
EBARA

CONTENTS

50 Hz
REV.A

CONTENTS

50 Hz

REV.A

SPECIFICATIONS : DML

50 Hz

REV.A

PUMP			
Scope	Discharge	[mm]	80 - 150
	Motor Power	[kW]	2.2 - 22
	Performance — Capacity	[m^3/h]	12 - 330
	Performance — Head	[m]	4 - 40
Liquid	Type		Sewage
	Maximum temperature	[°C]	40
	Maximum diameter of solids	[mm]	76
	Length fibrous shape	[mm]	500 mm
Submergence	Maximum	[m]	8
	Minimum		Refer to low water level (L.W.L.) in dimensions
Construction	Impeller		Non-clog single channel
	Mechanical seal		Oil lubrificated, double mechanical seals
Materials	Casing		Cast iron
	Impeller		Cast iron
	Shaft		403 Stainless steel
	Motor frame		Cast iron
	Fasteners		304 Stainless steel
	Mechanical seal		Upper Faces: Carbon / Ceramic/NBR
			Lower Faces: SiC / SiC/NBR
			Lubrificating Oil: Turbine Oil VG32 (SAE10W/20W)
Accessories	Kit connector		
Applicable standard of test			ISO 9906 annex A

MOTOR			
Motor	Type		Air filled dry submersible Three Phase
	No. of Poles		4
	Insulation Class		Class F
	Protection degree		IP 68
	Nominal Speed	[min^{-1}]	1450
	Frequency	[Hz]	50
	Voltage	[V]	380/400/415
	Starting		DOL (2.2 kW)
			Delta (3.7 to 22kW)
	Protection		In built overload protection (2.2 kW)
			Miniature thermal protector (3.7 to 22 kW)
	Bearings		Sealed ball bearing with permanent grease
Cable	Lenght	[m]	10

SPECIFICATIONS : DMLV

50 Hz

REV.A

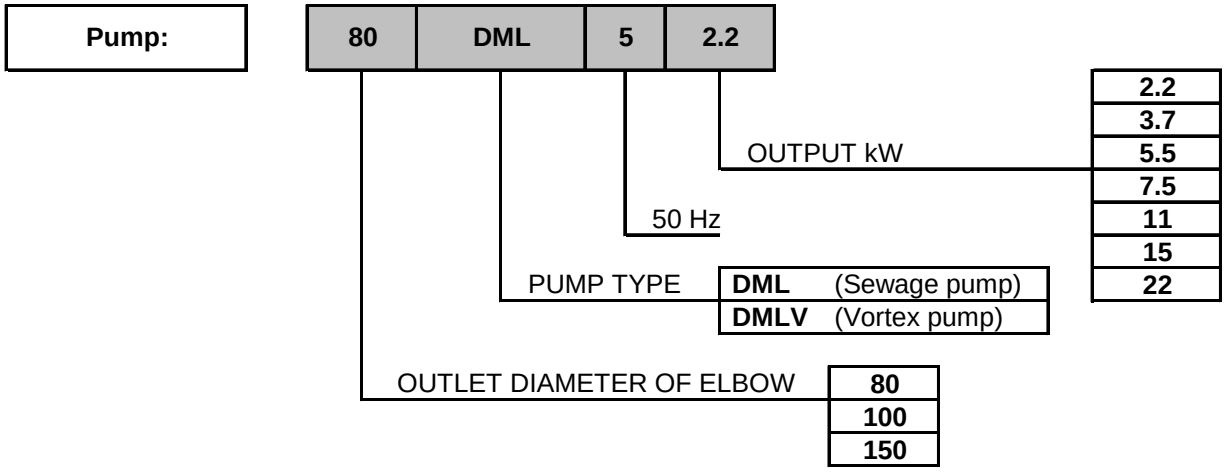
PUMP				
Scope	Discharge		[mm]	80 - 100
	Motor Power		[kW]	2.2 - 22
	Performance	Capacity	[m^3/h]	12 - 168
		Head	[m]	29,4 - 40
Liquid	Type			Sewage
	Maximum temperature		[°C]	40
	Maximum diameter of solids		[mm]	Equivalent to the pump diameter
	Length fibrous shape		[mm]	Ø 80 : 400 mm Ø 100 : 500 mm
Submergence	Maximum		[m]	8
	Minimum			Refer to low water level (L.W.L.) in dimensions
Construction	Impeller			Vortex
	Mechanical seal			Oil lubrificated, double mechanical seals
Materials	Casing			Cast iron
	Impeller			Cast iron
	Shaft			403 Stainless steel
	Motor frame			Cast iron
	Fasteners			304 Stainless steel
	Mechanical seal			Upper Faces: Carbon / Ceramic/NBR
				Lower Faces: SiC / SiC/NBR
				Lubrificating Oil: Turbine Oil VG32 (SAE10W/20W)
Accessories	Kit connector			
Applicable standard of test				ISO 9906 annex A

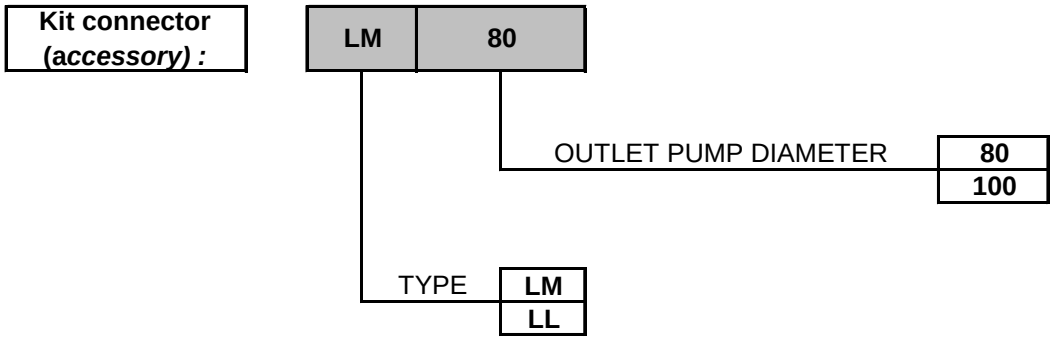
MOTOR			
Motor	Type		Air filled dry submersible Three Phase
	No. of Poles		4
	Insulation Class		Class F
	Protection degree		IP X8
	Nominal Speed	[min^{-1}]	1450
	Frequency	[Hz]	50
	Voltage	[V]	380/400/415
	Starting		DOL (2.2 kW)
			Delta (3.7 to 22kW)
	Protection		In built overload protection (2.2 kW)
			Miniature thermal protector (3.7 to 22 kW)
	Bearings		Sealed ball bearing with permanent grease
Cable	Lenght	[m]	10

SELECTION CHART

50 Hz

REV.A



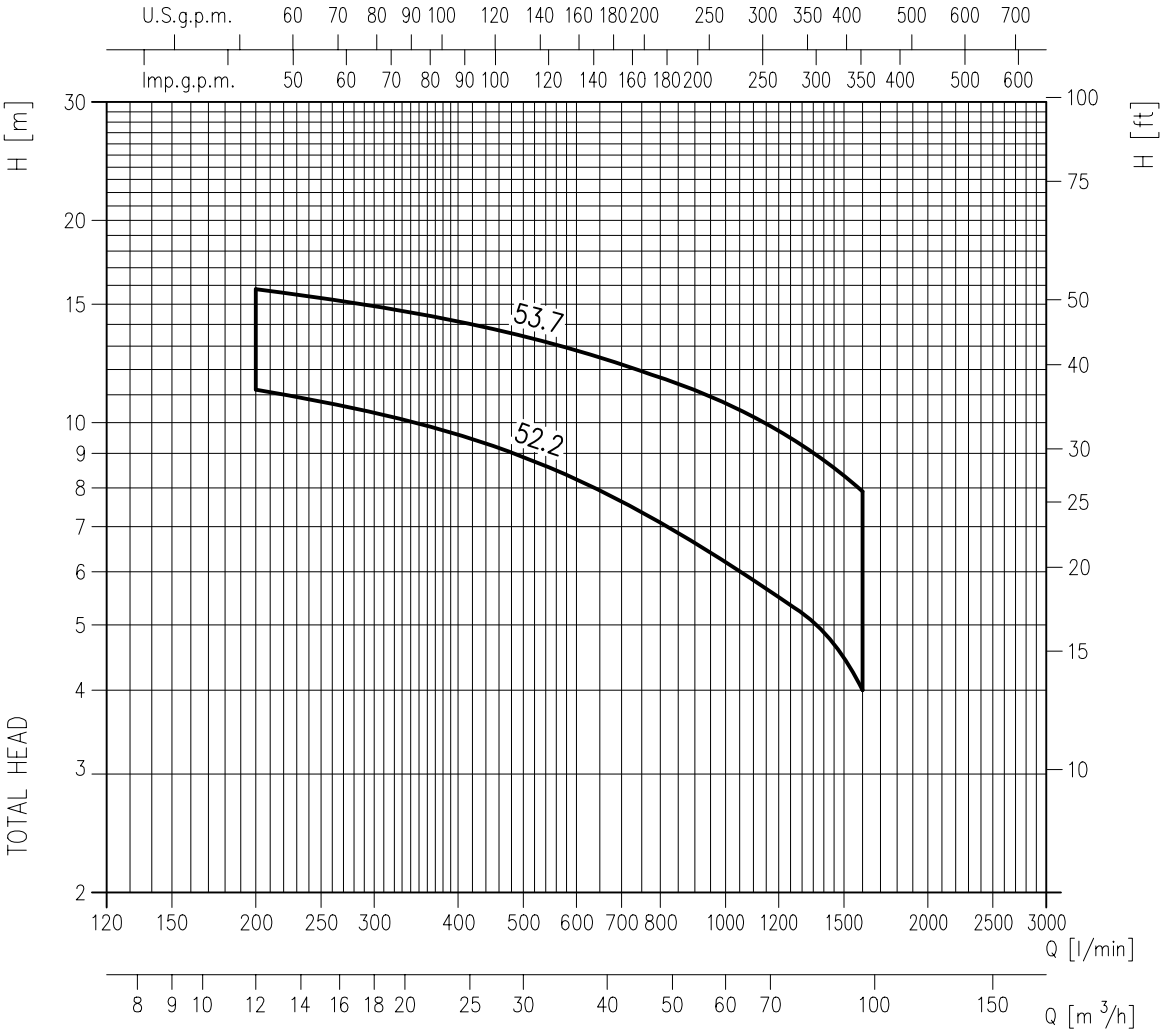


SELECTION CHART : 80DML

50 Hz

REV.A

80DML



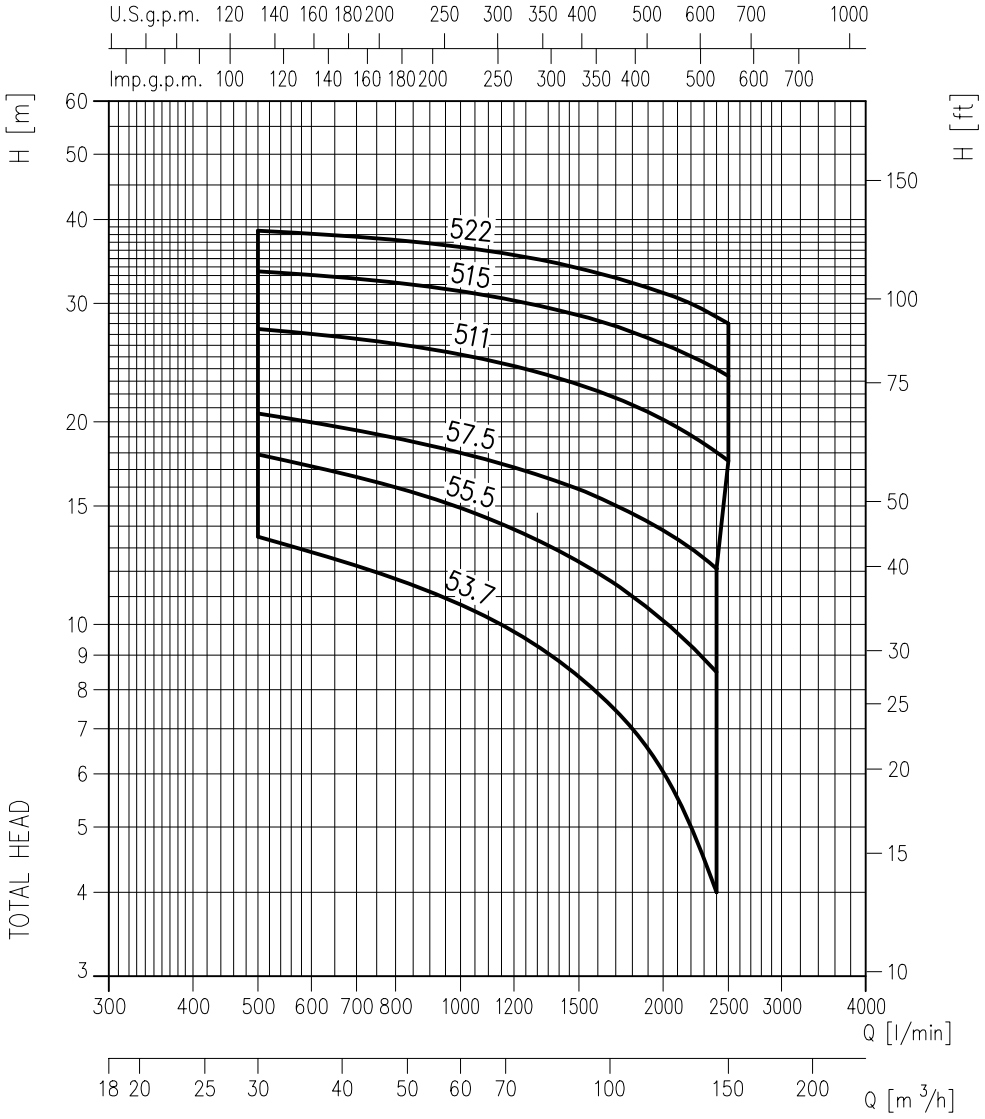
PUMP TYPE DML	kW	HP	Q= Capacity									
			[l/min]	0	200	400	600	800	1000	1200	1400	1600
			[m^3/h]	0	12	24	36	48	60	72	84	96
			H=Total manometric head [m]									
80DML52.2	2.2	3	-	13.1	11.2	9.6	8.2	7.1	6.2	5.5	4.9	4
80DML53.7	3.7	5	-	17.9	15.8	14.2	12.8	11.7	10.7	9.7	8.8	7.9

SELECTION CHART : 100 DML

50 Hz

REV.A

100DML



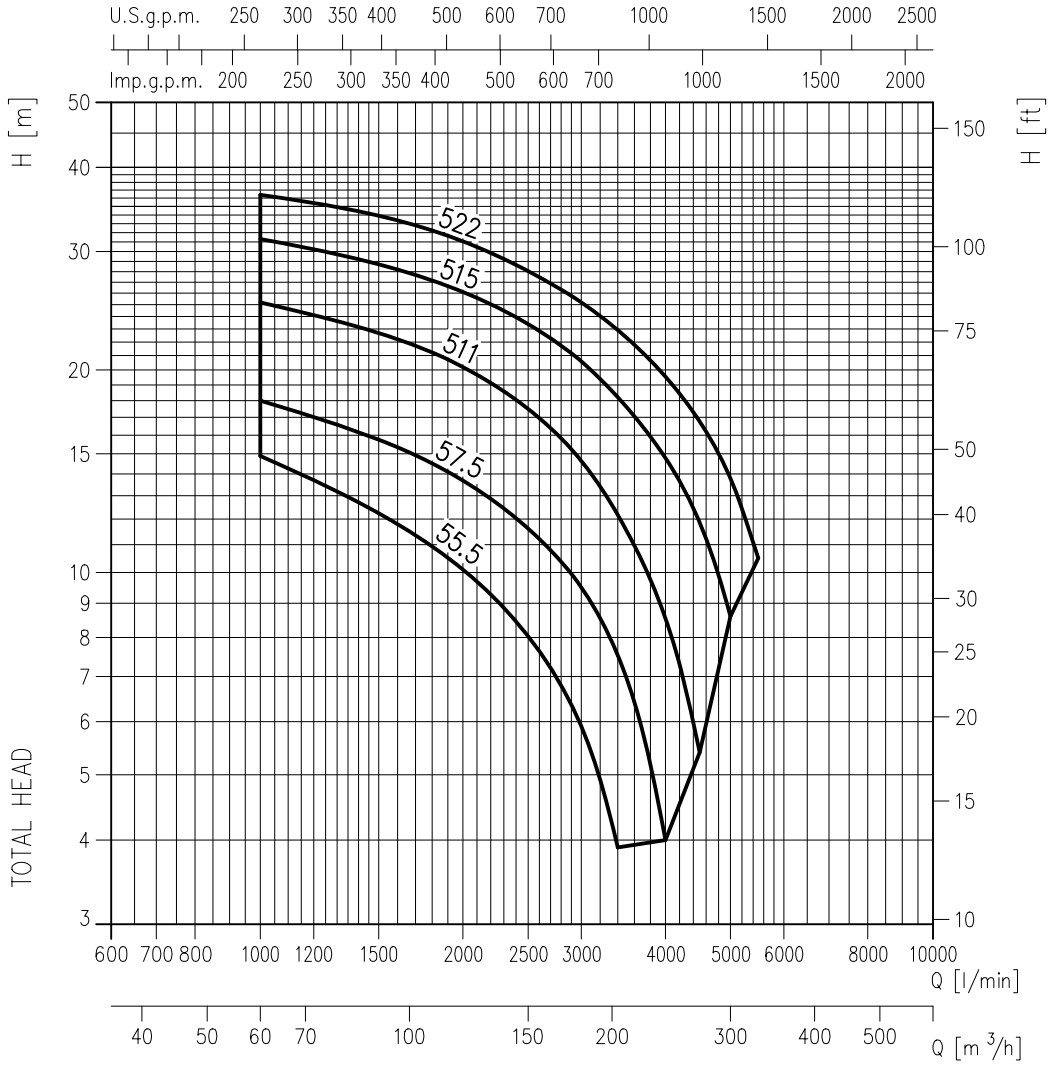
PUMP TYPE DML	kW	HP	Q= Capacity [l/min]	0	500	1000	1300	1600	1900	2200	2400	2500
			[m³/h]	0	30	60	78	96	114	132	144	150
			H=total manometric head [m]									
100DML53.7	3.7	5	-	17.9	13.5	10.7	9.3	7.9	6.5	5	4	_
100DML55.5	5.5	7.5	-	22	17.9	14.9	13.4	11.9	10.6	9.3	8.5	_
100DML57.5	7.5	10	-	25.3	20.6	18	16.7	15.5	14.2	13	12.1	_
100DML511	11	15	-	30.3	27.5	25.2	23.7	22.2	20.7	19.1	18	17.5
100DML515	15	20	-	35	33.5	31.3	29.8	28.3	26.7	25.1	24	23.4
100DML522	22	30	-	40	38.5	36.4	34.9	33.3	31.7	30	28.7	28

SELECTION CHART 150DML

50 Hz

REV.A

150DML



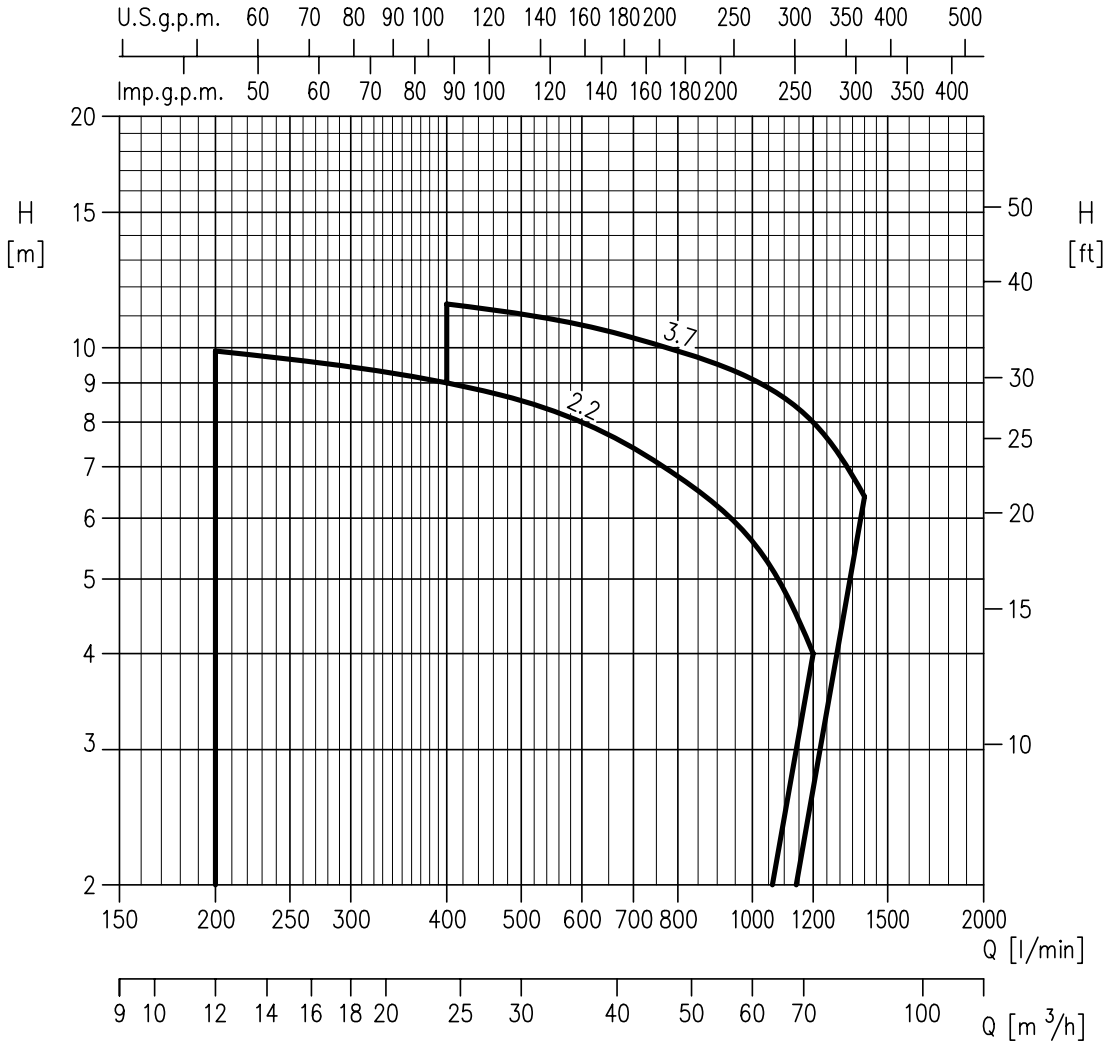
PUMP TYPE DML	kW	HP	Q= Capacity										
			[l/min]	0	1000	2000	2500	3000	3400	4000	4500	5000	5500
			[m3/h]	0	60	120	150	180	204	240	270	300	330
			H=total manometric head [m]										
150DML55.5	5,5	7,5	-	22	14,9	10,1	8	5,9	3,9	-	-	-	-
150DML57.5	7,5	10	-	25,3	18	13,7	11,6	9,5	7,5	4	-	-	-
150DML511	11	15	-	30,3	25,2	20,2	17,5	14,7	12,2	8,6	5,4	-	-
150DML515	15	20	-	35	31,3	26,1	23,4	20,6	18,2	14,8	11,9	8,6	-
150DML522	22	30	-	40	36,4	31,1	28	25,2	22,9	19,5	16,8	13,8	10,5

