



60HZ EH SERIES

HORIZONTAL MULTISTAGE PUMPS



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STAINLESS STEEL HORIZONTAL MULTISTAGE PUMPS

APPLICATIONS

Small domestic and industrial systems / Domestic water supply

Water distribution / pressure boosting

Irrigation / Gardening / Sprinklers / Rainwater collection

Industrial plants / Wash down unit

Cooling and chilling / Heating and conditioning / Air conditioning systems

Other various installations

FEATURES

Compact close-coupled design, robust and rust resistant / Superior efficiency and performances

Flexible application base plate

Floating neck ring in PTFE/PPS

Heavy duty oversize motor shaft

Impellers and diffusers are made of stainless steel in order to achieve durability

Easy maintenance

Strong and leak-proof motor rolling bearing fitted in the motor bracket

Pumping of clear non-loaded fluids

Mechanical seal carbon/ceramic/EPDM - EH 3 - 5 - 9 / Type E0

Mechanical seal carbon/silicon carbide/EPDM - EH 15 - 20 / Type E1

PUMP SPECIFICATIONS

Capacities: up to 35 m³/h

Heads: up to 104 m

Connections: Rp threaded for inlet and outlet

Maximum working pressure 10 Bar

Maximum allowable amount of sand 50 g/m³

Maximum ambient temperature 40°C

Liquid temperature range: Minimum: from -15°C to -10°C according to gasket material
Maximum: +90°C for domestic use (uses covered by CEI EN standard 60335-2-41);
+110°C only for industrial use (uses other than those covered by CEI EN standard 60335-2-41)

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

MOTOR SPECIFICATIONS

Single-phase and Three-phase motor

Asynchronous, TEFC (Totally Enclosed, Fan-Cooled)

2 pole

IP55 protection motor, Insulation class F

Standard voltage

Single-phase: 220-230 V ± 5 %. Thermal protection built into the motor.

Three-phase: 220-230 / 380-400 V ± 5 % up to 3kW. Thermal protection to be provide into the starter panel by the installer.

Starts per hour: for motor power up to 3kW the allowed starts are 60. Waiting time between two consecutive starts 1 minute.
for motor power from 4kW the allowed starts are 30. Waiting time between two consecutive starts 2 minutes.

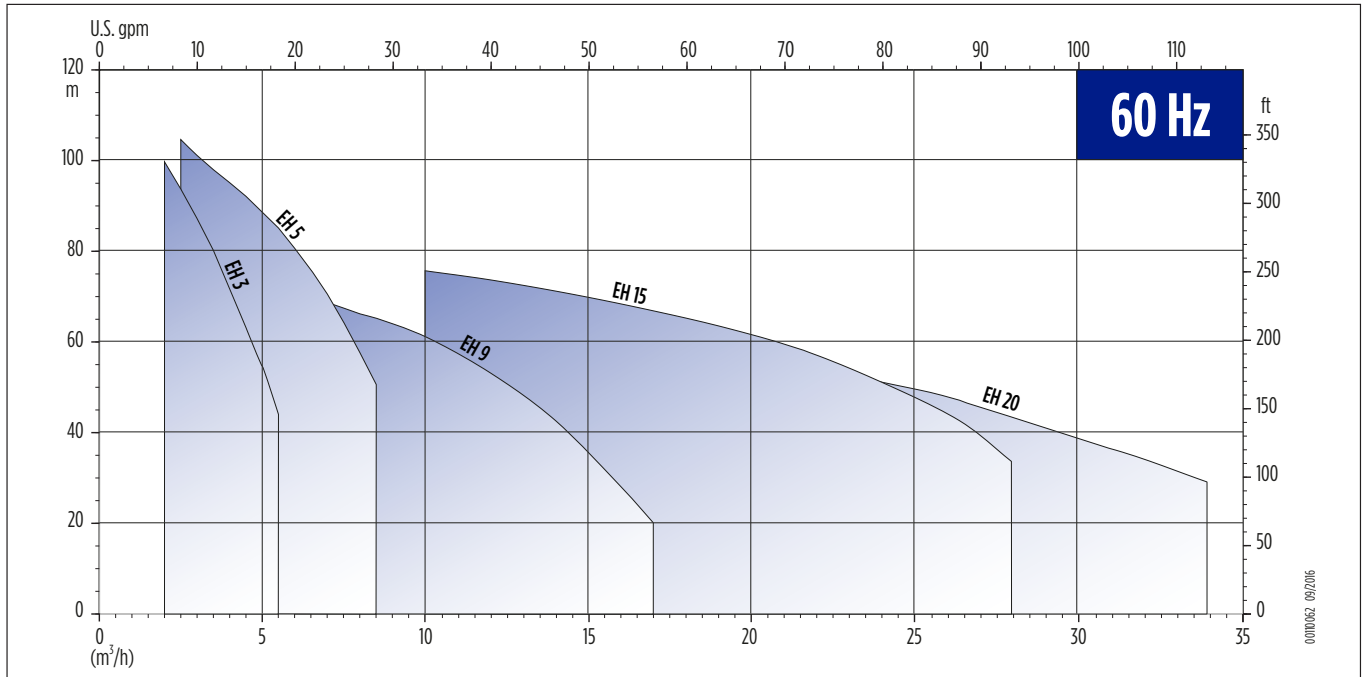
AVAILABLE ON REQUEST

Special mechanical seal

Discharge inlet/outlet NPT

Inlet connection 1" Rp for EH3

IE3 motors efficiency



PUMP IDENTIFICATION CODE

EH 15 / 03 I 040 T 6 E1

Pumps speciality - Standard configuration if empty
Mechanical seal type
Frequency: 5 (50Hz); 6 (60Hz)
M (Single phase); T (Three phase)
Motor power kW x 10
Pump material: I (AISI304); N (AISI316)
Number of stages
Nominal flow rate in m³/h
Pump model

MATERIALS/FLUIDS COMPATIBILITY

Pos.	PARTS DESCRIPTION	Type	I version		N version	
			ASTM/AISI	DIN/EN	ASTM/AISI	DIN/EN
20.00	Pump casing	Stainless steel	AISI 304	1.4301	AISI 316	1.4401
20.02	Seal housing	Stainless steel	AISI 304	1.4301	AISI 316	1.4401
20.05	Filing and drain plug	Stainless steel	AISI 304	1.4301	AISI 316	1.4401
20.07	Inlet cover	Stainless steel	AISI 304	1.4301	AISI 316	1.4401
30.05	O-Ring	EPDM	-	-	-	-
30.06	Mechanical seal	EH3-5-9	Carbon / Ceramic / EPDM			
		EH15-20	Carbon / Silicon carbide / EPDM			
30.08	Pump shaft	Stainless steel	AISI 304	1.4301	AISI 316	1.4401
30.09	Screws and washers	Stainless steel	AISI 304	1.4301	AISI 316	1.4401
40.00						
40.01	Diffuser/s	Stainless steel	AISI 304	1.4301	AISI 316	1.4401
40.03						
40.02	Floating neck ring assembly	PTFE/PPS	-	-	-	-
50.00						
50.01	Impeller/s with spacers	Stainless steel	AISI 304	1.4301	AISI 316	1.4401

