



EM SERIES 50Hz

VERTICAL CLOSE-COUPLE MULTISTAGE PUMPS



INDEX

Vertical close-couple multistage pumps	2
Family curves	3
Pump identification code	3
Materials/fluids compatibility	4
Table of hydraulic performance	5
Mechanical seal specifications	6
TECHNICAL DATA AND PERFORMANCE CURVES 50HZ	
Motor specification at 50Hz	8
EM 3 50Hz	10
EM 5 50Hz	12
EM 9 50Hz	14
PUMP SECTION AND LIST OF MAIN COMPONENTS	
	18

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.

VERTICAL CLOSE-COUPLE 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 corrosion resistant / Superior efficiency and performance
- Floating neck ring in 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 ball bearing fitted in the motor
- Pumping of clear non-loaded fluids
- Mechanical seal carbon/ceramic/EPDM Type E0

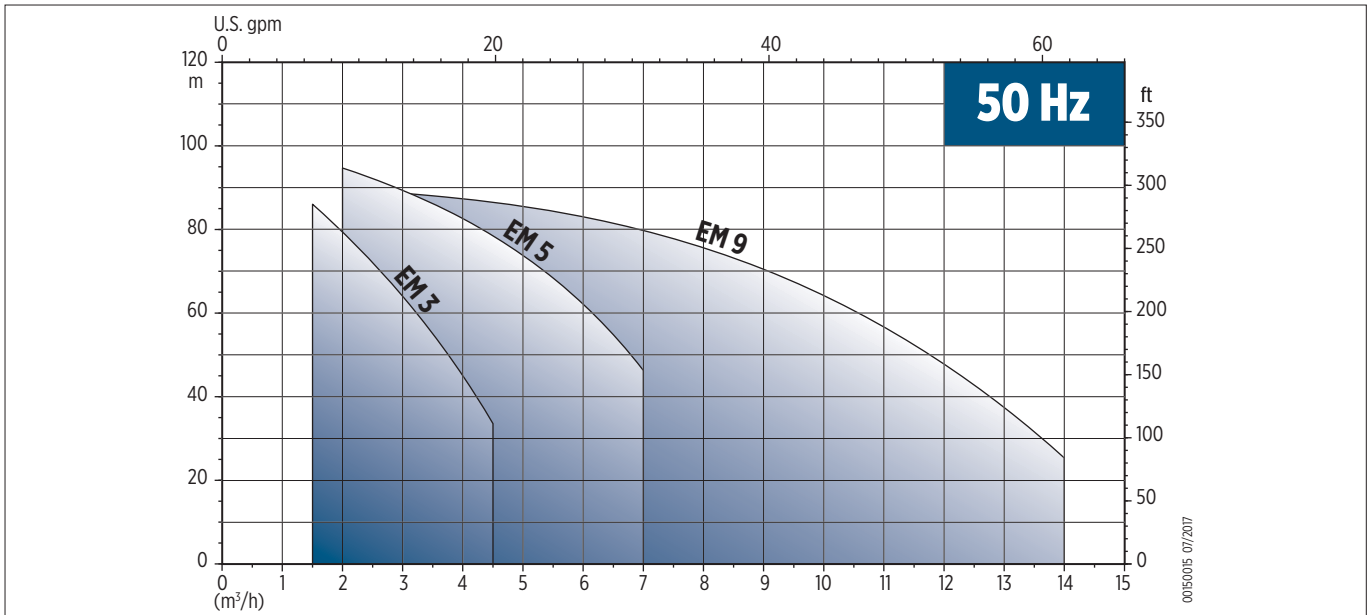
PUMP SPECIFICATIONS

- Capacities: up to 14 m³/h
- Heads: up to 104 m
- Discharge and Suction port: Threaded or Oval connections
- Maximum working pressure 12 Bar
- Direction of rotation: clockwise looking at the pump from the top down.
- Maximum ambient temperature 40°C
- Liquid temperature range: Minimum: -15 °C
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
- Three-phase with IE3 motors
- Asynchronous, TEFC (Totally Enclosed, Fan-Cooled)
- 2 pole
- IP55 protection motor
- Insulation class F

FAMILY CURVES



PUMP IDENTIFICATION CODE

EM 5 / 05 D G 011 T 6 E0

- EM: Pump model
- 5: Nominal flow rate in m³/h
- /: Number of stages
- 05: R: second threaded delivery port puts on top
- D: Connection configurations: D: In-line threaded
- G: Pump material: G: Cast iron / A304
- 011: Motor power (kWx10)
- T: T (three-phase); M (single-phase)
- 6: Frequency: 5 (50Hz); 6 (60Hz)
- E0: Mechanical seal type
- : Pump speciality - Standard configuration if empty
- : Three-phase motor efficiency (IE3)

EM 3-5-9

MATERIALS/FLUIDS COMPATIBILITY

Ref. N.	Description	Type	Material	
			ASTM/AISI	DIN/EN
10.00	Pump casing	Cast iron	A48 Class 35	GJL-250
10.01	Draining plug	Stainless Steel	AISI 304	1.4301
10.04	Outlet plug*	Zinc coated steel	-	-
20.00	Outer case	Stainless Steel	AISI 304	1.4301
20.02	Mechanical seal housing	Stainless Steel	AISI 304	1.4301
20.03	Filling plug	Stainless Steel	AISI 304	1.4301
30.05	O-Rings	EPDM	-	-
30.06	Mechanical seal	Ceramic, Carbon graphite, EPDM, Stainless steel	-	-
30.08	Rotor and pump shaft	Stainless Steel	AISI 304	1.4301
30.09	Screws, nuts and washers	Stainless Steel	AISI 304	1.4301
40.00	Stage housing and diffuser	Stainless Steel	AISI 304	1.4301
40.01	Stage centering outlet	Stainless Steel	AISI 304	1.4301
40.02	Floating neck ring	PPS	-	-
40.03	Initial stage housing	Stainless Steel	AISI 304	1.4301
40.04	Last stage with diffuser	Stainless Steel	AISI 304	1.4301
40.05	Stage centering inlet	Stainless Steel	AISI 304	1.4301
50.00	Impeller	Stainless Steel	AISI 304	1.4301
50.01	Impeller spacer	Stainless Steel	AISI 304	1.4301

