

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



PERFORMANCE RANGE

- Flow rate up to **180 l/min** (10.8 m³/h)
- Head up to **107 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



CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY
ISO 14001: ENVIRONMENT

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
- Supply of threaded flanges ISO 228/1 (1" - 1¼" - 1½") suction and delivery ports

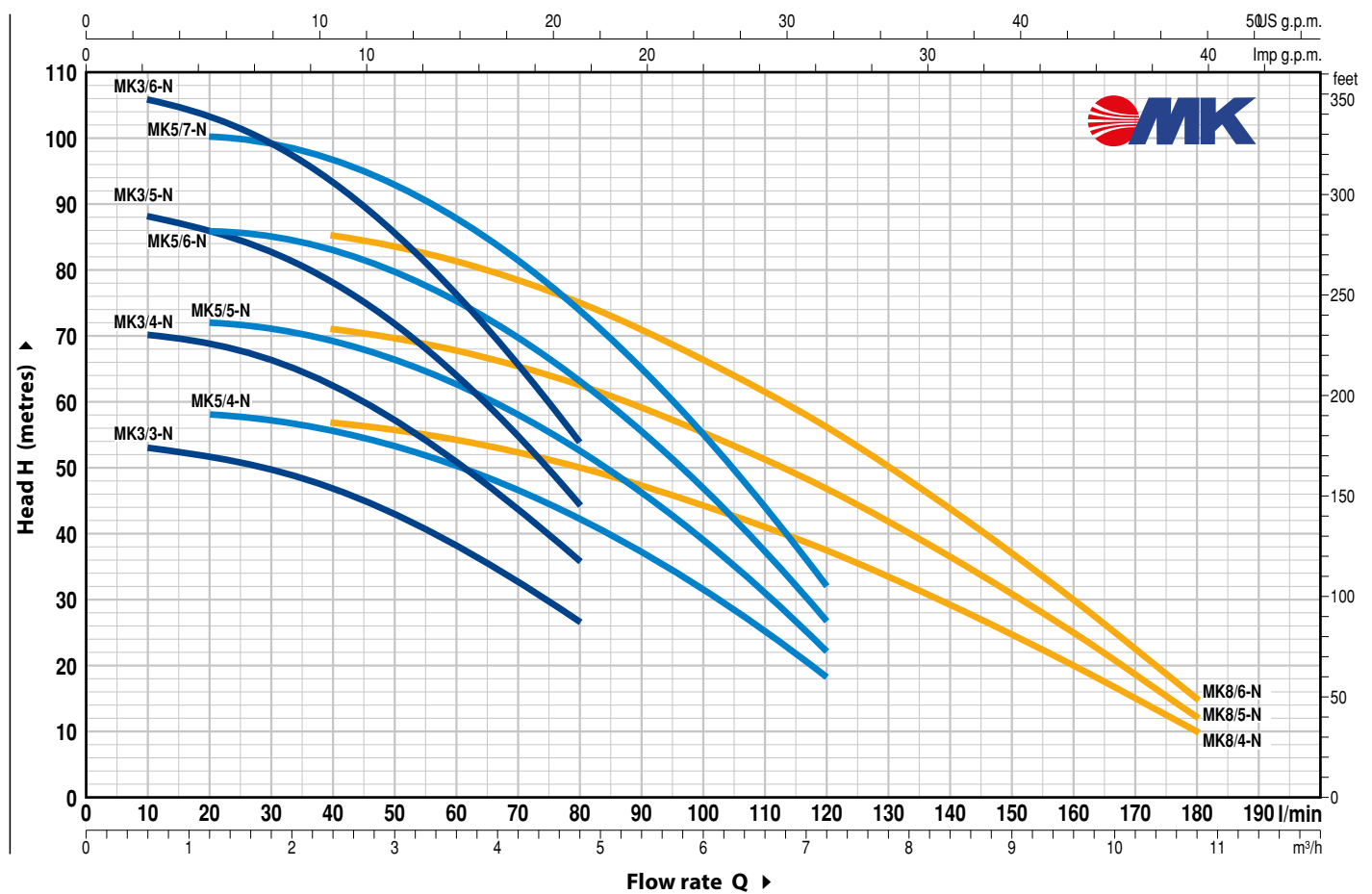


GUARANTEE

2 years subject to terms and conditions

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm 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	
					l/min	0	10	20	40	60	80	100	120	140	160	180	
MK _m 3/3-N	MK 3/3-N	0.75	1	IE2	H metres	53.5	53	52	47	38	27						
MK _m 3/4-N	MK 3/4-N	1.1	1.5			71	70	69	62	51	36						
MK _m 3/5-N	MK 3/5-N	1.1	1.5			89	88	86	78	64	44						
MK _m 3/6-N	MK 3/6-N	1.5	2	IE3		107	106	103	93	76	54						
MK _m 5/4-N	MK 5/4-N	1.1	1.5	IE2		58	-	58	55	50	42	31	18				
MK _m 5/5-N	MK 5/5-N	1.1	1.5			72.5	-	72	69	63	52.5	39	22				
