text{C} \div +80^{\circ}\text{C}$
- Ambient temperature range (depending on electrical connection):  $-20^{\circ}\text{C} \div +80^{\circ}\text{C}$
- Shielded cable: 2 m
- Degree of protection achieved by coupling with the connector: IP67

## DIMENSIONAL DATA

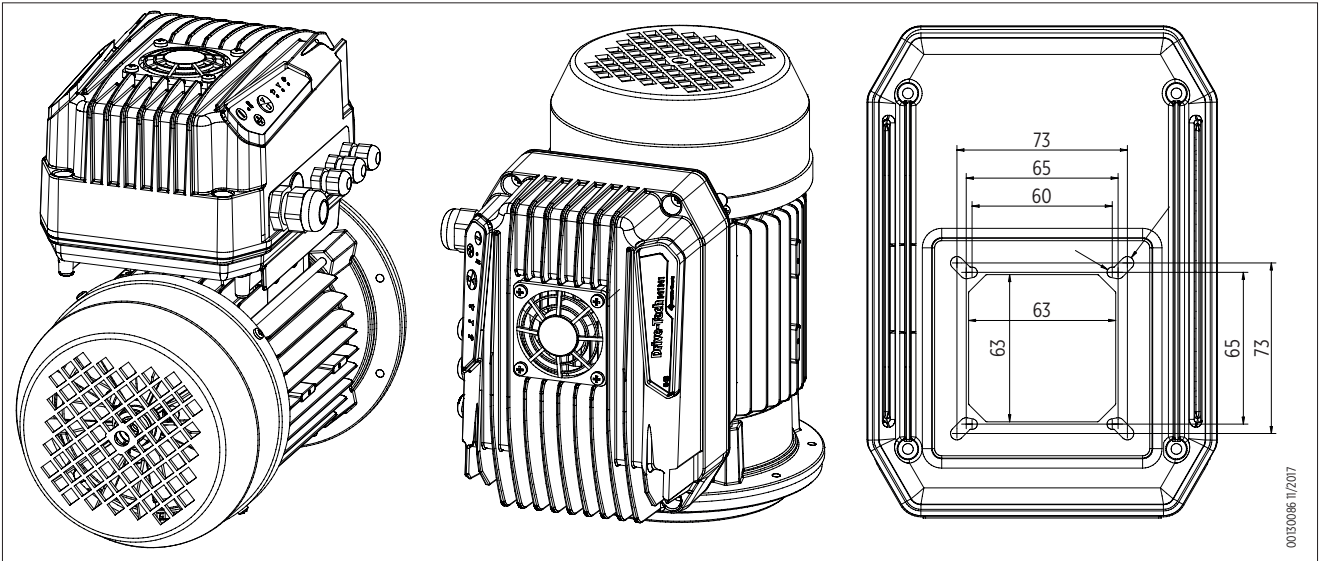
Model	Vin [Vac] $\pm 15\%$	Max Vout [V]	Max I input [A]	Max I out [A]	Typical motor power P <sub>2</sub> [kW]
DTm 2.005 M/T 3 A	1 x 230	3 x 230	4.5	3	0.55
DTm 2.011 M/T 5 A	1 x 230	3 x 230	7.5	5	1.1
DTm 2.015 M/T 7,5 A	1 x 230	3 x 230	11	7.5	1.5
DTm 4.011 T/T 4 A *	3 x 400	3 x 400	3.7	4	1.1
DTm 4.022 T/T 6 A *	3 x 400	3 x 400	5.4	6	2.2



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\* T/T versions with DTm type 4.0 available on request

### INSTALLATION DRAWING



Can be installed directly on board the motor instead of the electric pump terminal box cover with horizontal or vertical axis.