SELECTION CHART : 80DMLV

50 Hz

REV.A

80DMLV



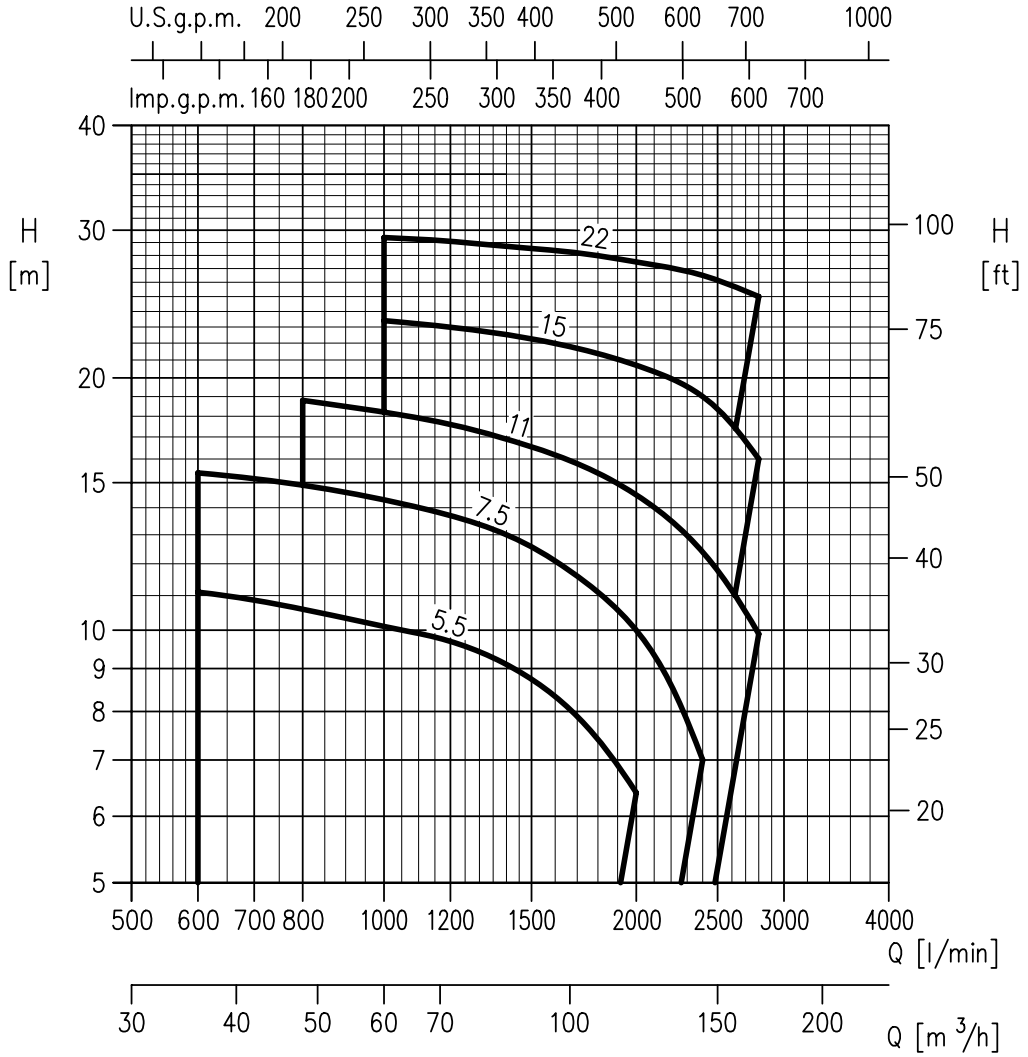
PUMP TYPE DMLV	kW	HP	Q= Capacity								
			[l/min]	0	200	400	600	800	1000	1200	1400
			[m³/h]	0	12	24	36	48	60	72	84
			H=Total manometric head [m]								
80DMLV52.2	2,2	3	-	10,7	9,9	9,0	8,0	6,8	5,6	4,0	-
80DMLV53.7	3,7	5	-	12,8	12,0	11,4	10,7	9,9	9,1	8,0	6,4

SELECTION CHART : 100DMLV

50 Hz

REV.A

100DMLV



PUMP TYPE DMLV	kW	HP	Q= Capacity									
			[l/min]	0	600	800	1000	1200	1400	1700	2000	2400	2800
			[m^3/h]	0	36	48	60	72	84	102	120	144	168
			H=Total manometric head [m]										
100DMLV5,5	5,5	7,5	-	13,2	11,1	10,6	10,1	9,7	9,1	7,9	6,4	-	-
100DMLV57,5	7,5	10	-	16,8	15,4	14,9	14,3	13,7	13,0	11,6	10,0	7,0	-
100DMLV511	11	15	-	20,6	-	18,8	18,2	17,6	16,9	15,8	14,5	12,4	9,9
100DMLV515	15	20	-	24,9	-	-	23,4	23,0	22,5	21,7	20,7	19,0	16,0
100DMLV522	22	30	-	32,1	-	-	29,4	29,1	28,7	28,2	27,5	26,5	25,0