MK _m 5/6-N	MK 5/6-N	1.5	2	IE3		87	-	86	83	75	63	46.5	27				
MK _m 5/7-N	MK 5/7-N	1.8	2.5			101	-	100	97	87.5	73.5	55	32				
MK _m 8/4-N	MK 8/4-N	1.5	2	IE3		58	-	-	57	54	50	44	37.5	29	20	10	
MK _m 8/5-N	MK 8/5-N	1.8	2.5			72	-	-	71	67.5	62.5	55	47	36.5	25	12	
MK _m 8/6-N	MK 8/6-N	2.2	3		87	-	-	85	81.5	75	66.5	56	43.5	30	15		

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)

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>(220 V)</i>	<i>(110 V or 127 V)</i>
MKm 3/3-N	25 µF - 450 VL	60 µF - 250 VL
MKm 3/4-N	25 µF - 450 VL	60 µF - 250 VL
MKm 3/5-N	31.5 µF - 450 VL	60 µF - 250 VL
MKm 3/6-N	45 µF - 450 VL	80 µF - 250 VL
MKm 5/4-N	25 µF - 450 VL	60 µF - 250 VL
MKm 5/5-N	31.5 µF - 450 VL	60 µF - 250 VL
MKm 5/6-N	45 µF - 450 VL	80 µF - 250 VL
MKm 5/7-N	50 µF - 450 VL	-
MKm 8/4-N	45 µF - 450 VL	80 µF - 250 VL
MKm 8/5-N	50 µF - 450 VL	-
MKm 8/6-N	50 µF - 450 VL	-

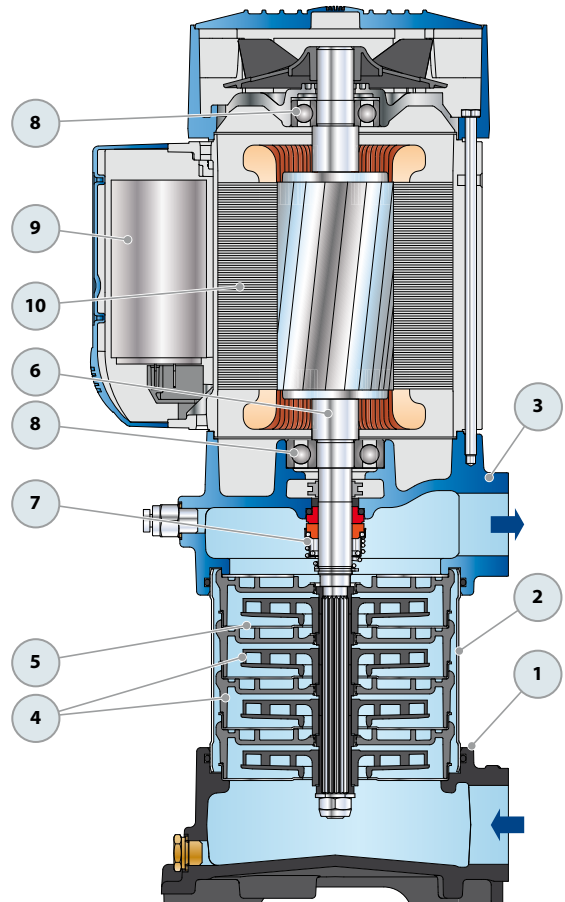
10 ELECTRIC MOTOR

MKm: single-phase 220 V - 60 Hz
with thermal overload protector incorporated into the winding up to P₂=1.5 kW

