



## 50 HZ EM SERIES

VERTICAL CLOSE-COUPLE MULTISTAGE PUMPS



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# 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 rust resistant / Superior efficiency and performances  
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 m<sup>3</sup>/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 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

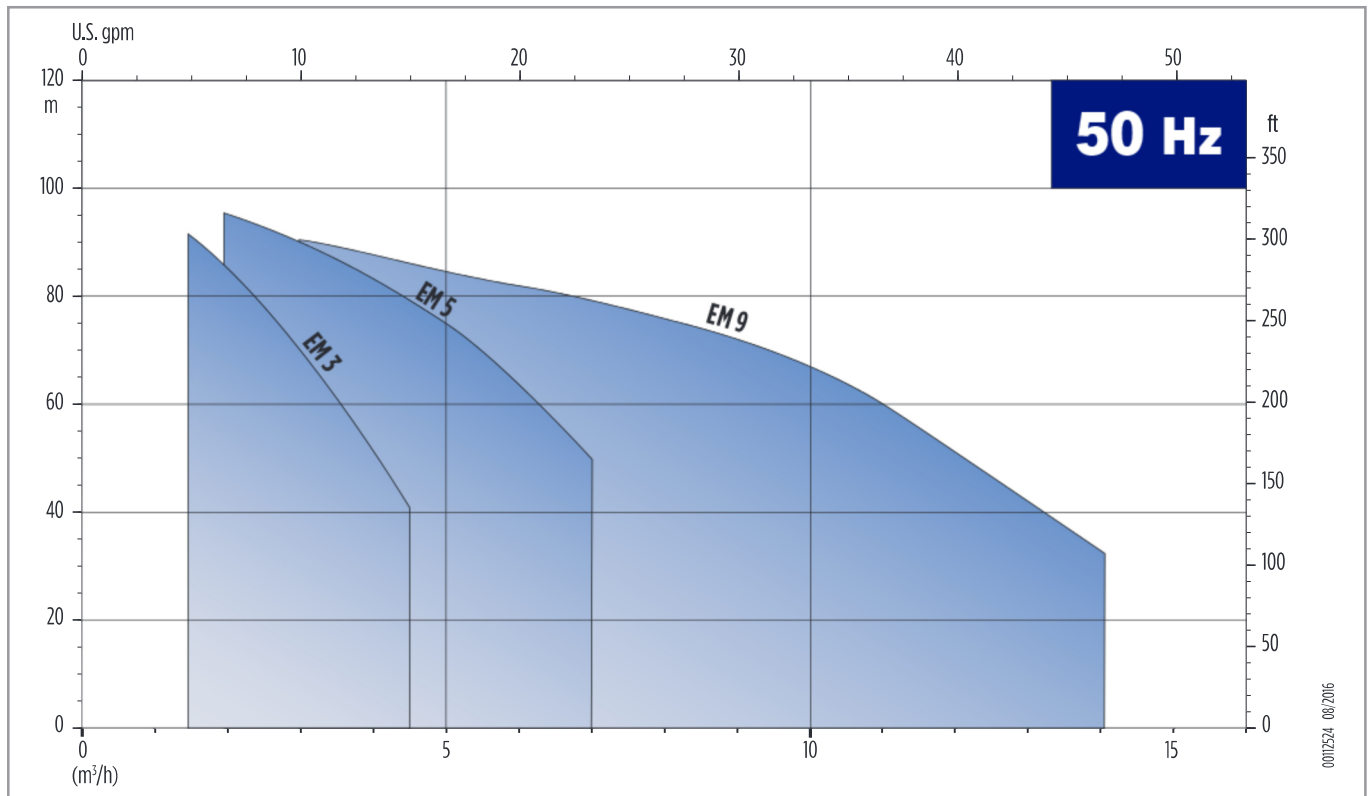
Single-phase or three-phase IE3 motors  
Asynchronous, TEFC (Totally Enclosed, Fan-Cooled)  
2 pole  
IP55 protection motor  
Insulation class F

## PUMP IDENTIFICATION CODE

EM 5 / 05 D G 011 T 5 E0   IE3

Three-phase motor efficiency  
Pump speciality - Standard configuration if empty  
Mechanical seal type  
Frequency: 5 (50Hz); 6 (60Hz)  
T (three-phase); M (single-phase)  
Motor power (kWx10)  
Pump material: G: Cast iron / A304  
Connection configurations:  
D: In-line threaded  
T: In-line oval flange  
R: second threaded delivery port puts on top  
Number of stages  
Nominal flow rate in m<sup>3</sup>/h  
Pump model