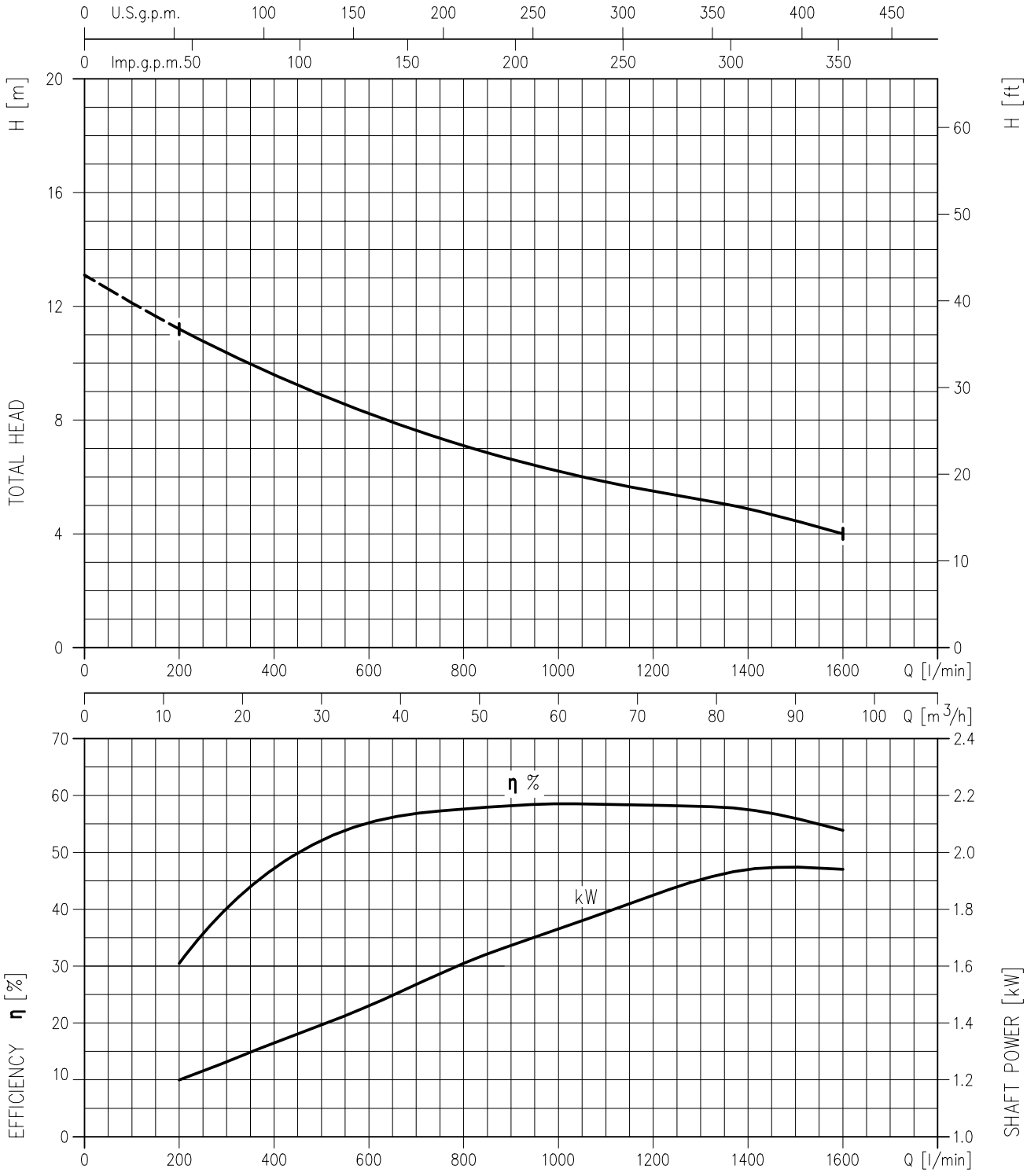
PERFORMANCE CURVE

50 Hz

REV.A

80DML52.2

Impeller diameter = 179 mm



Rotation speed ≈ 1450 min^{-1}

Test fluid : clean water at 20°C

Applicable standard of test : ISO 9906 annex A

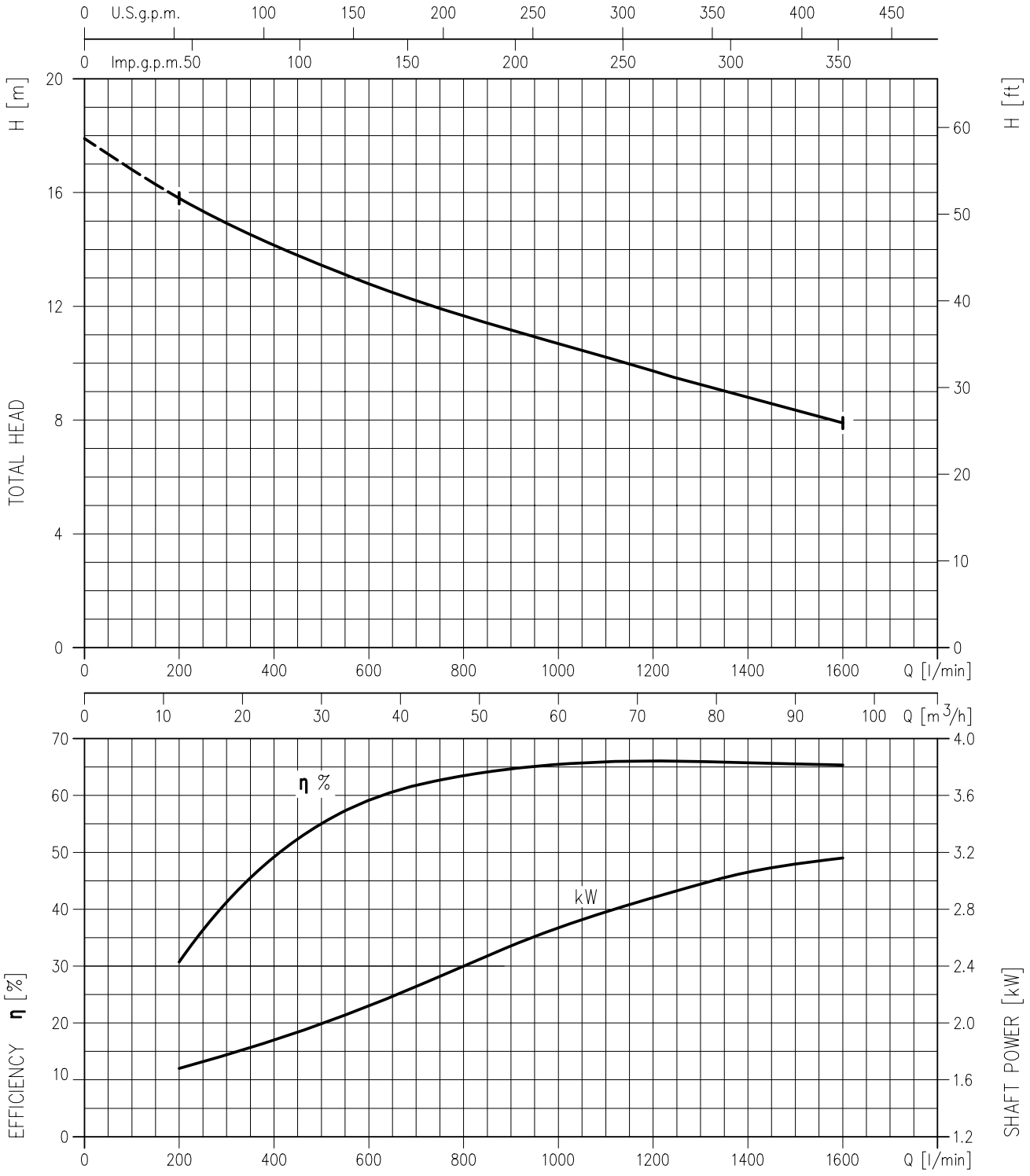
PERFORMANCE CURVE

50 Hz

REV.A

80DML53.7

Impeller diameter = 210 mm



Rotation speed ≈ 1450 min^{-1}

Test fluid : clean water at 20°C

Applicable standard of test : ISO 9906 annex A

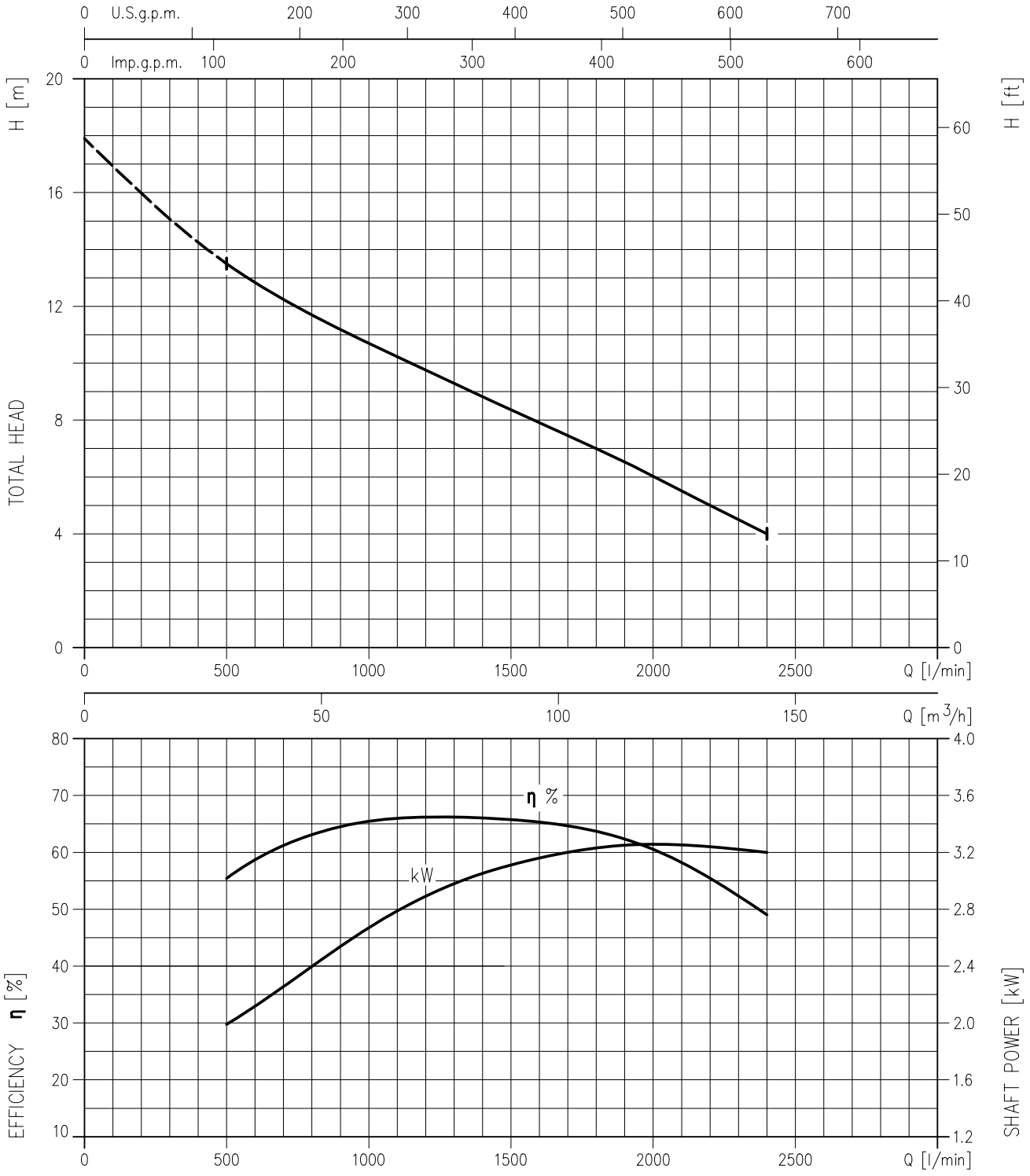
PERFORMANCE CURVE

50 Hz

REV.A

100DML53.7

Impeller diameter = 210 mm



Rotation speed ≈ 1450 min^{-1}

Test fluid : clean water at 20°C

Applicable standard of test : ISO 9906 annex A

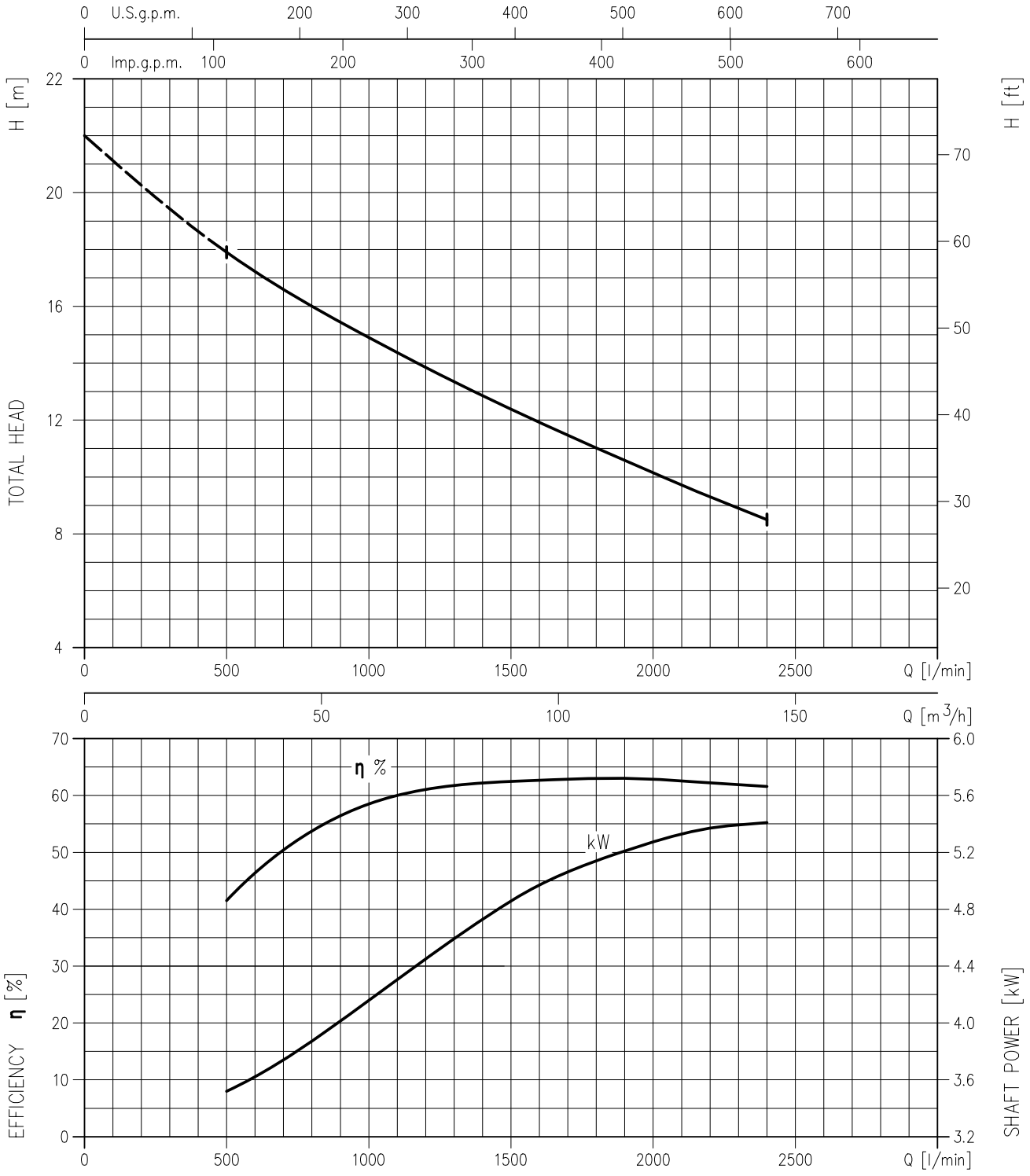
PERFORMANCE CURVE

50 Hz

REV.A

100DML55.5

Impeller diameter = 232 mm



Rotation speed ≈ 1450 min^{-1}

Test fluid : clean water at 20°C

Applicable standard of test : ISO 9906 annex A

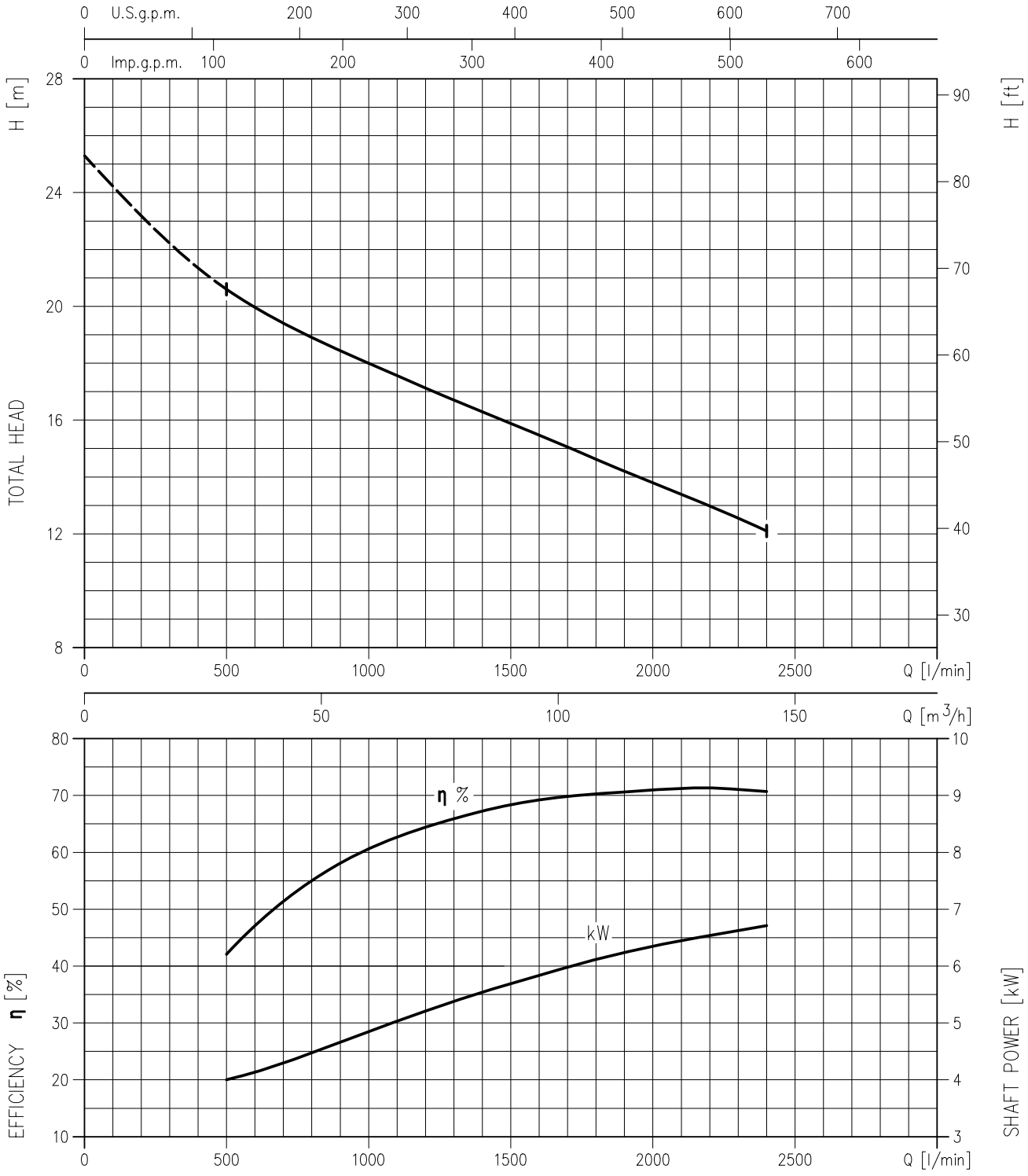
PERFORMANCE CURVE

50 Hz

REV.A

100DML57.5

Impeller diameter = 248 mm



Rotation speed ≈ 1450 min^{-1}

Test fluid : clean water at 20°C

Applicable standard of test : ISO 9906 annex A

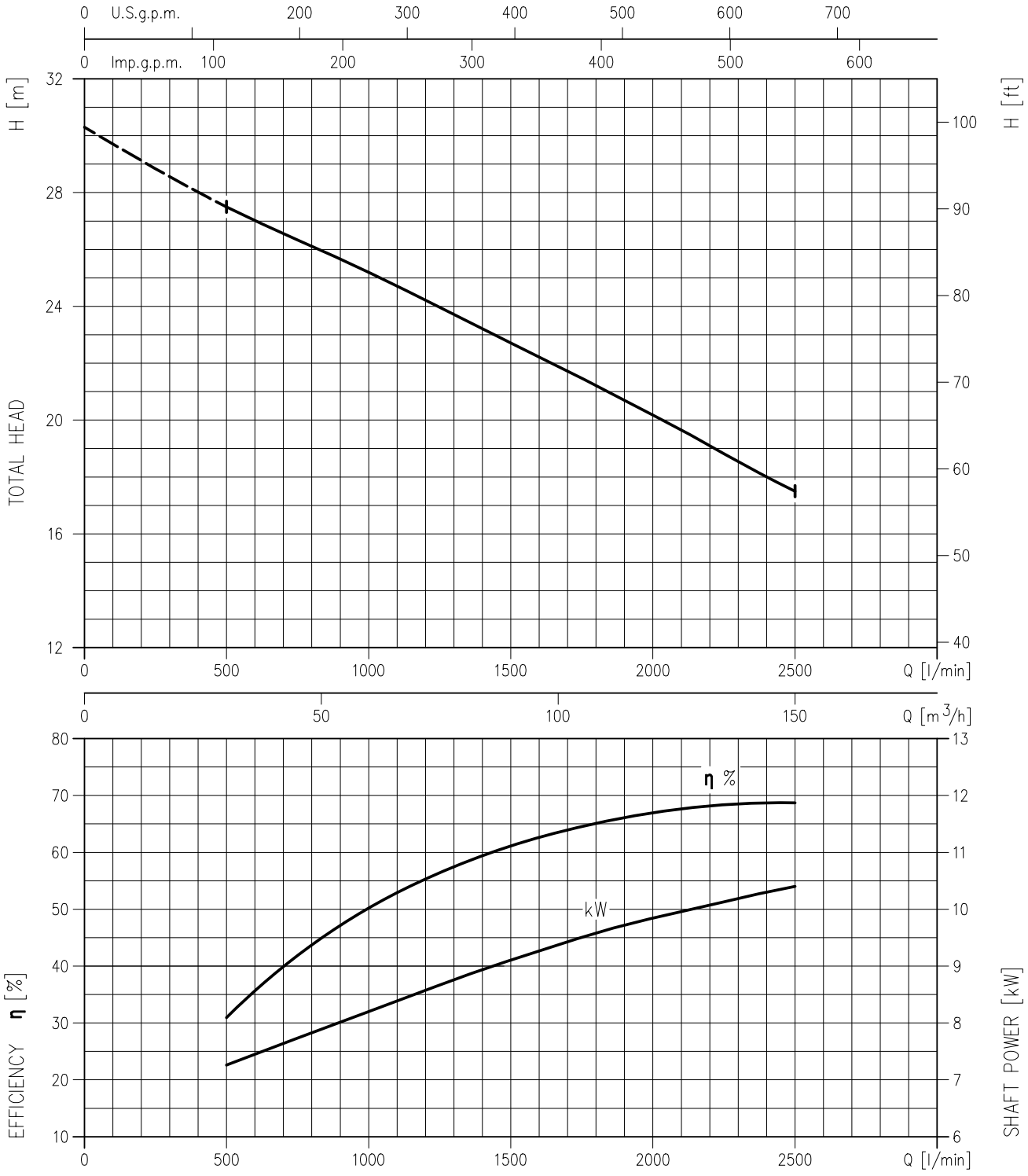
PERFORMANCE CURVE

50 Hz

REV.A

100DML511

Impeller diameter = 286 mm



Rotation speed ≈ 1450 min^{-1}

Test fluid : clean water at 20°C

Applicable standard of test : ISO 9906 annex A

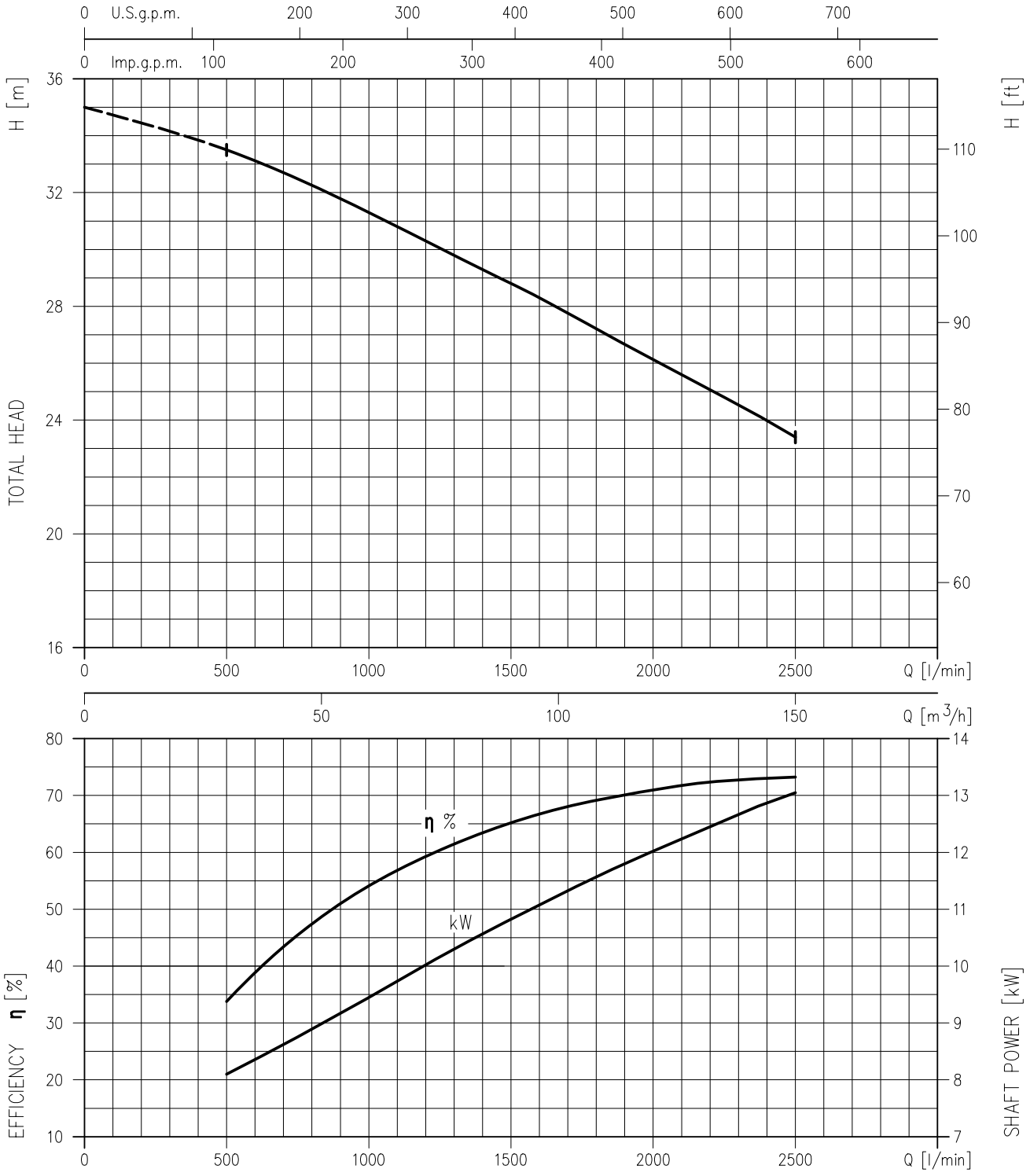
PERFORMANCE CURVE

50 Hz

REV.A

100DML515

Impeller diameter = 309 mm



Rotation speed ≈ 1450 min^{-1}

Test fluid : clean water at 20°C

