

-  Clean water
-  Domestic use
-  Civil use
-  Industrial use



PERFORMANCE RANGE

- Flow rate up to **180 l/min** (10.8 m³/h)
- Head up to **112 m**

APPLICATION LIMITS

- Manometric suction lift up to **7 m**
- Liquid temperature between **-10 °C** and **+40 °C**
- Ambient temperature up to **+40 °C**
- Max. working pressure **11 bar**
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3



EU REGULATION N. 547/2012

CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY



INSTALLATION AND USE

Suitable for use with clean water and with liquids that are not chemically aggressive towards the materials from which the pump is made. The high performance and adaptability to a wide range of applications make them an ideal choice in domestic, civil and industrial applications, in particular for the distribution of water in combination with pressure tanks and for boosting pressure in the network. The pump should be installed in an enclosed environment or sheltered from inclement weather.

PATENTS - TRADE MARKS - MODELS

- Patent Pending n. PCT/IB2014/063126

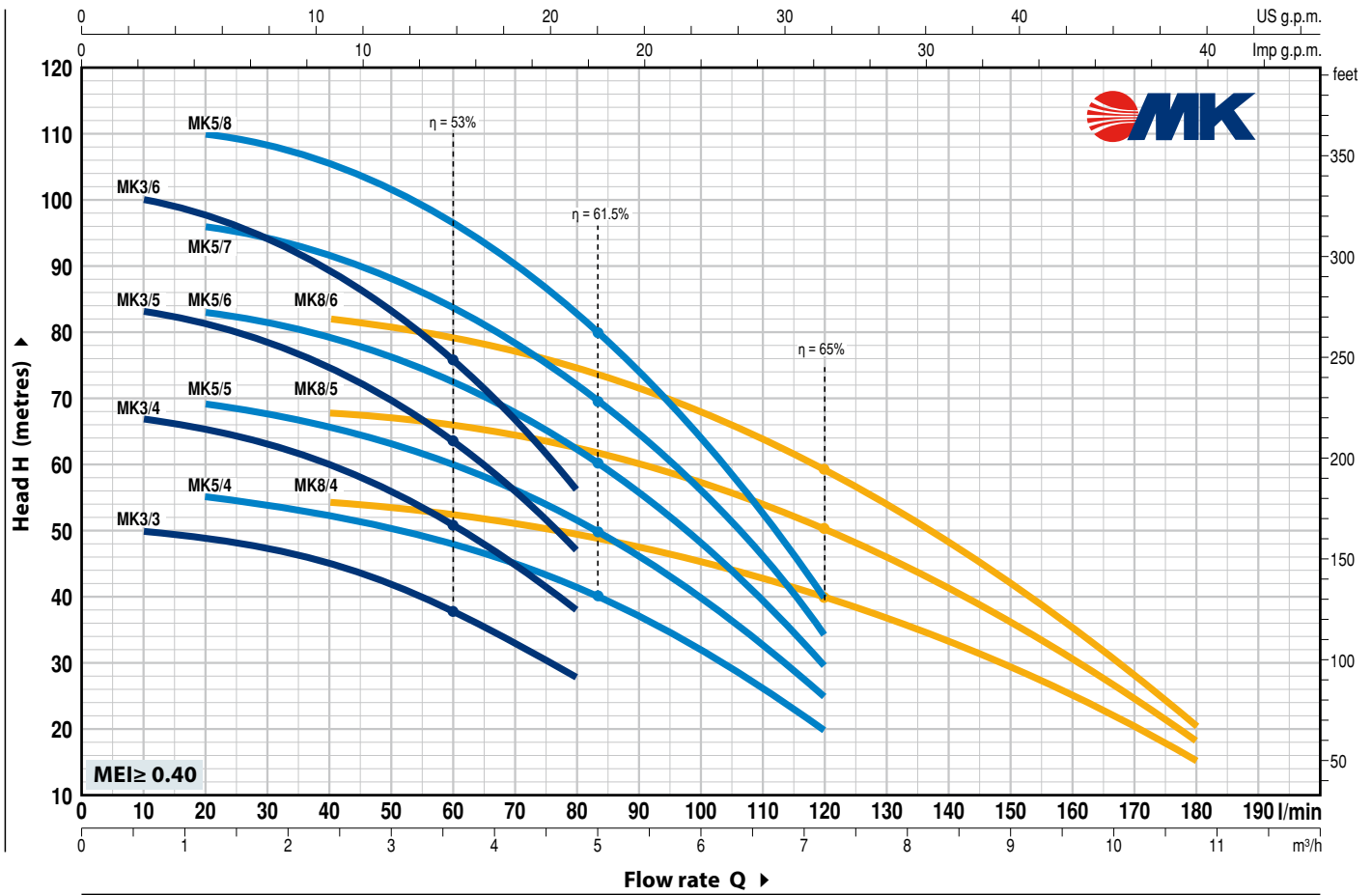
OPTIONS AVAILABLE ON REQUEST

- Other voltages or 60 Hz frequency
- Supply of threaded flanges ISO 228/1 (1" - 1/4" - 1/2") suction and delivery ports



CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n = 2900 min⁻¹ HS = 0 m



MODEL		POWER (P ₂)		Q	H metres													
Single-phase	Three-phase	kW	HP ▲		0	0.6	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8			
MKm 3/3	MK 3/3	0.75	1	0	52	50	49	45	38	28								
MKm 3/4	MK 3/4	1.1	1.5	10	69.5	67	65.5	60	50.5	38								
MKm 3/5	MK 3/5	1.1	1.5	20	87	83	82	75	63.5	47								
MKm 3/6	MK 3/6	1.5	2	40	104	100	98	90	76	56								
MKm 5/4	MK 5/4	1.1	1.5	60	56	-	55	52.5	48	41.5	32	20						