* only for R version

EM 3-5-9

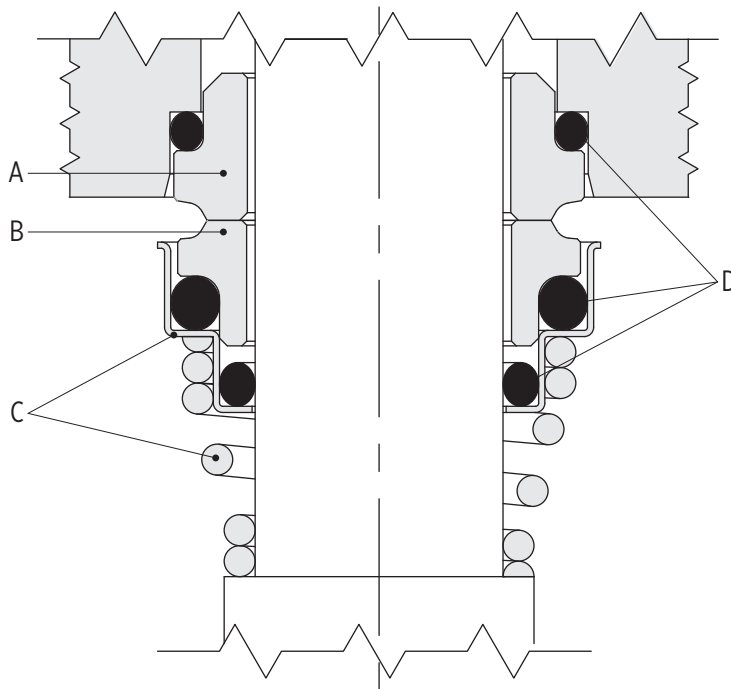
1~ TABLE OF HYDRAULIC PERFORMANCE AT 50Hz

Pump model	Q = DELIVERY																
	l/min 0	25	33	42	50	58	67	75	83	92	100	117	133	150	167	183	233
	m ³ /h 0	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	7	8	9	10	11	14
	US GMP 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	39.6	44.0	48.4	61.6
H=TOTAL M.HEAD OF WATER COLUMN [m]																	
EM 3/2	22.5	20.5	19.0	17.5	16.0	14.0	12.0	10.0									
EM 3/3	33.5	30.0	28.0	26.0	23.0	20.5	17.5	14.0									
EM 3/4	44.0	39.0	36.5	33.5	30.0	26.0	22.0	18.0									
EM 3/5	54.5	48.0	44.5	40.5	36.0	31.5	26.5	21.0									
EM 3/6	66.5	59.0	55.0	50.5	45.5	40.0	34.0	27.0									
EM 3/7	77.0	68.0	63.5	58.0	52.0	45.5	38.5	30.5									
EM 3/8	89.0	78.5	73.0	67.0	60.0	53.0	44.5	36.0									
EM 3/9	99.5	87.5	81.0	74.0	66.0	58.0	48.5	38.5									
EM 5/2	23.0		21.5	21.0	20.5	19.5	19.0	18.0	17.0	16.0	15.0	12.0					
EM 5/3	34.0		31.5	30.5	29.5	28.5	27.0	26.0	24.5	23.0	21.0	16.0					
EM 5/4	45.5		42.5	41.5	40.0	39.0	37.0	35.5	33.5	31.5	29.0	22.5					
EM 5/5	56.5		52.5	51.0	49.0	47.5	45.5	43.0	41.0	38.0	35.0	26.7					
EM 5/6	68.5		63.0	61.5	59.5	57.5	55.0	52.0	49.0	46.0	42.0	32.5					
EM 5/7	79.5		73.0	70.5	68.0	65.5	62.5	59.0	55.5	51.5	47.0	35.5					
EM 5/8	92.0		86.0	84.0	81.5	79.0	76.0	72.5	69.0	64.5	60.0	47.0					
EM 5/9	103.0		96.0	94.0	91.0	88.0	85.0	81.0	76.5	72.0	66.0	52.0					
EM 9/2	23.5				22.5	22.0	21.5	21.0	21.5	20.5	20.0	19.0	18.5	17.0	16.0	14.0	6.5
EM 9/3	35.5				33.5	33.0	32.5	32.0	31.5	31.0	30.0	29.0	28.0	26.0	24.0	21.0	10.5
EM 9/4	47.0				44.5	44.0	43.5	42.5	42.0	41.5	40.5	39.0	37.5	35.5	32.5	29.0	14.5
EM 9/5	59.5				57.0	56.5	56.0	55.0	54.0	53.5	52.5	51.0	49.0	46.5	43.0	39.0	21.0
EM 9/6	71.0				67.5	67.0	66.0	65.0	64.0	63.0	62.0	60.0	57.5	54.5	50.0	44.5	23.5
EM 9/7	82.5				78.0	77.0	76.0	75.0	73.5	72.5	71.5	68.5	65.5	62.0	57.0	50.0	25.0