0012524 08/2016

## 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 SINGLE-PHASE

Table of hydraulic performance at 50Hz

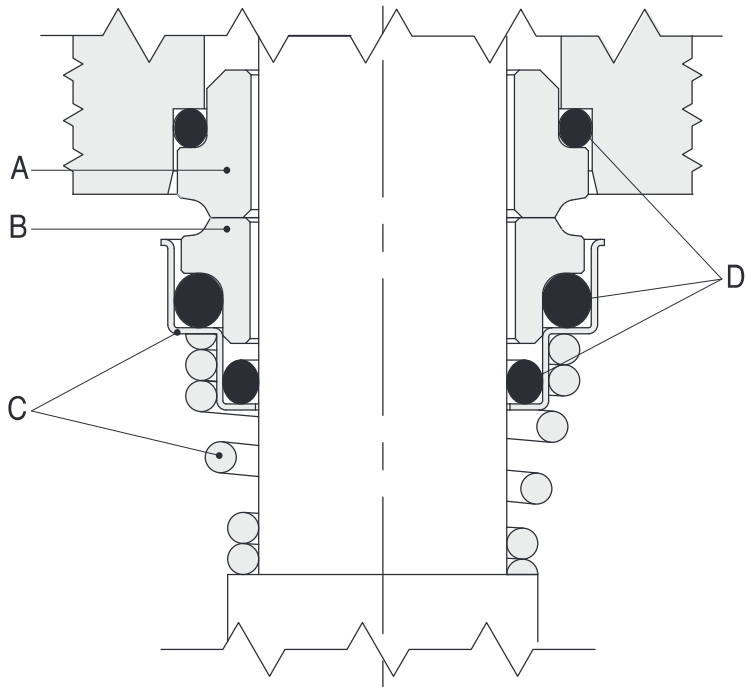
PUMP TYPE	Q = DELIVERY																
	l/min 0	25	33	42	50	58	67	75	83	92	100	117	133	150	167	183	233
	m³/h 0	1,5	2	2,5	3	3,5	4	4,5	5	5,5	6	7	8	9	10	11	14
	US GPM 0	6,6	8,8	11,0	13,2	15,4	17,6	19,8	22,01	24,2	26,4	30,8	35,2	39,6	44,02	48,4	61,6
H=TOTAL M.HEAD OF WATER COLUMN [m]																	
EM 3/2	22,5	20,3	19,0	17,6	15,9	14,1	12,1	9,9									
EM 3/3	33,4	29,9	27,9	25,7	23,2	20,4	17,4	14,0									
EM 3/4	44,1	39,0	36,3	33,3	29,9	26,2	22,1	17,7									
EM 3/5	54,6	47,7	44,2	40,3	36,0	31,3	26,2	20,7									
EM 3/6	66,5	59,0	55,1	50,5	45,5	39,9	33,8	27,2									
EM 3/7	77,2	67,9	63,3	57,9	51,9	45,4	38,2	30,5									
EM 3/8	88,9	78,6	73,2	67	60,1	52,6	44,5	33,6									
EM 3/9	99,5	87,3	81,1	74,0	66,2	57,7	48,5	38,5									
EM 5/2	22,8		21,3	20,8	20,2	19,6	18,8	17,9	17	16	14,7	11,6					
EM 5/3	33,9		31,3	30,5	29,5	28,4	27,2	25,9	24,4	22,7	20,9	16,1					
EM 5/4	45,6		42,4	41,3	40,1	38,7	37,1	36,4	33,5	31,3	28,9	22,5					
EM 5/5	55,6		52,3	50,8	49,2	47,4	45,3	43,1	40,6	37,9	34,7	26,7					
EM 5/6	68,2		63,1	61,4	59,4	57,2	54,7	52,0	49,0	45,7	41,9	32,3					
EM 5/7	79,2		72,8	70,6	68,2	65,4	62,3	59,0	55,4	51,4	46,8	35,5					
EM 5/8	91,7		85,9	83,8	81,5	78,9	75,8	72,5	68,7	6,45	59,6	47,2					
EM 5/9	103,0		96,2	93,8	91,2	88,1	84,6	80,8	76,5	71,7	66,1	52,1					
EM 9/2	23,4				21,9	21,6	21,3	21,0	20,6	20,2	19,9	19,1	18,3	17,1	15,7	13,8	6,6
EM 9/3	35,2				33,1	32,7	32,3	31,8	31,2	30,7	30,2	29,1	27,8	26,2	24,0	21,2	10,4
EM 9/4	47,1				44,3	43,9	43,3	42,6	41,9	41,2	40,5	39,1	37,4	35,2	32,4	28,7	14,4
EM 9/5	59,4				56,5	56,0	55,4	54,6	53,8	53,0	52,3	50,6	48,7	46,1	40,8	38,3	20,5
EM 9/6	71,0				67,3	66,6	65,9	64,9	63,8	62,9	62,0	59,8	57,4	54,2	50,1	44,6	23,2
EM 9/7	82,5				77,9	77,1	76,1	74,8	73,6	72,4	71,2	68,5	65,6	61,7	56,7	50,1	25,1

## EM 3-5-9 THREE-PHASE

Table of hydraulic performance at 50Hz

PUMP TYPE	Q = DELIVERY																
	l/min 0	25	33	42	50	58	67	75	83	92	100	117	133	150	167	183	233
	m³/h 0	1,5	2	2,5	3	3,5	4	4,5	5	5,5	6	7	8	9	10	11	14
	US GPM 0	6,6	8,8	11,0	13,2	15,4	17,6	19,8	22,01	24,2	26,4	30,8	35,2	39,6	44,02	48,4	61,6
H=TOTAL M.HEAD OF WATER COLUMN [m]																	
EM 3/2	22,6	20,4	19,2	17,7	16,1	14,2	12,2	10									
EM 3/3	33,6	30,0	28,1	25,9	23,4	20,6	17,6	14,2									
EM 3/4	44,4	39,2	36,6	33,6	30,2	26,5	22,4	18,0									
EM 3/5	55,0	48,0	44,7	40,8	36,5	31,9	26,8	21,3									
EM 3/6	66,1	58,2	54,2	49,6	44,5	38,9	32,8	26,2									
EM 3/7	76,6	66,9	62,1	56,6	50,6	44,1	37,0	29,3									
EM 3/8	88,9	78,9	73,7	67,7	61,0	53,6	45,5	36,7									
EM 3/9	99,5	88,0	82,1	75,3	67,7	59,4	50,3	40,3									
EM 5/2	23,0		21,5	21,0	20,4	19,7	18,9	18,1	17,2	16,1	14,9	11,8					
EM 5/3	34,1		31,5	30,7	29,7	28,6	27,4	26,1	24,7	23,0	21,1	16,4					
EM 5/4	45,4		42,0	40,9	39,6	38,1	36,5	34,8	32,8	30,6	28,1	21,8					
EM 5/5	56,3		51,6	50,1	48,4	46,5	44,4	42,2	36,7	36,9	33,7	25,7					
EM 5/6	68,2		63,3	61,6	59,8	57,7	55,3	52,7	49,9	46,6	42,9	33,4					
EM 5/7	79,2		73,1	71,1	68,9	66,4	63,6	60,5	57,1	53,3	48,9	37,7					
EM 5/8	92,0		86,2	84,2	81,9	79,3	76,2	72,9	69,2	64,9	60,0	47,7					
EM 5/9	103,3		96,5	94,2	91,6	88,6	85,1	81,3	77,1	72,3	66,8	52,8					
EM 9/2	23,5				22,0	21,8	21,5	21,1	20,8	20,4	20,1	19,3	18,5	17,4	16,0	14,1	7,0
EM 9/3	35,0				32,7	32,3	31,9	31,3	30,7	30,2	29,7	28,5	27,2	25,5	23,3	20,5	9,7
EM 9/4	47,0				44,2	43,8	43,2	42,5	41,8	41,2	40,5	39,0	37,4	35,3	32,5	28,8	14,4
EM 9/5	59,6				56,7	56,2	55,6	54,8	54,0	53,3	52,5	50,8	49,0	46,5	43,2	38,7	21,0
EM 9/6	71,2				67,5	67,0	66,2	65,2	64,2	63,2	62,3	60,2	57,9	54,8	50,8	45,4	24,0
EM 9/7	84,5				79,5	78,8	78,0	76,9	75,8	74,8	73,7	71,4	68,8	65,4	60,7	54,6	29,7
EM 9/8	95,2				90,4	89,6	88,7	87,4	86,1	84,9	83,6	80,9	77,9	73,8	68,5	61,3	32,9