EH 3-5-9-15-20

TABLE OF HYDRAULIC PERFORMANCES AT 60HZ

PUMP TYPE	Q = DELIVERY																											
	l/min 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	166,7	200,0	233,3	266,7	283,3	300,0	333,0	367,0	400,0	433,5	466,5	500,0	583,0	566,0	
	m³/h 0	2	2,5	3	3,5	4	4,5	5	5,5	6	7	8	8,5	10	12	14	16	17	18	20	22	24	28	28	30	32	34	
	US GPM 0	8,8	11,0	13,2	15,4	17,6	19,8	22,0	24,2	26,4	30,8	35,2	37,4	44,0	52,8	61,6	70,4	74,8	79,2	88,0	96,8	105,6	114,4	123,2	132,0	140,8	149,6	
H = TOTAL HEAD METERS COLUMN OF WATER																												
EH 3/26	31,5	29	27,5	25,5	23,5	21	18,5	16	13	10																		
EH 3/36	46	42	39,5	36,5	33,5	29,5	26	22,5	18	13																		
EH 3/46	62,5	57	54	50	46	41	36,5	31,5	25,5	19																		
EH 3/56	77	70	65,5	61	55,5	49,5	44	37,5	30	22																		
EH 3/66	93,5	86	81,5	76	69,5	62,5	55,5	48	39	29																		
EH 3/76	108,5	99,5	93,5	87	80	71,5	63	54,5	44	32,5																		
EH 5/26	33		30	29,5	28,5	28	27	26	25	23,5	21	17	15															
EH 5/36	50		45,5	44,5	43,5	42,5	41	39,5	38	36	32	26,5	23															
EH 5/46	67		61,5	60	59	57,5	55,5	53,5	51,5	49	43,5	36,5	32,5															
EH 5/56	83,5		76	74	72,5	70,5	68	65,5	63	60	53	44	38,5															
EH 5/66	99		90	87,5	85,5	83	80	77,5	74	70	61,5	50,5	44,5															
EH 5/76	117		104,5	101	98	95	92	88,5	85	80,5	70,5	57,5	50,5															
EH 9/26	34									29,5	28,5	27,5	27	25,5	22,5	18	12,5	9,5										
EH 9/36	51,5									44,5	43	42	41,5	39	34,5	28	19,5	14,5										
EH 9/46	69									58	56	54,5	53,5	50	44	35,5	24	17,5										
EH 9/56	85,5									70,5	68,5	66	65	61	53	42,5	28	20										
EH 15/26	42													37,5	36,5	35,5	34	33,5	32,5	31	28,5	25,5	22	18				
EH 15/36	63,5													56,5	55	53,5	51,5	50	49	46	42,5	38,5	33	27,5				
EH 15/46	84,5													75	73,5	71	68	66,5	65	61,5	57	51	44	36,5				
EH 20/26	45,5														41	40,5	36,5	39	38,5	37,5	36	34,5	32	29	26,5	23	19	
EH 20/36	68														61,5	60,5	59	58	57,5	55,5	54	51	47,5	43,5	39	33,5	27,5	

EH Series

Technical data and Performance curves

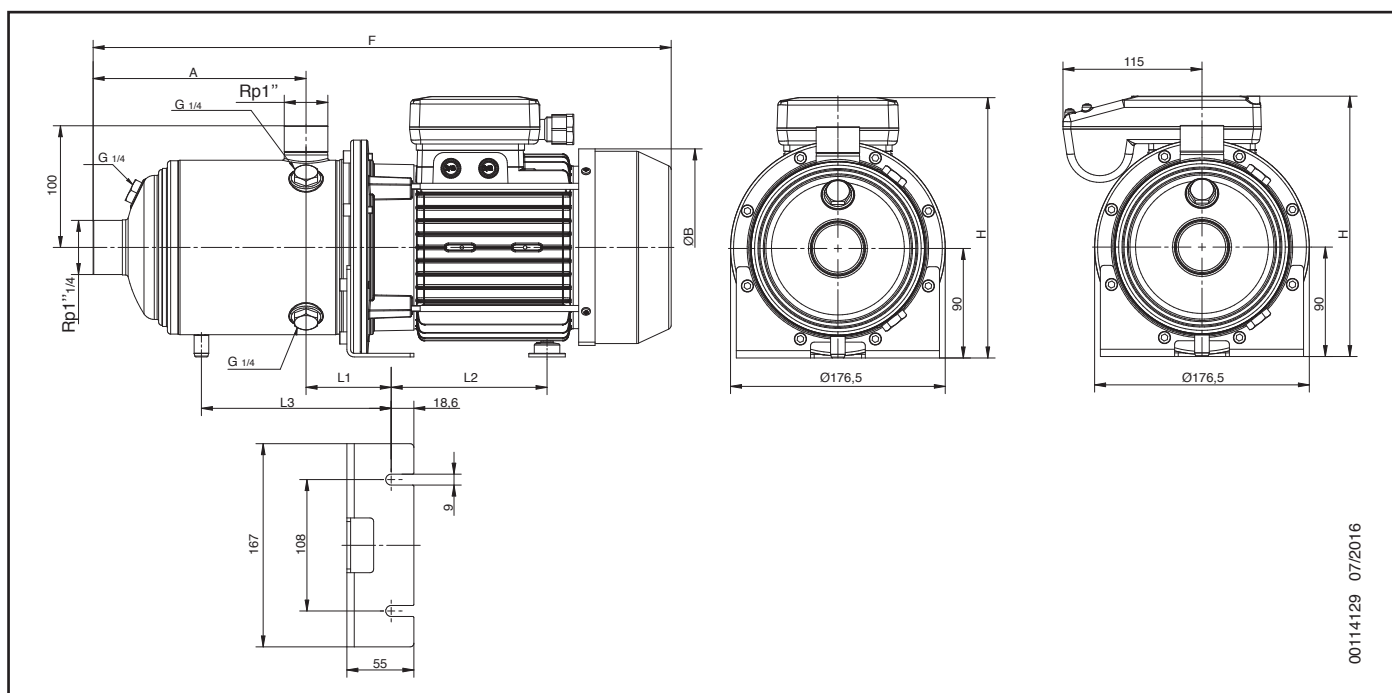
EH 3 60Hz

SINGLE-PHASE ELECTRIC PUMP CHARACTERISTICS

Pumps model	MOTOR SIZE	MOTOR NOMINAL POWER		INPUT POWER	CAPACITOR 450V	INPUT CURRENT [A]	DIMENSIONS [mm]							Weight (kg)
		kW	HP	kW	μF	220-230 V	A	F	ØB	H	L1	L2	L3	
EH 3/26	71	0,55	0,75	0,72	16	3,5	103	361	144	207	70	100,6	-	11,2
EH 3/36	71	0,75	1	0,98	16	4,7	103	361	144	207	70	100,6	-	11,4
EH 3/46	71	0,9	1,2	1,25	30	5,9	127	385	144	207	70	100,6	-	13,4
EH 3/56	71	1,1	1,5	1,52	30	7,1	151	409	144	207	70	100,6	-	13,8
EH 3/66	80	1,5	2	1,94	30	9,7	175	475	162	214	70	128,1	-	17,8
EH 3/76	80	1,5	2	2,20	30	10,8	199	499	162	214	70	128,1	180	18,2

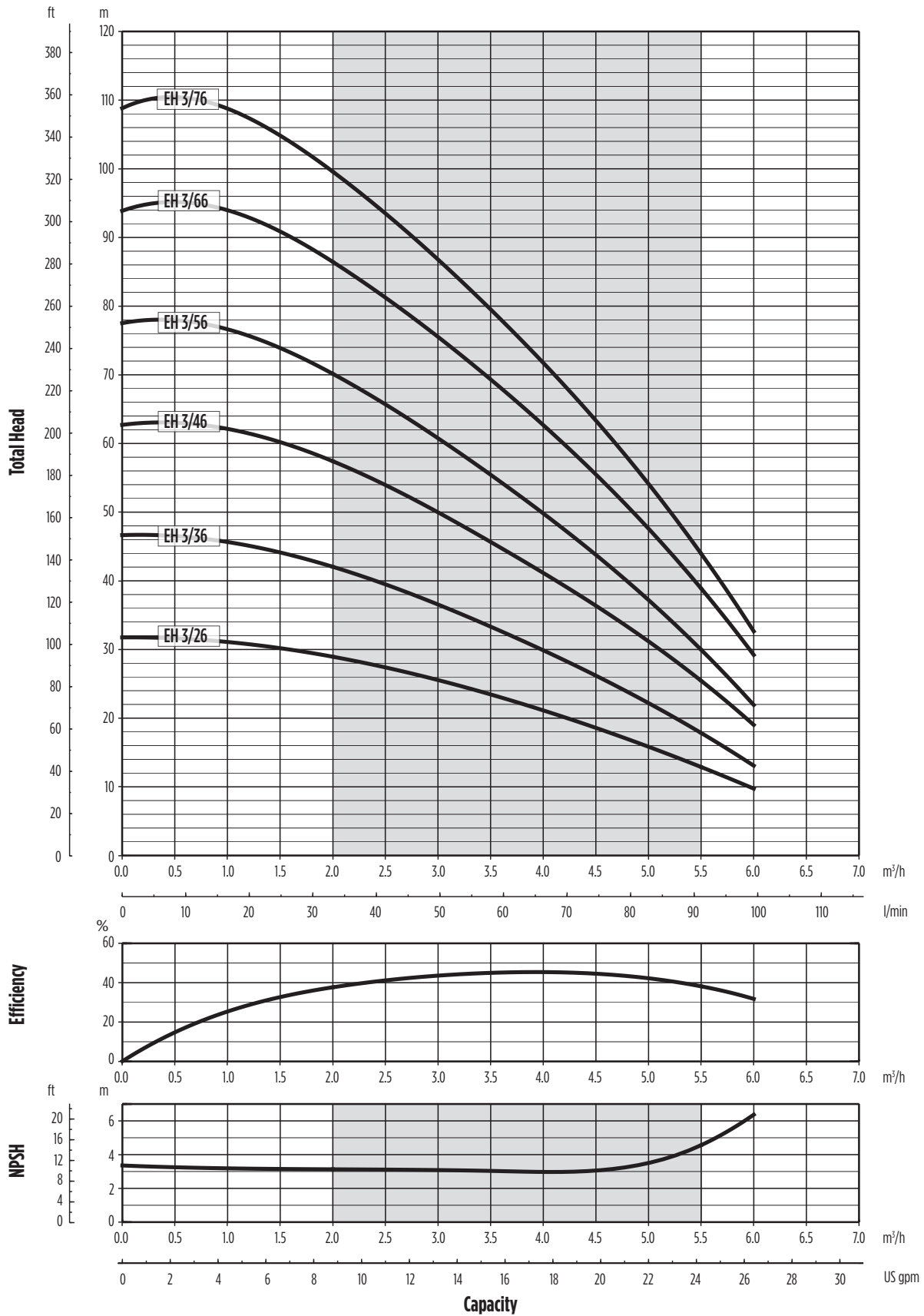
THREE-PHASE ELECTRIC PUMP CHARACTERISTICS