# TECHNICAL DATA AND PERFORMANCE CURVES (MOTOR FREQUENCY 60 HZ)

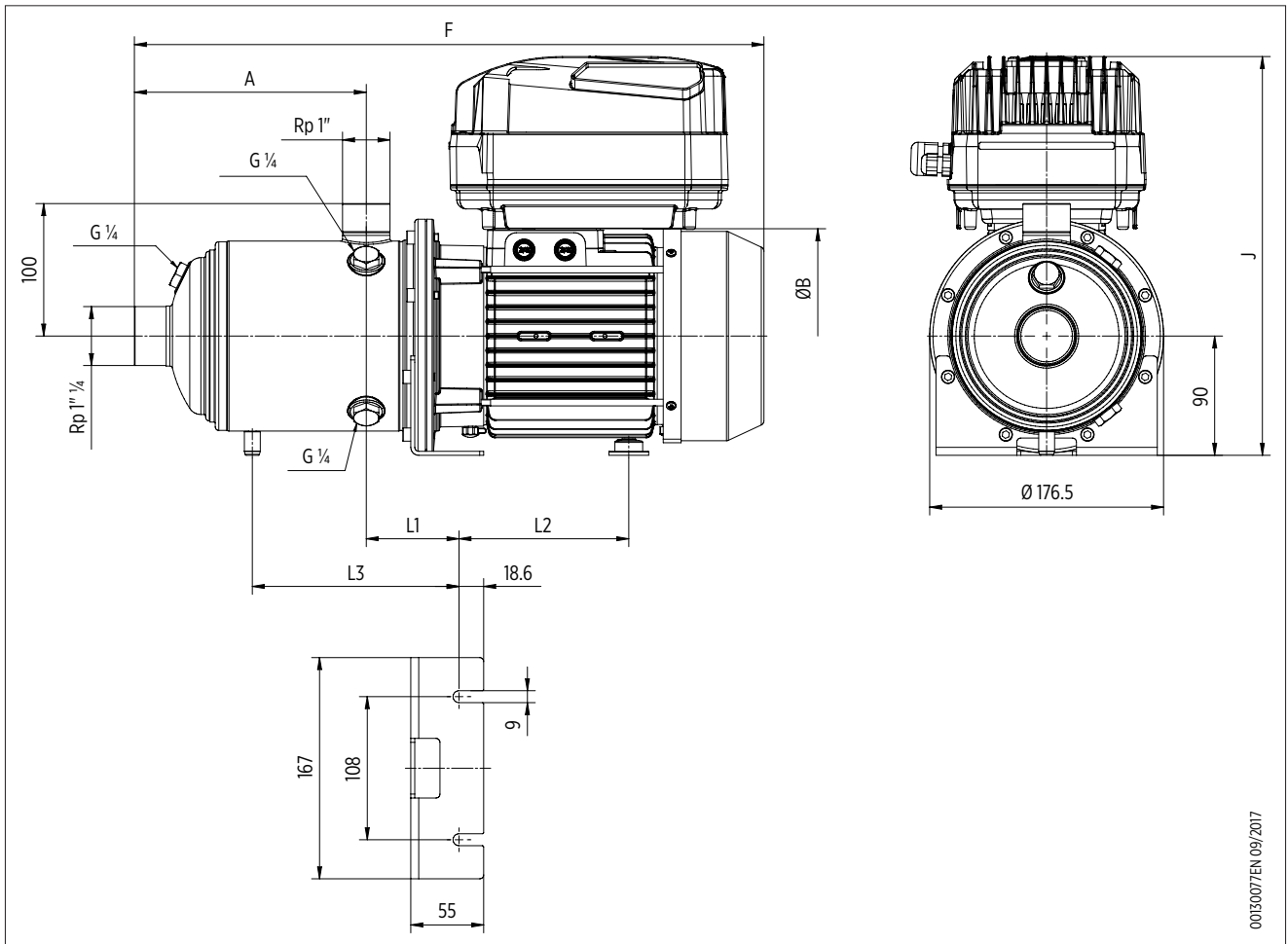
## HYDRAULIC PERFORMANCE

Pump model	Q = DELIVERY																			
	l/min 0	25.0	33.0	42.0	50.0	58.0	67.0	75.0	83.0	92.0	100.0	117.0	133.0	141.7	167.0	200.0	233.0	267.0	283.3	300.0
	m³/h 0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	7.0	8.0	8.5	10.0	12.0	14.0	16.0	17.0	18.0
	gpm 0	6.6	8.8	11.0	13.2	15.4	17.6	19.8	22.0	24.2	26.4	30.8	35.2	37.5	44.0	52.8	61.6	70.4	74.8	79.3
H = TOTAL METERS HEAD OF WATER COLUMN [m]																				
EH DTm 3/3T6	47.5		40.8	38.3	35.5	32.6	29.4	26	22.4	18.3	13.7									
EH DTm 3/4T6	63.6		54.8	51.5	47.8	43.9	39.7	35.1	30.3	24.9	18.7									
EH DTm 3/5T6	80.5		70.2	66.2	61.7	56.8	51.6	45.9	39.8	33.1	25.4									
EH DTm 3/7T6	112.9		98.9	93.3	87	80.2	72.9	64.9	56.4	47.1	36.2									
EH DTm 5/3T6	50.4			46	44.9	43.8	42.6	41.3	39.8	38.2	36.3	32.1	26.7	23.6						
EH DTm 5/4T6	67.8			62.4	60.9	59.5	58	56.3	54.5	52.4	50	44.4	37.3	33.2						
EH DTm 5/5T6	85.2			78.7	76.9	75.3	73.5	71.4	69.1	66.6	63.6	56.7	47.9	42.7						
EH DTm 9/3T6	52.4										46.3	45.1	44	43.3	41.1	36.9	30.5	22.4	17.5	

## EH DTm 3 - TECHNICAL DATA

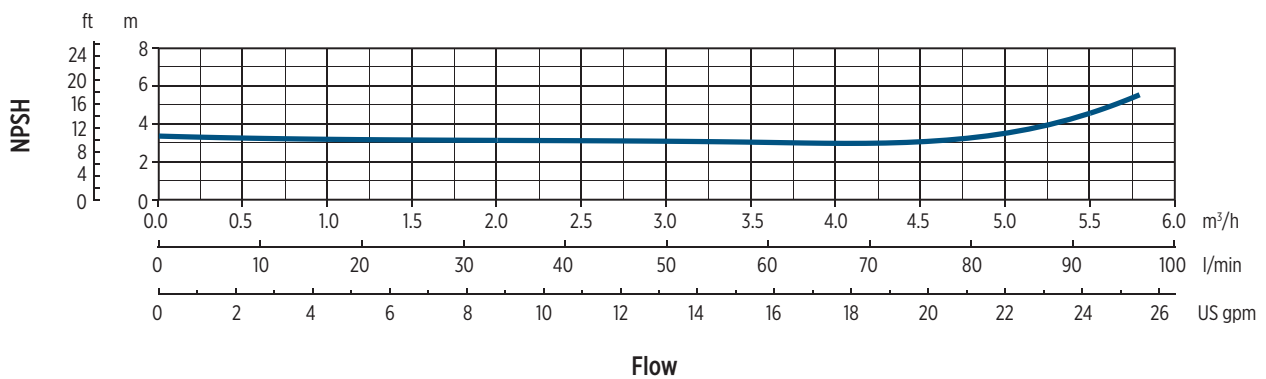
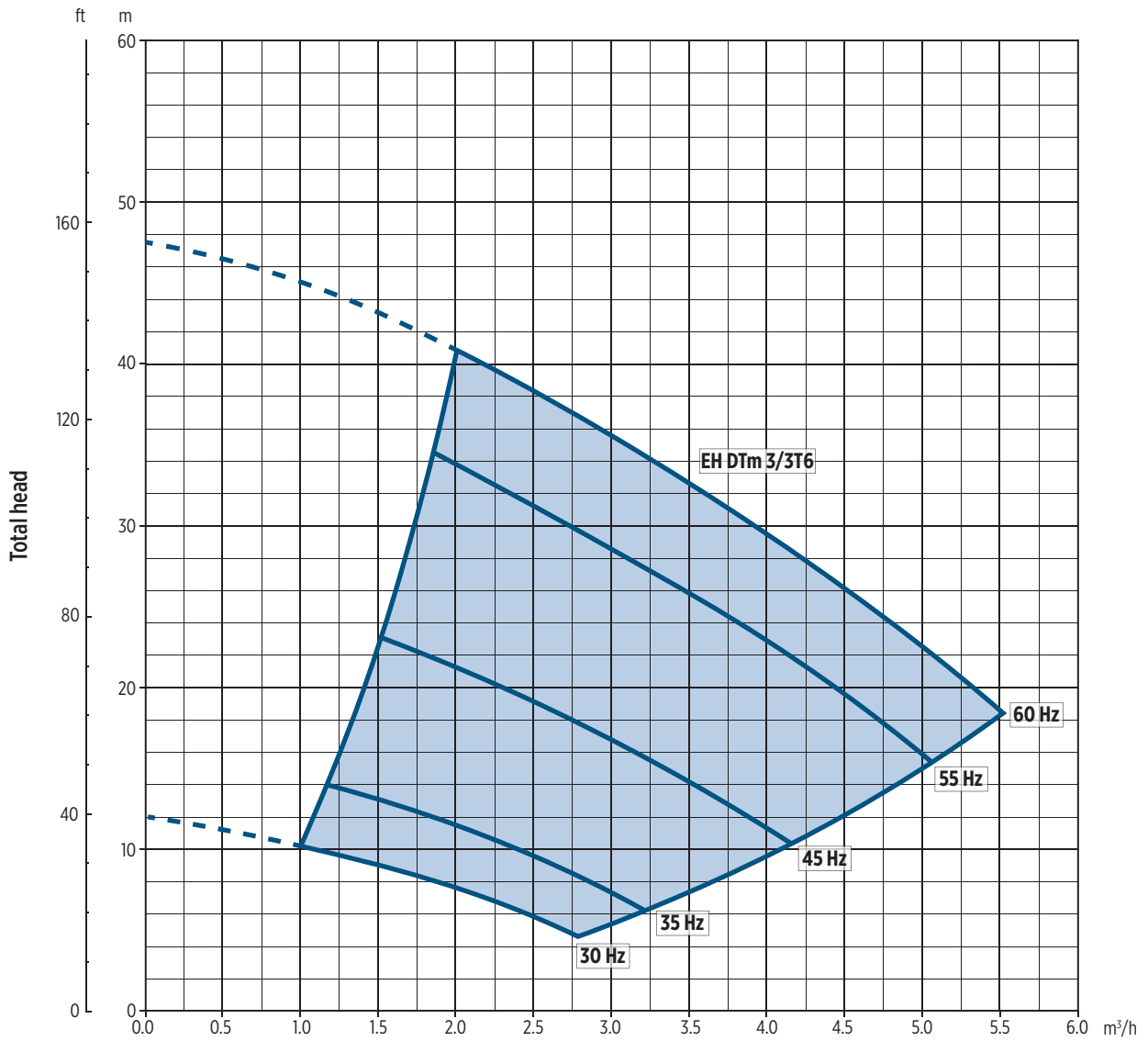
System model	Motor size	MOTOR NOMINAL POWER		POTENZA ASSORBITA	INPUT CURRENT [A]	Dimensions [mm]							Weight [Kg]
		[kW]	[HP]	[kW]	220-230 V	A	F	ØB	J	L1	L2	L3	
EH DTm 3/3T6	71	0.75	1	1.05	4.5	103	363	144	294	70	101	-	13.4
EH DTm 3/4T6	71	1.1	1.5	1.39	7.5	127	387	144	294	70	101	-	14.6
EH DTm 3/5T6	80	1.5	2	1.78	7.5	151	448	162	301	70	128	-	18.4
EH DTm 3/7T6	90	2.2	2.7	2.47	11.0	199	543	179	308	70	172	180	24.8