# MECHANICAL SEAL SPECIFICATIONS



001170045FK 04/2016

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	



# **EM Series**

## **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 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

## SINGLE-PHASE VERSION

Standard voltage 220-240V  $\pm$  5%

Thermal protection built into the motor

## THREE-PHASE VERSION

### IE3 Premium Efficiency Motors

IE efficiency according to IEC 60034-30-1:2014

Electrical performances according to IEC 60034-2-1:2007

Standard voltage: 220-240 / 380-415V  $\pm$  5 % up to 3kW.

380-415 / 660-690V  $\pm$  5 % from 4kW.

Thermal protection to be provided into the starter panel by the installer

## Single-phase motors at 50Hz

P <sub>N</sub> [kW]	IEC SIZE	INPUT CURRENT IN [A]	CAPACITOR		DATA FOR 230 V 50 Hz VOLTAGE						
					$\eta_N$ [min <sup>-1</sup> ]	I <sub>s</sub> / I <sub>N</sub>	$\eta$ %	cos $\Phi$	T <sub>N</sub> [Nm]	T <sub>s</sub> / T <sub>N</sub>	T <sub>M</sub> / T <sub>N</sub>
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



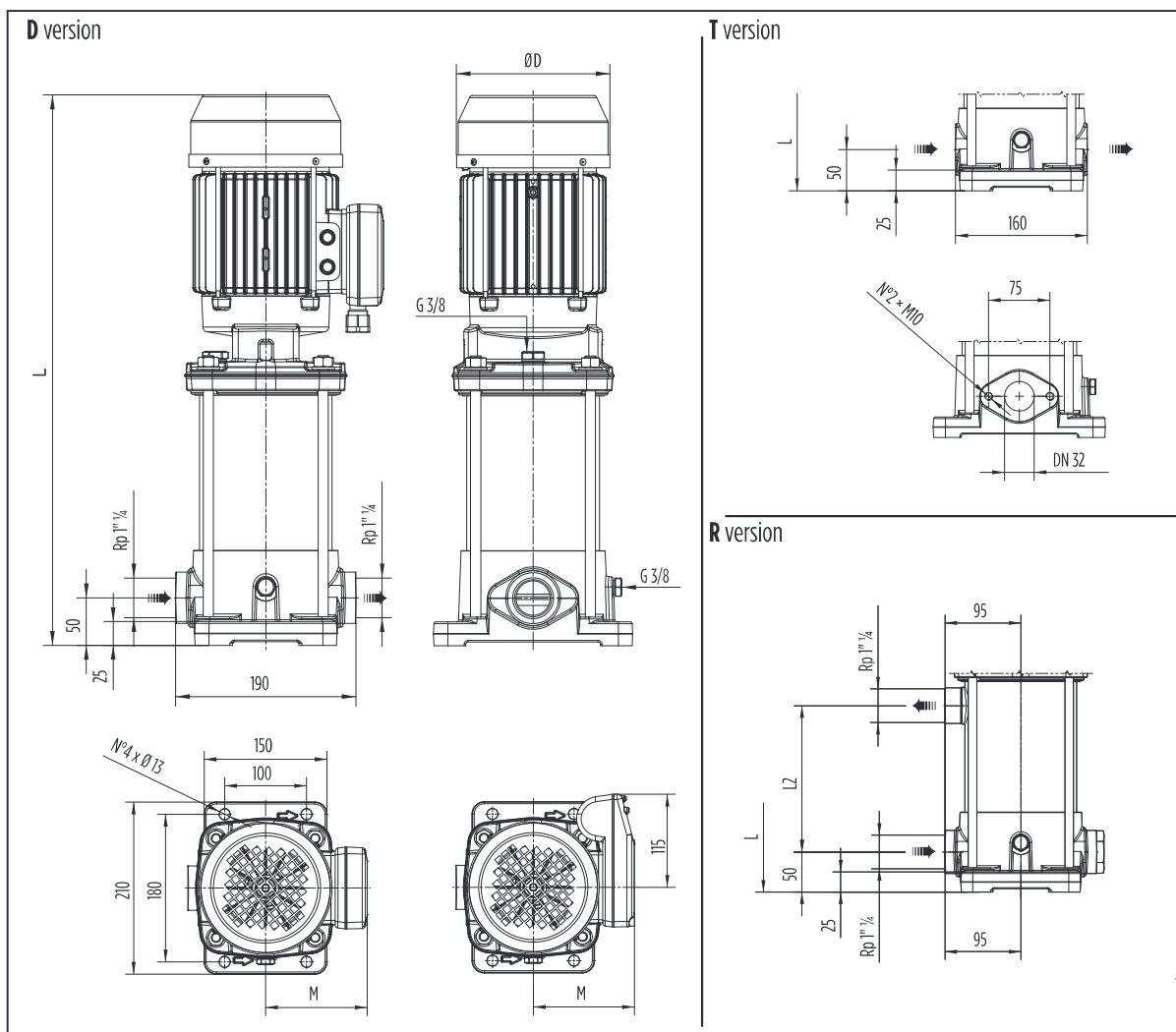
## Three-phase motors at 50Hz

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	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 <sub>N</sub> [kW]	IEC SIZE	N. of Poles	fN [Hz]	DATA FOR 400 V 50 Hz VOLTAGE				
				cosΦ	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	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 <sub>N</sub> [kW]	Voltage U <sub>N</sub>				nN	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
	IN [A]				[min-1]			
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