Pumps model	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	
EH 3/2T6	71	0,55	0,75	0,71	2,8	1,6	103	361	144	207	70	100,6	-	11
EH 3/3T6	71	0,75	1	0,98	3,4	1,9	103	361	144	207	70	100,6	-	11
EH 3/4T6	71	0,9	1,2	1,27	4,6	2,7	127	385	144	207	70	100,6	-	13
EH 3/5T6	71	1,1	1,5	1,53	5,2	3,0	151	409	144	207	70	100,6	-	13,6
EH 3/6T6	80	1,5	2	1,94	6,4	3,7	175	475	162	214	70	128,1	-	17,4
EH 3/7T6	80	1,5	2	2,21	7,0	4,0	199	499	162	214	70	128,1	180	18



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PERFORMANCE CURVES 60HZ



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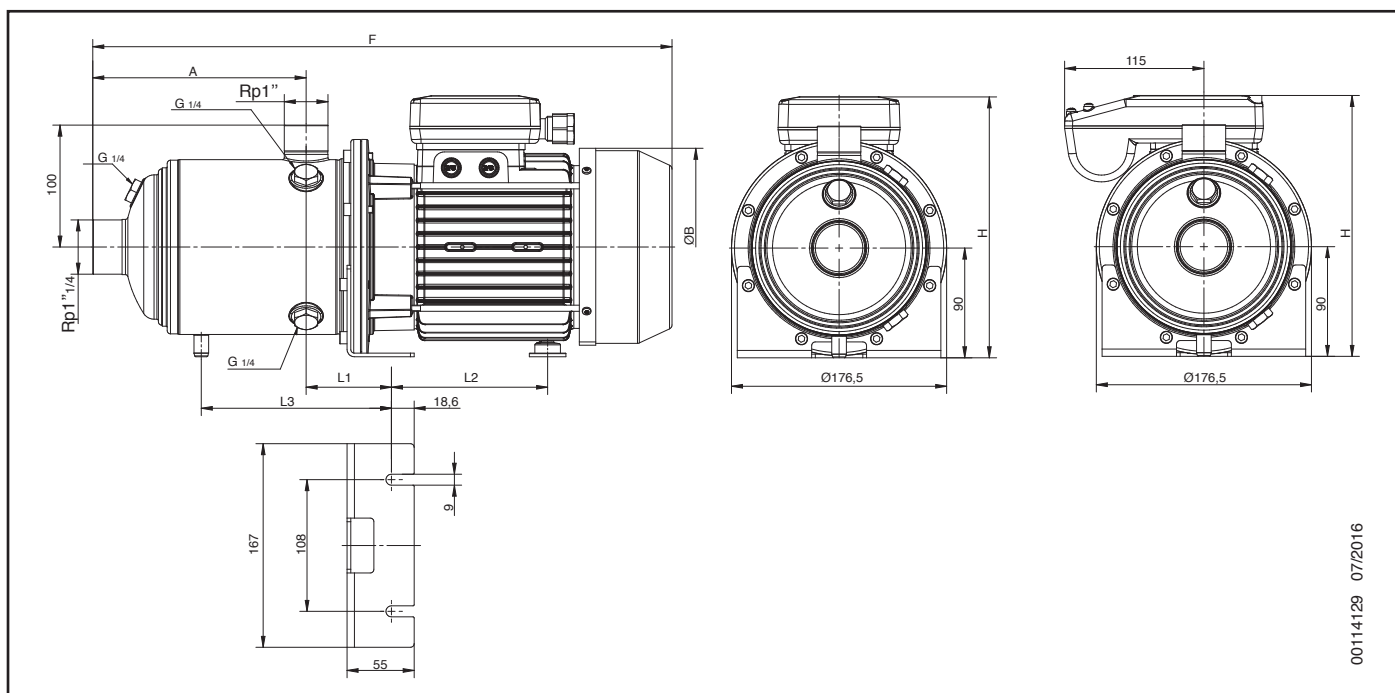
EH 5 60Hz

SINGLE-PHASE ELECTRIC PUMP CHARACTERISTICS

Pumps model	MOTOR SIZE	MOTOR NOMINAL POWER		INPUT POWER	CAPACITOR 450V	INPUT CURRENT [A]	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	100,6	-	11,2
EH 5/36	71	0,9	1,2	1,35	30	6,3	103	361	144	207	70	100,6	-	12,8
EH 5/46	80	1,1	1,5	1,89	30	9,5	127	427	162	214	70	128,1	-	16,6
EH 5/56	80	1,5	2	2,27	30	11,1	151	451	162	214	70	128,1	-	17,2

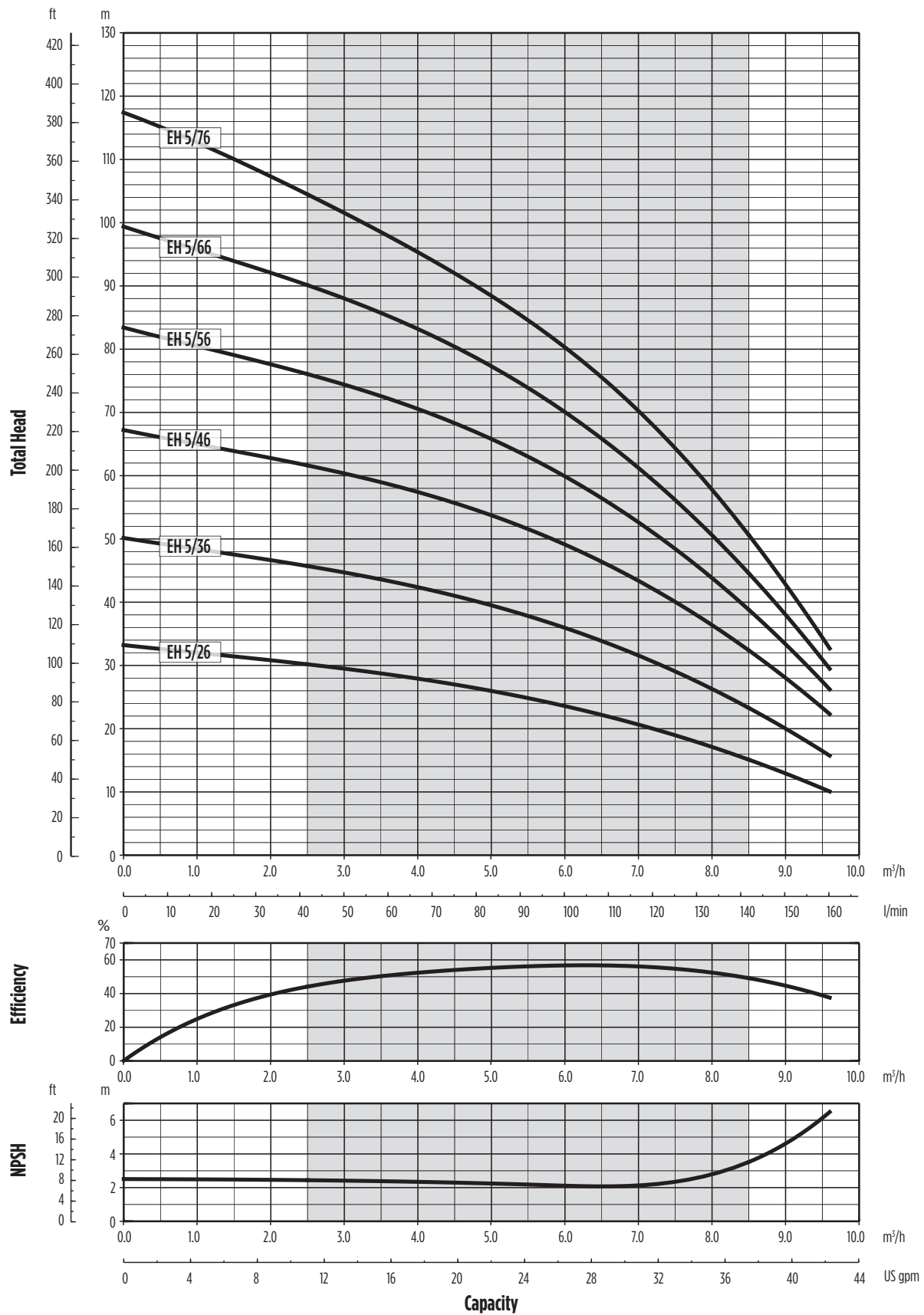
THREE-PHASE ELECTRIC PUMP CHARACTERISTICS