### DIMENSIONAL DRAWINGS



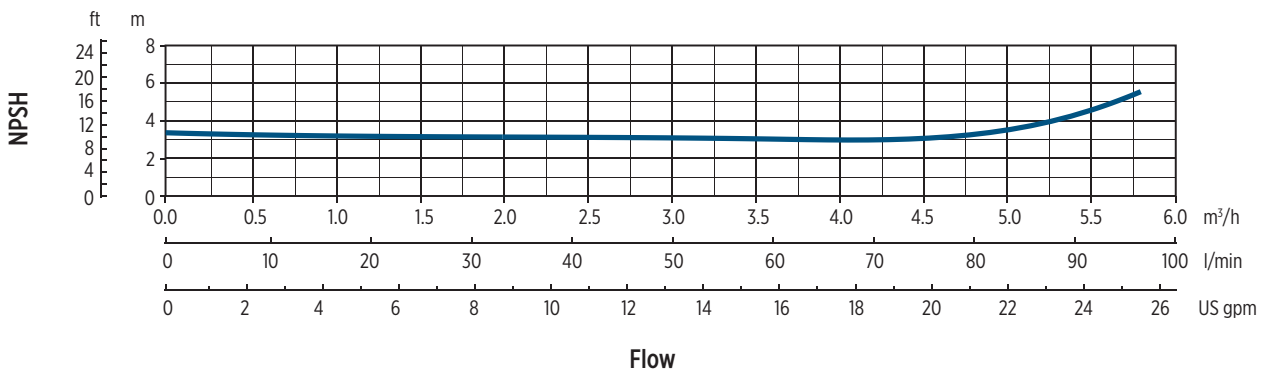
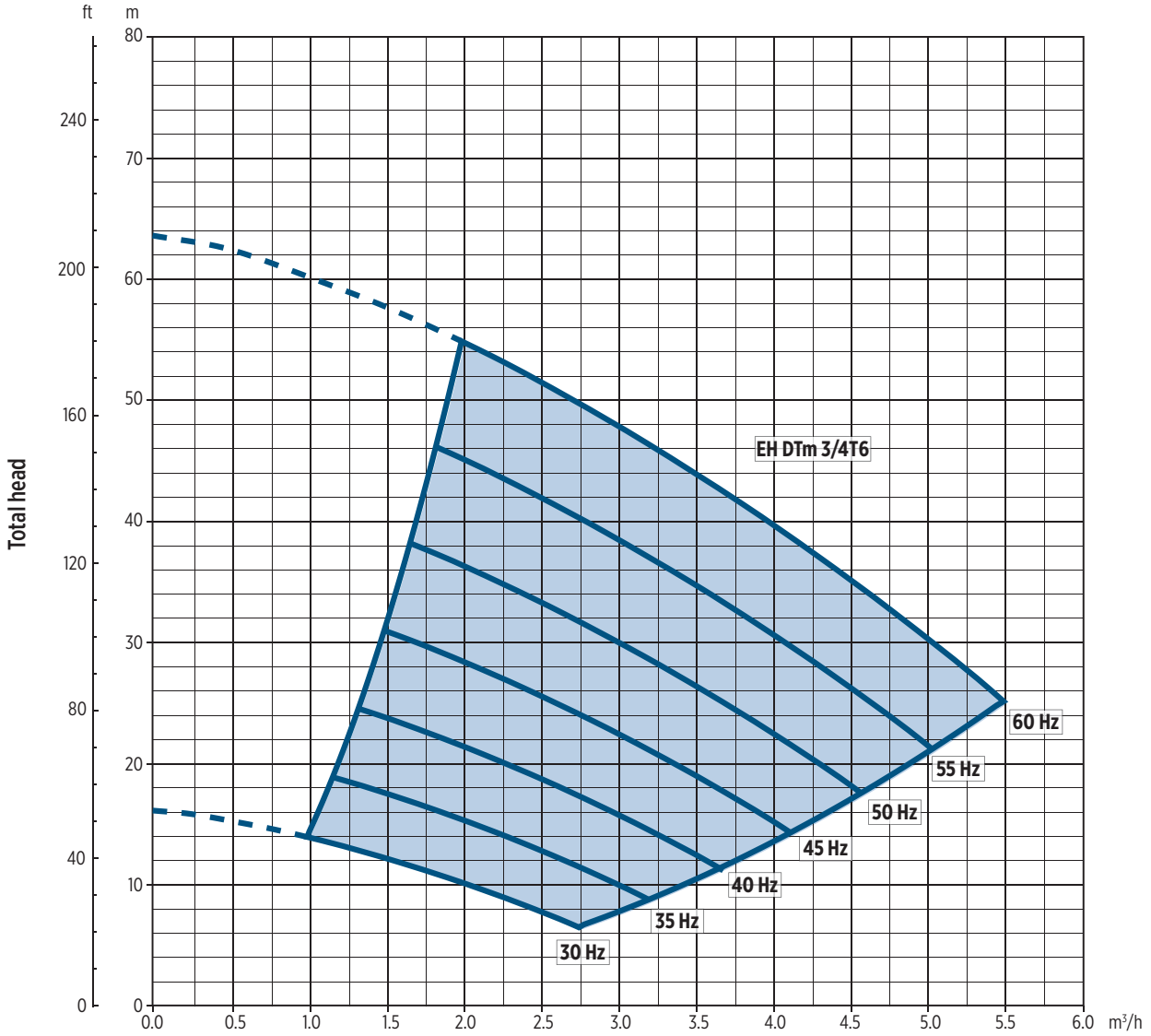
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# EH DTm 3/3T6 - PERFORMANCE CURVES