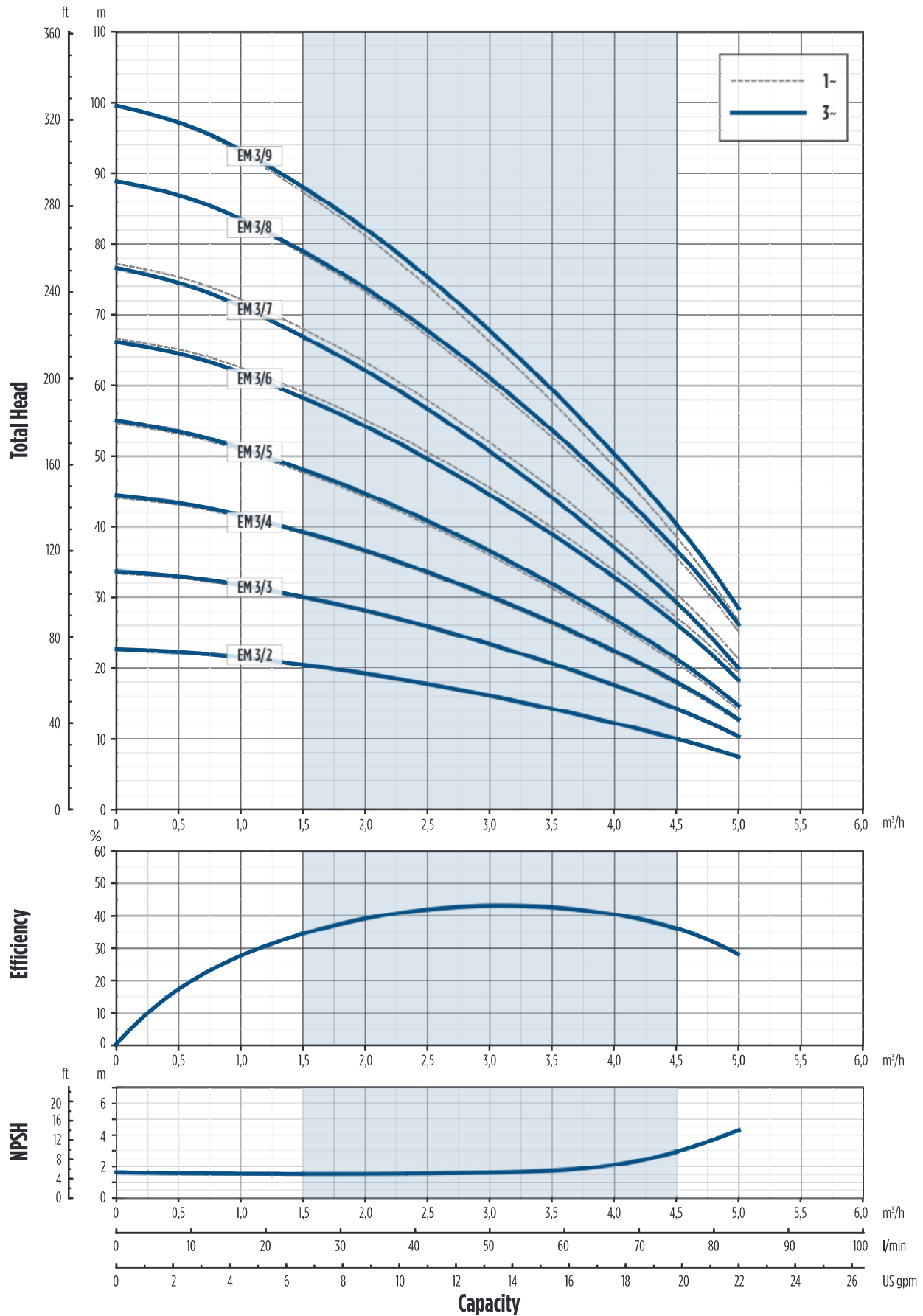
## SINGLE-PHASE ELECTRIC PUMP CHARACTERISTICS

PUMPS MODEL	MOTOR SIZE	MOTOR NOMINAL POWER		INPUT POWER	CAPACITOR 450V	INPUT CURRENT [A]	DIMENSIONS [mm]				WEIGHT [kg]
		kW	HP				L	L2	D	M	
EM 3/2	71	0,33	0,45	0,46	16	2,5	441,5	87,0	144,0	117,0	19,4
EM 3/3	71	0,45	0,6	0,60	16	3,0	465,5	111,0	144,0	117,0	20,1
EM 3/4	71	0,55	0,75	0,76	16	3,7	489,5	135,0	144,0	117,0	20,7
EM 3/5	71	0,75	1	0,91	16	4,3	513,5	159,0	144,0	117,0	21,4
EM 3/6	71	0,9	1,2	1,13	30	5,4	537,5	183,0	144,0	117,0	22,5
EM 3/7	71	1,1	1,5	1,28	30	6,0	561,5	207,0	144,0	117,0	23,1
EM 3/8	80	1,3	1,8	1,43	30	6,9	627,5	231,0	162,0	124,0	27,2
EM 3/9	80	1,5	2	1,58	30	7,5	651,5	255,0	162,0	124,0	27,8

## THREE-PHASE IE3 ELECTRIC PUMP CHARACTERISTICS

PUMPS MODEL	MOTOR SIZE	MOTOR NOMINAL POWER		INPUT POWER	INPUT CURRENT [A]		DIMENSIONS [mm]				WEIGHT [kg]
		kW	HP		220-240 V	380-415 V	L	L2	D	M	
EM 3/2T	71	0,75	1	0,41	1,9	1,1	441,5	87,0	144,0	117,0	19,3
EM 3/3T	71	0,75	1	0,57	2,1	1,2	465,5	111,0	144,0	117,0	19,9
EM 3/4T	71	0,75	1	0,72	2,4	1,4	489,5	135,0	144,0	117,0	20,6
EM 3/5T	71	0,75	1	0,87	2,7	1,6	513,5	159,0	144,0	117,0	21,2
EM 3/6T	71	1,1	1,5	1,02	3,3	1,9	537,5	183,0	144,0	117,0	22,4
EM 3/7T	71	1,1	1,5	1,17	3,6	2,1	561,5	207,0	144,0	117,0	23
EM 3/8T	80	1,5	2	1,39	4,8	2,8	627,5	231,0	162,0	124,0	27
EM 3/9T	80	1,5	2	1,55	5,1	3,0	651,5	255,0	162,0	124,0	27,7