Applicable standard of test : ISO 9906 annex A

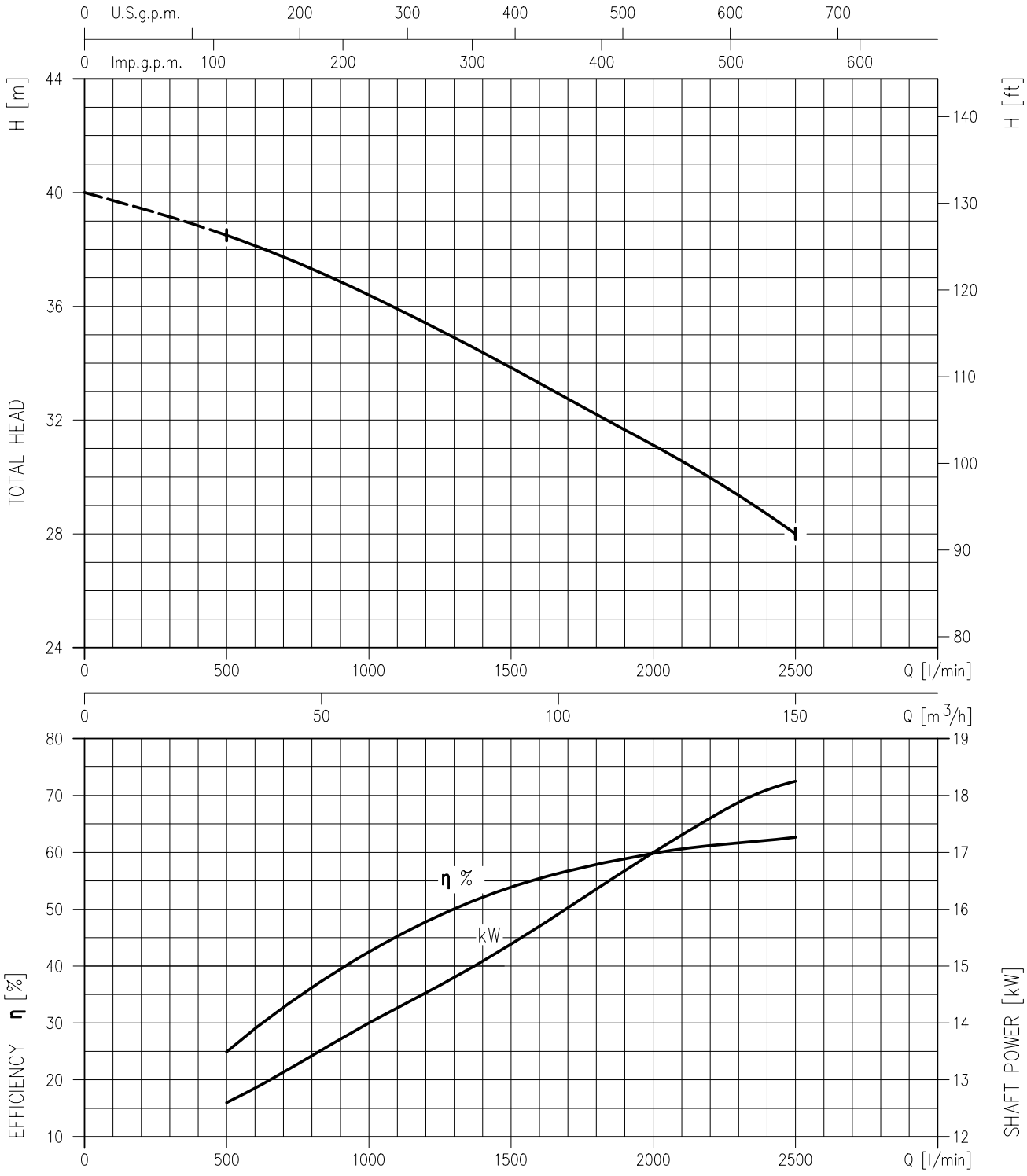
PERFORMANCE CURVE

50 Hz

REV.A

100DML522

Impeller diameter = 330 mm



Rotation speed ≈ 1450 min^{-1}

Test fluid : clean water at 20°C

Applicable standard of test : ISO 9906 annex A

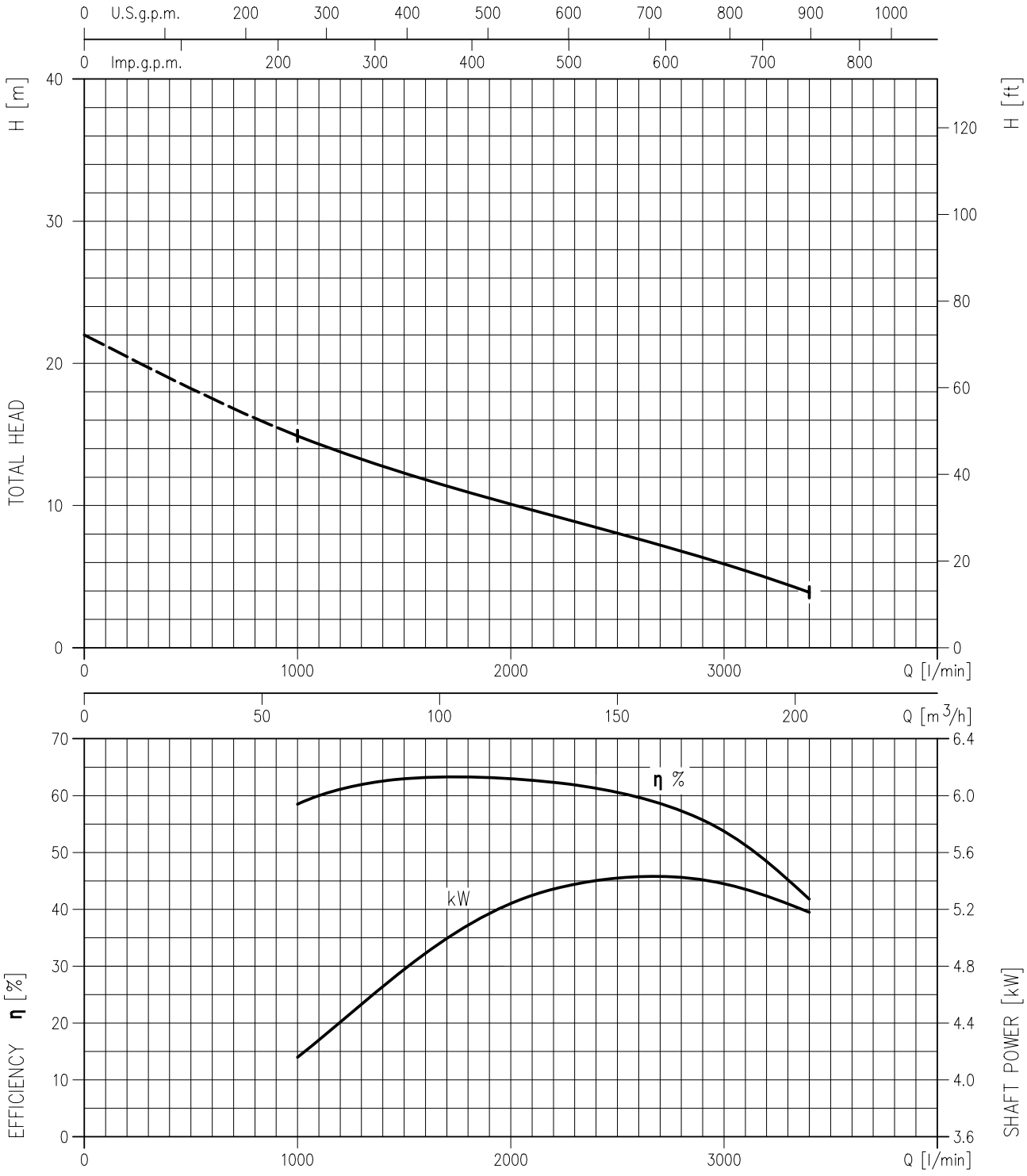
PERFORMANCE CURVE

50 Hz

REV.A

150DML55.5

Impeller diameter = 232 mm



Rotation speed ≈ 1450 min^{-1}

Test fluid : clean water at 20°C

Applicable standard of test : ISO 9906 annex A

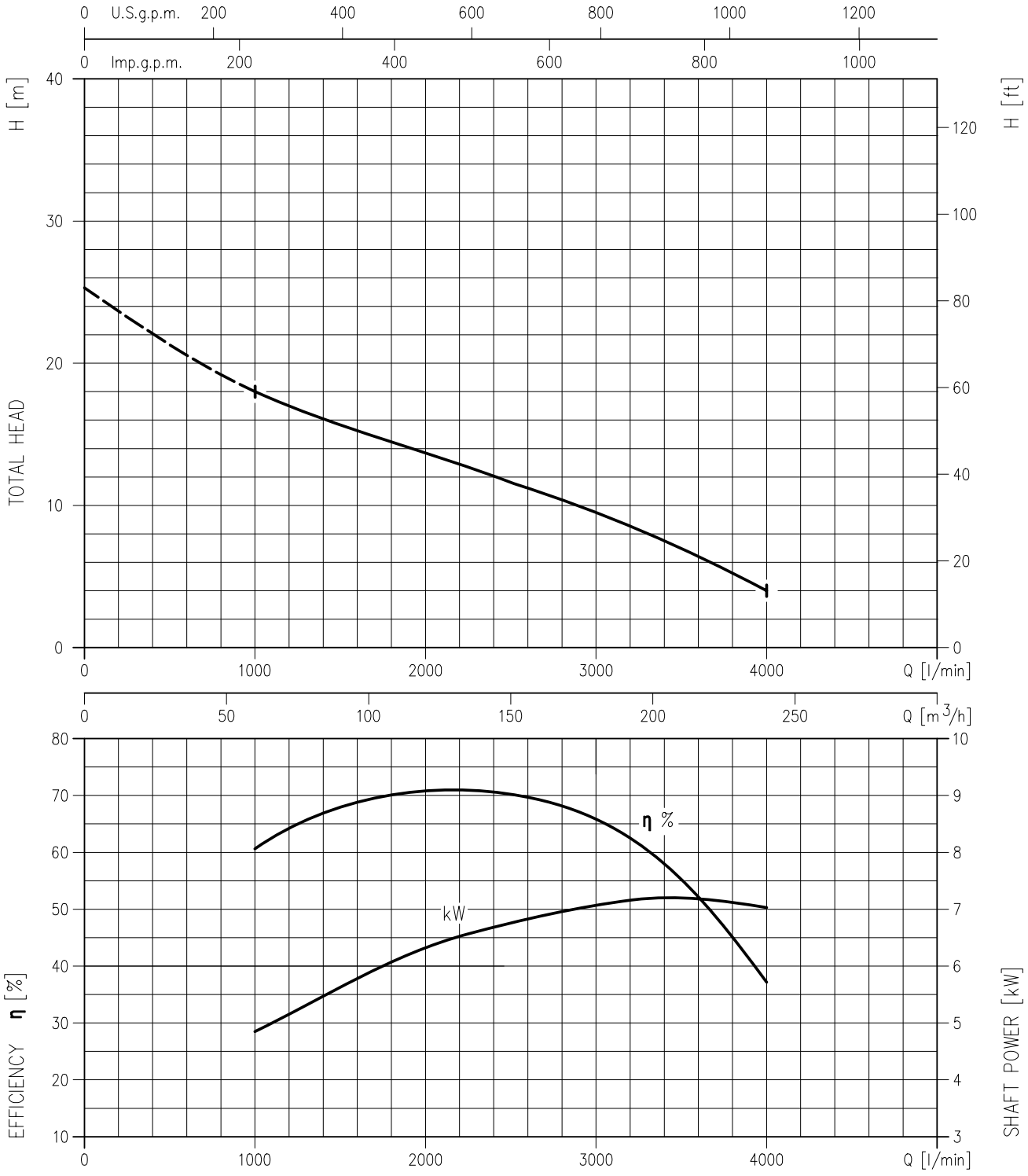
PERFORMANCE CURVE

50 Hz

REV.A

150DML57.5

Impeller diameter = 248 mm



Rotation speed ≈ 1450 min^{-1}

Test fluid : clean water at 20°C

Applicable standard of test : ISO 9906 annex A

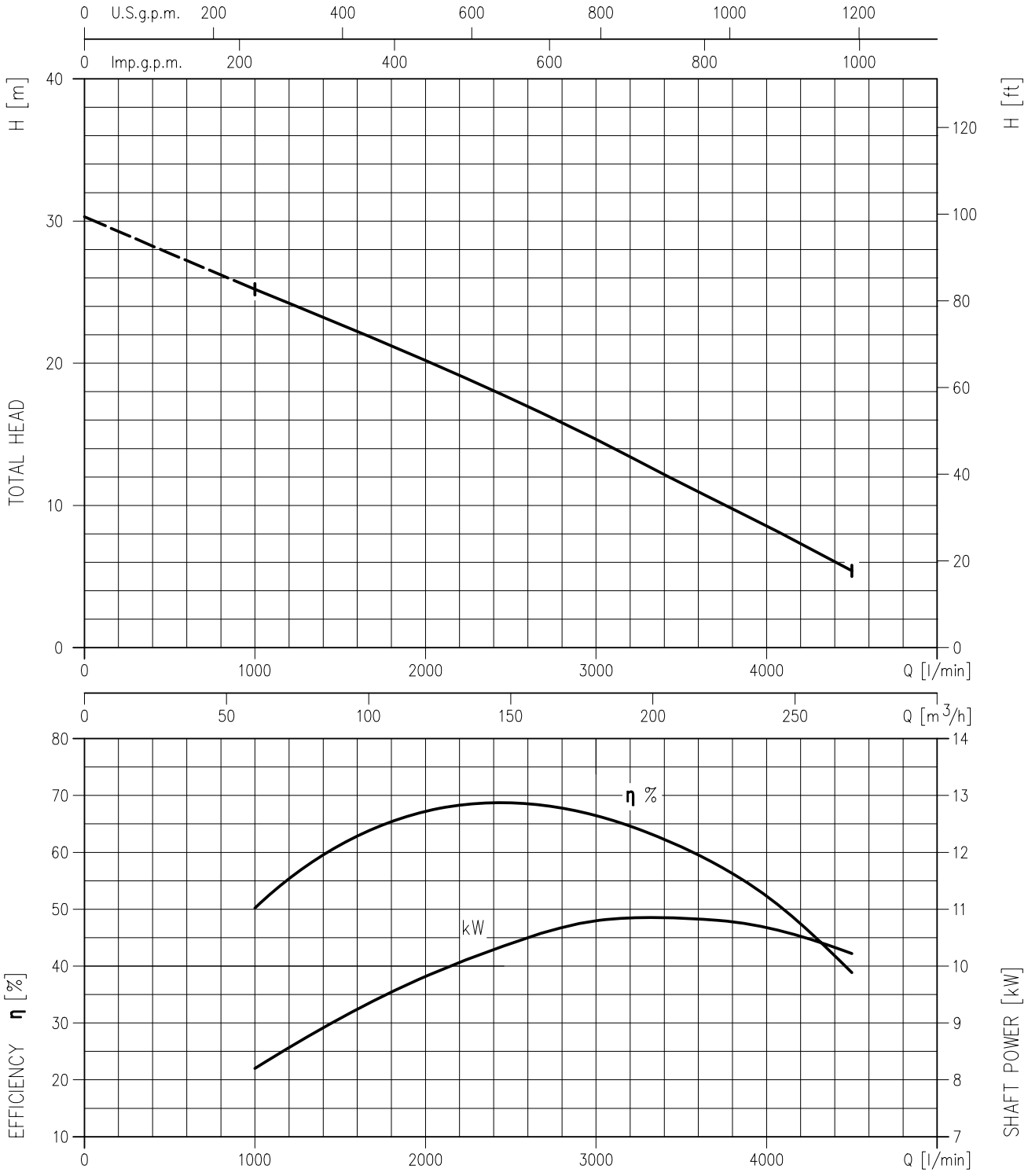
PERFORMANCE CURVE

50 Hz

REV.A

150DML511

Impeller diameter = 286 mm



Rotation speed ≈ 1450 min^{-1}

Test fluid : clean water at 20°C

Applicable standard of test : ISO 9906 annex A

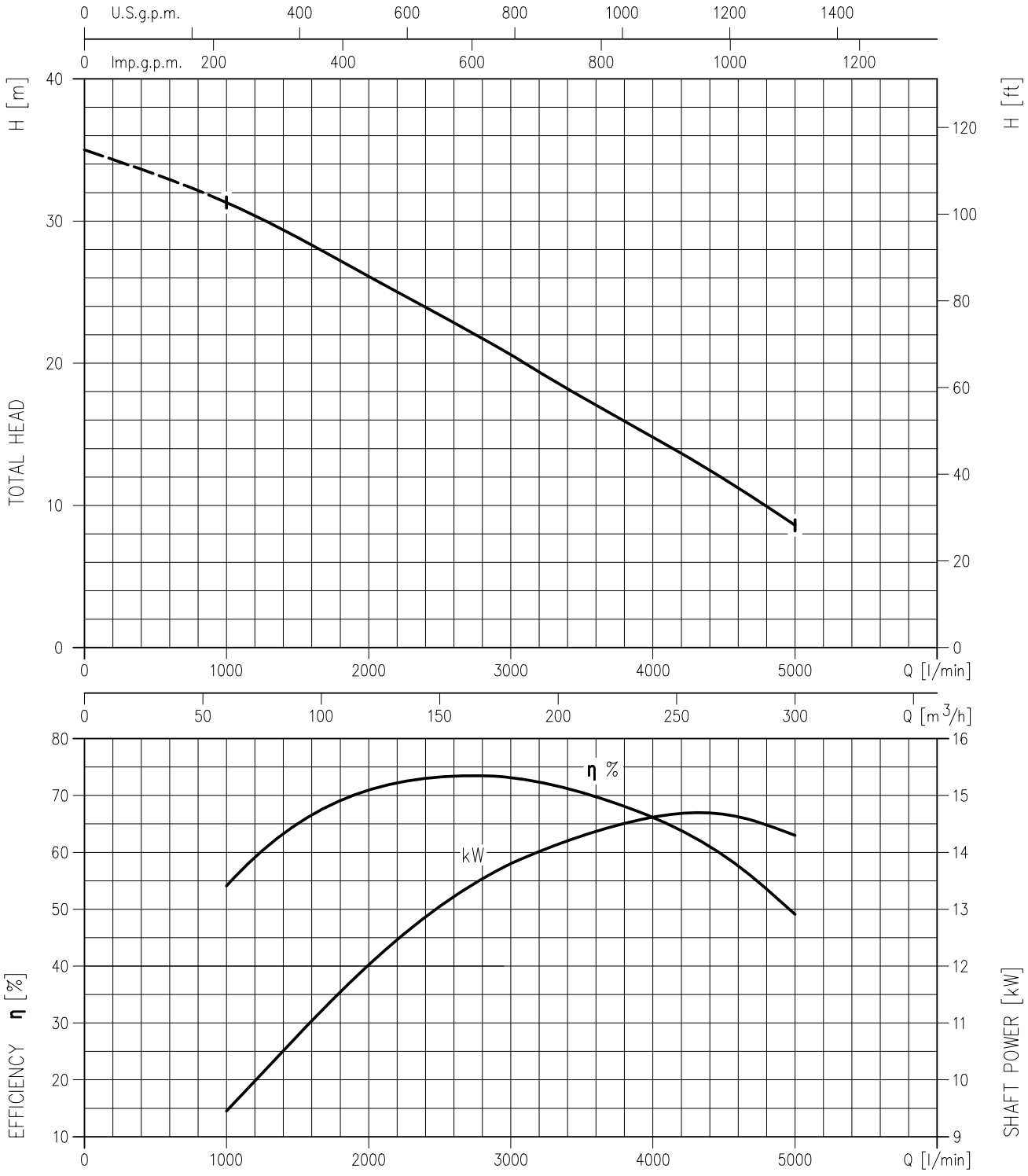
PERFORMANCE CURVE

50 Hz

REV.A

150DML515

Impeller diameter = 309 mm



Rotation speed ≈ 1450 min^{-1}

Test fluid : clean water at 20°C

Applicable standard of test : ISO 9906 annex A

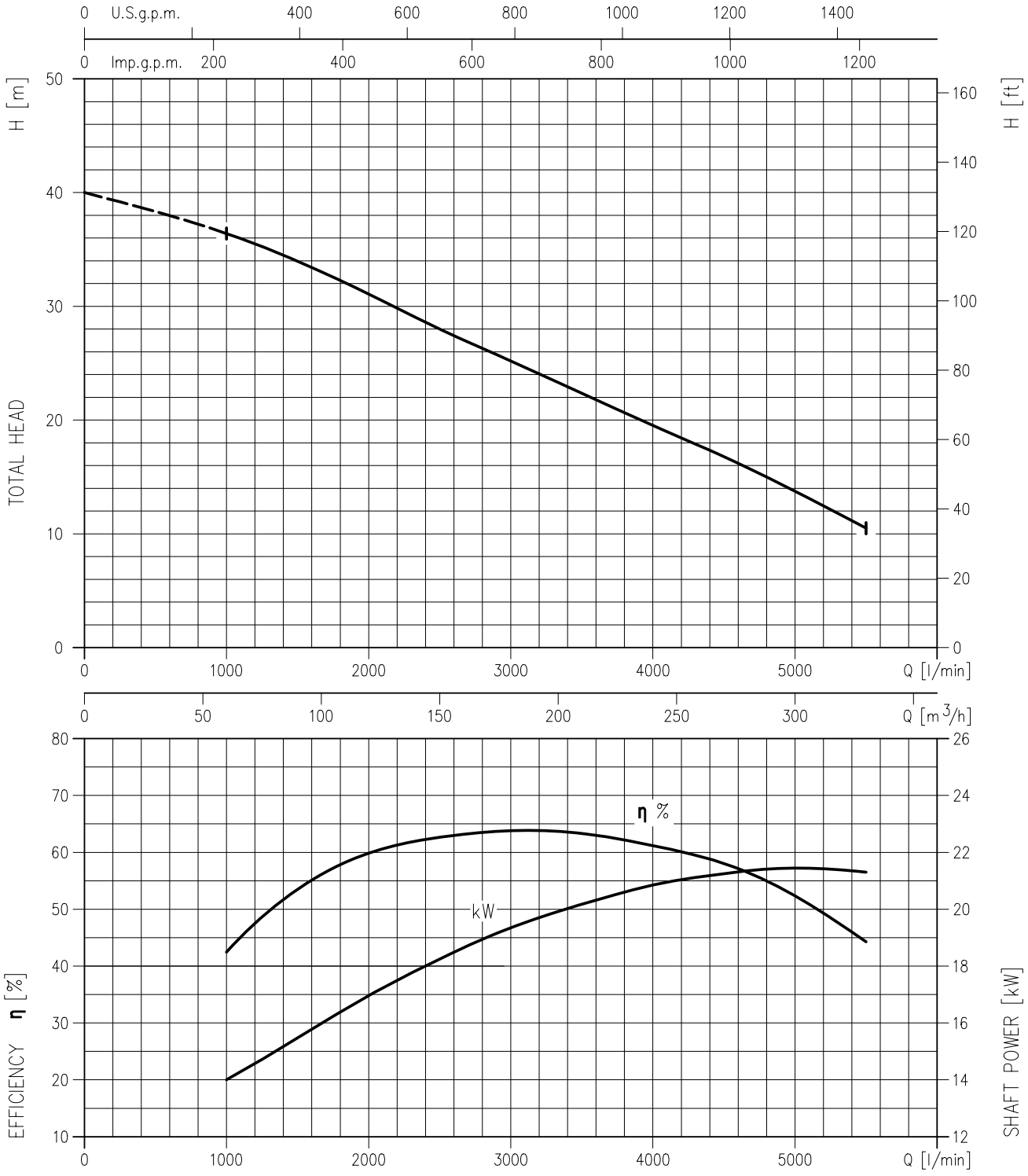
PERFORMANCE CURVE

50 Hz

REV.A

150DML522

Impeller diameter = 330 mm



Rotation speed ≈ 1450 min^{-1}

Test fluid : clean water at 20°C

Applicable standard of test : ISO 9906 annex A

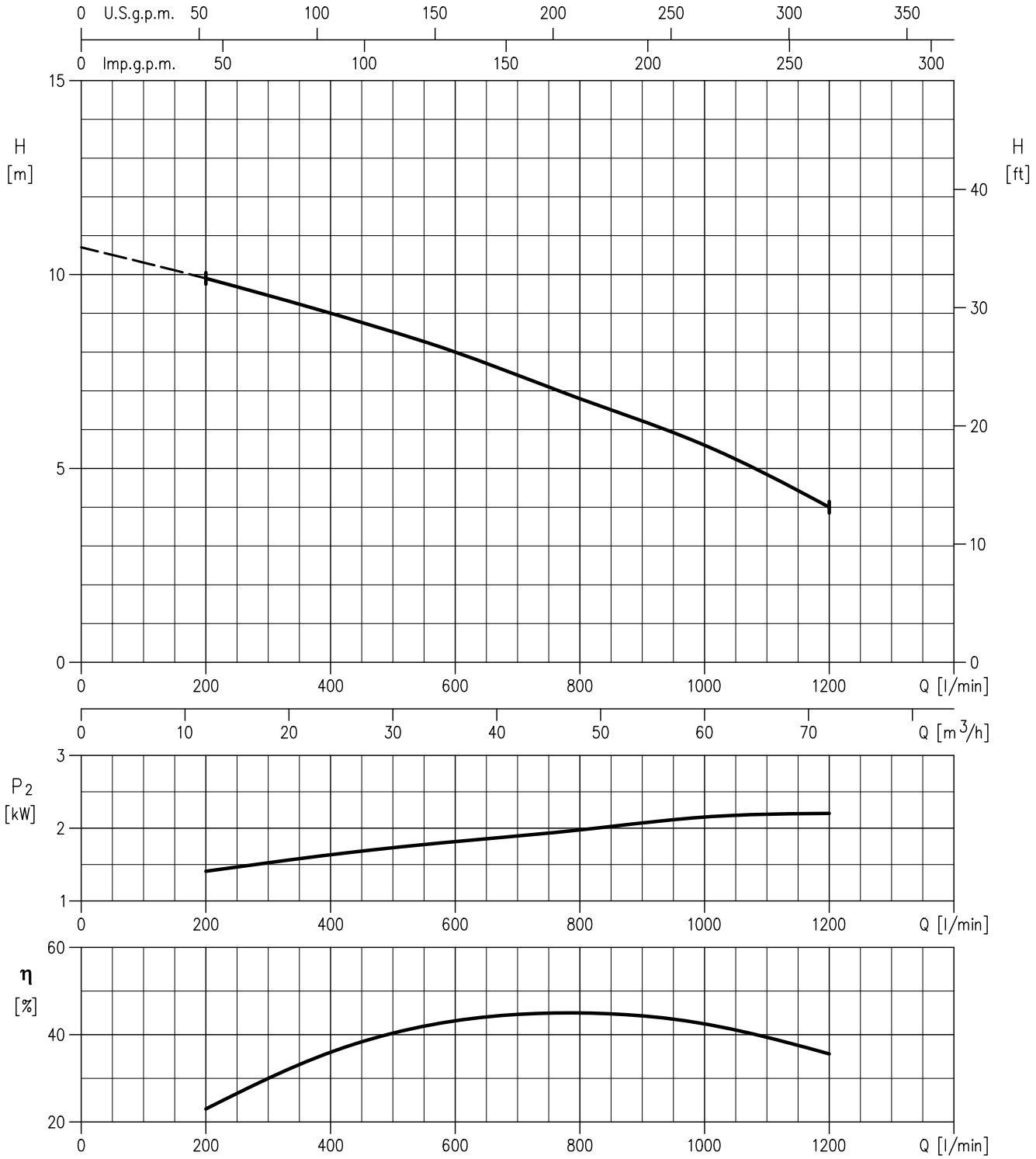
PERFORMANCE CURVE

50 Hz

REV.A

80DMLV52.2

Impeller diameter = 185 mm