3~ IE3 TABLE OF HYDRAULIC PERFORMANCE AT 50Hz

Pump model	Q = DELIVERY																
	l/min 0	25	33	42	50	58	67	75	83	92	100	117	133	150	167	183	233
	m ³ /h 0	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	7	8	9	10	11	14
	US GMP 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	39.6	44.0	48.4	61.6
H=TOTAL M.HEAD OF WATER COLUMN [m]																	
EM 3/2	22.5	20.5	19.0	17.5	16.0	14.0	12.0	10.0									
EM 3/3	33.5	30.0	28.0	26.0	23.0	20.5	17.5	14.0									
EM 3/4	44.0	39.0	36.5	33.5	30.0	26.0	22.0	18.0									
EM 3/5	54.5	48.0	44.5	40.5	36.0	31.5	26.5	21.0									
EM 3/6	66.0	58.0	54.0	49.5	44.5	39.0	33.0	26.0									
EM 3/7	76.5	67.0	62.0	57.0	51.0	44.0	37.0	29.5									
EM 3/8	89.0	78.5	73.0	67.0	60.0	53.0	44.5	36.0									
EM 3/9	99.5	88.0	82.0	75.5	68.0	59.5	50.5	40.5									
EM 5/2	23.0		21.5	21.0	20.5	19.5	19.0	18.0	17.0	16.0	15.0	12.0					
EM 5/3	34.0		31.5	30.5	29.5	28.5	27.0	26.0	24.5	23.0	21.0	16.0					
EM 5/4	45.5		42.5	41.5	40.0	39.0	37.0	35.5	33.5	31.5	29.0	22.5					
EM 5/5	56.5		52.0	50.0	48.5	46.5	44.5	42.0	40.0	37.0	34.0	26.0					
EM 5/6	68.5		63.5	62.0	60.0	58.0	55.5	53.0	50.0	47.0	43.0	33.5					
EM 5/7	79.5		73.0	71.0	69.0	66.5	63.5	60.5	57.0	53.5	49.0	38.0					
EM 5/8	92.0		86.0	84.0	81.5	79.0	76.0	72.5	69.0	64.5	60.0	47.0					
EM 5/9	103.0		96.0	94.0	91.0	88.0	85.0	81.0	76.5	72.0	66.0	52.0					
EM 9/2	23.5				22.5	22.0	21.5	21.0	21.5	20.5	20.0	19.0	18.5	17.0	16.0	14.0	6.5
EM 9/3	35.5				33.5	33.0	32.5	32.0	31.5	31.0	30.0	29.0	28.0	26.0	24.0	21.0	10.5
EM 9/4	47.0				44.5	44.0	43.5	42.5	42.0	41.5	40.5	39.0	37.5	35.5	32.5	29.0	14.5
EM 9/5	59.5				57.0	56.5	56.0	55.0	54.0	53.5	52.5	51.0	49.0	46.5	43.0	39.0	21.0
EM 9/6	71.0				67.5	67.0	66.0	65.0	64.0	63.0	62.0	60.0	57.5	54.5	50.0	44.5	23.5
EM 9/7	83.5				79.5	79.0	78.0	77.0	76.0	75.0	74.0	71.5	69.0	65.5	61.0	54.5	30.0
EM 9/8	95.0				90.5	90.0	89.0	87.5	86.0	85.0	84.0	81.0	78.0	74.0	68.5	61.5	33.0

MECHANICAL SEAL SPECIFICATIONS



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STANDARD VERSION

Model	Type	Position				Temperature [°C]
		A Stationary part	B Rotating part	C Other components	D Elastomers	
EM 3 - 5 - 9						
E0	V B G E	Ceramic	Graphite	AISI 316	EPDM	-15°C +110°C

Technical data and Performance curves

MOTORS SPECIFICATIONS

- Asynchronous, TEFC (Totally Enclosed, Fan-Cooled)
- 2 pole
- IP55
- Insulation class F
- Starts per hour
 - for motor power up to 3 kW the allowed starts are 60. Waiting time between two consecutive starts 1 minute
 - for motor power from 4 kW the allowed starts are 30. Waiting time between two consecutive starts 2 minutes

SINGLE-PHASE VERSION AT 50Hz

- Standard voltage 220-240 V \pm 5%
- Thermal protection built into the motor

P _N [kW]	MOTOR SIZE	INPUT CURRENT I _N [A]	Capacitor		230 V - 50 Hz						
			[μF]	[V]	n _N [min ⁻¹]	I _s / I _N	η %	cos φ	T _N [Nm]	T _s / T _N	T _M / T _N
0.33	71	2.50	16	450	2920	6.5	64.8	0.88	1.08	1.00	1.60
0.45	71	3.00	16	450	2890	5.4	69.7	0.92	1.5	0.72	1.60
0.55	71	3.50	16	450	2860	4.6	72.6	0.94	1.83	0.59	1.85
0.75	71	4.67	16	450	2790	3.5	72.2	0.97	2.56	0.42	1.87
0.9	71	5.45	30	450	2875	4.8	75.3	0.93	3	0.47	1.67
1.1	71	6.60	30	450	2820	3.9	77.0	0.96	3.7	0.38	1.86
1.3	80	7.46	30	450	2860	4.2	80.8	0.94	4.35	0.57	1.86
1.5	80	8.56	30	450	2830	3.6	79.9	0.95	5.05	0.50	1.92
1.85	80	10.90	30	450	2760	2.8	76.6	0.96	6.4	0.39	2.40
2.2	90	12.60	60	450	2870	2.2	76.7	0.99	7.3	0.51	1.99

THREE-PHASE IE3 VERSION AT 50Hz

- IE3 Premium Efficiency Motors
- IE 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 provide into the starter panel by the installer

P_N [kW]	Rendimento / 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	

P_N [kW]	MOTOR SIZE	N. of poles	f_N [Hz]	400 V 50 Hz				
				$\cos \varphi$	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	8.0	4.6	-	-	2880			
3	10.4	6.0	-	-	2900			
4	-	-	7.7	4.4	2900			
5.5	-	-	11.0	6.4	2900			