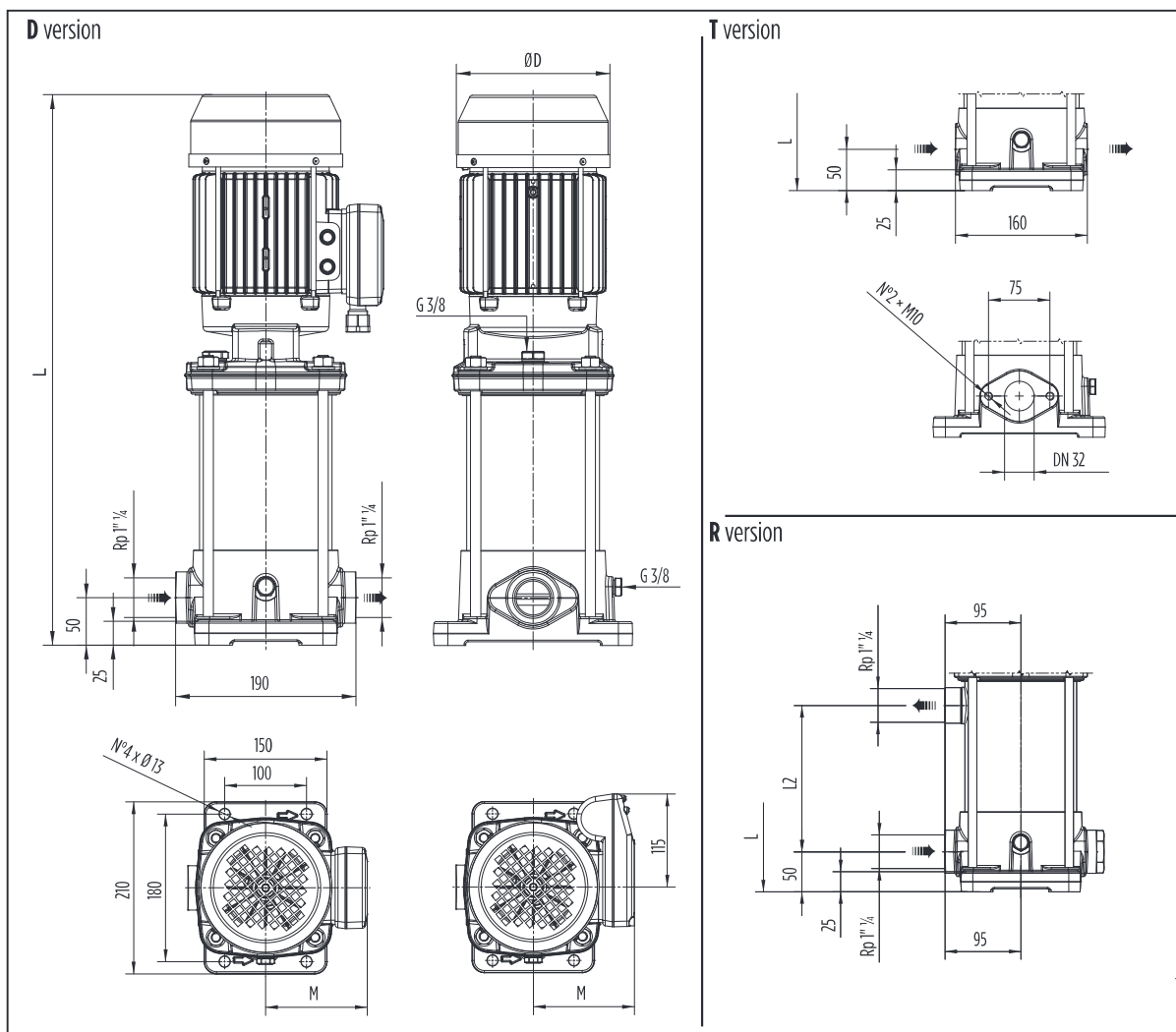
## PERFORMANCE CURVES 50Hz



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

001257 09/2016

# EM 5



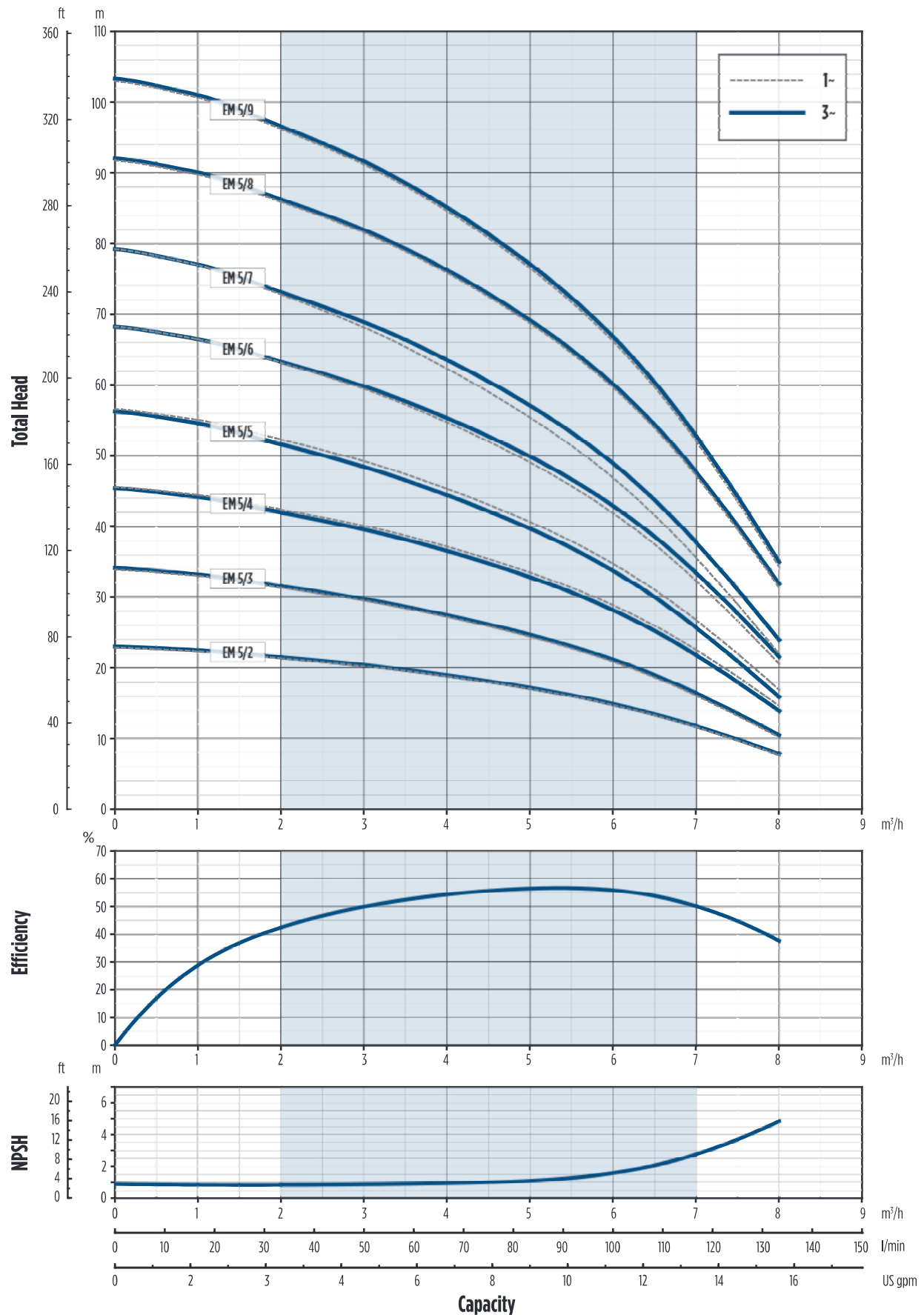
## SINGLE-PHASE ELECTRIC PUMP CHARACTERISTICS

PUMPS 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	D	M	
EM 5/2	71	0,45	0,6	0,59	16	3,0	441,5	87,0	144,0	117,0	19,4
EM 5/3	71	0,55	0,75	0,81	16	3,9	465,5	111,0	144,0	117,0	20,1
EM 5/4	71	0,9	1,2	1,10	30	5,3	489,5	135,0	144,0	117,0	21,2
EM 5/5	71	1,1	1,5	1,32	30	6,2	513,5	159,0	144,0	117,0	21,9
EM 5/6	80	1,3	1,8	1,53	30	7,3	579,5	183,0	162,0	124,0	25,9
EM 5/7	80	1,5	2	1,74	30	8,2	603,5	207,0	162,0	124,0	26,6
EM 5/8	90	1,85	2,5	1,94	60	8,9	666,5	231,0	179,0	131,0	30,4
EM 5/9	90	2,2	3	2,59	60	11,4	690,5	255,0	179,0	131,0	33,2

## 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		220-240 V	380-415 V	L	L2	D	M	
EM 5/2T	71	0,75	1	0,55	2,1	1,2	441,5	87,0	144,0	117,0	19,3
EM 5/3T	71	0,75	1	0,77	2,5	1,4	465,5	111,0	144,0	117,0	19,9
EM 5/4T	71	1,1	1,5	0,99	3,2	1,9	489,5	135,0	144,0	117,0	21,1
EM 5/5T	71	1,1	1,5	1,21	3,7	2,2	513,5	159,0	144,0	117,0	21,7
EM 5/6T	80	1,5	2	1,50	5,0	2,9	579,5	183,0	162,0	124,0	25,8
EM 5/7T	80	1,5	2	1,72	5,5	3,2	603,5	207,0	162,0	124,0	26,4
EM 5/8T	90	2,2	3	2,16	7,5	4,4	666,5	231,0	179,0	131,0	32,5
EM 5/9T	90	2,2	3	2,40	8,0	4,6	690,5	255,0	179,0	131,0	33,1