Rotation speed ≈ 1450 min^{-1}

Test fluid : clean water at 20°C

Applicable standard of test : ISO 9906 annex A

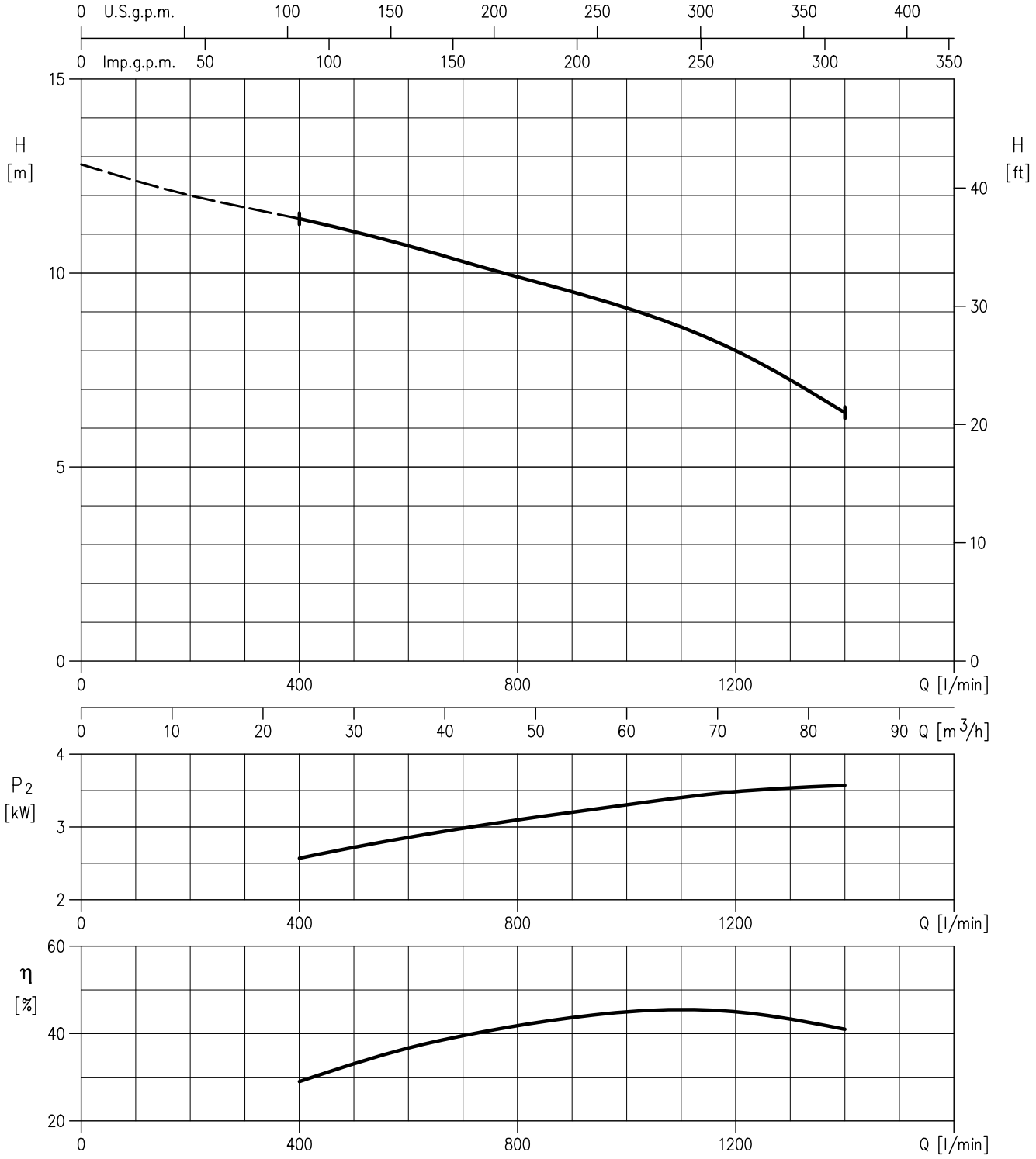
PERFORMANCE CURVE

50 Hz

REV.A

80DMLV53.7

Impeller diameter = 204 mm



Rotation speed ≈ 1450 min^{-1}

Test fluid : clean water at 20°C

Applicable standard of test : ISO 9906 annex A

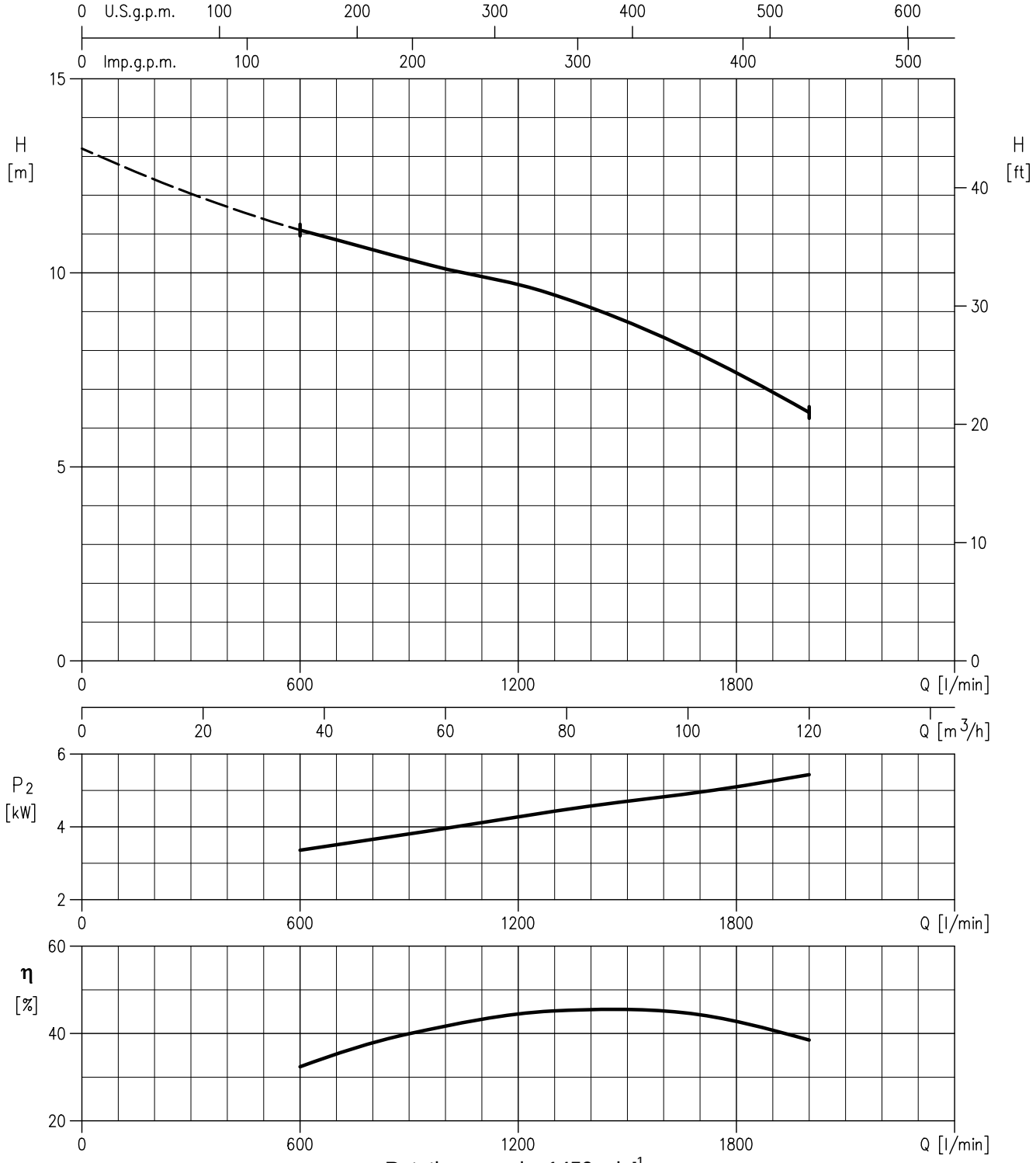
PERFORMANCE CURVE

50 Hz

REV.A

100DMLV55.5

Impeller diameter = 211 mm



Rotation speed ≈ 1450 min^{-1}

Test fluid : clean water at 20°C

Applicable standard of test : ISO 9906 annex A

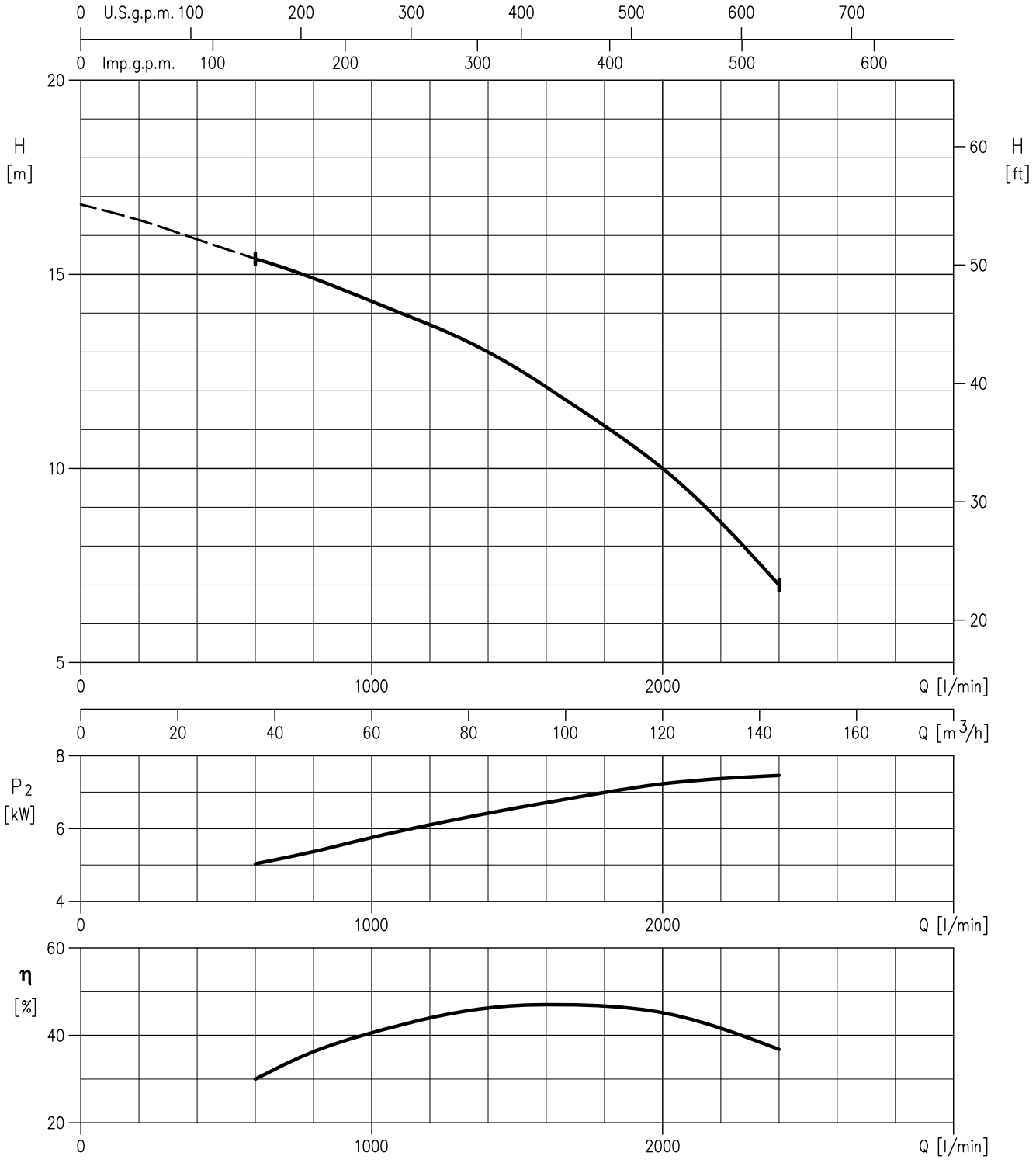
PERFORMANCE CURVE

50 Hz

REV.A

100DMLV57.5

Impeller diameter = 231 mm



Rotation speed ≈ 1450 min^{-1}

Test fluid : clean water at 20°C

Applicable standard of test : ISO 9906 annex A

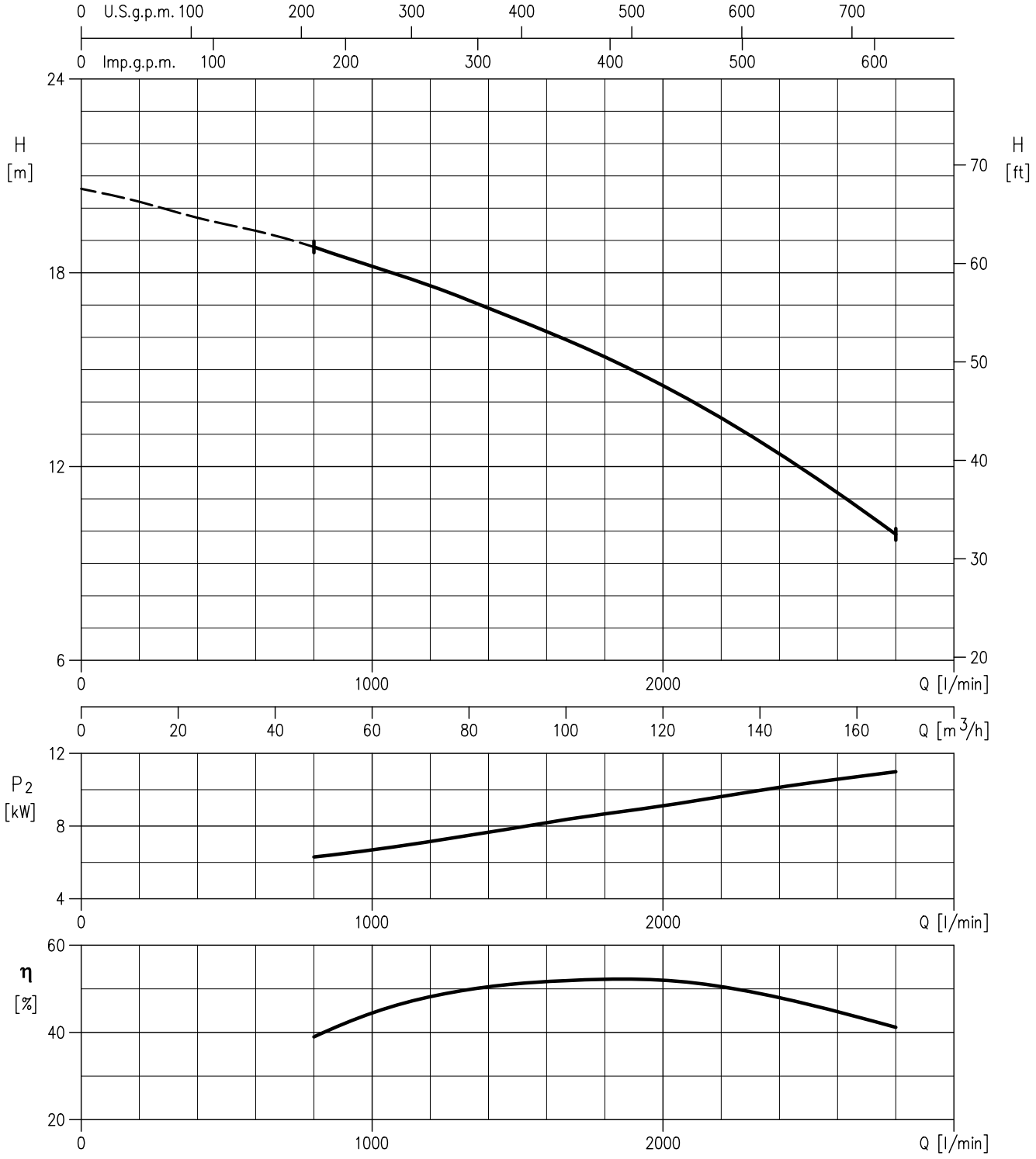
PERFORMANCE CURVE

50 Hz

REV.A

100DMLV511

Impeller diameter = 251 mm



Rotation speed ≈ 1450 min^{-1}

Test fluid : clean water at 20°C

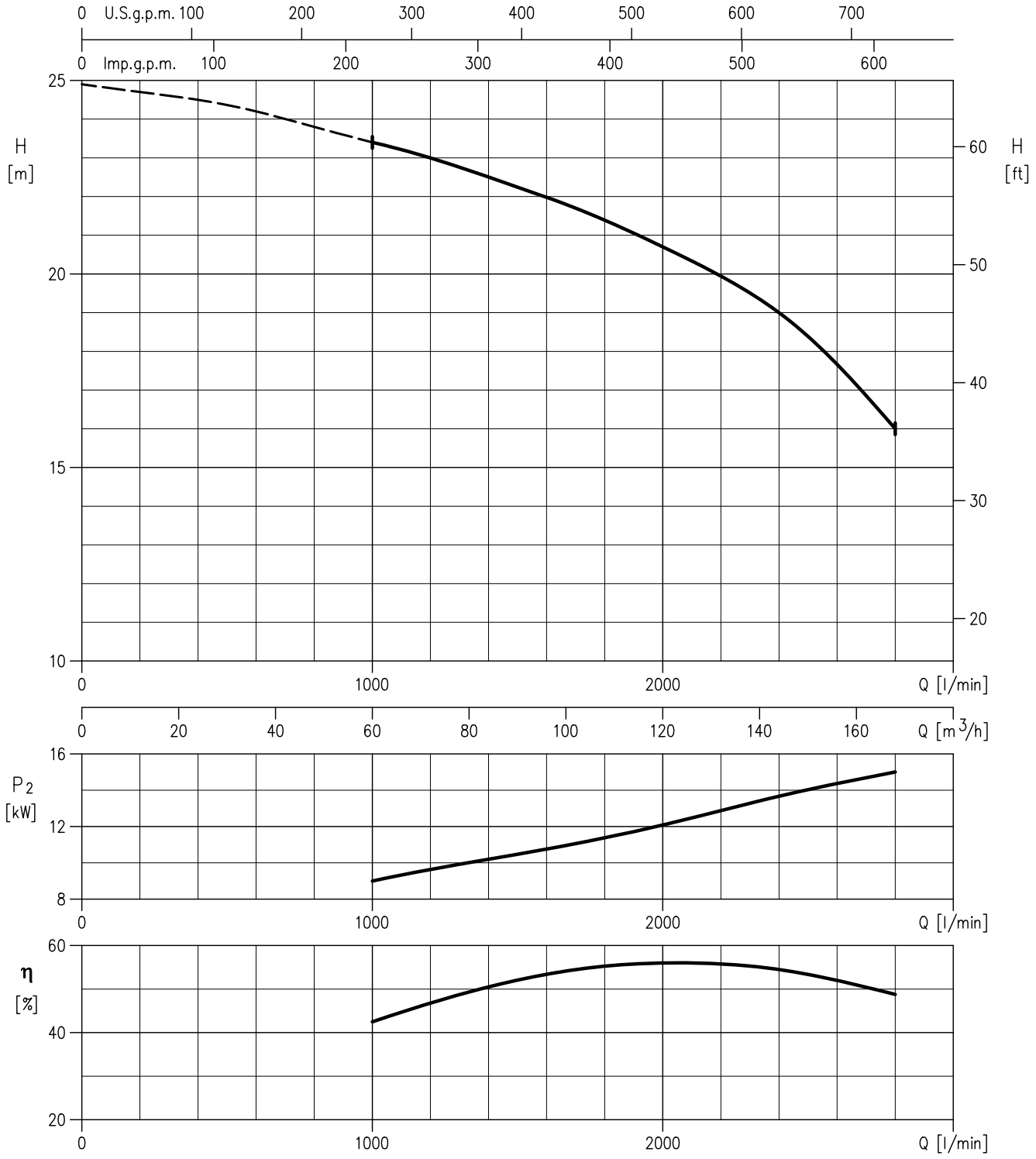
Applicable standard of test : ISO 9906 annex A

PERFORMANCE CURVE

50 Hz

100DMLV515

Impeller diameter = 268 mm



Rotation speed ≈ 1450 min^{-1}
Test fluid : clean water at 20°C
Applicable standard of test : ISO 9906 annex A

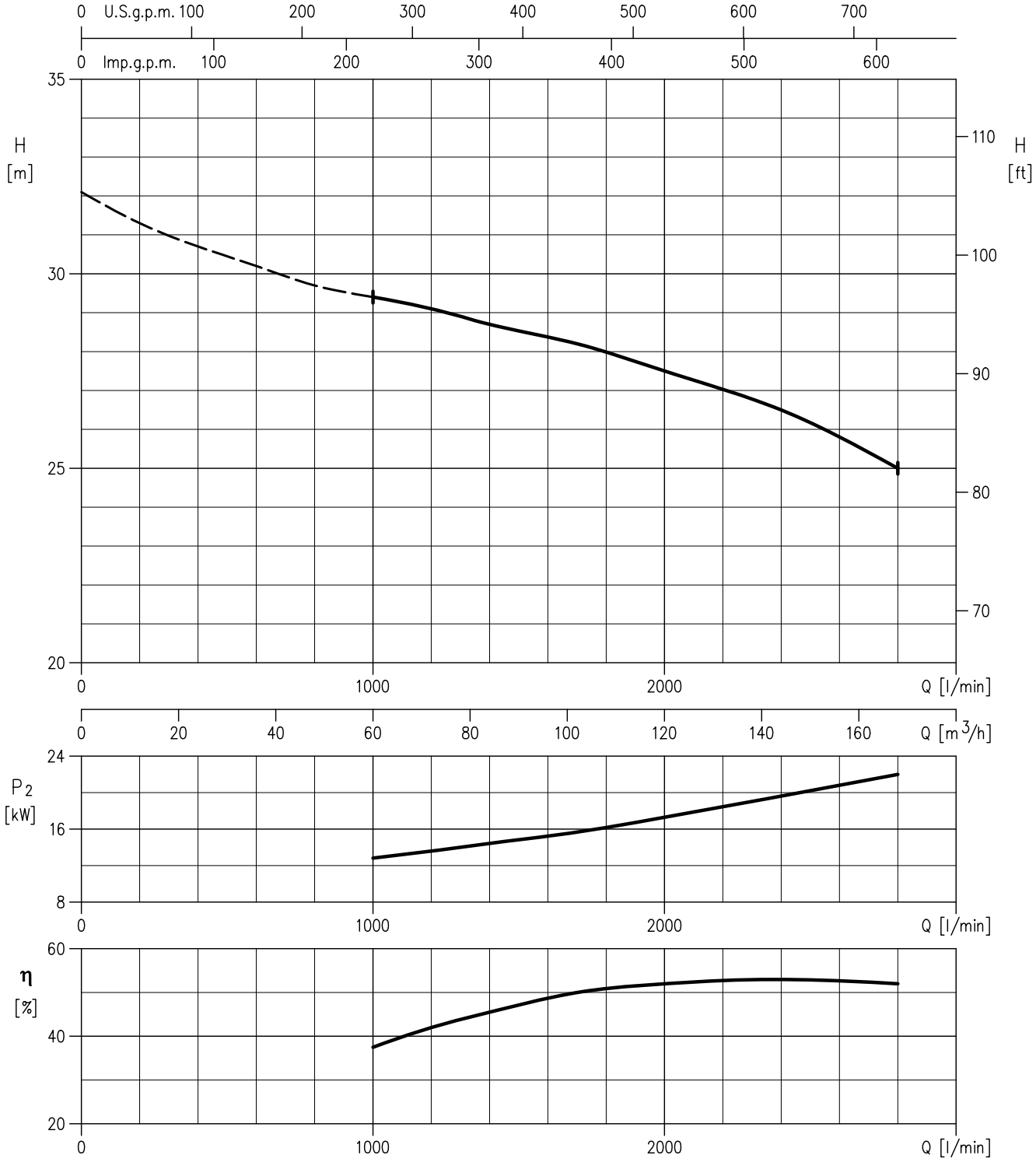
PERFORMANCE CURVE

50 Hz

REV.A

100DMLV522

Impeller diameter = 300 mm



Rotation speed ≈ 1450 min^{-1}

Test fluid : clean water at 20°C

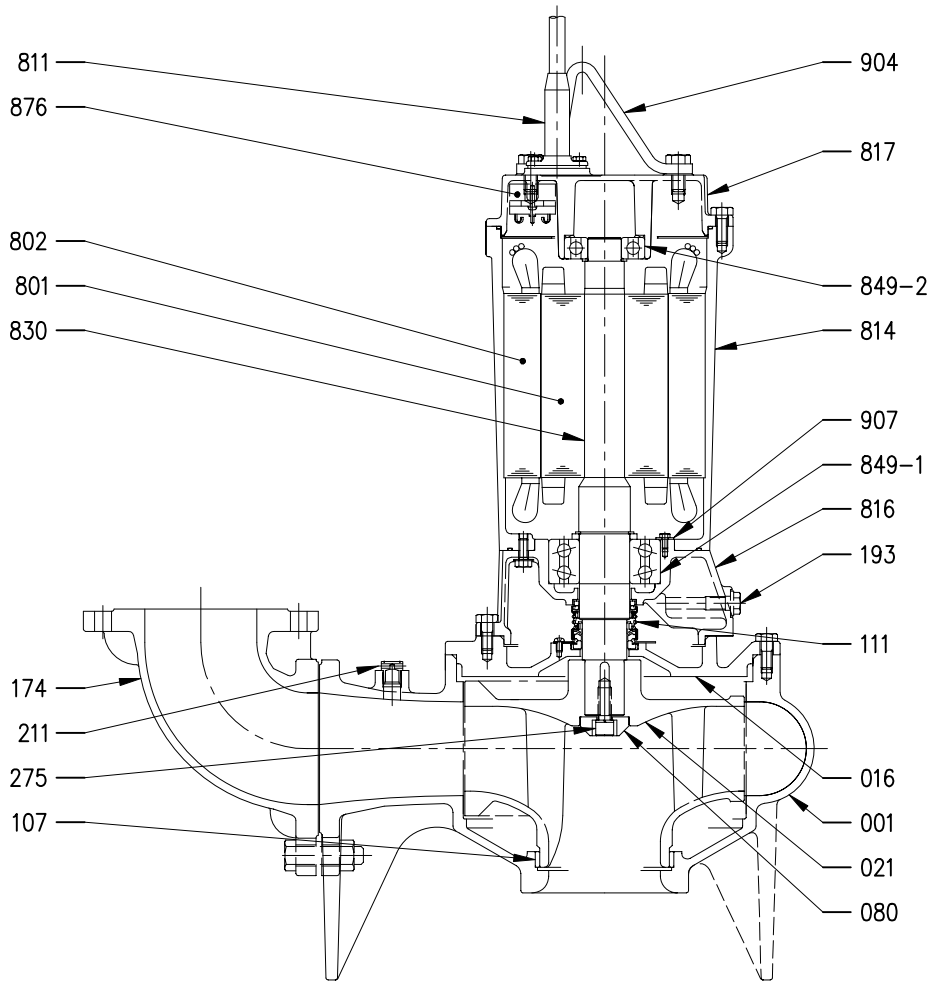
Applicable standard of test : ISO 9906 annex A