Pumps model	MOTOR SIZE	MOTOR NOMINAL POWER		INPUT POWER	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	0,96	3,3	1,9	103	361	144	207	70	100,6	-	11
EH 5/3T6	71	0,9	1,2	1,36	4,8	2,8	103	361	144	207	70	100,6	-	12,6
EH 5/4T6	80	1,1	1,5	1,89	6,3	3,6	127	427	162	214	70	128,1	-	16,4
EH 5/5T6	80	1,5	2	2,28	7,2	4,1	151	451	162	214	70	128,1	-	17
EH 5/6T6	80	2,2	3	2,66	8,1	4,7	175	475	162	214	70	128,1	-	17,4
EH 5/7T6	80	2,2	3	3,09	9,8	5,7	199	499	162	214	70	128,1	180	18



00114129 07/2016

PERFORMANCE CURVES 60HZ



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

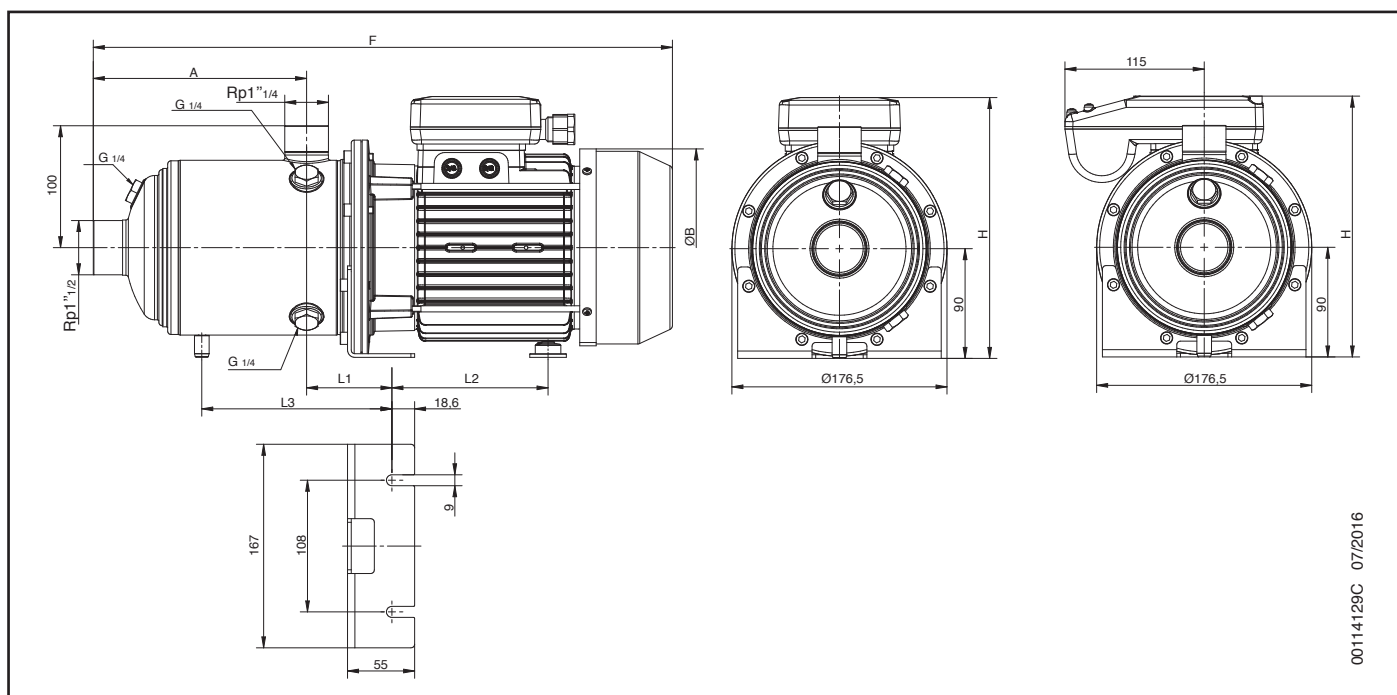
EH 9 60Hz

SINGLE-PHASE ELECTRIC PUMP CHARACTERISTICS

Pumps model	MOTOR SIZE	2 MOTOR NOMINAL POWER		INPUT POWER	CAPACITOR 450V	INPUT CURRENT [A]	DIMENSIONS [mm]							Weight (kg)
		kW	HP	kW	µF	220-230 V	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	100,6	-	13
EH 9/36	80	1,5	2	2,34	30	11,4	118	422	162	214	74	128,1	-	16,4

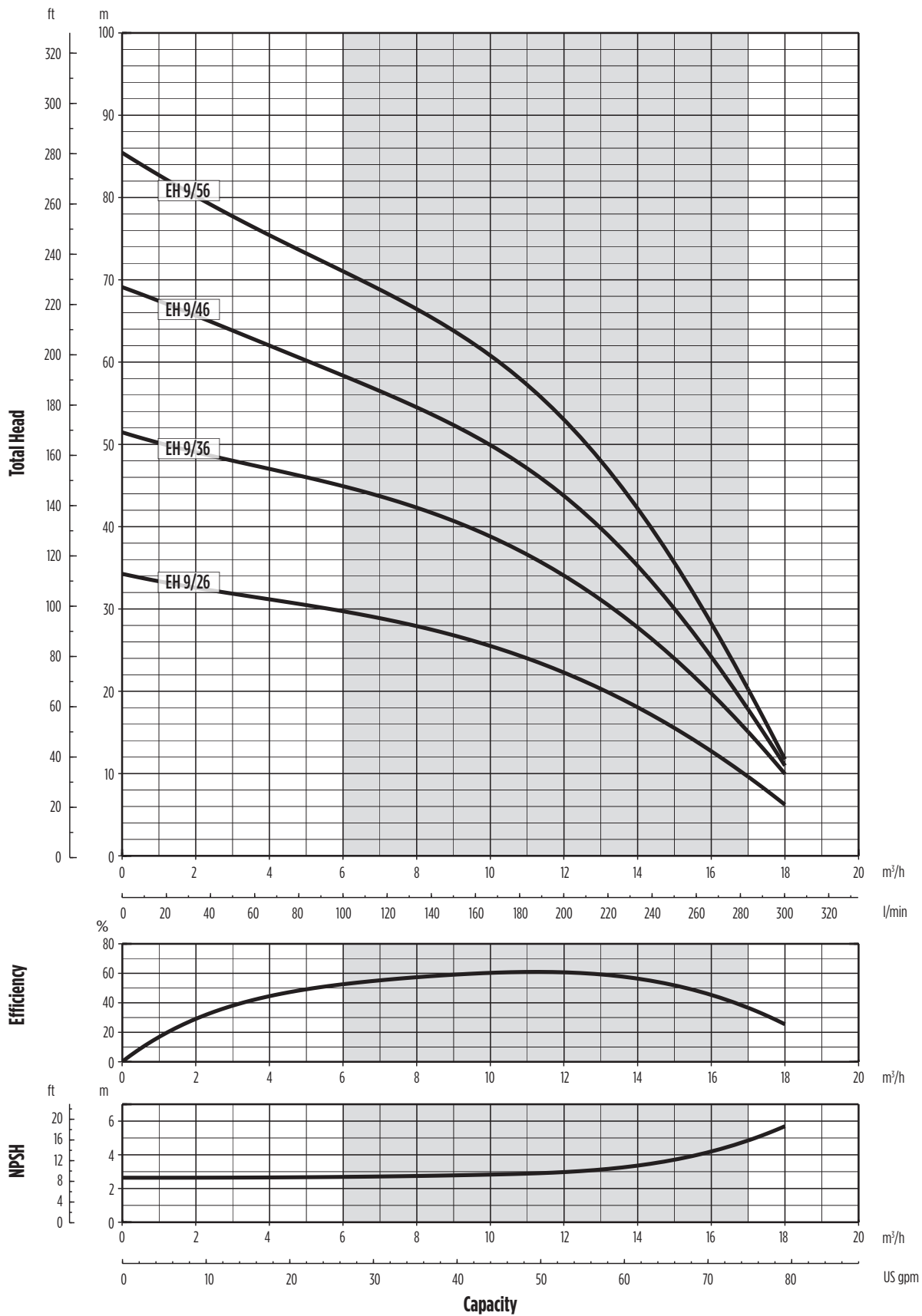
THREE-PHASE ELECTRIC PUMP CHARACTERISTICS