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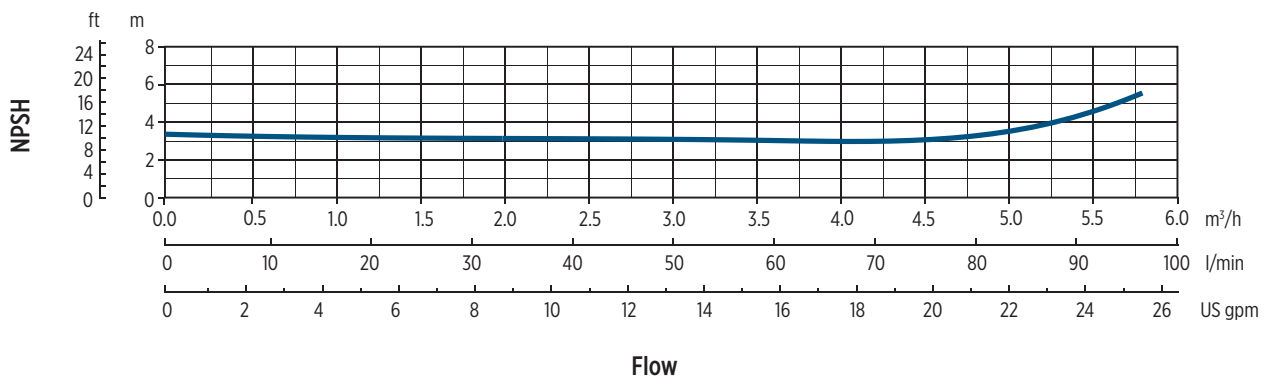
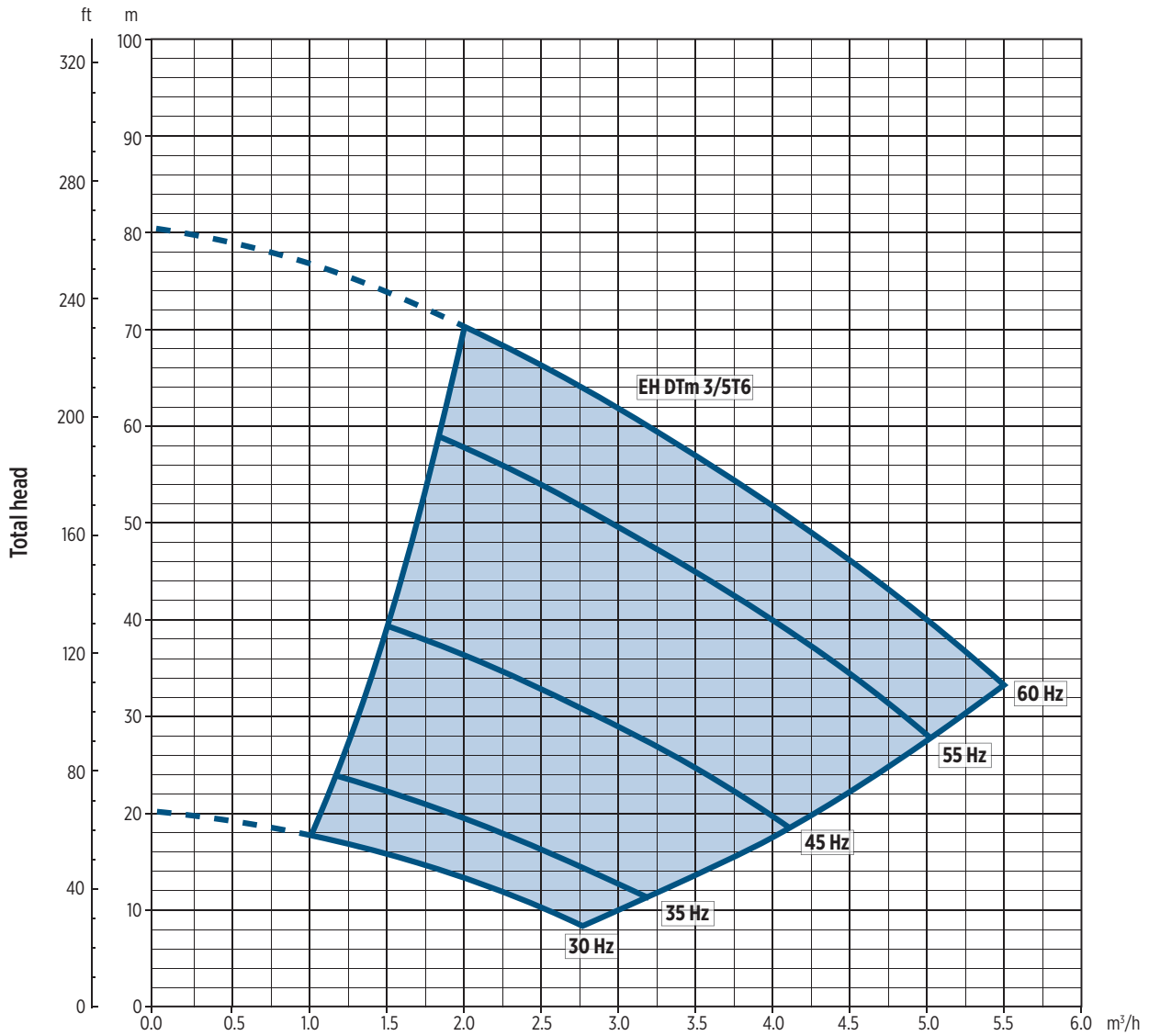
# EH DTm 3/4T6 - PERFORMANCE CURVES



0072035.06/201

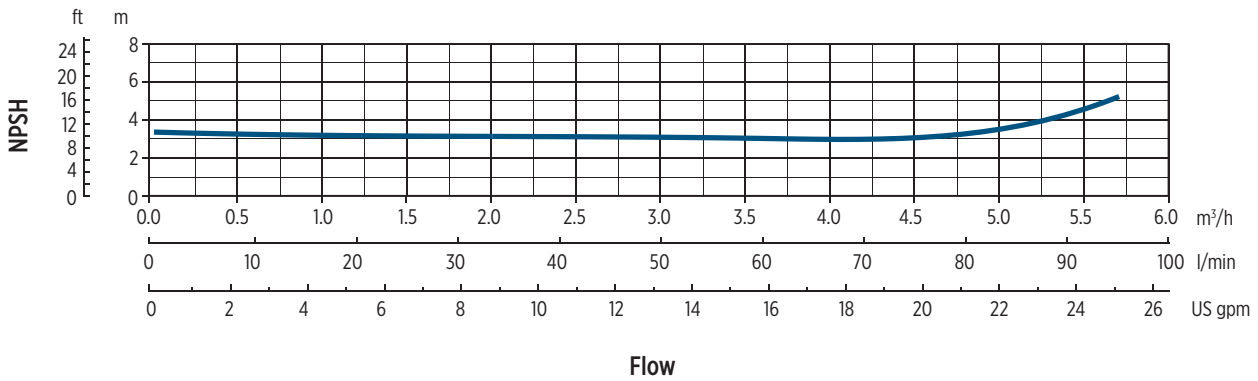
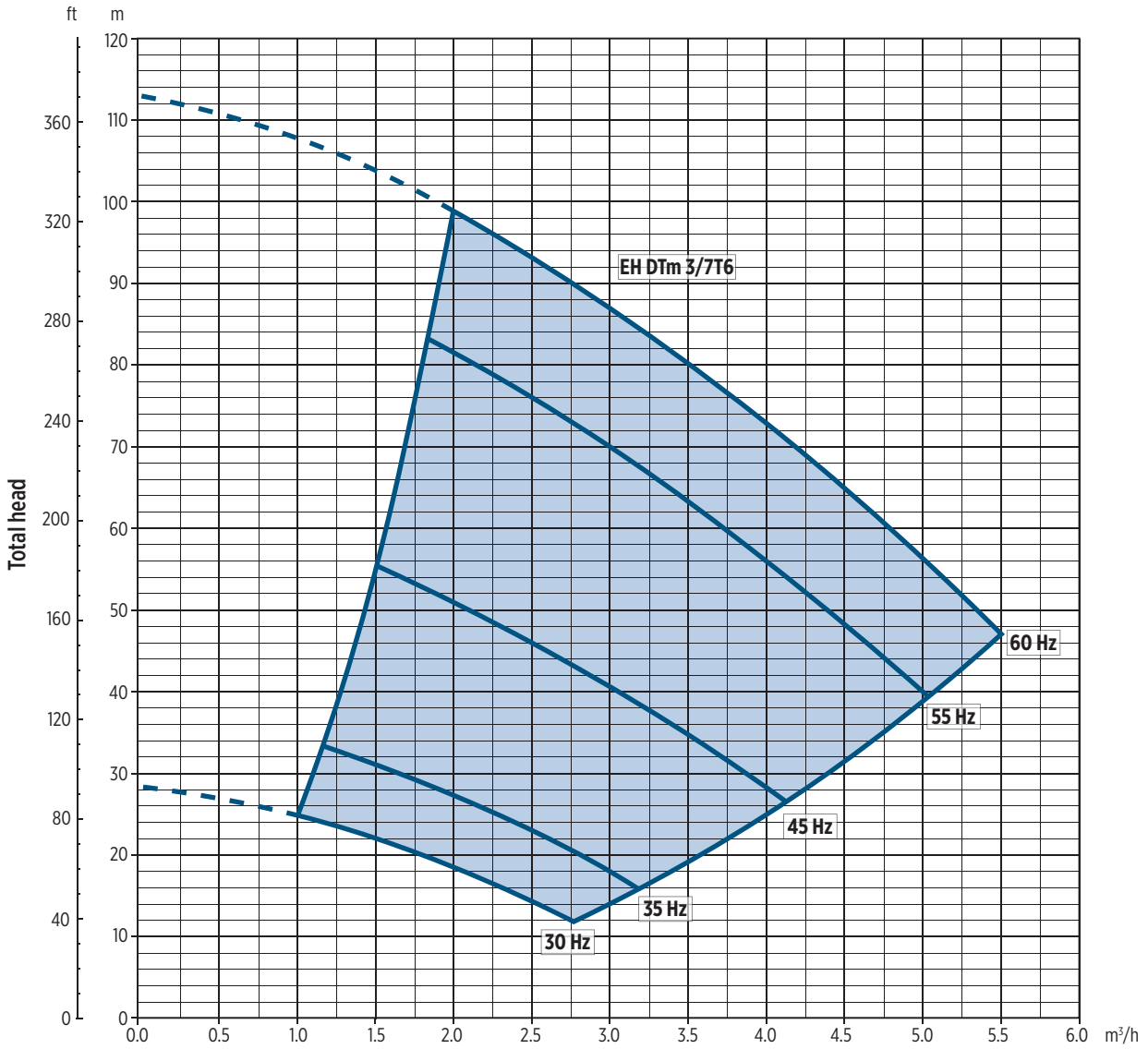