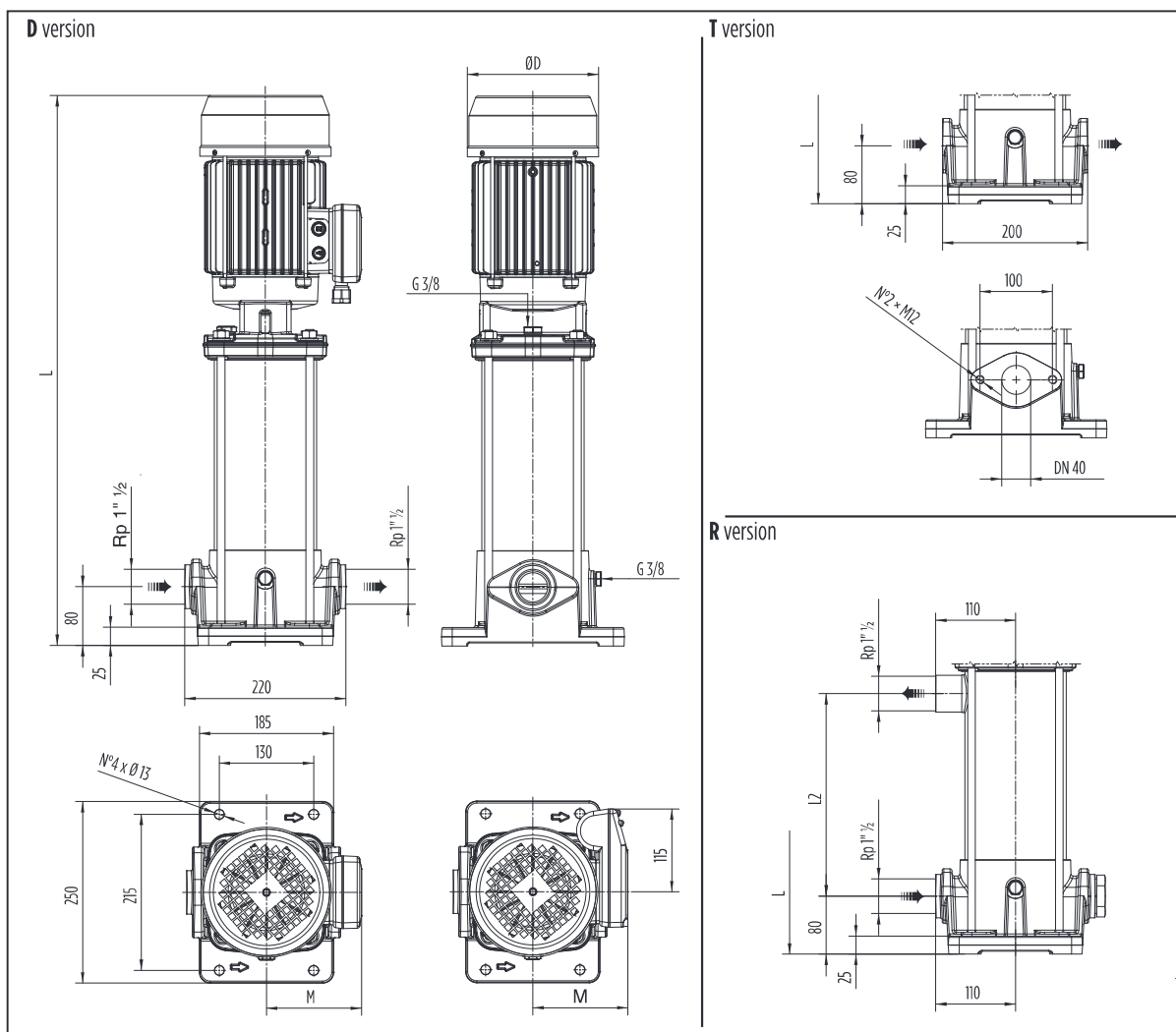
## PERFORMANCE CURVES 50Hz



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

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# EM 9



## SINGLE-PHASE ELECTRIC PUMP CHARACTERISTICS

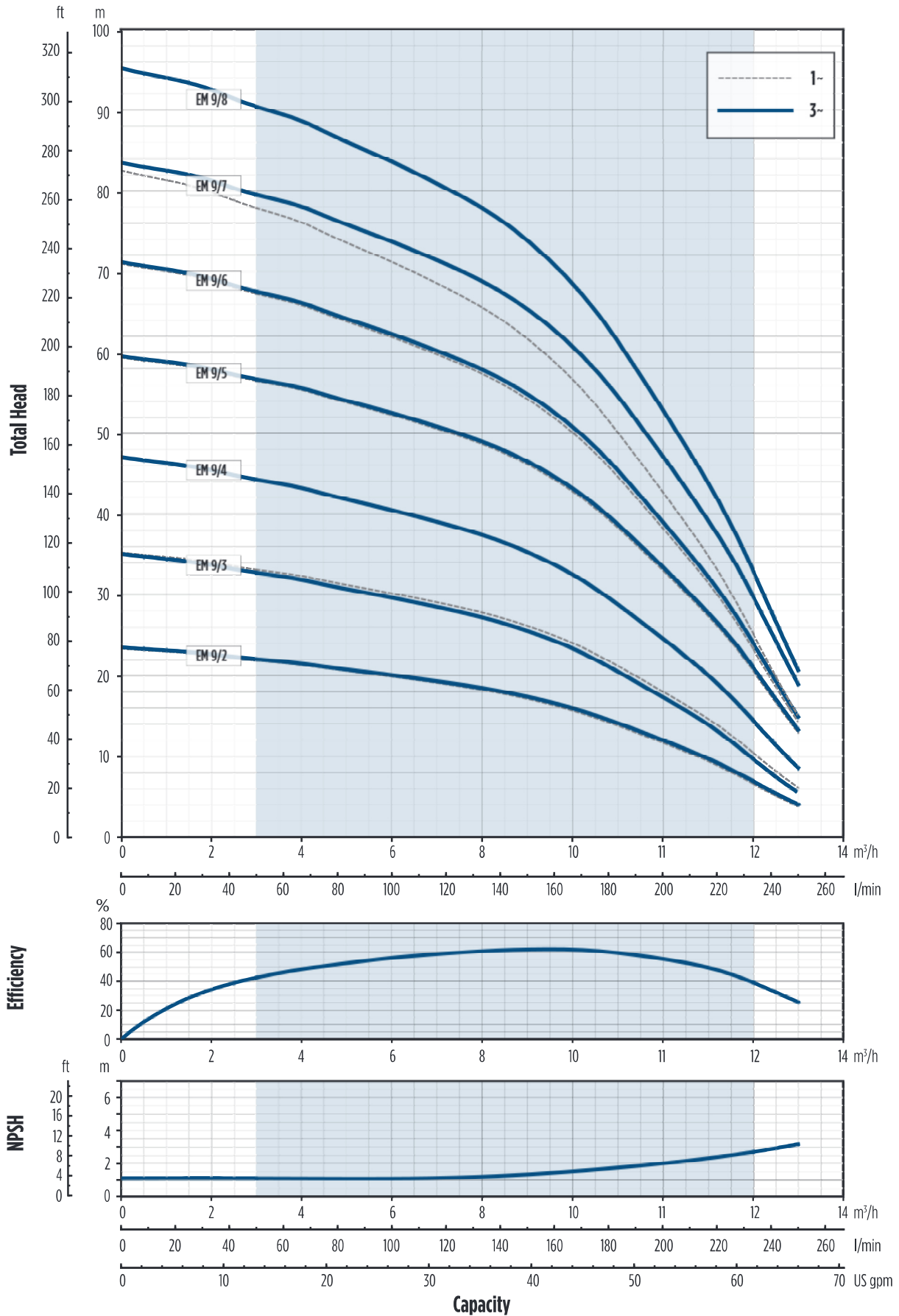
PUMPS MODEL	MOTOR SIZE	MOTOR NOMINAL POWER		INPUT POWER	CAPACITOR 450V	INPUT CURRENT [A]	DIMENSIONS [mm]				WEIGHT (kg)
		kW	HP				L	L2	D	M	
EM 9/2	71	0,75	1	0,91	16	4,3	483,5	99,0	144,0	117,0	23
EM 9/3	71	1,1	1,5	1,35	30	6,3	513,5	129,0	144,0	117,0	24,3
EM 9/4	80	1,5	2	1,74	30	8,2	585,5	159,0	162,0	124,0	28,5
EM 9/5	90	2,2	3	2,51	60	11,1	654,5	189,0	179,0	131,0	34,6
EM 9/6	90	2,2	3	2,89	60	12,7	684,5	219,0	179,0	131,0	35,4
EM 9/7	90	2,2	3	3,30	60	14,5	752,5	249,0	179,0	131,0	39,4