MKm 5/5	MK 5/5	1.1	1.5	80	70	-	69	66	60	51.5	40	25						
MKm 5/6	MK 5/6	1.5	2	100	84	-	83	79	72	62	48	30						
MKm 5/7	MK 5/7	1.8	2.5	120	98	-	96	92.5	84	72.5	56	34						
MKm 5/8	MK 5/8	2.2	3	140	112	-	110	105.5	96	82.5	64	40						
MKm 8/4	MK 8/4	1.5	2	160	56	-	-	54	52	50	46	39	31.5	24	15			
MKm 8/5	MK 8/5	1.8	2.5	180	70	-	-	67.5	66	63	58	50	40	30	18			
MKm 8/6	MK 8/6	2.2	3		86	-	-	82	78	74	68	58	46.5	35	20			

Q = Flow rate H = Total manometric head HS = Suction height

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

▲ Performance class of the three-phase motor (IEC 60034-30-1)

POS. COMPONENT CONSTRUCTION CHARACTERISTICS

1	SUCTION BODY	Cast iron with an Epoxy Electro Coating complete with threaded suction port ISO 228/1				
2	EXTERNAL SLEEVE	Stainless steel AISI 304				
3	DELIVERY BODY	Cast iron with an Epoxy Electro Coating complete with threaded delivery port ISO 228/1				
4	IMPELLERS AND DIFFUSERS	Noryl FE1520PW				
5	DIAPHRAGMS	Stainless steel AISI 304				
6	MOTOR SHAFT	Stainless steel EN 10088-3 - 1.4104				
7	MECHANICAL SEAL	<i>Seal Model</i>	<i>Shaft Diameter</i>	<i>Stationary ring</i>	<i>Rotational ring</i>	<i>Elastomer</i>
		FN-18	Ø 18 mm	Graphite	Ceramic	NBR
8	BEARINGS	6304 ZZ / 6204 ZZ				

9 CAPACITOR

<i>Pump</i>	<i>Capacitance</i>	
<i>Single-phase</i>	<i>(230 V or 240 V)</i>	<i>(110 V)</i>
MKm 3/3	25 µF - 450 VL	60 µF - 250 VL
MKm 3/4	25 µF - 450 VL	60 µF - 250 VL
MKm 3/5	31.5 µF - 450 VL	60 µF - 250 VL
MKm 3/6	45 µF - 450 VL	80 µF - 250 VL
MKm 5/4	25 µF - 450 VL	60 µF - 250 VL
MKm 5/5	31.5 µF - 450 VL	60 µF - 250 VL
MKm 5/6	45 µF - 450 VL	80 µF - 250 VL
MKm 5/7	50 µF - 450 VL	-
MKm 5/8	50 µF - 450 VL	-
MKm 8/4	45 µF - 450 VL	80 µF - 250 VL
MKm 8/5	50 µF - 450 VL	-
MKm 8/6	50 µF - 450 VL	-