Pumps model	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	
EH 9/2T6	71	1,1	1,5	1,53	5,2	3,0	118	380	144	207	74	100,6	-	12,8
EH 9/3T6	80	1,5	2	2,35	7,3	4,2	118	422	162	214	74	128,1	-	16,2
EH 9/4T6	80	2,2	3	3,04	9,7	5,6	148	452	162	214	74	128,1	-	16,8
EH 9/5T6	80	3	4	3,74	11,4	6,6	178	485	162	214	74	128,1	-	17,4



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PERFORMANCE CURVES 60HZ

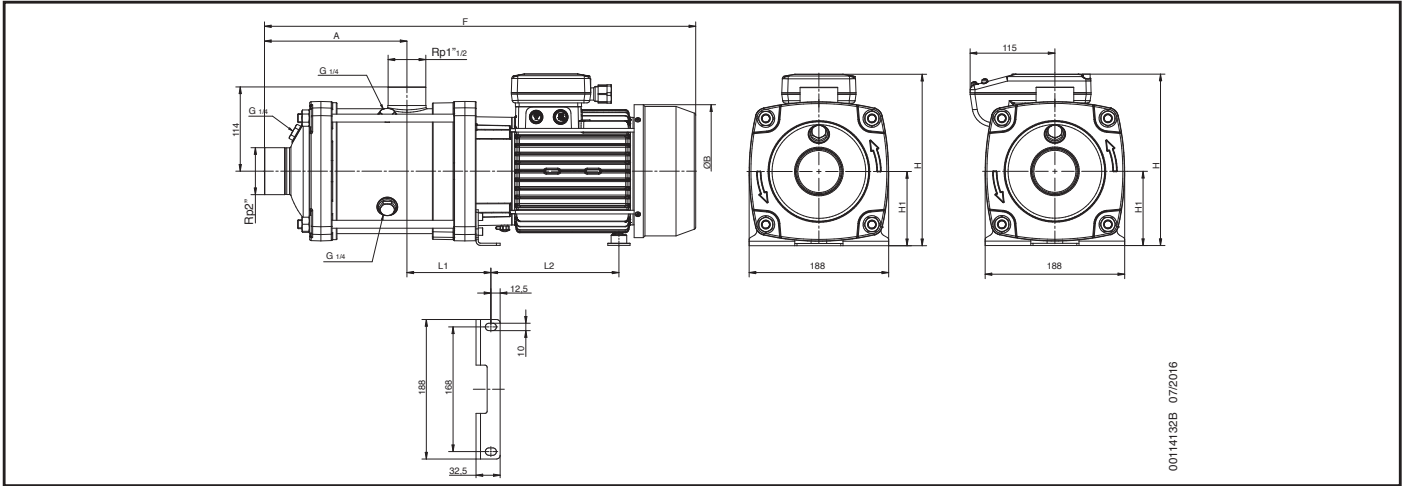


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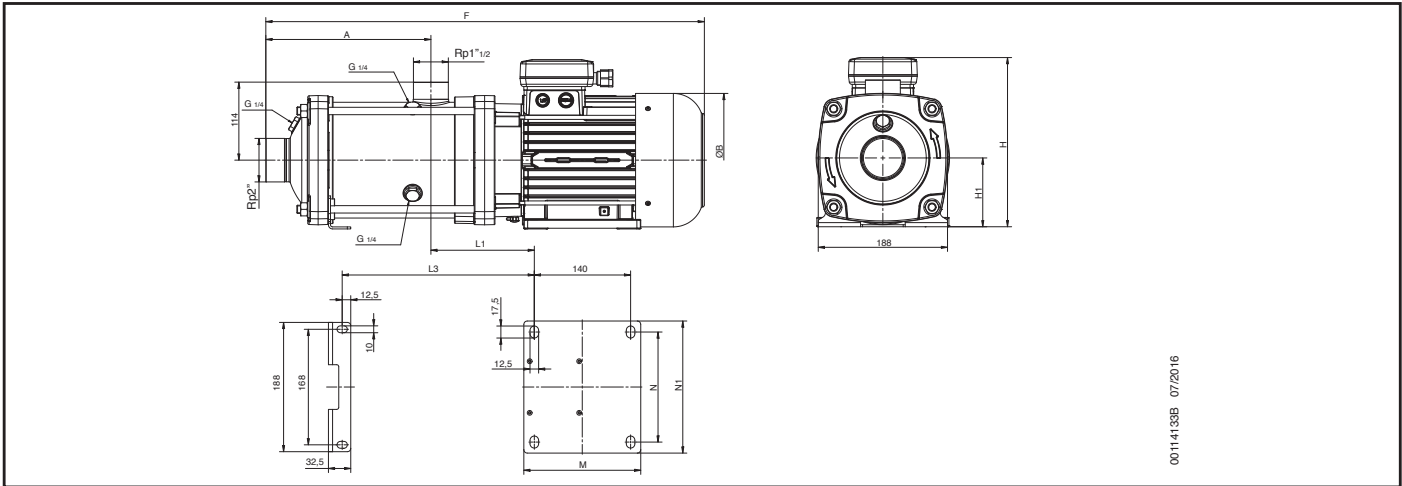
EH 15 60Hz

THREE-PHASE IE3 ELECTRIC PUMP CHARACTERISTICS

Pumps 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	HI	L1	L2	L3	M	N		N1
EH 15/2T6	90	3	4	2,87	8,0	4,6	144	565	179	231	100	113,1	172,6	-	-	-	-	27
EH 15/3T6	100	4	5,5	4,27	12,8	7,4	144	570	194	246	100	150,2	-	279,2	170	160	192	34,4
EH 15/4T6	112	5,5	7,5	5,61	17,1	9,9	192	634	218	263	112	151,7	-	328,7	180	190	220	43,4