EM 3 50Hz

1 ~ ELECTRIC PUMP TECHNICAL DATA

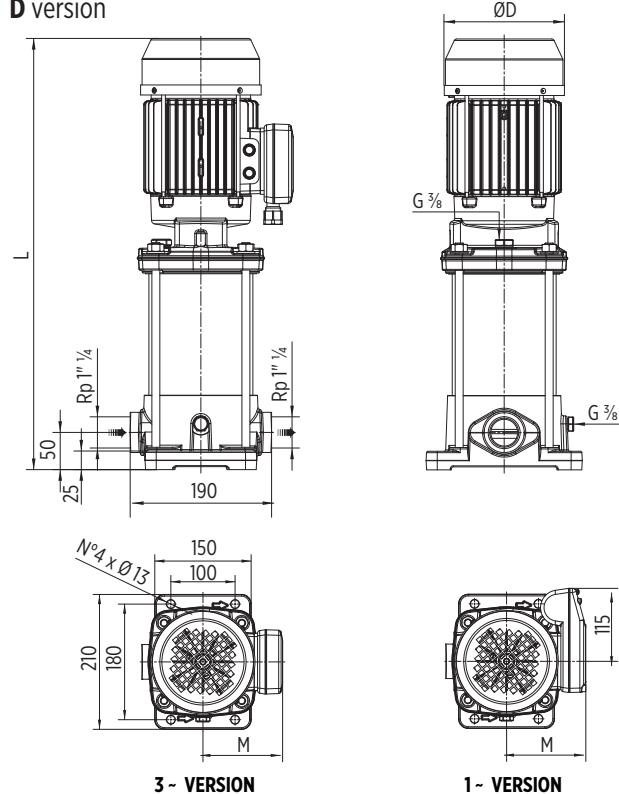
Pump model	Motor Size	MOTOR NOMINAL POWER		INPUT POWER [kW]	Capacitor 450V [μF]	INPUT CURRENT [A] 220-240 V	Dimensions [mm]				Weight [Kg]
		[kW]	[HP]				L	L2	ØD	M	
EM 3/2	71	0.33	0.45	0.46	16	2.5	441.5	87	144	117	19.4
EM 3/3	71	0.45	0.6	0.60	16	3.0	465.5	111	144	117	20.1
EM 3/4	71	0.55	0.75	0.76	16	3.7	489.5	135	144	117	20.7
EM 3/5	71	0.75	1	0.91	16	4.3	513.5	159	144	117	21.4
EM 3/6	71	0.9	1.2	1.13	30	5.4	537.5	183	144	117	22.5
EM 3/7	71	1.1	1.5	1.28	30	6.0	561.5	207	144	117	23.1
EM 3/8	80	1.3	1.8	1.43	30	6.9	627.5	231	162	124	27.2
EM 3/9	80	1.5	2	1.58	30	7.5	651.5	255	162	124	27.8

3 ~ IE3 ELECTRIC PUMP TECHNICAL DATA

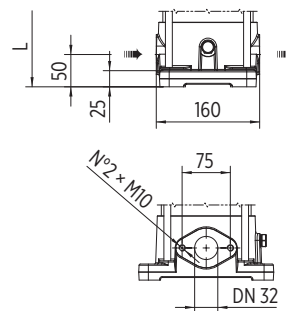
Pump model	Motor Size	MOTOR NOMINAL POWER		INPUT POWER [kW]	INPUT CURRENT [A]		Dimensions [mm]				Weight [Kg]
		[kW]	[HP]		220-240 V	380-415 V	L	L2	ØD	M	
EM 3/2T	71	0.75	1	0.41	1.9	1.1	441.5	87	144	117	19.3
EM 3/3T	71	0.75	1	0.57	2.1	1.2	465.5	111	144	117	19.9
EM 3/4T	71	0.75	1	0.72	2.4	1.4	489.5	135	144	117	20.6
EM 3/5T	71	0.75	1	0.87	2.7	1.6	513.5	159	144	117	21.2
EM 3/6T	71	1.1	1.5	1.02	3.3	1.9	537.5	183	144	117	22.4
EM 3/7T	71	1.1	1.5	1.17	3.6	2.1	561.5	207	144	117	23
EM 3/8T	80	1.5	2	1.39	4.8	2.8	627.5	231	162	124	27
EM 3/9T	80	1.5	2	1.55	5.1	3.0	651.5	255	162	124	27.7