# EH DTm 3/5T6 - PERFORMANCE CURVES



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# EH DTm 3/7T6 - PERFORMANCE CURVES

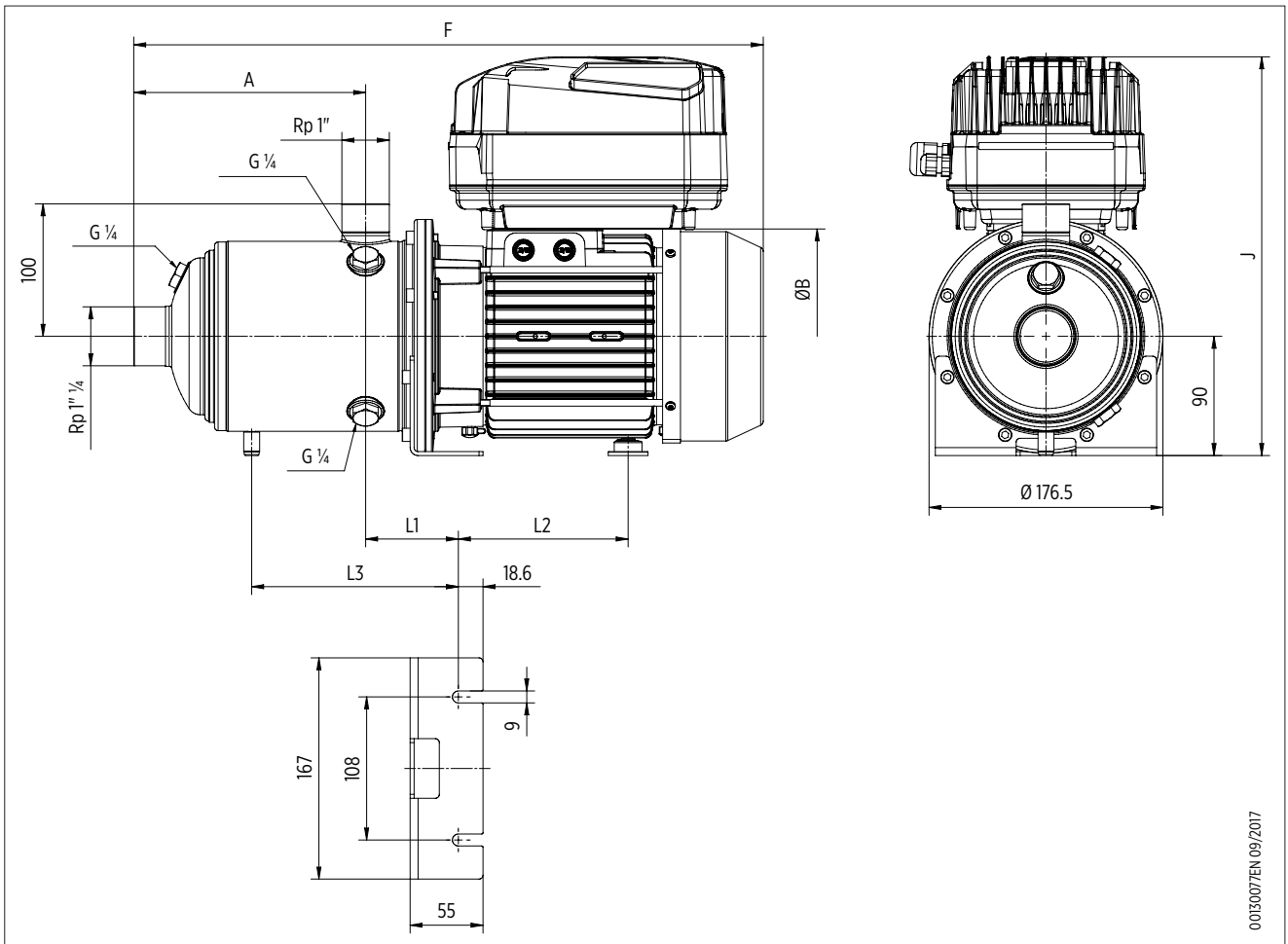


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## EH DTm 5 - TECHNICAL DATA

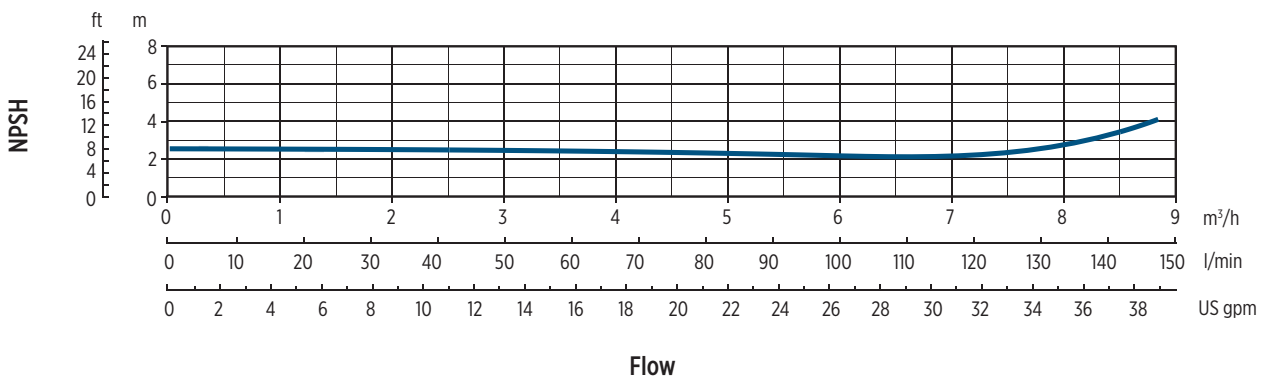
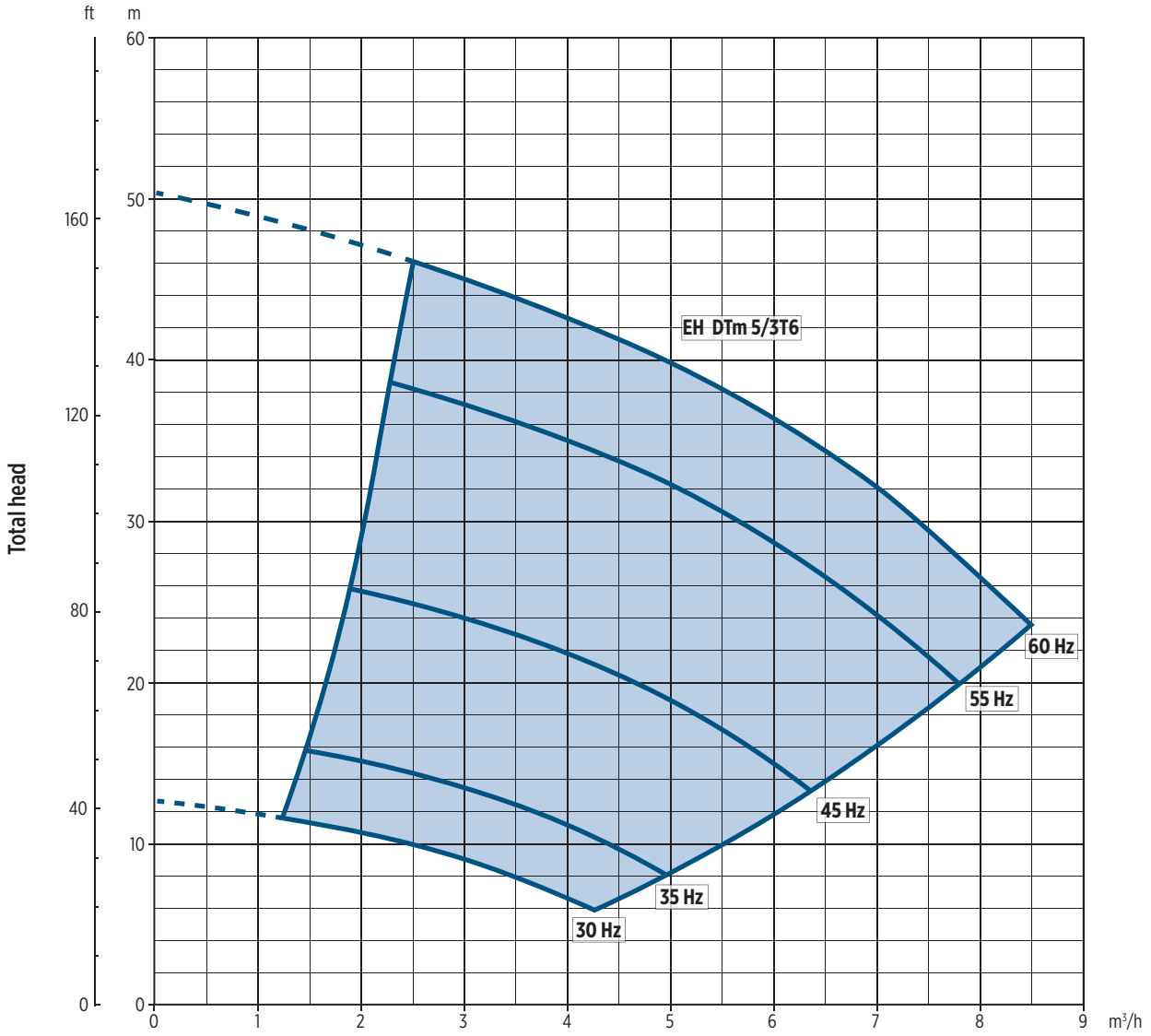
System model	Motor size	MOTOR NOMINAL POWER		POTENZA ASSORBITA	INPUT CURRENT [A]	Dimensions [mm]							Weight [Kg]
		[kW]	[HP]	[kW]	220-230 V	A	F	ØB	J	L1	L2	L3	
EH DTm 5/3T6	71	1.1	1.5	1.45	7.5	103	363	144	294	70	101	-	14
EH DTm 5/4T6	80	1.5	2	1.97	11	127	424	162	301	70	128	-	17.8
EH DTm 5/5T6	90	2.2	2.7	2.46	11	151	495	179	308	70	172	-	23.6