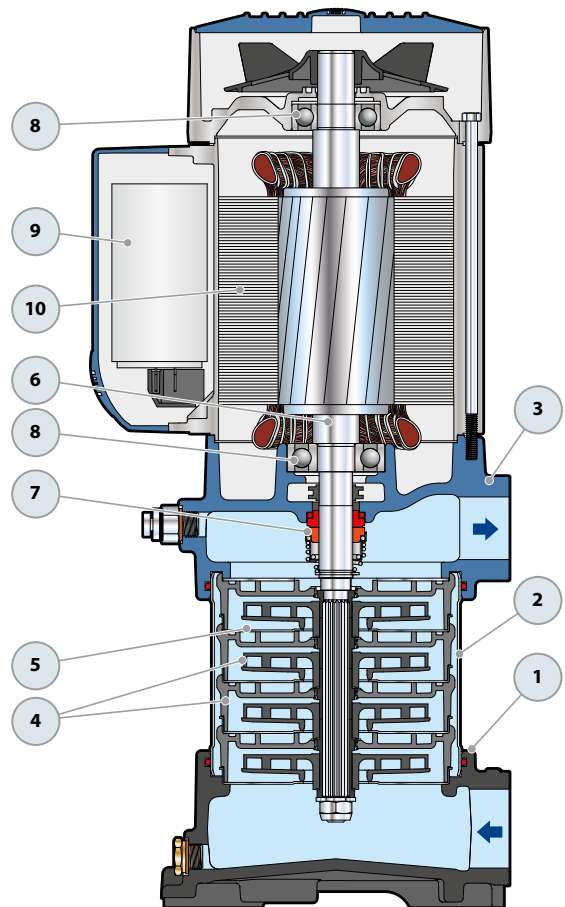
10 ELECTRIC MOTOR

MKm: single-phase 230 V - 50 Hz
with thermal overload protector incorporated into the winding up to P₂=1.5 kW

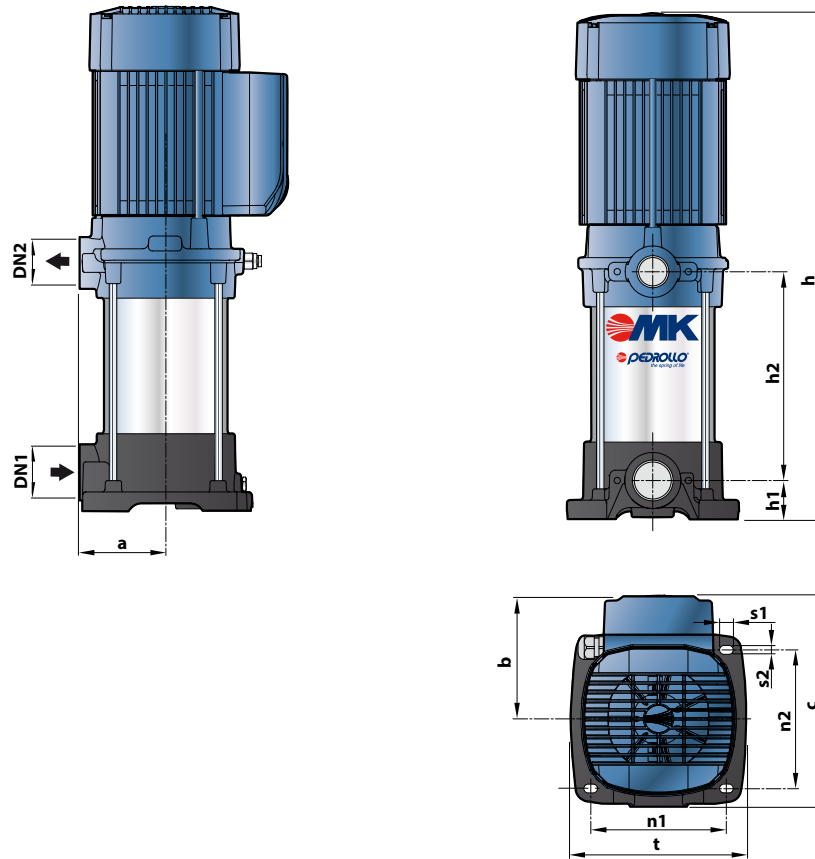
MK: three-phase 230/400 V - 50 Hz

⇒ **The three-phase pumps are fitted with high performance motors in class IE3 (IEC 60034-30-1)**