DIMENSIONAL DRAWINGS

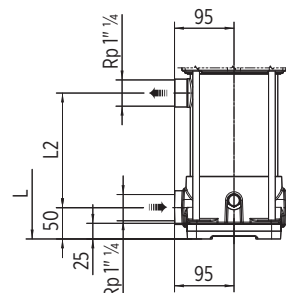
D version



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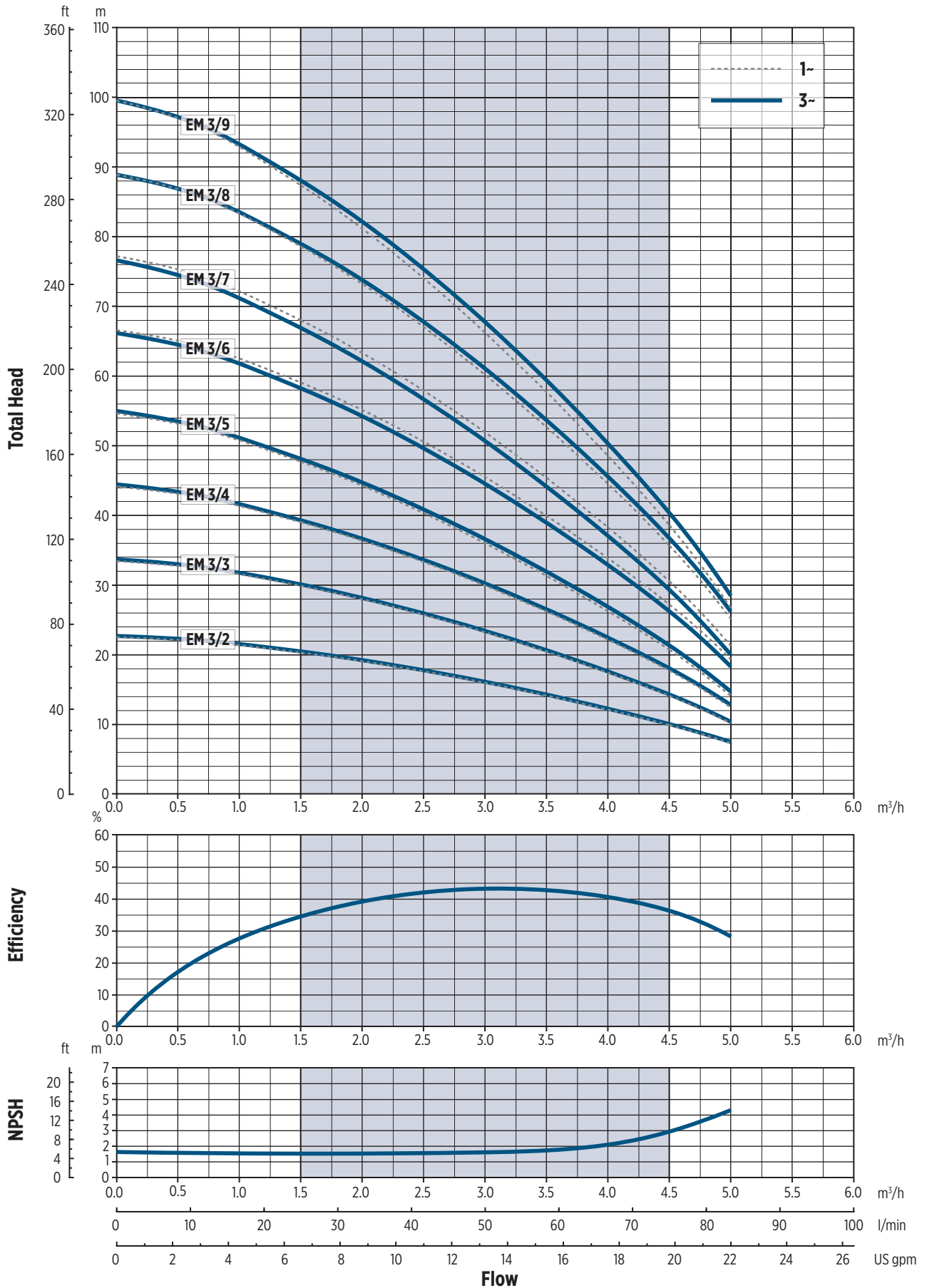


R version



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PERFORMANCE CURVES 50Hz



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EM 5 50Hz

1 ~ ELECTRIC PUMP TECHNICAL DATA

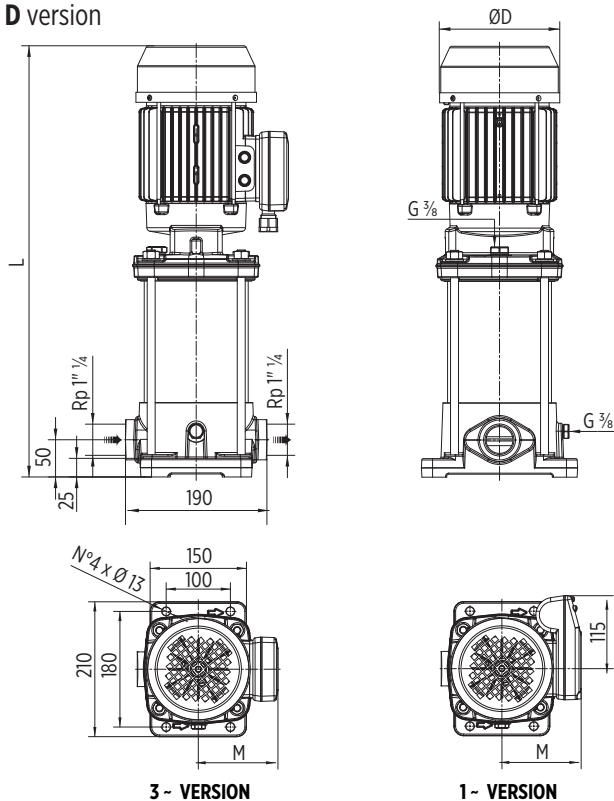
Pump model	Motor Size	MOTOR NOMINAL POWER		INPUT POWER [kW]	Capacitor 450V [μ F]	INPUT CURRENT [A] 220-240 V	Dimensions [mm]				Weight [Kg]
		[kW]	[HP]				L	L2	\varnothing D	M	
EM 5/2	71	0.45	0.6	0.59	16	3.0	441.5	87	144	117	19.4
EM 5/3	71	0.55	0.75	0.81	16	3.9	465.5	111	144	117	20.1
EM 5/4	71	0.9	1.2	1.10	30	5.3	489.5	135	144	117	21.2
EM 5/5	71	1.1	1.5	1.32	30	6.2	513.5	159	144	117	21.9
EM 5/6	80	1.3	1.8	1.53	30	7.3	579.5	183	162	124	25.9
EM 5/7	80	1.5	2	1.74	30	8.2	603.5	207	162	124	26.6
EM 5/8	90	1.85	2.5	2.35	60	10.4	666.5	231	179	131	32.6
EM 5/9	90	2.2	3	2.59	60	11.4	690.5	255	179	131	33.2