SECTIONAL VIEW : DML

50Hz

REV.A

80 DML 52.2



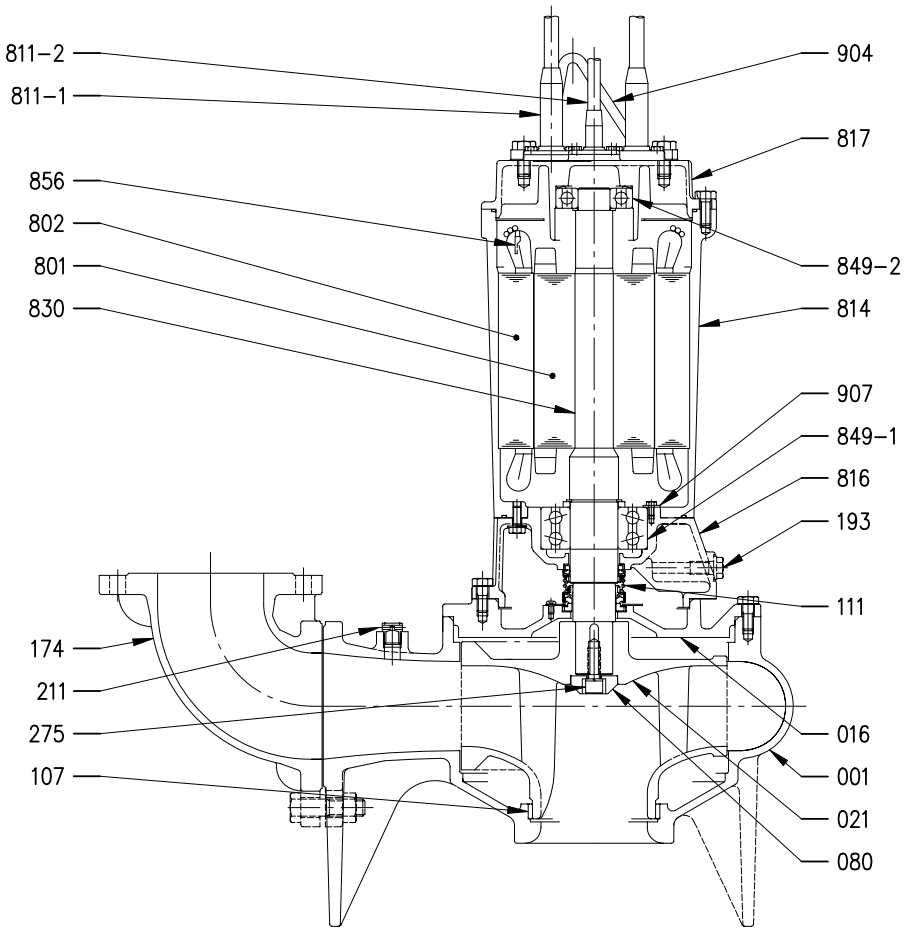
N°	PART.NAME	MATERIAL	No.FOR UNIT	N°	PART.NAME	MATERIAL	No.FOR UNIT
001	Pump Casing	Cast iron EN-GHJL-200 - EN 1561	1	802	Stator	-	1
016	Mechanical Seal Cover	Cast iron EN-GHJL-200 - EN 1561	1	811	Submersible Cable	-	2
021	Impeller	Cast iron EN-GHJL-200 - EN 1561	1	814	Motor Frame	Cast iron EN-GHJL-200 - EN 1561	1
080	Bushing	Steel	1	816	Power Side Bracket	Cast iron EN-GHJL-200 - EN 1561	1
107	Wearing ring	Bronze	1	817	Opposite Side Bracket	Cast iron EN-GHJL-200 - EN 1561	1
111	Mechanical seal	-	1	830	Shaft	EN 1.4006 (AISI403)	1
174	Discharge Bend	Cast iron EN-GHJL-200 - EN 1561	1	849-1	Ball Bearing	-	1
193	Oil Plug	NBR/Stainless Steel	1 set	849-2	Ball Bearing	-	1
211	Airvent Valve	Brass	1	876	Auto Cut	-	3
275	Impeller Bolt	Stainless steel A2-70 class ISO 3506/1	1	904	Lifting Hanger	Steel	1
801	Rotor	-	1	907	Bearing Cover	Steel	1

SECTIONAL VIEW : DML

50Hz

REV.A

80 (100) (150) DML (3.7÷7.5kW)



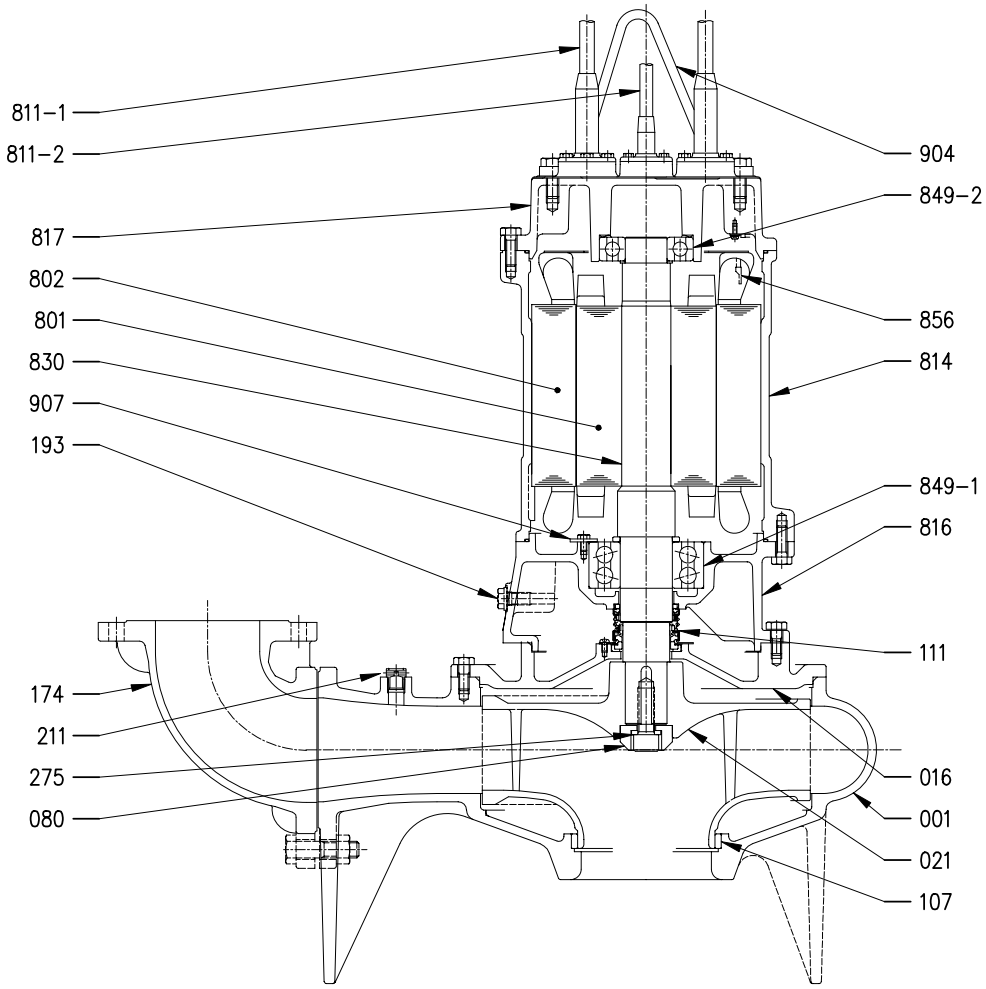
N°	PART.NAME	MATERIAL	No.FOR UNIT	N°	PART.NAME	MATERIAL	No.FOR UNIT
001	Pump Casing	Cast iron EN-GHJL-200 - EN 1561	1	811-1	Submersible Cable (power)	-	2
016	Mechanical Seal Cover	Cast iron EN-GHJL-200 - EN 1561	1	811-2	Submersible Cable (signal)	-	1
021	Impeller	Cast iron EN-GHJL-200 - EN 1561	1	814	Motor Frame	Cast iron EN-GHJL-200 - EN 1561	1
080	Bushing	Steel	1	816	Power Side Bracket	Cast iron EN-GHJL-200 - EN 1561	1
107	Wearing ring	Bronze	1	817	Opposite Side Bracket	Cast iron EN-GHJL-200 - EN 1561	1
111	Mechanical seal	-	1	830	Shaft	EN 1.4006 (AISI403)	1
174	Discharge Bend	Cast iron EN-GHJL-200 - EN 1561	1	849-1	Ball Bearing	-	1
193	Oil Plug	NBR/Stainless Steel	1 set	849-2	Ball Bearing	-	1
211	Airvent Valve	Brass	1	856	Thermal Protector	-	3
275	Impeller Bolt	Stainless steel A2-70 class ISO 3506/1	1	904	Lifting Hanger	Steel	1
801	Rotor	-	1	907	Bearing Cover	Steel	1
802	Stator	-	1				

SECTIONAL VIEW : DML

50Hz

REV.A

100 (150) DML (11÷22kW)



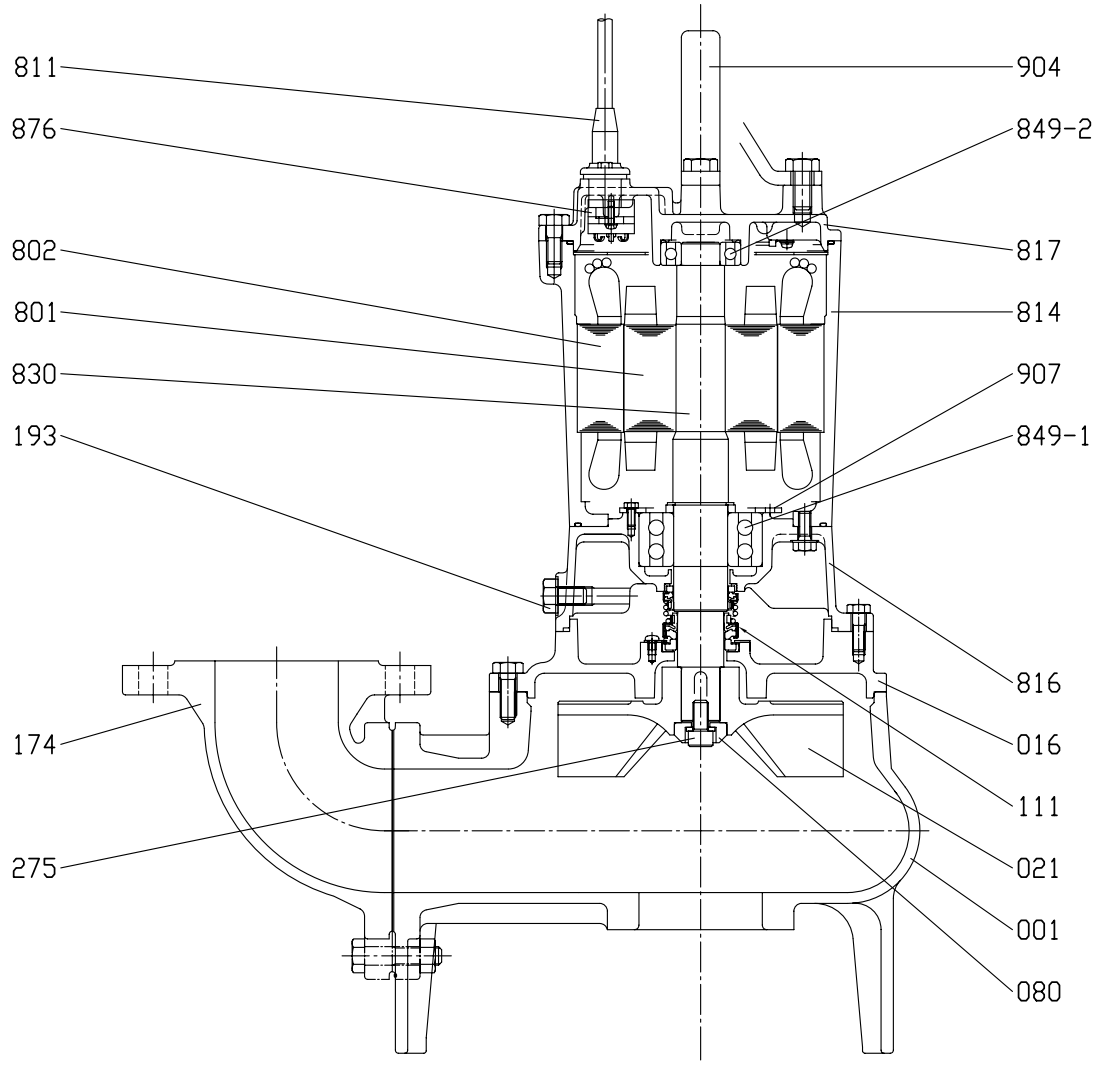
N°	PART.NAME	MATERIAL	No.FOR UNIT	N°	PART.NAME	MATERIAL	No.FOR UNIT
001	Pump Casing	Cast iron EN-GHJL-200 - EN 1561	1	811-1	Submersible Cable (power)	-	2
016	Mechanical Seal Cover	Cast iron EN-GHJL-200 - EN 1561	1	811-2	Submersible Cable (signal)	-	1
021	Impeller	Cast iron EN-GHJL-200 - EN 1561	1	814	Motor Frame	Cast iron EN-GHJL-200 - EN 1561	1
080	Bushing	Steel	1	816	Power Side Bracket	Cast iron EN-GHJL-200 - EN 1561	1
107	Wearing ring	Bronze	1	817	Opposite Side Bracket	Cast iron EN-GHJL-200 - EN 1561	1
111	Mechanical seal	-	1	830	Shaft	EN 1.4006 (AISI403)	1
174	Discharge Bend	Cast iron EN-GHJL-200 - EN 1561	1	849-1	Ball Bearing	-	1
193	Oil Plug	NBR/Stainless Steel	1 set	849-2	Ball Bearing	-	1
211	Airvent Valve	Brass	1	856	Thermal Protector	-	3
275	Impeller Bolt	Stainless steel A2-70 class ISO 3506/1	1	904	Lifting Hanger	Steel	1
801	Rotor	-	1	907	Bearing Cover	Steel	1
802	Stator	-	1				

SECTIONAL VIEW : DMLV

50Hz

REV.A

80 DMLV 52.2



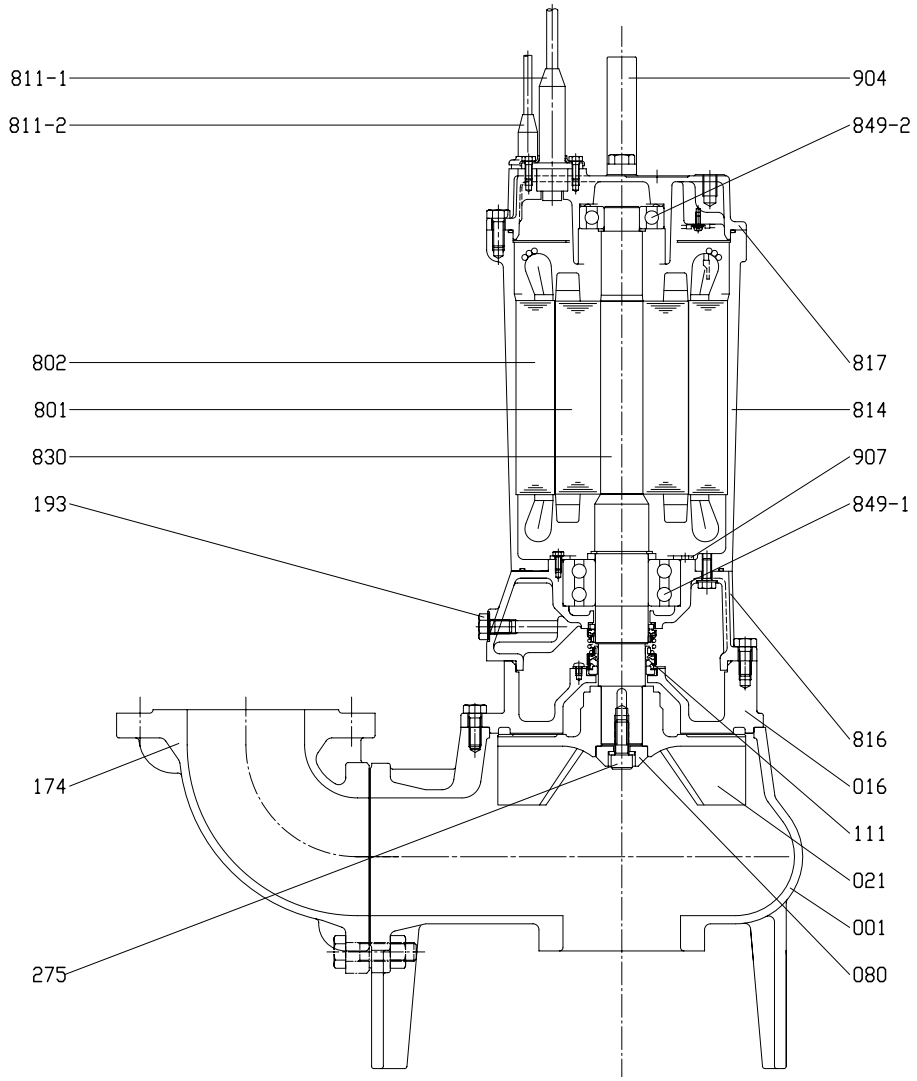
N°	PART.NAME	MATERIAL	No.FOR UNIT	N°	PART.NAME	MATERIAL	No.FOR UNIT
001	Pump Casing	Cast iron EN-GHJL-200 - EN 1561	1	811	Submersible Cable	-	2
016	Mechanical Seal Cover	Cast iron EN-GHJL-200 - EN 1561	1	814	Motor Frame	Cast iron EN-GHJL-200 - EN 1561	1
021	Impeller	Cast iron EN-GHJL-200 - EN 1561	1	816	Power Side Bracket	Cast iron EN-GHJL-200 - EN 1561	1
080	Bushing	Steel	1	817	Opposite Side Bracket	Cast iron EN-GHJL-200 - EN 1561	1
111	Mechanical seal	-	1	830	Shaft	EN 1.4006 (AISI403)	1
174	Discharge Bend	Cast iron EN-GHJL-200 - EN 1561	1	849-1	Ball Bearing	-	1
193	Oil Plug	NBR/Stainless Steel	1 set	849-2	Ball Bearing	-	1
275	Impeller screw	Stainless steel A2-70 class ISO 3506/1	1	876	Auto Cut	-	1
801	Rotor	-	1	904	Lifting Hanger	Steel	1
802	Stator	-	1	907	Bearing Cover	Steel	1

SECTIONAL VIEW : DMLV

50Hz

REV.A

DMLV (3.7÷7.5kW)



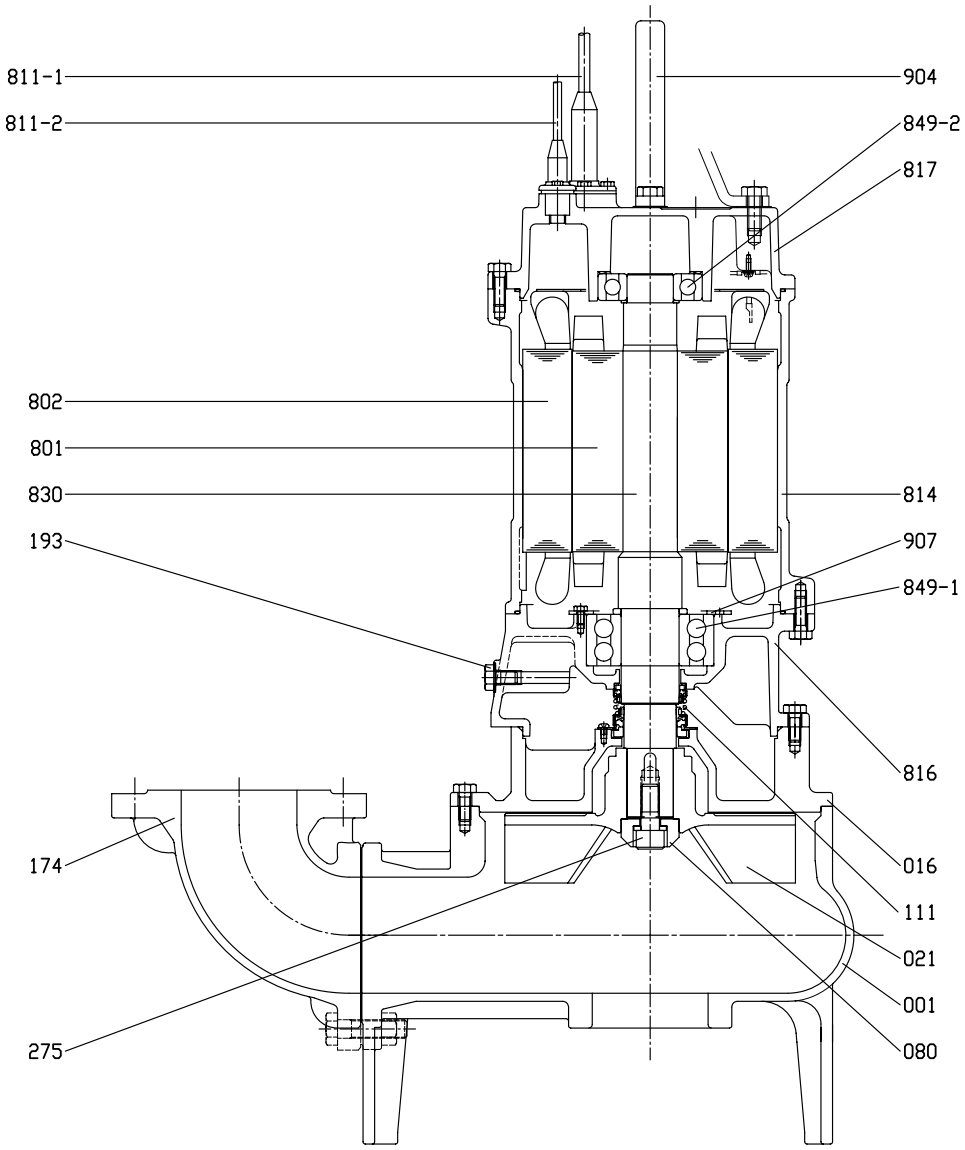
N°	PART.NAME	MATERIAL	No.FOR UNIT	N°	PART.NAME	MATERIAL	No.FOR UNIT
001	Pump Casing	Cast iron EN-GHJL-200 - EN 1561	1	811-1	Submersible Cable (power)	-	2
016	Mechanical Seal Cover	Cast iron EN-GHJL-200 - EN 1561	1	811-2	Submersible Cable (signal)	-	1
021	Impeller	Cast iron EN-GHJL-200 - EN 1561	1	814	Motor Frame	Cast iron EN-GHJL-200 - EN 1561	1
080	Bushing	Steel	1	816	Power Side Bracket	Cast iron EN-GHJL-200 - EN 1561	1
111	Mechanical seal	-	1	817	Opposite Side Bracket	Cast iron EN-GHJL-200 - EN 1561	1
174	Discharge Bend	Cast iron EN-GHJL-200 - EN 1561	1	830	Shaft	EN 1.4006 (AISI403)	1
193	Oil Plug	NBR/Stainless Steel	1 set	849-1	Ball Bearing	-	1
275	Impeller screw	Stainless steel A2-70 class ISO 3506/1	1	849-2	Ball Bearing	-	1
801	Rotor	-	1	904	Lifting Hanger	Steel	1
802	Stator	-	1	907	Bearing Cover	Steel	1