## THREE-PHASE IE3 ELECTRIC PUMP CHARACTERISTICS

PUMPS MODEL	MOTOR SIZE	MOTOR NOMINAL POWER		INPUT POWER	INPUT CURRENT [A]		DIMENSIONS [mm]				WEIGHT (kg)
		kW	HP		220-240 V	380-415 V	L	L2	D	M	
EM 9/2T	71	0,75	1	0,87	2,7	1,6	483,5	99,0	144,0	117,0	22,8
EM 9/3T	71	1,1	1,5	1,24	3,8	2,2	513,5	129,0	144,0	117,0	24,1
EM 9/4T	80	1,5	2	1,70	5,5	3,2	585,5	159,0	162,0	124,0	28,3
EM 9/5T	90	2,2	3	2,20	7,8	4,5	654,5	189,0	179,0	131,0	34,5
EM 9/6T	90	2,2	3	2,61	8,7	5,0	684,5	219,0	179,0	131,0	35,3
EM 9/7T	90	3	4	3,24	11,1	6,4	752,5	249,0	179,0	131,0	39,2
EM 9/8T	90	3	4	3,59	11,9	6,9	782,5	279,0	179,0	131,0	40



## PERFORMANCE CURVES 50Hz



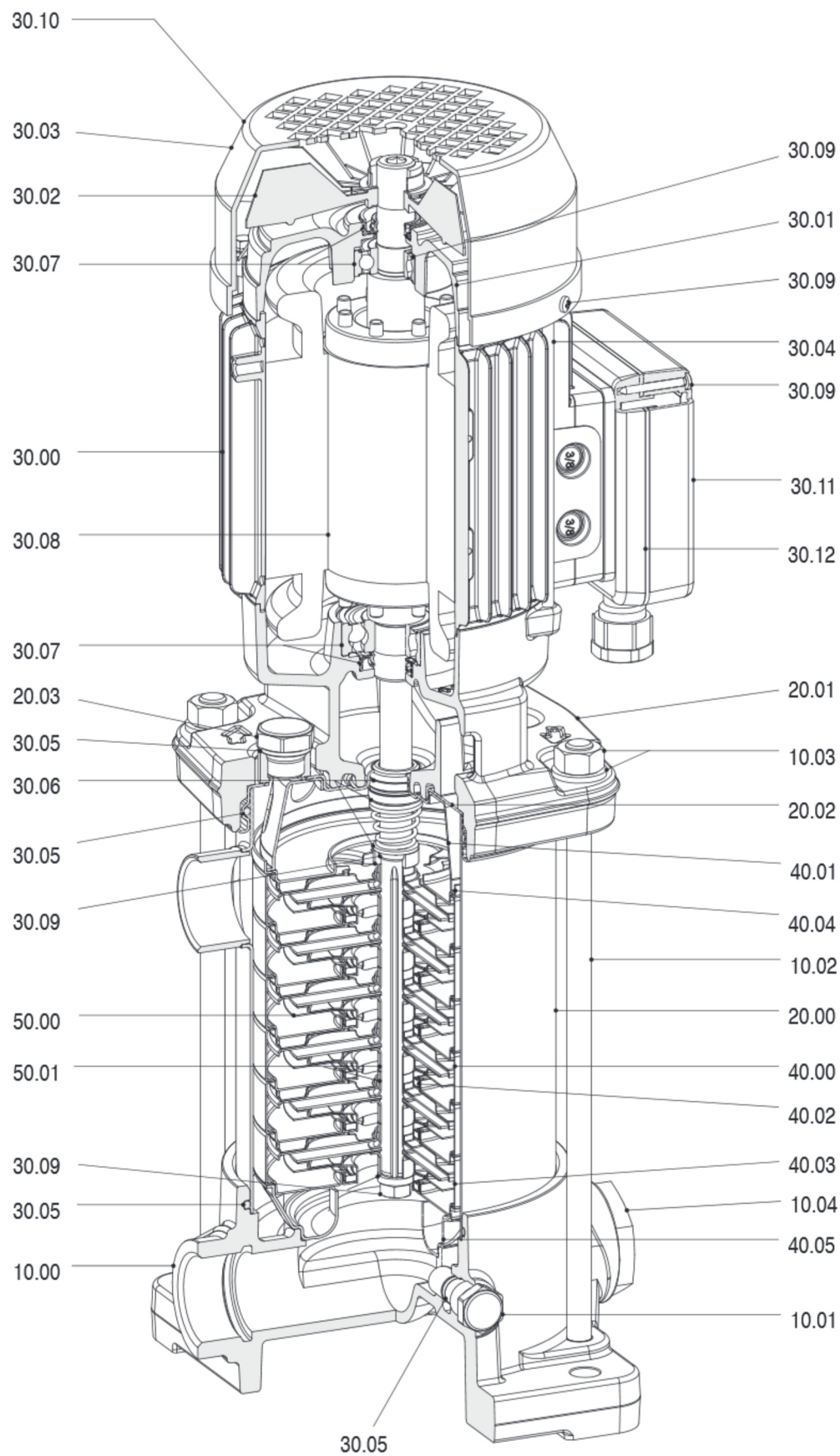
The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B



# **EM Series Pump Section and List of Main Components**

# EM 3-5-9

## Pump section



## EM 3-5-9

### List of Main components

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

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





**Franklin Electric**

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and coordination of Franklin Electric Co., Inc.

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

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