3 ~ ELECTRIC PUMP IE3 TECHNICAL DATA

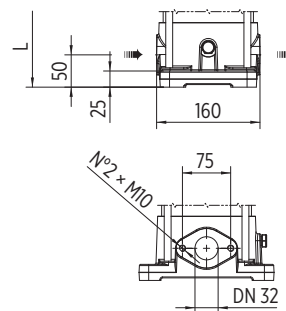
Pump model	Motor Size	MOTOR NOMINAL POWER		INPUT POWER [kW]	INPUT CURRENT [A]		Dimensions [mm]				Weight [Kg]
		[kW]	[HP]		220-240 V	380-415 V	L	L2	\varnothing D	M	
EM 5/2T	71	0.75	1	0.55	2.1	1.2	441.5	87	144	117	19.3
EM 5/3T	71	0.75	1	0.77	2.5	1.4	465.5	111	144	117	19.9
EM 5/4T	71	1.1	1.5	0.99	3.2	1.9	489.5	135	144	117	21.1
EM 5/5T	71	1.1	1.5	1.21	3.7	2.2	513.5	159	144	117	21.7
EM 5/6T	80	1.5	2	1.50	5.0	2.9	579.5	183	162	124	25.8
EM 5/7T	80	1.5	2	1.72	5.5	3.2	603.5	207	162	124	26.4
EM 5/8T	90	2.2	3	2.06	6.8	3.9	666.5	231	179	131	32.5
EM 5/9T	90	2.2	3	2.29	7.4	4.3	690.5	255	179	131	33.1