### DIMENSIONAL DRAWINGS



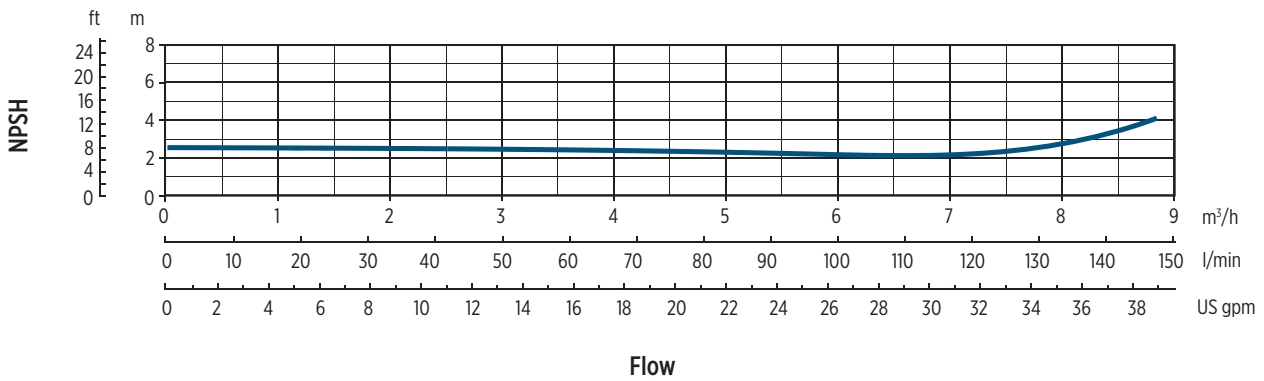
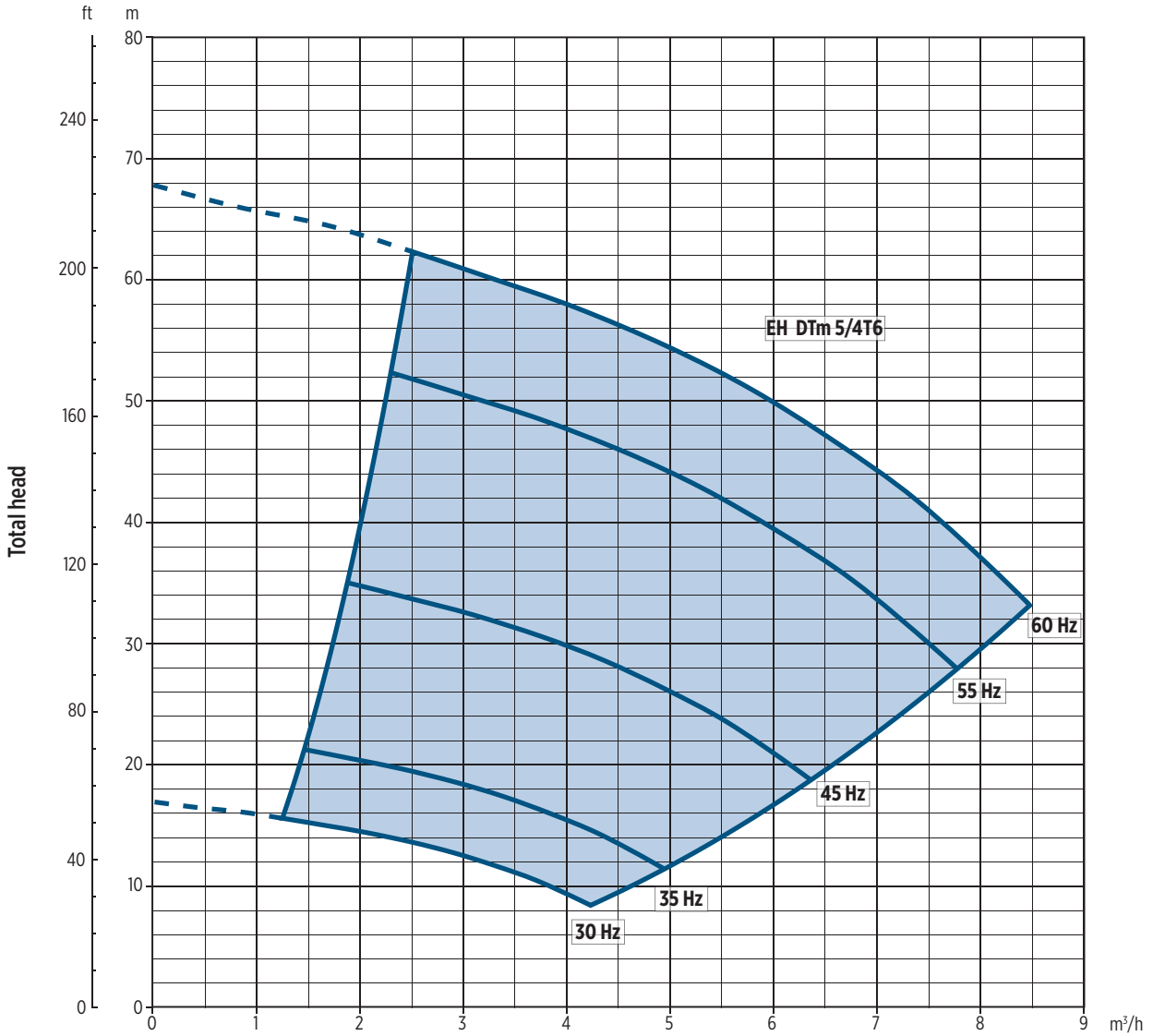
0013007EN 09/2017