SECTIONAL VIEW : DMLV

50Hz

REV.A

DMLV (11÷22kW)



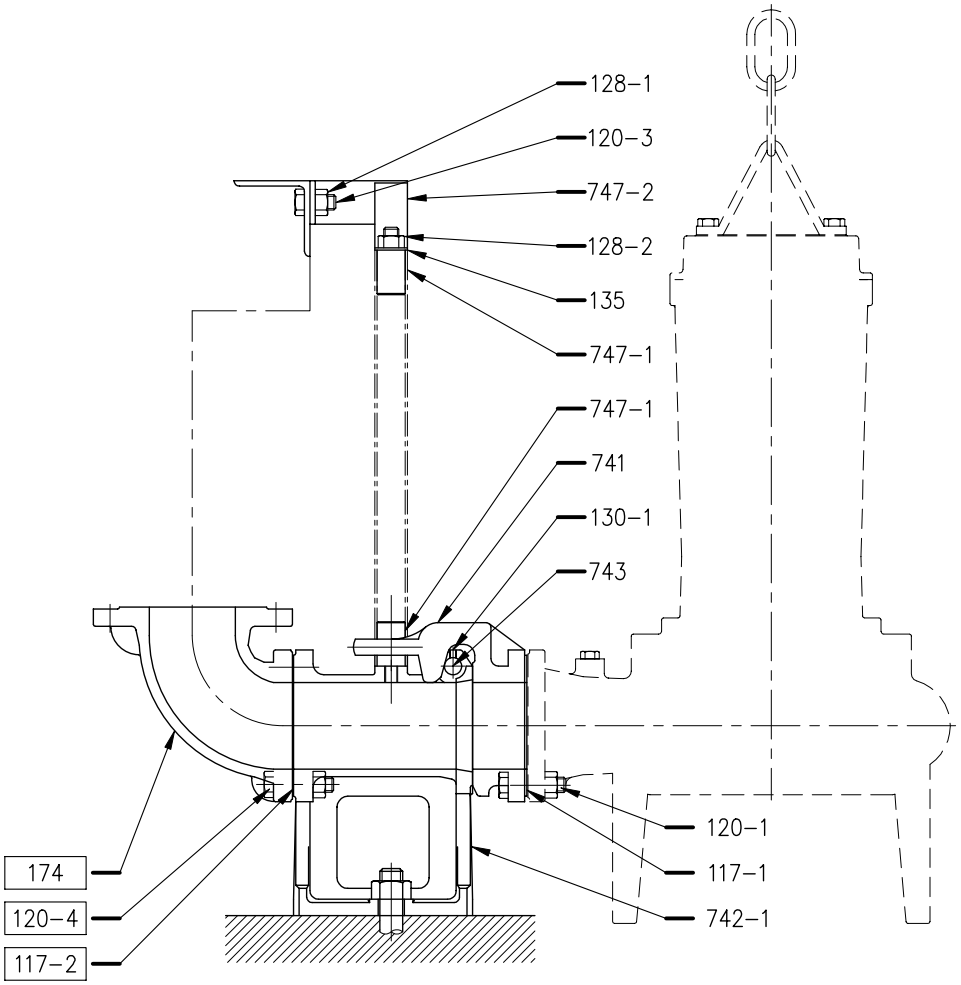
N°	PART.NAME	MATERIAL	No.FOR UNIT	N°	PART.NAME	MATERIAL	No.FOR UNIT
001	Pump Casing	Cast iron EN-GHJL-200 - EN 1561	1	811-1	Submersible Cable (power)	-	2
016	Mechanical Seal Cover	Cast iron EN-GHJL-200 - EN 1561	1	811-2	Submersible Cable (signal)	-	1
021	Impeller	EN-GHJL-200-EN 1561 (11 kW) EN-GJS-400 -EN 1563 (15-22 kW)	1	814	Motor Frame	Cast iron EN-GHJL-200 - EN 1561	1
080	Bushing	Steel	1	816	Power Side Bracket	Cast iron EN-GHJL-200 - EN 1561	1
111	Mechanical seal	-	1	817	Opposite Side Bracket	Cast iron EN-GHJL-200 - EN 1561	1
174	Discharge Bend	Cast iron EN-GHJL-200 - EN 1561	1	830	Shaft	EN 1.4006 (AISI403)	1
193	Oil Plug	NBR/Stainless Steel	1 set	849-1	Ball Bearing	-	1
275	Impeller screw	Stainless steel A2-70 class ISO 3506/1	1	849-2	Ball Bearing	-	1
801	Rotor	-	1	904	Lifting Hanger	Steel	1
802	Stator	-	1	907	Bearing Cover	Steel	1

SECTIONAL VIEW : KIT CONNECTOR

50 Hz

REV.A

LM80 (Optional)



N°	PART.NAME	MATERIAL	No.FOR UNIT	N°	PART.NAME	MATERIAL	No.FOR UNIT
117-1	Gasket	NBR Rubber	1	135	Washer	AISI 304 Stainless Steel	2
117-2	Gasket	Aramide fibers	1	174	Discharge Bend	Cast iron EN-GHJL-200 - EN 1561	1
120-1	Bolt	AISI 304 Stainless Steel	4	741	Sliding Guide	Spheroidal graphite cast iron EN-GJS-400 - EN 1563	1
120-3	Bolt	AISI 304 Stainless Steel	2	742-1	QCD Body	Cast iron EN-GHJL-200 - EN 1561	1
120-4	Bolt & Nut	AISI 304 Stainless Steel	4	743	Suspension Bar	AISI 304 Stainless Steel	1
128-1	Nut	AISI 304 Stainless Steel	2	747-1	Guide Pin	Steel	4
128-2	Nut	AISI 304 Stainless Steel	2	747-2	Guide Support	Steel	1
130-1	Set Screw	AISI 304 Stainless Steel	1				

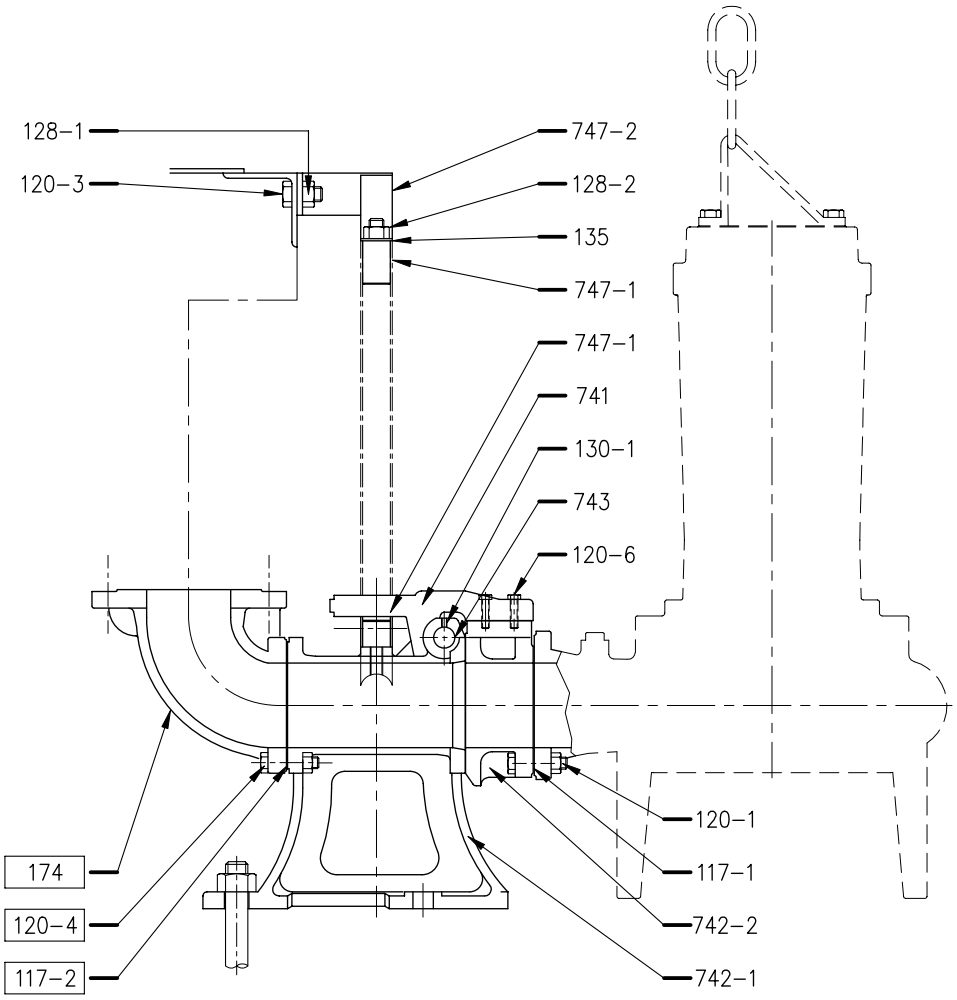
Note: Those parts with item number indicated in a are supplied with the pump.

SECTIONAL VIEW : KIT CONNECTOR

50 Hz

REV.A

LL100 (Optional)

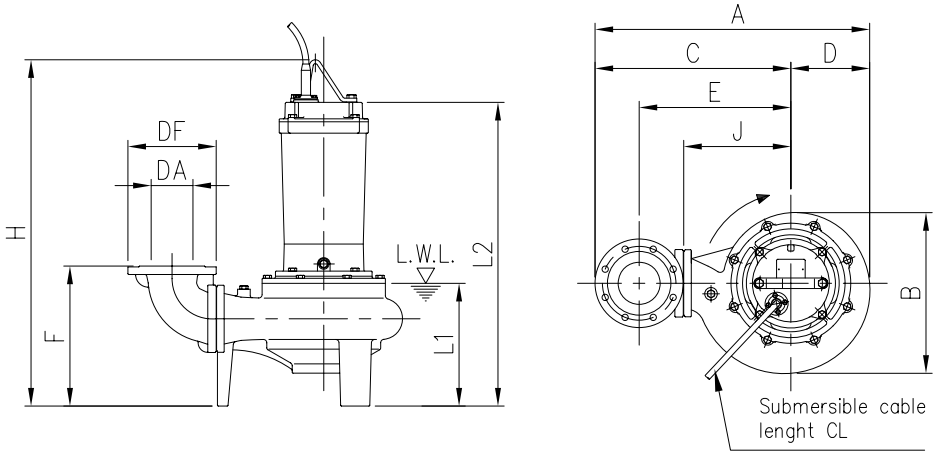


N°	PART.NAME	MATERIAL	No.FOR UNIT	N°	PART.NAME	MATERIAL	No.FOR UNIT
117-1	Gasket	NBR Rubber	1	135	Washer	AISI 304 Stainless Steel	2
117-2	Gasket	Aramide fibers	1	174	Discharge Bend	Cast iron EN-GHJL-200 - EN 1561	1
120-1	Bolt	AISI 304 Stainless Steel	4	741	Sliding Guide	Spheroidal graphite cast iron EN-GJS-400 - EN 1563	1
120-3	Bolt	AISI 304 Stainless Steel	2	742-1	QCD Body	Cast iron EN-GHJL-200 - EN 1561	1
120-4	Bolt & Nut	AISI 304 Stainless Steel	4	742-2	QDC Flange	Cast iron EN-GHJL-200 - EN 1561	1
120-6	Bolt	AISI 304 Stainless Steel	4	743	Suspension Bar	AISI 304 Stainless Steel	1
128-1	Nut	AISI 304 Stainless Steel	2	747-1	Guide Pin	Steel	4
128-2	Nut	AISI 304 Stainless Steel	2	747-2	Guide Support	Steel	1
130-1	Set Screw	AISI 304 Stainless Steel	1				

Note: Those parts with item number indicated in a are supplied with the pump.

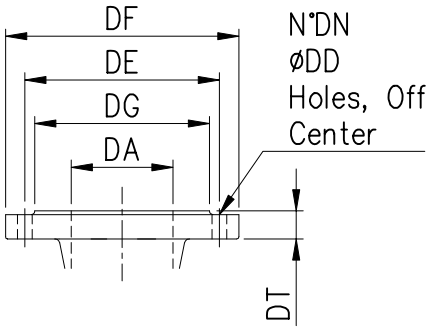
DIMENSIONS OF PUMPS : DML

50 Hz



Note:

1) L.W.L (Low water Level) is limited: to 10 minutes operation at low water level.
2) It is limited to 30 minutes operation with water level below top of motor.



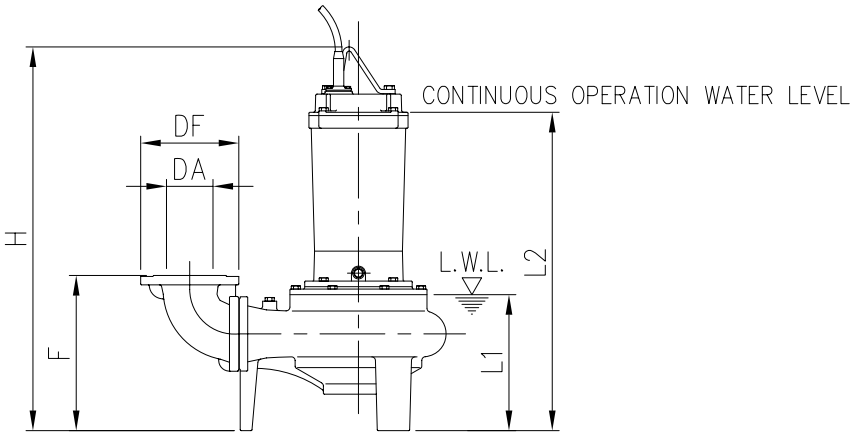
Discharge Flange Dimensions PN 10
According to EN 1092 - 2

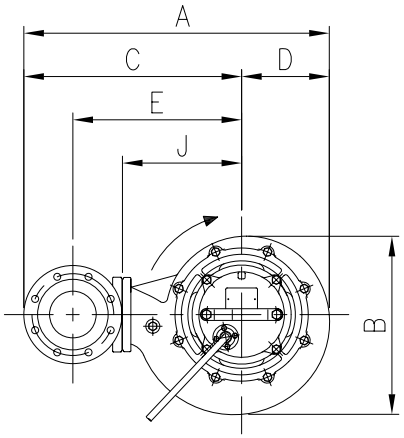
DA	DG	DE	DF	DT	No.DN	DD
80	138	160	200	22	8	18
100	158	180	220	24		
150	212	240	285	26		22

PUMP TYPE DML	DIMENSIONS												
	DA	kW	A	B	C	D	E	F	H	J	L1	L2	WEIGHT [kg]
80 DML52.2	80	2.2	542	320	385	157	285	308	668	210	279	547	80
80DML53.7		3.7							727			627	87
100DML53.7	100	3.7	582		425		315	313					89
100DML55.5		5.5	658	381	470	188	360	339	824	255	310	724	121
100DML57.5		7.5											125
100DML511		11	751	455	530	221	420	355	938	315	329	778	160
100DML515		15											166
100DML522		22	795	497	550	245	440	358	1021	335	342	841	226
150DML55.5	150	5.5	715.5	381	527.5	188	385	369	824	255	310	724	127
150DML57.5		7.5											132
150DML511		11	808.5	455	587.5	221	445	385	938	315	329	778	166
150DML515		15											172
150DML522		22	852.5	497	607.5	245	465	388	1021	335	342	841	232

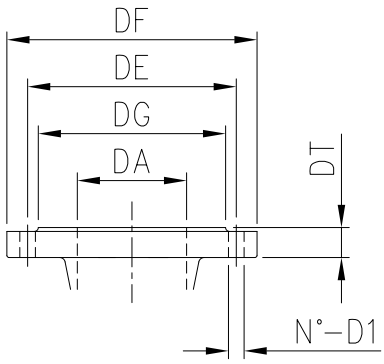
DIMENSIONS OF PUMPS : DMLV

50 Hz





1) L.W.L (Low water Level) is limited: to 10 minutes operation at low water level.
2) It is limited to 30 minutes operation with water level below top of motor.

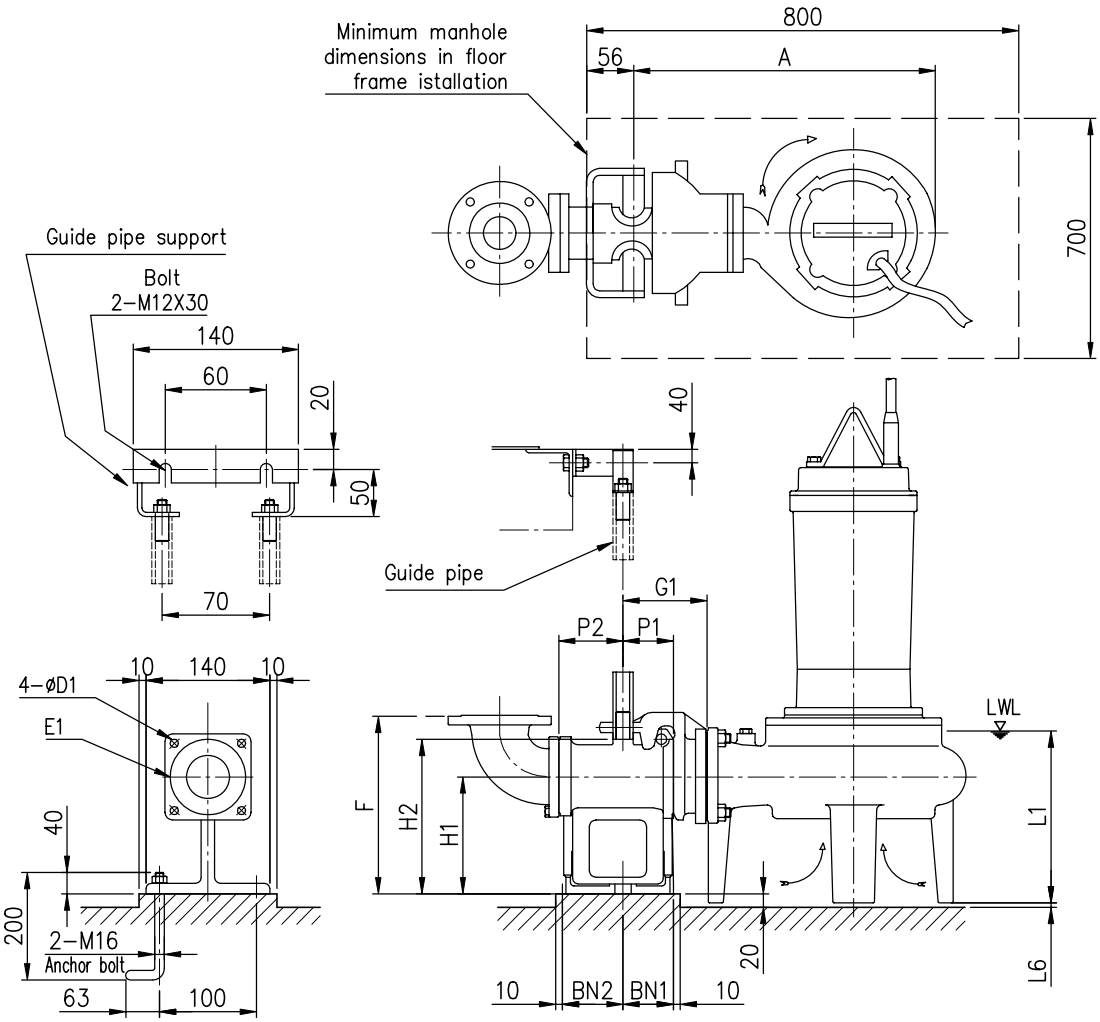


Discharge flange dimensions PN 10
According to EN 1092-2

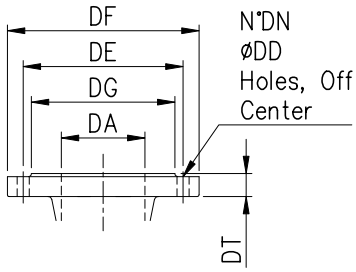
PUMP TYPE DMLV	DIMENSIONS																		
	DA	kW	DE	DF	DG	DT	N°	D1	A	B	C	D	E	F	H	J	L1	L2	Weight [kg]
80DMLV52.2	80	2,2	160	200	138	22	8	18	518	285	375	143	275	254	660	200	200	560	70
80DMLV53.7		3,7	160	200	138	22	8	18	518	285	375	143	275	254	721	200	200	620	80
100DMLV55.5	100	5,5	180	220	158	24	8	22	584	308	430	154	320	305	860	215	250	760	105
100DMLV57.5		7,5	180	220	158	24	8	22	641	352	465	176	355	305	860	250	250	760	120
100DMLV511		11	180	220	158	24	8	22	641	352	465	176	355	305	970	250	250	810	150
100DMLV515		15	180	220	158	24	8	22	728	426	515	213	405	305	970	300	250	810	180
100DMLV522		22	180	220	158	24	8	22	728	426	515	213	405	305	1045	300	250	865	235

DIMENSIONS KIT CONNECTOR LM80 50 Hz

Applicable Models – 80 (100) DML 52.2, 53.7



Note:
1) For detailed dimensions of the pumps, refer to separate dimension data sheets.
2) The discharge bend supplied with the pump are used with the QDC.
3) The weight in dimension tables refers only to the weight of the QDC.