DIMENSIONAL DRAWINGS

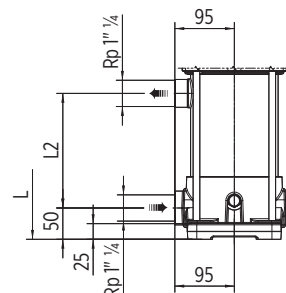
D version



T version

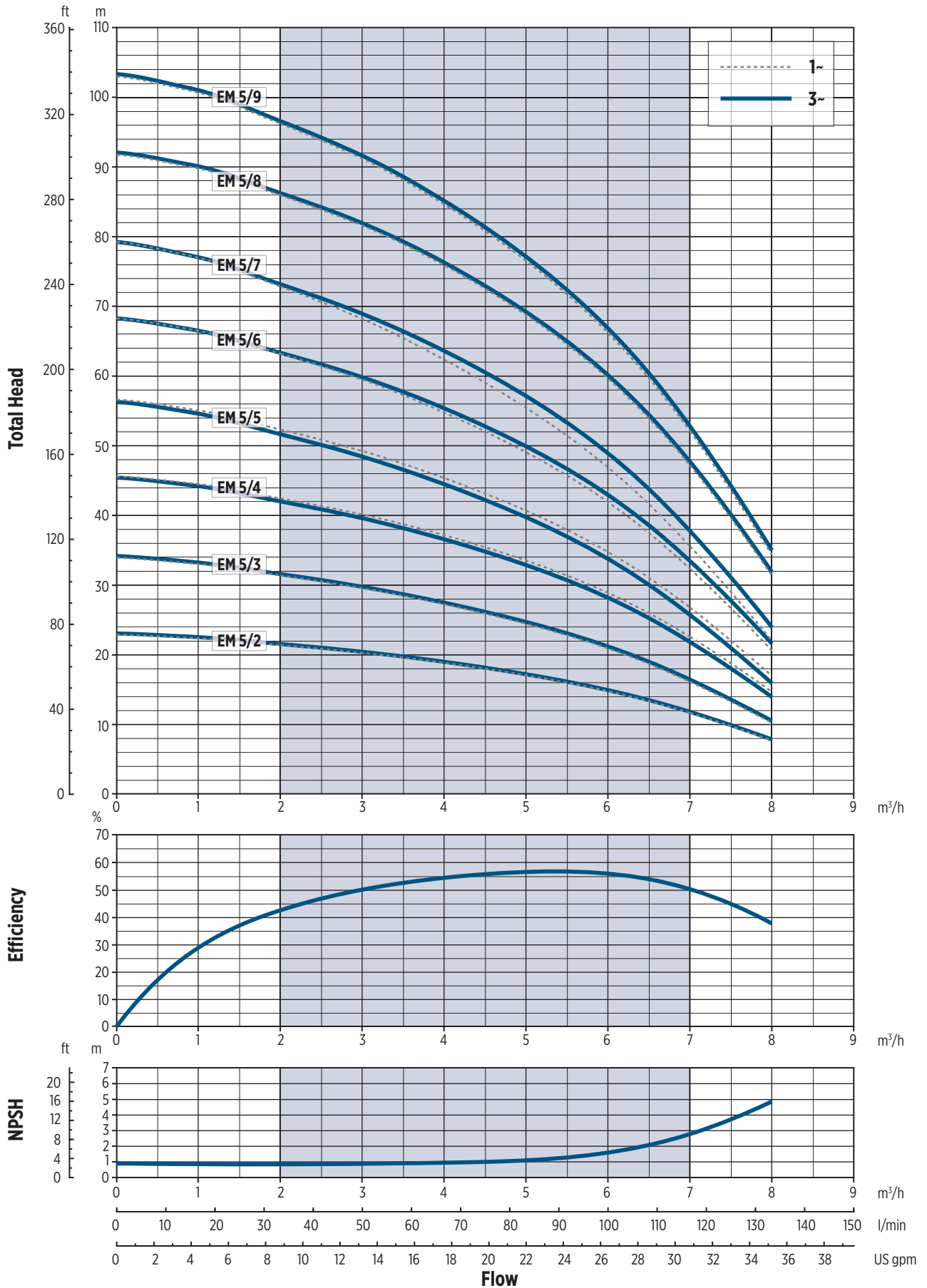


R version



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PERFORMANCE CURVES 50Hz



EM 9 50Hz

1 ~ ELECTRIC PUMP TECHNICAL DATA

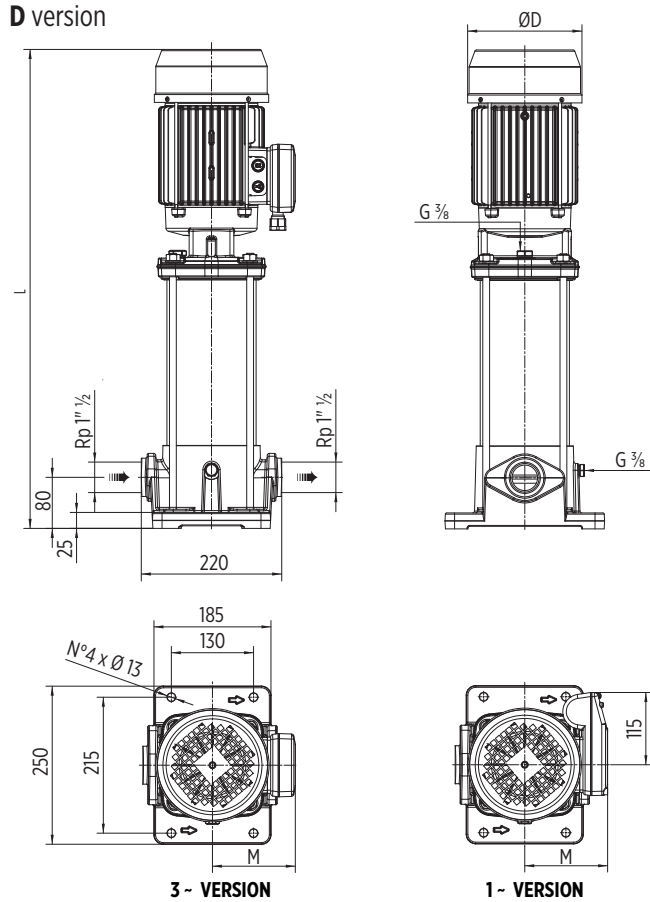
Pump model	Motor Size	MOTOR NOMINAL POWER		INPUT POWER [kW]	Capacitor 450V [μF]	INPUT CURRENT [A] 220-240 V	Dimensions [mm]				Weight [Kg]
		[kW]	[HP]				L	L2	ØD	M	
EM 9/2	71	0.75	1	0.91	16	4.3	483.5	99	144	117	23
EM 9/3	71	1.1	1.5	1.35	30	6.3	513.5	129	144	117	24.3
EM 9/4	80	1.5	2	1.74	30	8.2	585.5	159	162	124	28.5
EM 9/5	90	2.2	3	2.51	60	11.1	654.5	189	179	131	34.6
EM 9/6	90	2.2	3	2.89	60	12.7	684.5	219	179	131	35.4
EM 9/7	90	2.2	3	3.30	60	14.5	752.5	249	179	131	39.4

3 ~ ELECTRIC PUMP IE3 TECHNICAL DATA

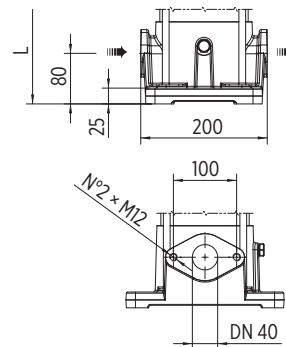
Pump model	Motor Size	MOTOR NOMINAL POWER		INPUT POWER [kW]	INPUT CURRENT [A]		Dimensions [mm]				Weight [Kg]
		[kW]	[HP]		220-240 V	380-415 V	L	L2	ØD	M	
EM 9/2T	71	0.75	1	0.87	2.7	1.6	483.5	99	144	117	22.8
EM 9/3T	71	1.1	1.5	1.24	3.8	2.2	513.5	129	144	117	24.1
EM 9/4T	80	1.5	2	1.70	5.5	3.2	585.5	159	162	124	28.3
EM 9/5T	90	2.2	3	2.20	7.1	4.1	654.5	189	179	131	34.5
EM 9/6T	90	2.2	3	2.61	8.2	4.7	684.5	219	179	131	35.3
EM 9/7T	90	3	4	3.08	9.5	5.5	752.5	249	179	131	39.2
EM 9/8T	90	3	4	3.49	10.4	6.0	782.5	279	179	131	40