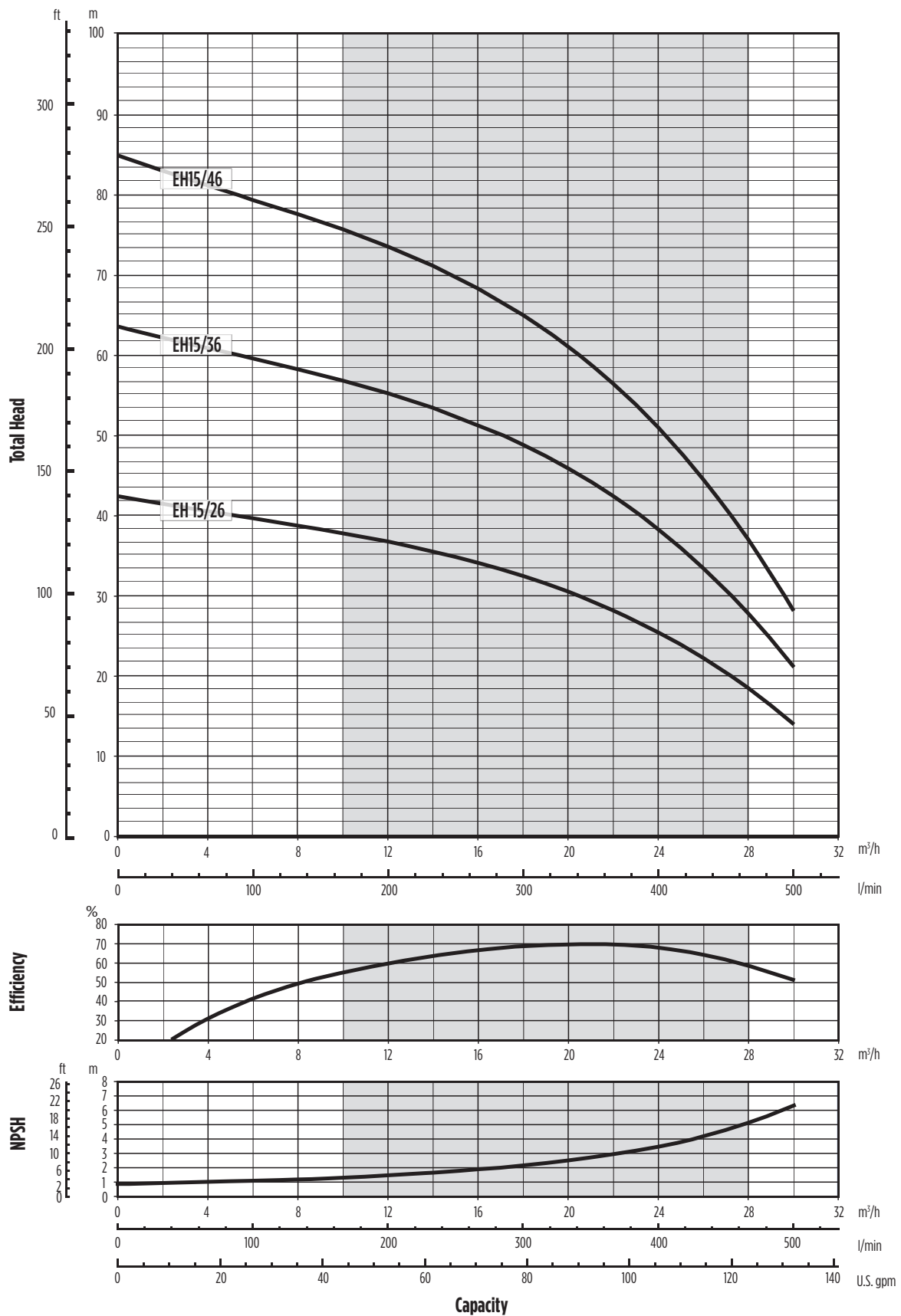


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PERFORMANCE CURVES 60HZ



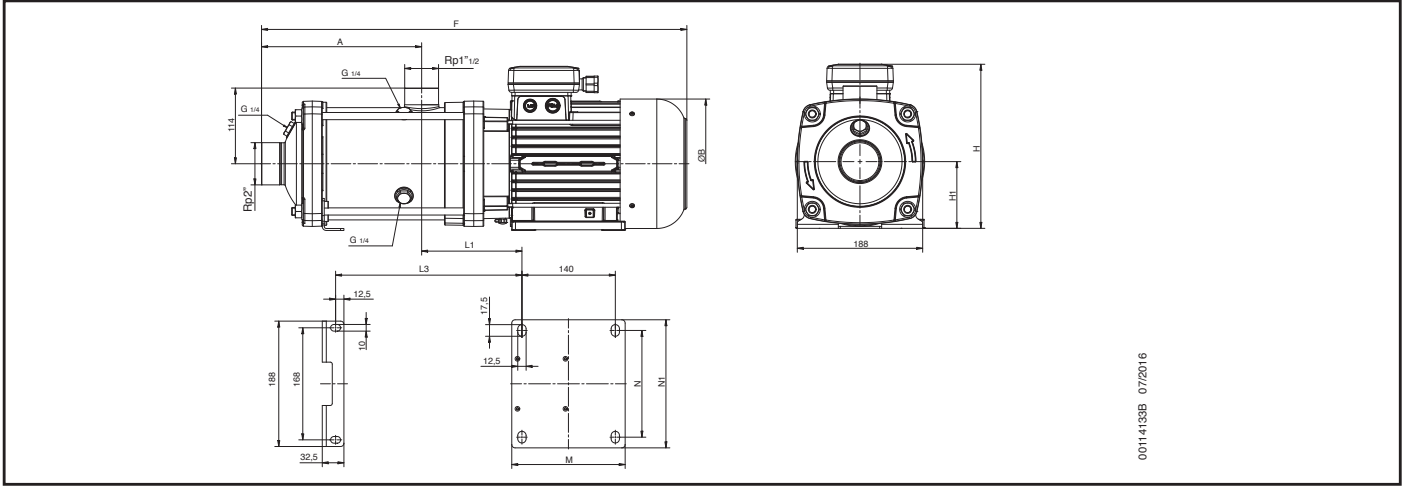
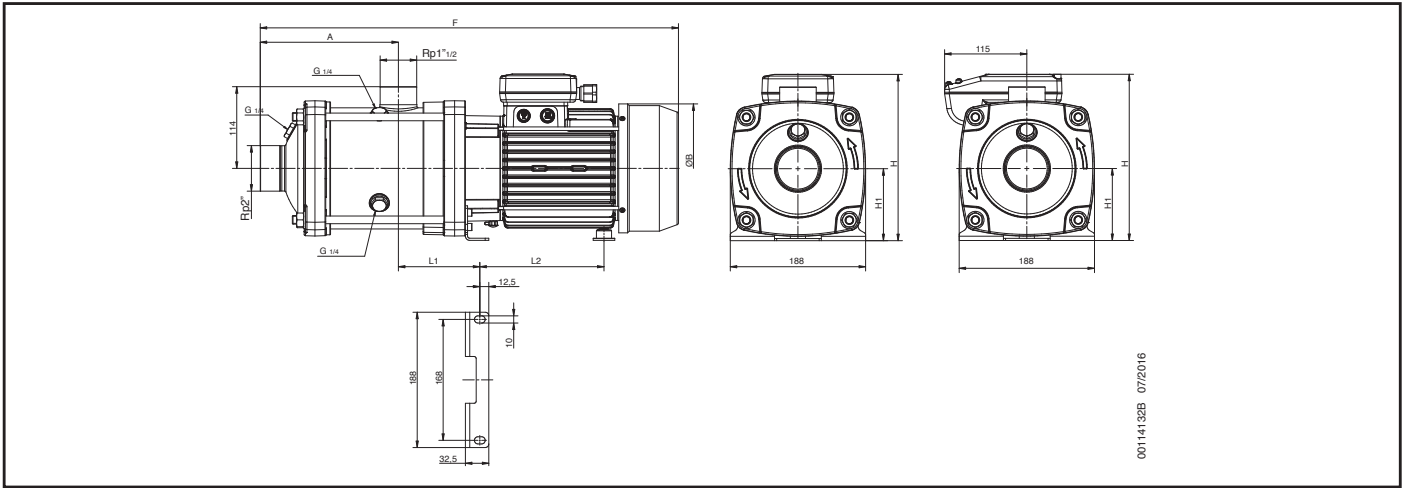
The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