- Insulation: class F
- Protection: IP X4



DIMENSIONS AND WEIGHT



MODEL		PORTS		N. STAGES	DIMENSIONS mm										kg		
Single-phase	Three-phase	DN1	DN2		a	h	h1	h2	n1	n2	t	b	c	s1	s2	1~	3~
MKm 3/3	MK 3/3	1 1/4"	1"	3	93	450	41.5	132.5	143	146	185	130	223	14.5	9.5	19.1	19.2
MKm 3/4	MK 3/4			4		477		159.5								19.6	19.6
MKm 3/5	MK 3/5			5		504		186.5								20.0	20.1
MKm 3/6	MK 3/6			6		531		213.5								22.9	21.8
MKm 5/4	MK 5/4			4		477		159.5								19.5	19.6
MKm 5/5	MK 5/5			5		504		186.5								19.9	20.0
MKm 5/6	MK 5/6			6		531		213.5								22.8	21.7
MKm 5/7	MK 5/7			7		558		240.5								24.3	23.1
MKm 5/8	MK 5/8			8		585		267.5								24.8	23.6
MKm 8/4	MK 8/4			4		477		159.5								22.0	20.9
MKm 8/5	MK 8/5			5		504		186.5								23.6	22.4
MKm 8/6	MK 8/6			6		531		213.5								24.0	22.8

ABSORPTION

MODEL	VOLTAGE		
	230 V	240 V	110 V
MKm 3/3	5.9 A	5.6 A	11.8 A
MKm 3/4	6.8 A	6.5 A	13.6 A
MKm 3/5	8.7 A	8.5 A	17.4 A
MKm 3/6	10.4 A	10.0 A	20.8 A
MKm 5/4	6.6 A	6.3 A	13.2 A
MKm 5/5	8.1 A	7.9 A	16.2 A
MKm 5/6	9.5 A	9.2 A	19.0 A
MKm 5/7	10.6 A	10.2 A	21.2 A
MKm 5/8	11.5 A	11.2 A	23.0 A
MKm 8/4	10.3 A	10.0 A	20.6 A
MKm 8/5	11.2 A	10.9 A	22.4 A
MKm 8/6	12.3 A	12.0 A	24.6 A

MODEL	VOLTAGE					
	230 V	400 V	690 V	240 V	415 V	720 V
MK 3/3	5.2 A	3.0 A	1.7 A	5.0 A	2.9 A	1.7 A
MK 3/4	5.4 A	3.1 A	1.8 A	5.2 A	3.0 A	1.7 A
MK 3/5	5.9 A	3.4 A	2.0 A	5.7 A	3.3 A	1.9 A
MK 3/6	6.9 A	4.0 A	2.3 A	6.6 A	3.8 A	2.2 A
MK 5/4	5.4 A	3.1 A	1.8 A	5.2 A	3.0 A	1.7 A
MK 5/5	5.5 A	3.2 A	1.8 A	5.4 A	3.1 A	1.8 A
MK 5/6	6.6 A	3.8 A	2.2 A	6.4 A	3.7 A	2.1 A
MK 5/7	8.3 A	4.8 A	2.8 A	8.0 A	4.6 A	2.7 A
MK 5/8	8.8 A	5.1 A	2.9 A	8.5 A	4.9 A	2.8 A
MK 8/4	6.9 A	4.0 A	2.3 A	6.6 A	3.8 A	2.2 A
MK 8/5	8.6 A	5.0 A	2.9 A	8.3 A	4.8 A	2.8 A
MK 8/6	9.5 A	5.5 A	3.2 A	9.3 A	5.3 A	3.0 A