# EH DTm 5/3T6 - PERFORMANCE CURVES



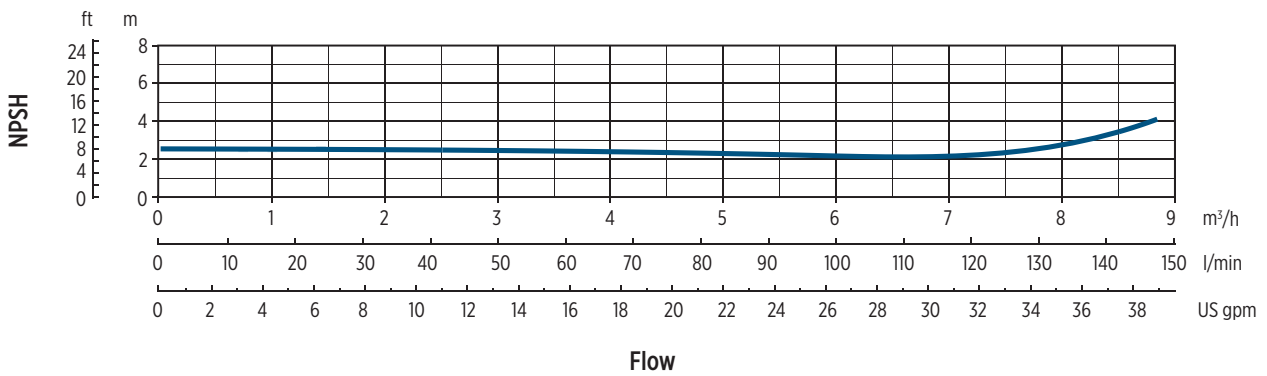
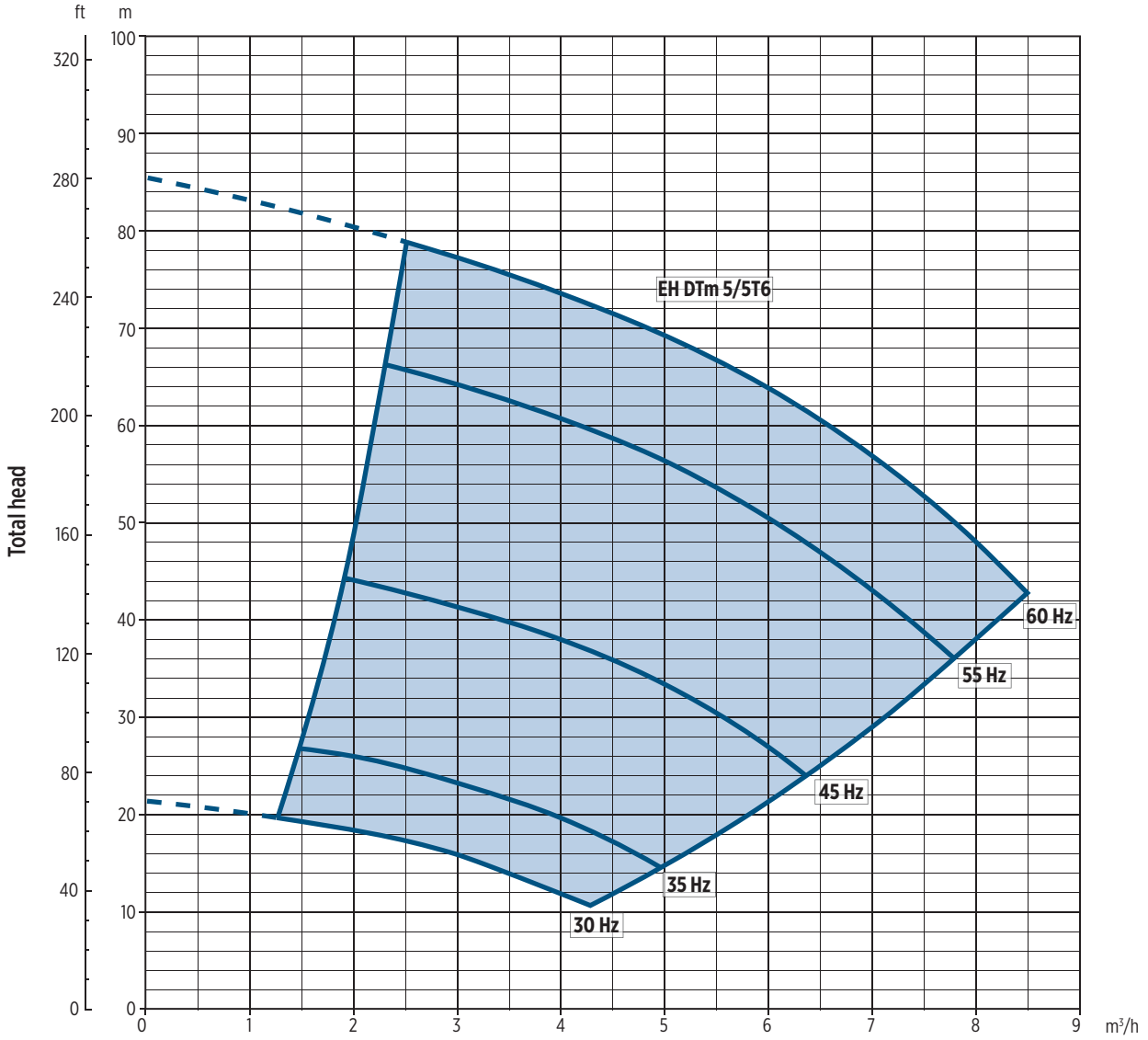
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# EH DTm 5/4T6 - PERFORMANCE CURVES



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# EH DTm 5/5T6 - PERFORMANCE CURVES