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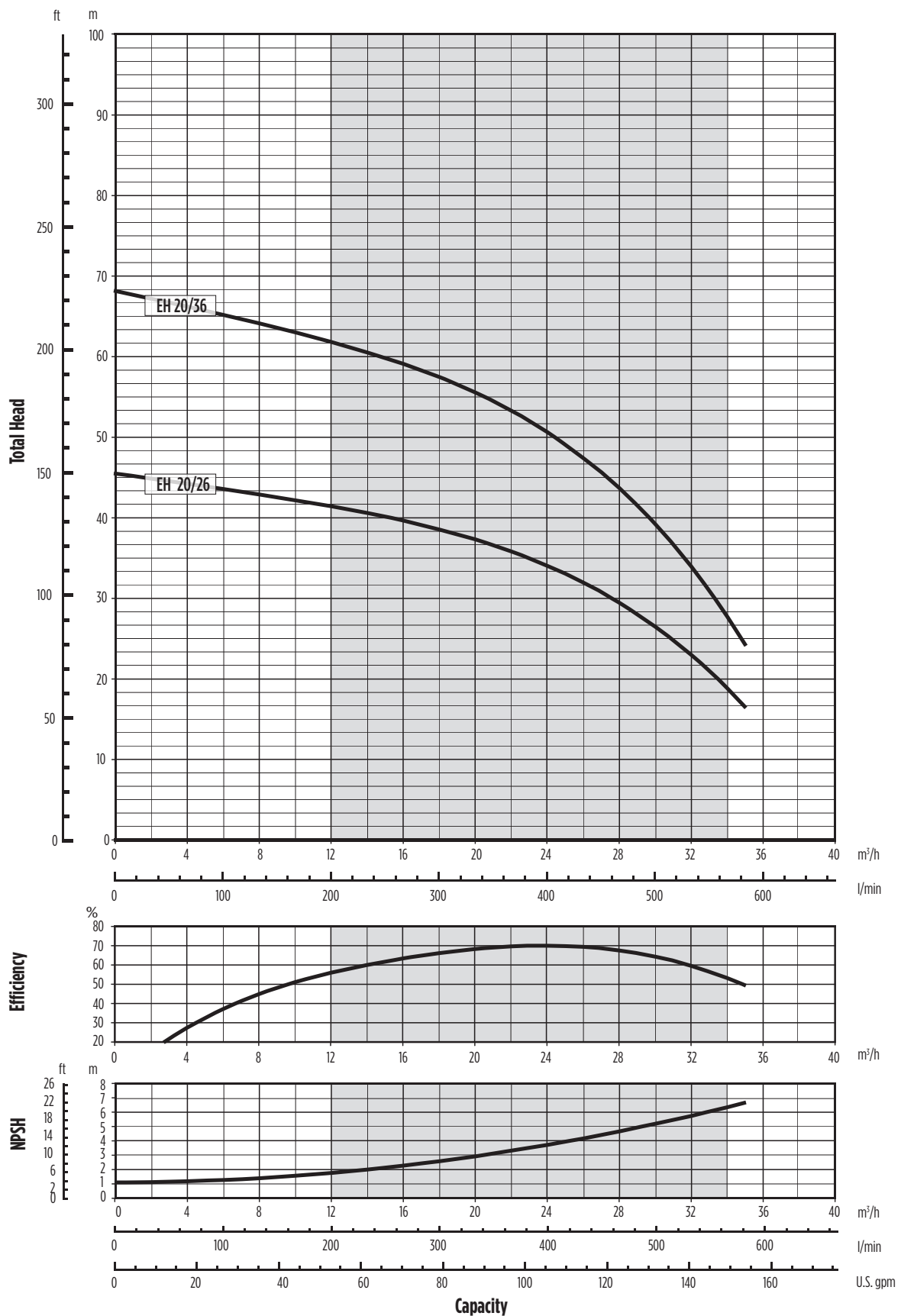
EH 20 60Hz

THREE-PHASE IE3 ELECTRIC PUMP CHARACTERISTICS

Pumps model	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	HI	L1	L2	L3	M		N
EH 20/2T6	100	4	5,5	3,93	11,9	6,9	144	570	194	246	100	150,2	-	231,2	170	160	192	34
EH 20/3T6	112	5,5	7,5	5,77	17,5	10,1	144	586	218	263	112	151,7	-	280,7	180	190	220	42,2



PERFORMANCE CURVES 60HZ



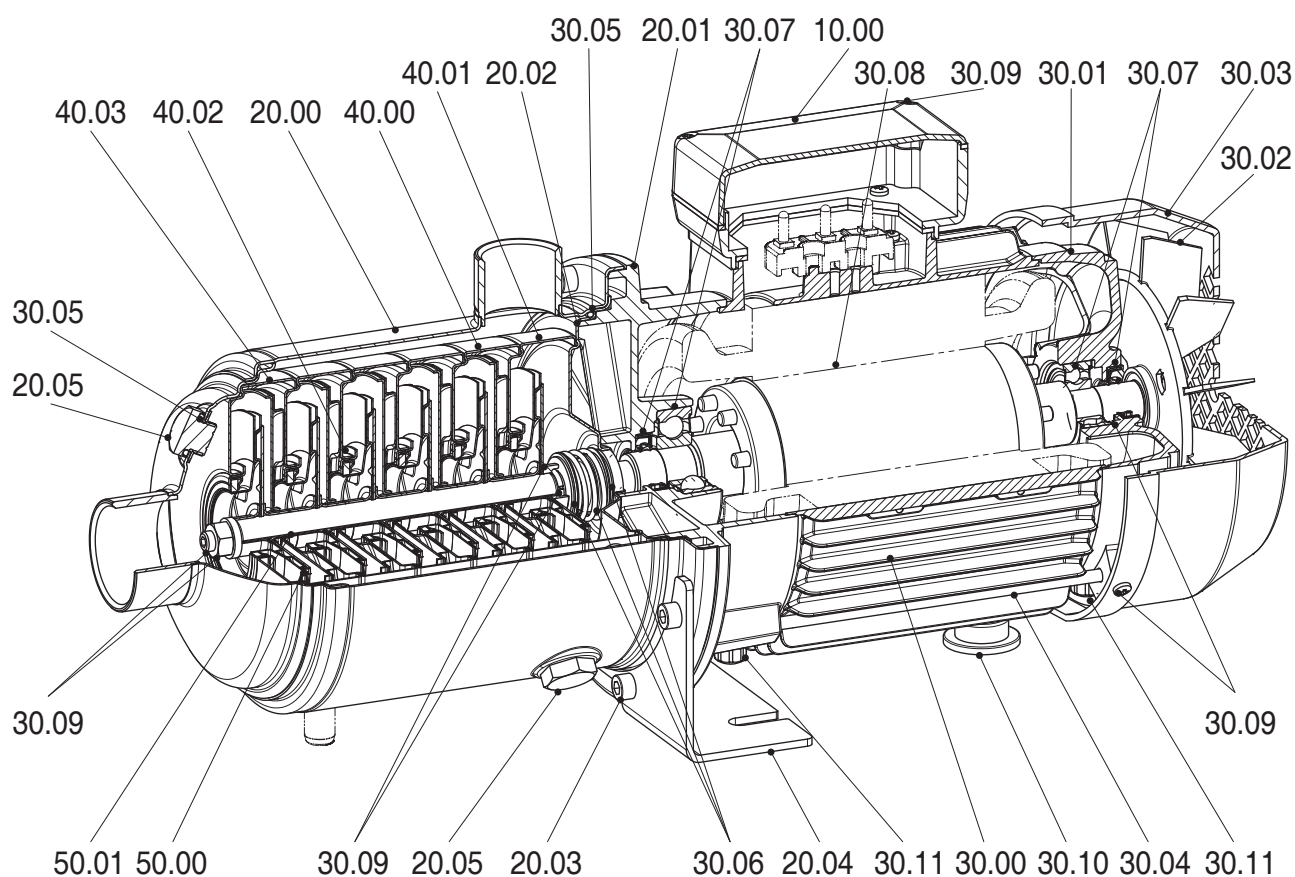
The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B