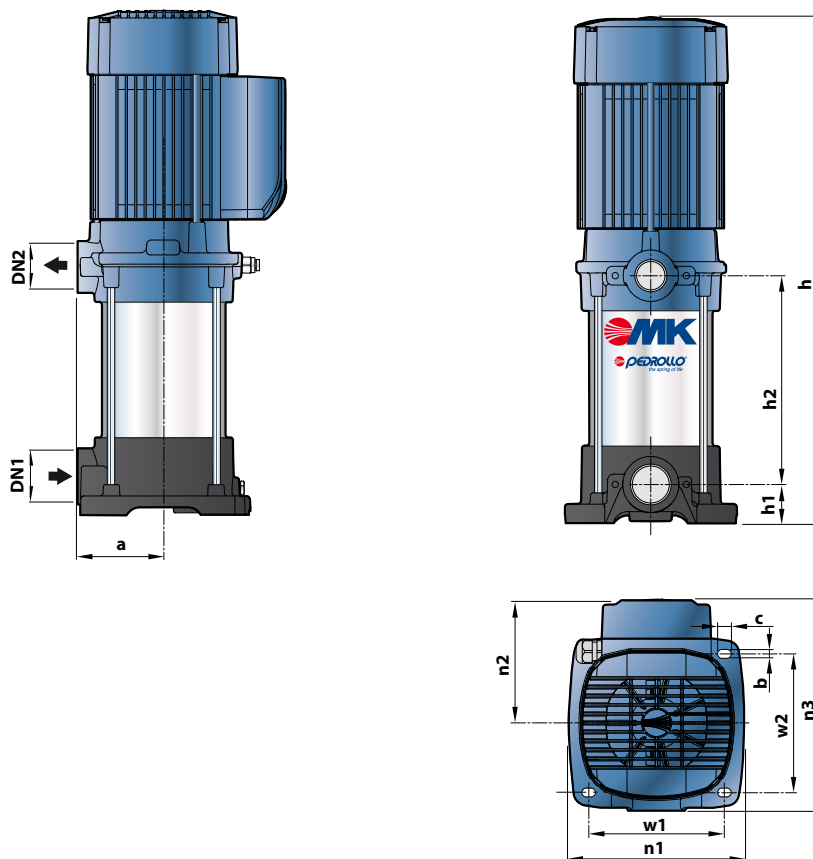
MK: three-phase 220/380 V - 60 Hz or 220/440 V - 60 Hz

⇒ **The three-phase pumps are fitted with high performance motors up to P₂=1.1 kW in class IE2 and from P₂=1.5 kW in class IE3 (IEC 60034-30)**

- 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	w1	w2	n1	n2	n3	b	c	1~	3~
MKm 3/3-N	MK 3/3-N	1¼"	1"	3	93	450	41,5	132,5	143	146	185	130	223	9,5	14,5	19.1	19.2
MKm 3/4-N	MK 3/4-N			4		477		159,5								19.6	19.6
MKm 3/5-N	MK 3/5-N			5		504		186,5								20.0	20.1
MKm 3/6-N	MK 3/6-N			6		531		213,5								22.9	21.8
MKm 5/4-N	MK 5/4-N			4		477		159,5								19.5	19.6
MKm 5/5-N	MK 5/5-N			5		504		186,5								19.9	20.0
MKm 5/6-N	MK 5/6-N			6		531		213,5								22.8	21.7
MKm 5/7-N	MK 5/7-N			7		558		240,5								24.3	23.1
MKm 8/4-N	MK 8/4-N			4		477		159,5								22.0	20.9
MKm 8/5-N	MK 8/5-N			5		504		186,5								23.6	22.4
MKm 8/6-N	MK 8/6-N			6		531		213,5								24.0	22.8

ABSORPTION

MODEL	VOLTAGE		
	220 V	110 V	127 V
Single-phase	220 V	110 V	127 V
MKm 3/3-N	5.0 A	10.0 A	9.5 A
MKm 3/4-N	6.1 A	12.2 A	11.6 A
MKm 3/5-N	7.0 A	14.0 A	13.3 A
MKm 3/6-N	10.0 A	20.0 A	15.0 A
MKm 5/4-N	6.6 A	13.2 A	12.5 A
MKm 5/5-N	7.0 A	14.0 A	13.3 A
MKm 5/6-N	10.0 A	20.0 A	15.0 A
MKm 5/7-N	11.6 A	-	-
MKm 8/4-N	10.0 A	20.0 A	15.0 A
MKm 8/5-N	11.6 A	-	-
MKm 8/6-N	13.5 A	-	-

MODEL	VOLTAGE	
	220 V	380 V
Three-phase	220 V	380 V
MK 3/3-N	4.6 A	2.7 A
MK 3/4-N	5.1 A	3.0 A
MK 3/5-N	5.5 A	3.2 A
MK 3/6-N	6.9 A	4.0 A
MK 5/4-N	4.8 A	2.8 A
MK 5/5-N	5.5 A	3.2 A
MK 5/6-N	6.9 A	4.0 A
MK 5/7-N	9.5 A	5.5 A
MK 8/4-N	6.9 A	4.0 A
MK 8/5-N	9.5 A	5.5 A
MK 8/6-N	11.4 A	6.6 A