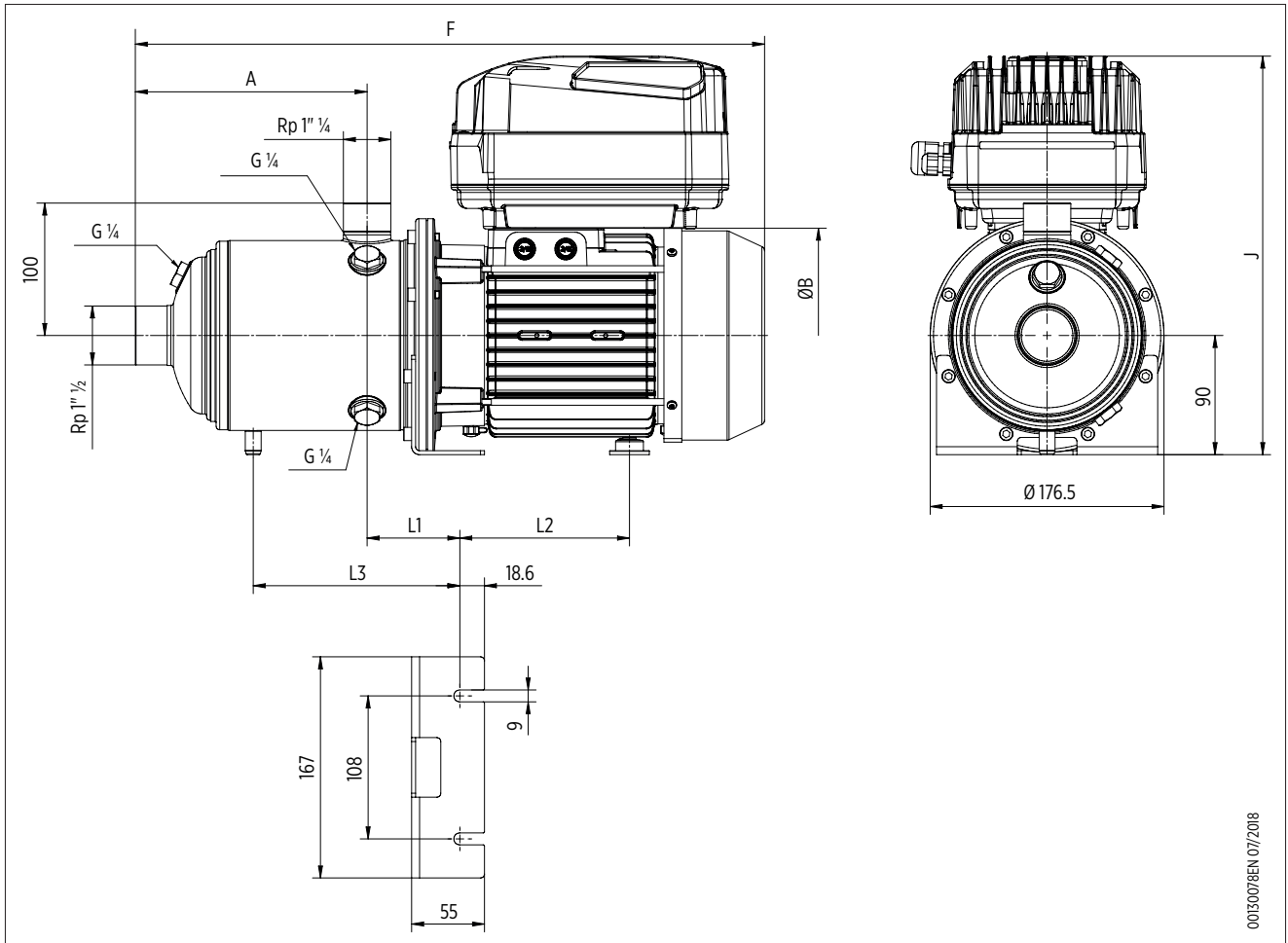


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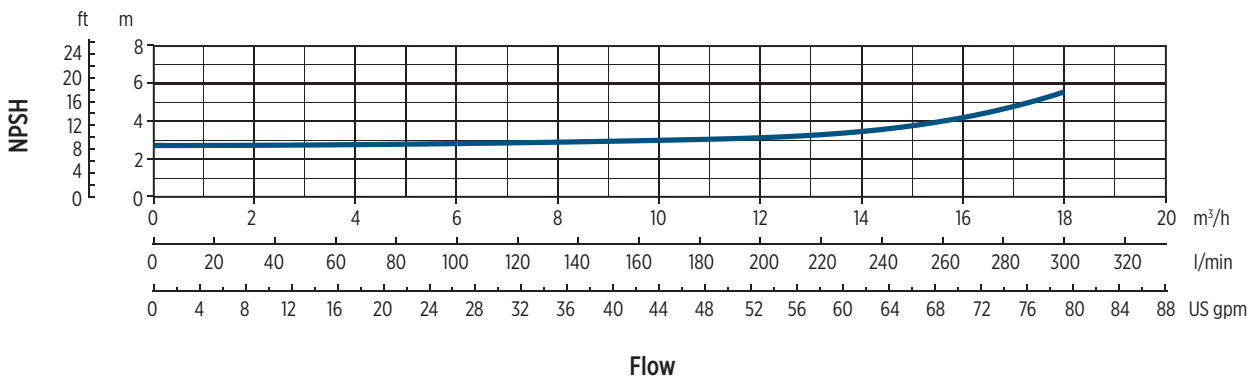
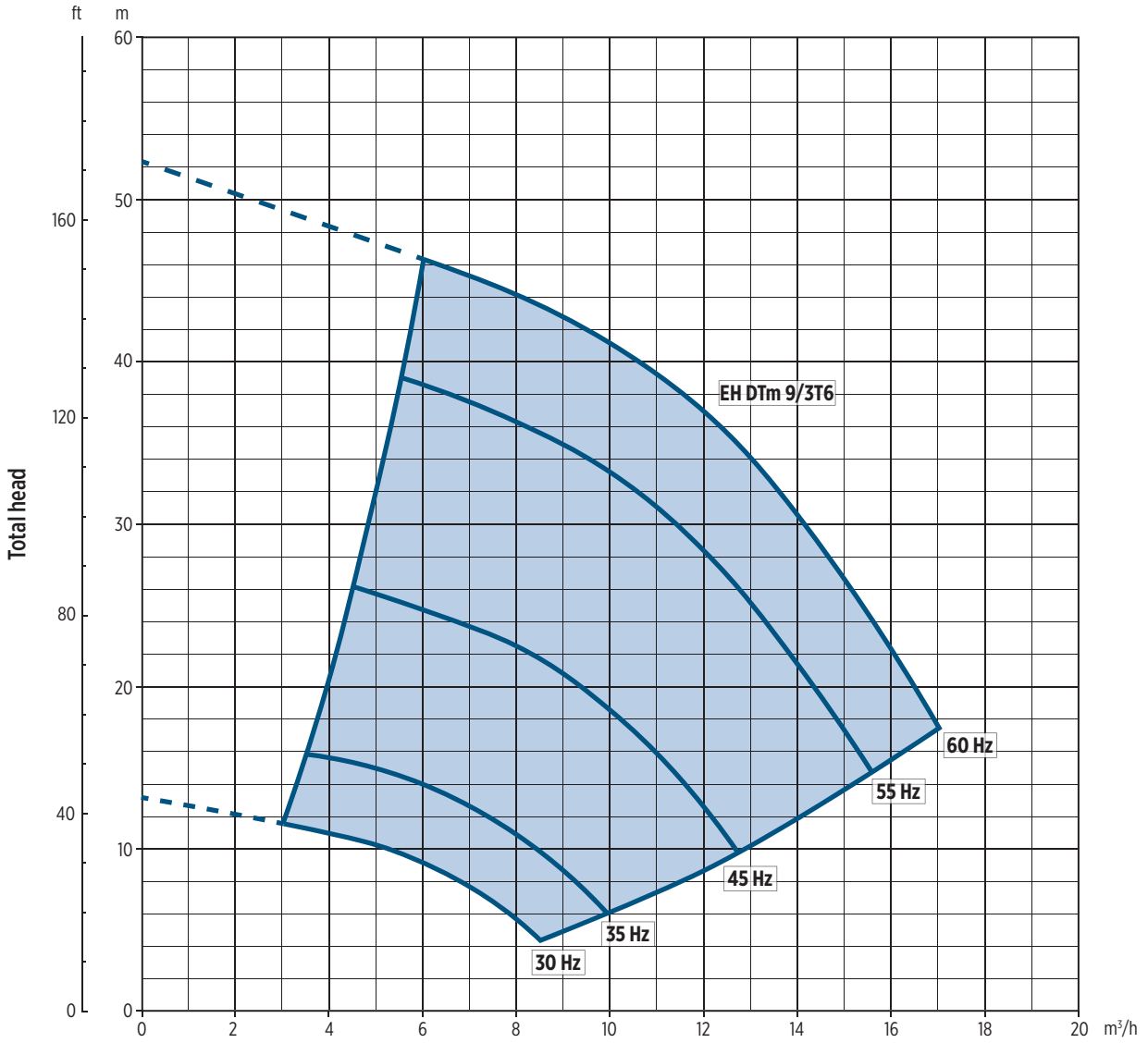
## EH DTm 9 - TECHNICAL DATA

System model	Motor size	MOTOR NOMINAL POWER		POTENZA ASSORBITA	INPUT CURRENT [A]	Dimensions [mm]							Weight [Kg]
		[kW]	[HP]	[kW]	220-230 V	A	F	ØB	J	L1	L2	L3	
EH DTm 9/3T6	90	2.2	2.7	2.54	11.0	118	466	179	308	74	172	-	22.8

### DIMENSIONAL DRAWINGS



# EH DTm 9/3T6 - PERFORMANCE CURVES



00120101EN/09/2017











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