EH Series Pump Section and List of Main Components

EH Series pump section and List of Main components

EH 3 - 5 - 9



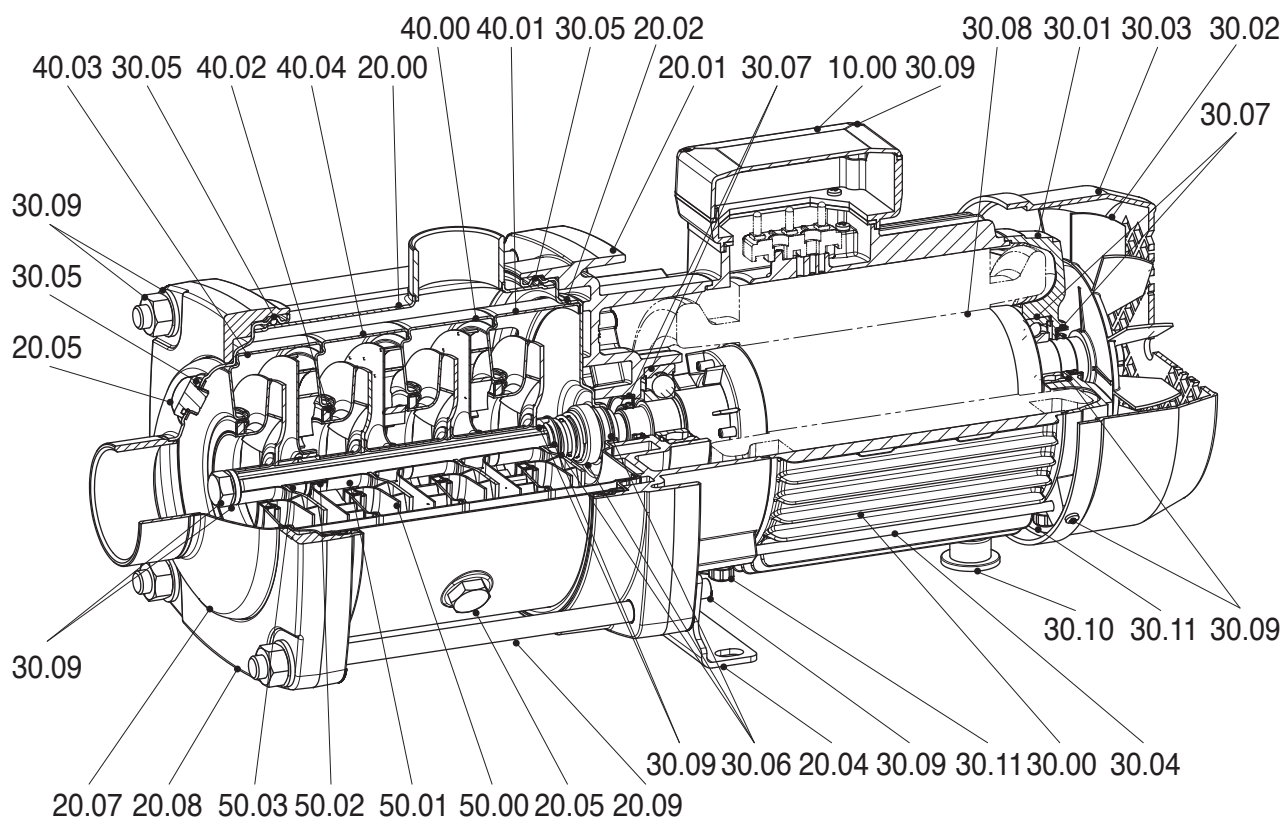
00114134 06/2015

Ref. N.	Description
10.00	Terminal box cover
20.00	Pump casing
20.01	Motor bracket
20.02	Seal housing
20.03	Screws for pump casing
20.04	Support foot
20.05	Filling and draining plugs
30.00	Motor housing and stator
30.01	Bearing housing
30.02	Fan
30.03	Fan cover
30.04	Motor tie rod
30.05	O-Rings

Ref. N.	Description
30.06	Mechanical seals
30.07	Ball bearings and lip seal
30.08	Rotor and pump shaft
30.09	Screws, nuts and washers
30.10	Motor foot
30.11	Valve plug
40.00	Stage housing and diffuser
40.01	Last stage with holes
40.02	Floating neck ring assembly
40.03	Initial stage housing
50.00	Impeller
50.01	Impeller spacers

EH Series pump section and List of Main components

EH 15 - 20



(Configuration up to 3kW)

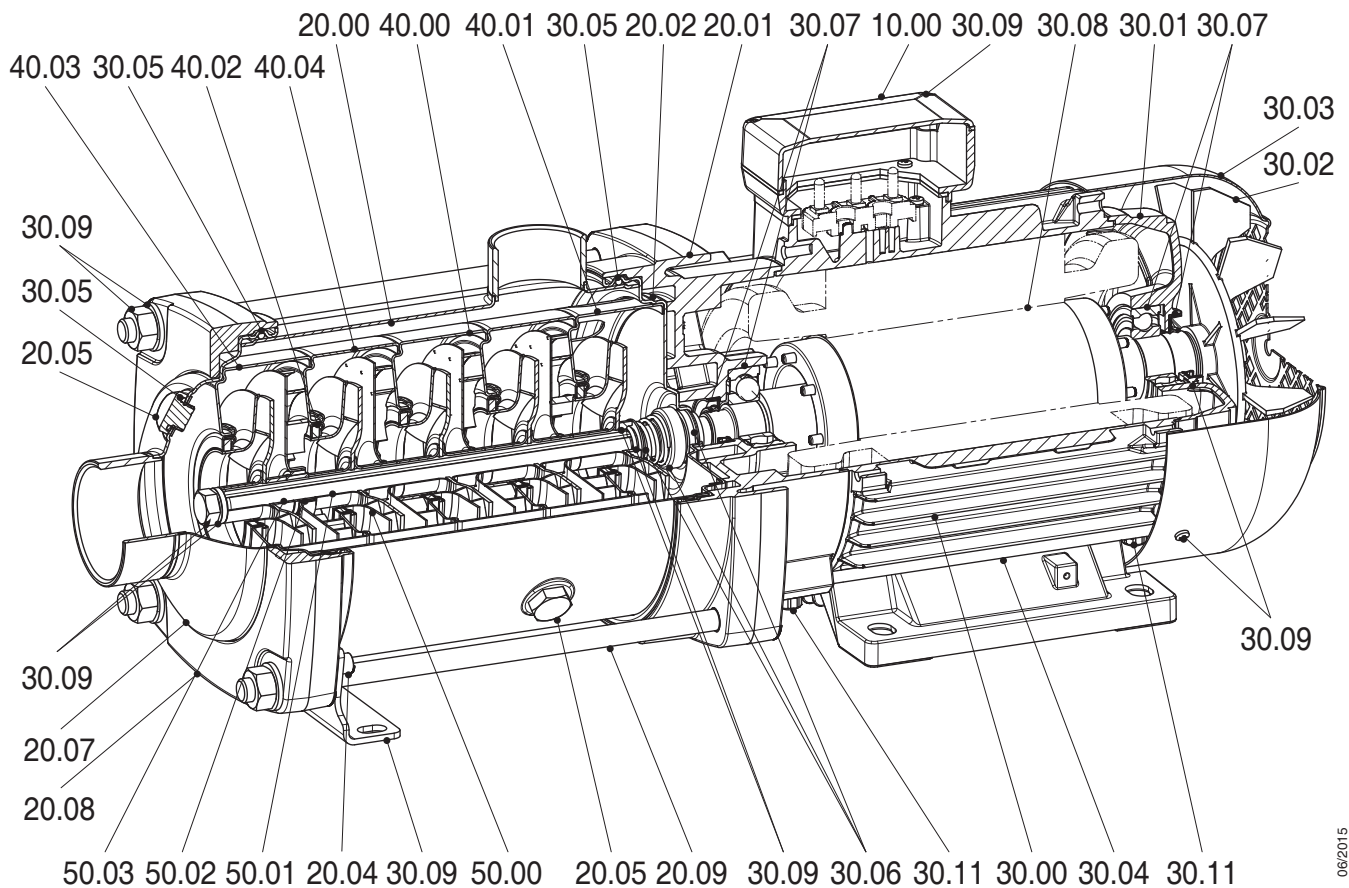
00114135FK 06/2016

Ref. N.	Description
10.00	Terminal box cover
20.00	Pump casing
20.01	Motor bracket
20.02	Seal housing
20.04	Support foot
20.05	Filling and draining plugs
20.07	Inlet cover
20.08	Flange
20.09	Pump casing tie rods
30.00	Motor housing and stator
30.01	Bearing housing
30.02	Fan
30.03	Fan cover
30.04	Motor tie rod
30.05	O-Rings

Ref. N.	Description
30.06	Mechanical seals
30.07	Ball bearings and lip seal
30.08	Rotor and pump shaft
30.09	Screws, nuts and washers
30.10	Motor foot
30.11	Valve plug
40.00	Stage housing and diffuser
40.01	Last stage with holes
40.02	Floating neck ring assembly
40.03	Initial stage housing
40.04	Stage housing and diffuser with bearing
50.00	Impeller
50.01	Impeller spacers
50.02	Intermediary sleeve
50.03	Intermediary sleeve spacer

EH Series pump section and List of Main components

EH 15 - 20



(Configuration from 4kW)

00114136 06/2015

Ref. N.	Description
10.00	Terminal box cover
20.00	Pump casing
20.01	Motor bracket
20.02	Seal housing
20.04	Support foot
20.05	Filling and draining plugs
20.07	Inlet cover
20.08	Flange
20.09	Pump casing tie rods
30.00	Motor housing and stator
30.01	Bearing housing
30.02	Fan
30.03	Fan cover
30.04	Motor tie rod
30.05	O-Rings

Ref. N.	Description
30.06	Mechanical seals
30.07	Ball bearings and lip seal
30.08	Rotor and pump shaft
30.09	Screws, nuts and washers
30.10	Motor foot
30.11	Valve plug
40.00	Stage housing and diffuser
40.01	Last stage with holes
40.02	Floating neck ring assembly
40.03	Initial stage housing
40.04	Stage housing and diffuser with bearing
50.00	Impeller
50.01	Impeller spacers
50.02	Intermediary sleeve
50.03	Intermediary sleeve spacer



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