DIMENSIONAL DRAWINGS

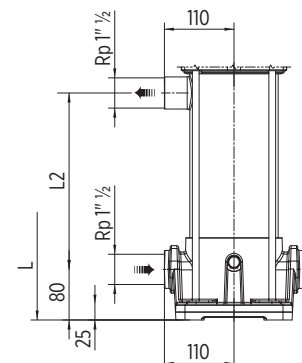
D version



T version

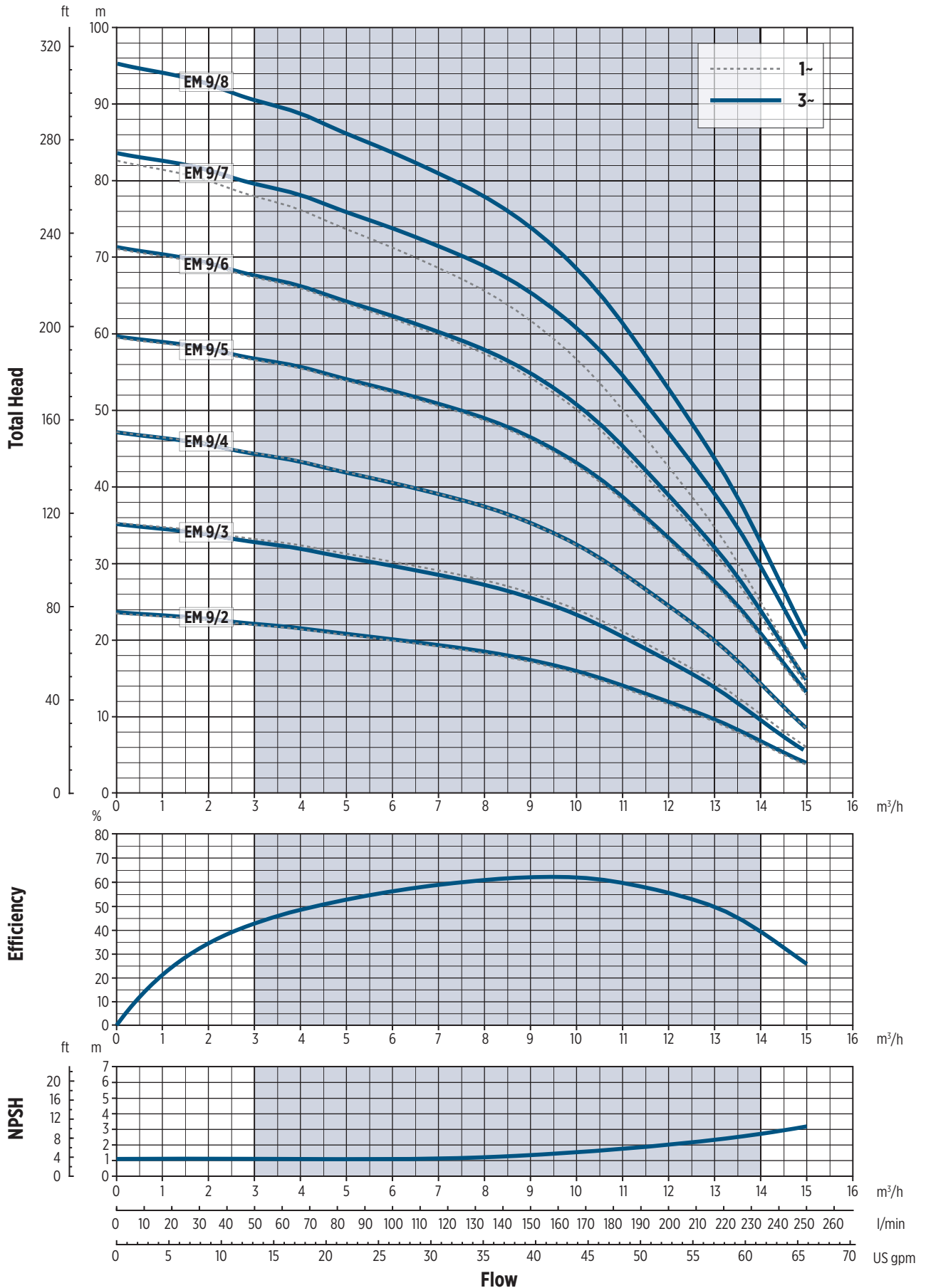


R version



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PERFORMANCE CURVES 50Hz



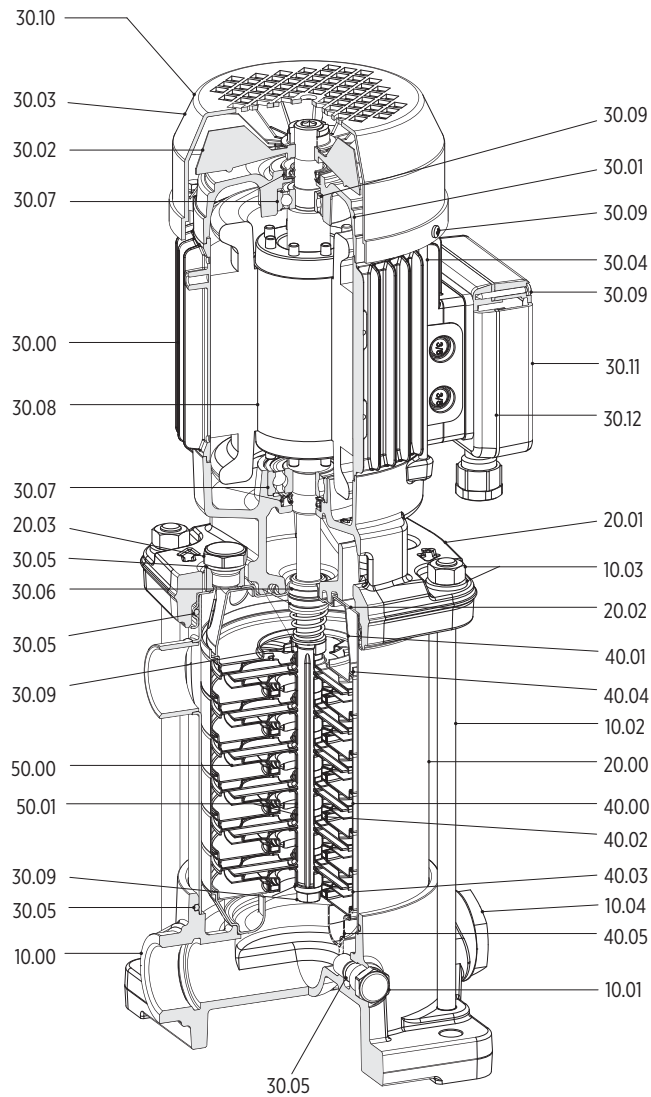
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Pump section and List of main components

EM 3-5-9

PUMP SECTION AND LIST OF MAIN COMPONENTS



00130032 07/2017

Ref. N.	Description
10.00	Pump casing
10.01	Draining plug
10.02	Tie bolt
10.03	Kit nuts and washers
10.04	Outlet plug
20.00	Outer case
20.01	Motor flange
20.02	Mechanical seal housing
20.03	Filling plug
30.00	Motor housing and stator
30.01	Bearing housing
30.02	Fan
30.03	Fan cover
30.04	Motor tie bolt
30.05	O-Rings

Ref. N.	Description
30.06	Mechanical seal
30.07	Ball bearings and lip seals
30.08	Rotor and pump shaft
30.09	Screws, nuts and washers
30.10	Valve plug
30.11	Terminal box cover
30.12	Terminal box base gaskets
40.00	Stage housing and diffuser
40.01	Stage centering outlet
40.02	Floating neck ring
40.03	Initial stage housing
40.04	Last stage with diffuser
40.05	Stage centering inlet
50.00	Impeller
50.01	Impeller spacer

CATALOG REVISION CHANGES NOTICE

Rev. No.	Changes	Page
01	Updating "Family curves" graph	3
	Updating "Table of Hydraulic Performance at 50 Hz"	5
	Changed the technical data of EM 5/8 1~ on table "1 ~ ELECTRIC PUMP technical data"	12



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