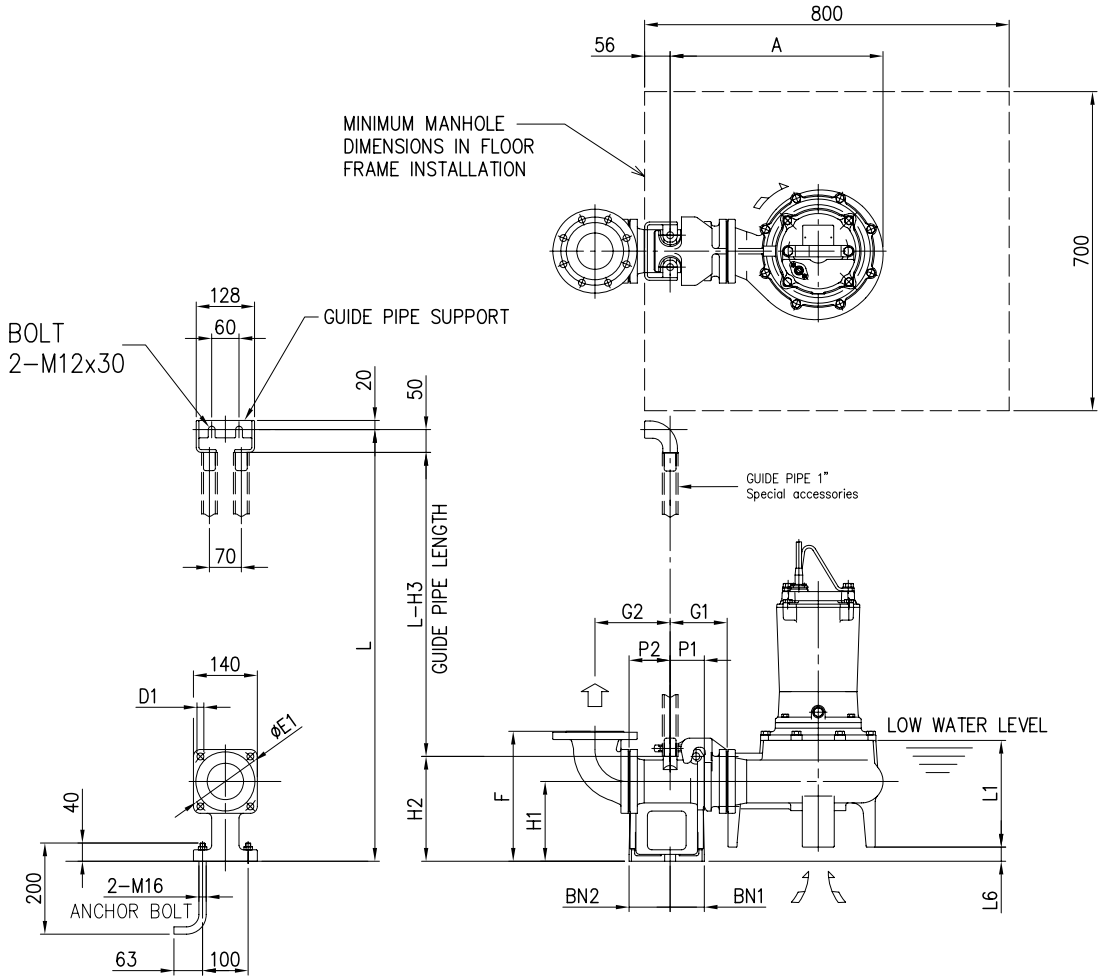
Discharge Flange Dimensions PN 10
According to EN 1092 - 2

DA	DG	DE	DF	DT	No.DN	DD
80	138	160	200	22	8	18
100	158	180	220	24		

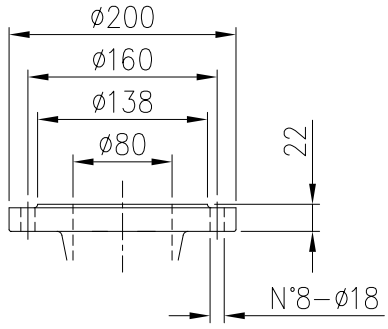
PUMP TYPE DML	A	P1	P2	G1	G2	F	H1	H2	L1	L6	BN1	BN2	D1	E1	KIT CONNECTOR	WEIGHT [kgf]
80 DML 52.2	492	75	90	125	165	295	175	230	279	7	75	90	15	155	LM80	17
80 DML 53.7																
100DML53.7					195	300										

DIMENSIONS KIT CONNECTOR LM80 50 Hz

Applicable Models – 80DMLV 52.2 – 80DMLV53.7



Note:
1) For detailed dimensions of the pumps, refer to separate dimension data sheets.
2) The discharge bend supplied with the pump are used with the QDC.
3) The weight in dimension tables refers only to the weight of the QDC.

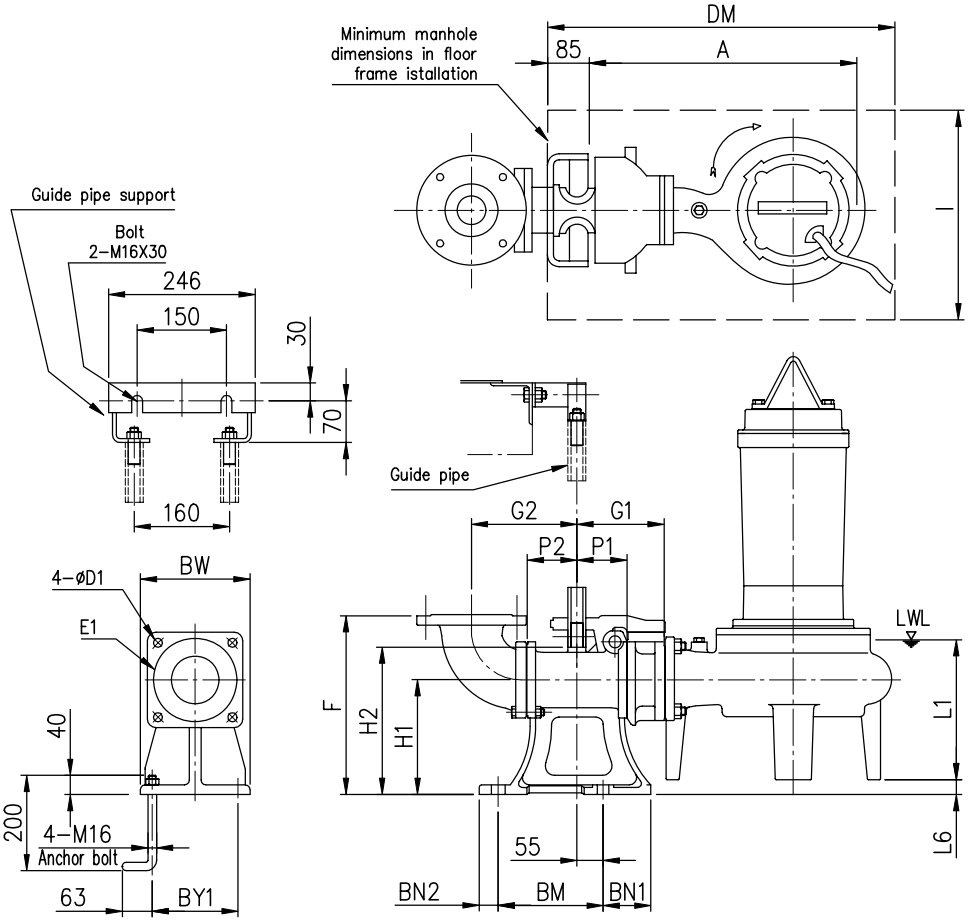


Discharge Flange Dimensions PN 10
According to EN 1092 - 2

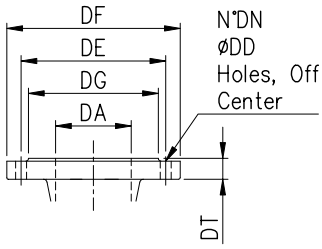
PUMP TYPE DMLV	A	P1	P2	G1	G2	F	H1	H2	H3	L1	L6	BN1	BN2	D1	E1	KIT CONNECTOR	WEIGHT [kgf]
80 DMLV52.2	468	75	90	125	165	285	175	230	280	200	31	75	90	15	155	LM80	17
80 DMLV53.7	468	75	90	125	165	285	175	230	280	200	31	75	90	15	155		

DIMENSIONS KIT CONNECTOR : LL100 (DML) 50 Hz

Applicable Models – 100 (150) DML



Note:
1) For detailed dimensions of the pumps, refer to separate dimension data sheets.
2) The discharge bend supplied with the pump are used with the QDC.
3) The weight in dimension tables refers only to the weight of the QDC.



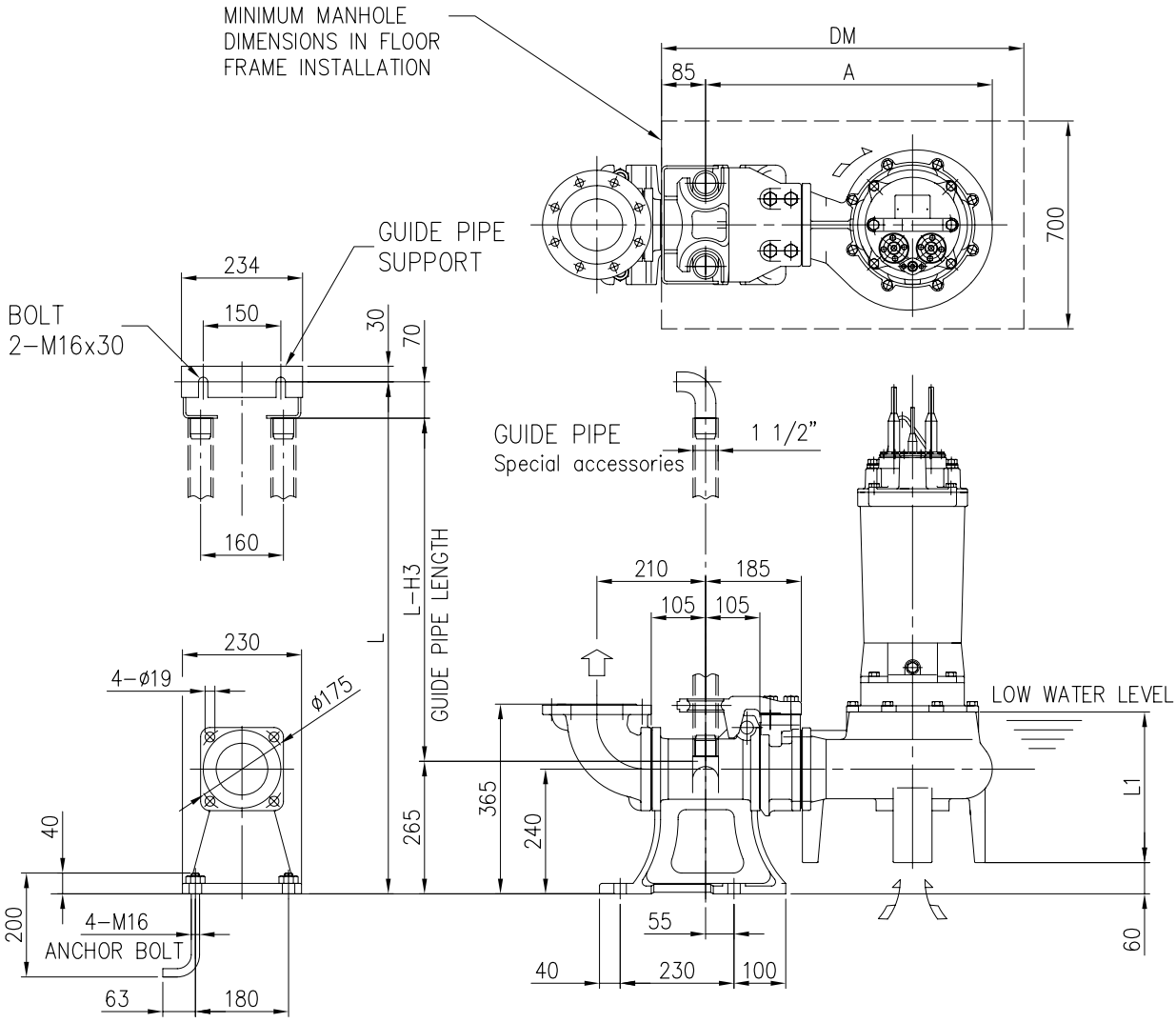
Discharge Flange Dimensions PN 10
Acoording to EN 1092 - 2

DA	DG	DE	DF	DT	No.DN	DD
100	158	180	220	24	8	18
150	212	240	285	26		22

PUMP TYPE DML	A	P1	P2	G1	G2	F	H1	H2	L1	L6	BN1	BN2	BM	BY1	BW	DM	I	D1	E1	KIT CONNECTOR	WEIGHT [kgf]
100DML55.5	628	105	105	185	210	370	240	265	310	31	100	40	220	180	230	800	700	19	175	LL100	46kg
100DML57.5																					
100DML511	721								329	15						1000					
100DML515																					
100DML522	765								342	12											
150DML55.5	628				235	400			310	31						800					
150DML57.5																					
150DML511	721								329	15						1000					
150DML515																					
150DML522	765								342	12											

DIMENSIONS KIT CONNECTOR : LL100 (DMLV) 50 Hz

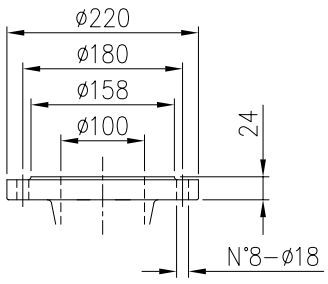
Applicable Models – DMLV



Note:
1) For detailed dimensions of the pumps, refer to separate dimension data sheets.
2) The discharge bend supplied with the pump are used with the QDC.
3) The weight in dimension tables refers only to the weight of the QDC.

PUMP TYPE DMLV	A	H3	L1	KIT CONNECTOR	WEIGHT [kgf]
100DMLV55,5	554	335	250	LL100	46
100DMLV57,5	611	335	250		
100DMLV511	611	335	250		
100DMLV515	698	335	300		
100DMLV522	698	335	300		

Discharge Flange Dimensions PN 10
According to EN 1092 - 2



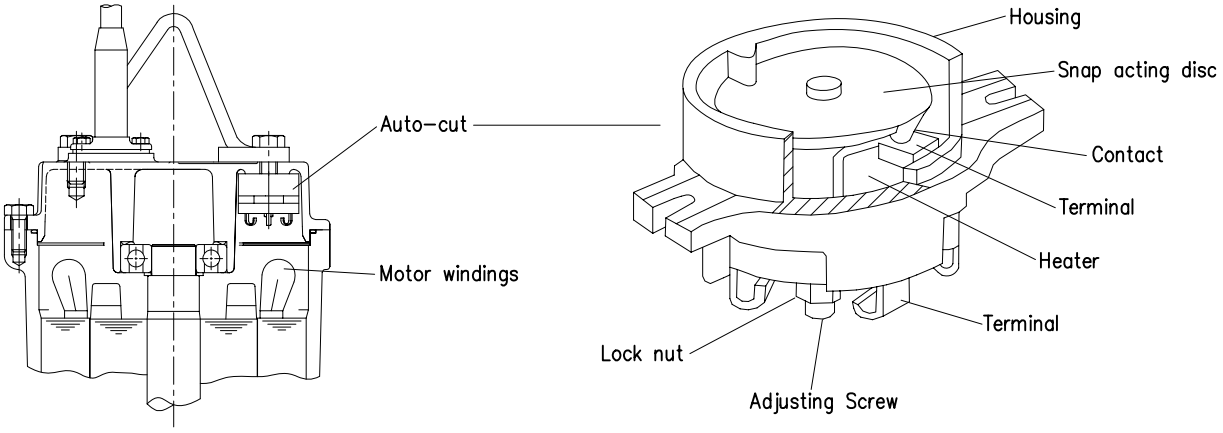
TECHNICAL DATA : MOTOR 50 Hz

	Output **kW**	**2,2**	**3,7**		**5,5**		**7,5**		**11**		**15**		**22**	
	Phase	3												
	Poles	4												
	Insulation Class	F												
Full Load	Voltage [V]	400	400	690	400	690	400	690	400	690	400	690	400	690
	Current [A]	5,2	8,4	4,8	12,6	7,3	16,9	9,8	23,8	13,7	31	17,9	42	24,2
	Efficiency %	69,5	72,7		74,5		79		77,4		80,2		86,5	
	Power factor %	87,6	87,4		84,3		80,9		85,8		86,8		87,3	
Locked Rotor Torque %		204	226	-	252	-	256	-	170	-	195	-	172	-
Start Current [A]		25,7	48,1	-	82,6	-	116,5	-	136	-	211,9	-	318,5	-
N° starts per hour		20												
Voltage Tolerance		±10%												
Frequency Tolerance		±5%												
GD^2 [$kgxm^2$]		0,020	0,030		0,059		0,076		0,120		0,160		0,340	

TECHNICAL DATA AUTO CUT 50 Hz

Applicable to DML-DMLV 2.2 kW

The three pole auto-cuts model is illustrated below.
The Auto-Cut consists on: 3 sets of contacts, 1 snap-acting disk, 3 heaters, 3 terminals and 1 calibration bolt and nut, all enclosed in a bakelite housing.



The Auto-Cut is installed directly over the motor winding of the motor where it not only senses over heating of the winding but also axcess amperage draw by each winding.

Figure 2 shows the Auto-Cut in its normal operating condition (contact closed). When actuating temperature is reached, the snap acting disc opens to interrupt the circuit as shown in figure 3 and stops the motor.

When the motor temperature cools down to the safe operating temperature, the snap acting disc resets automatically to the original position as shown in figure 2 and the motor restart!

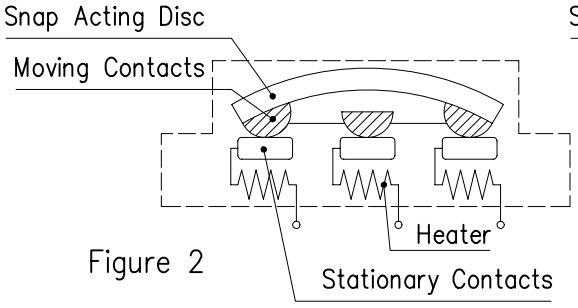


Figure 2

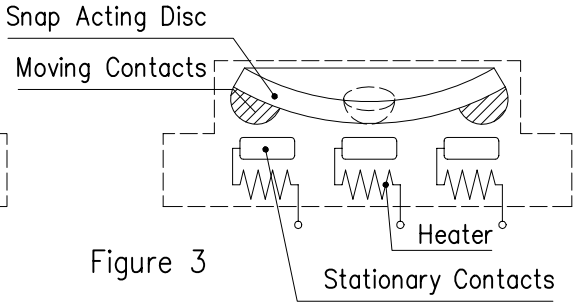


Figure 3

Auto-Cut Part Numbers

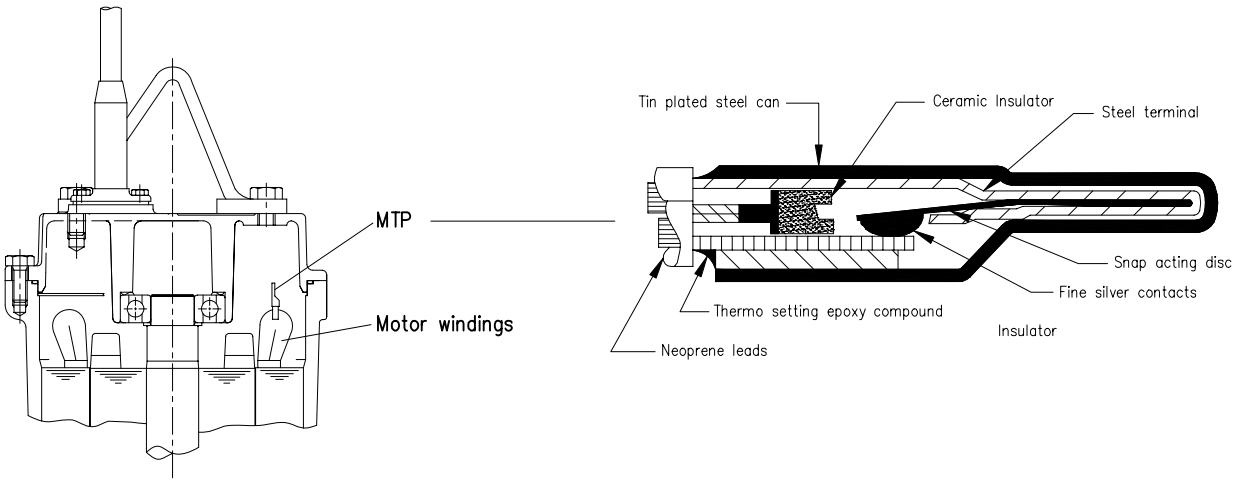
Phase	Power kW	Auto-Cut
Three	2,2	KA-313-GCLXL102

TECHNICAL DATA MINIATURE THERMAL PROTECTORS 50 Hz

Applicable from DML-DMLV 3.7 to 22 kW

A Miniature Thermal Protector (MTP) is embedded in each winding of the motor as illustrated below, and provides automatic cut off with manual reset.

When the temperature of the windings increases and reaches the MTP acting point, an external motor protection circuit (not supplied) is activated.



Specification

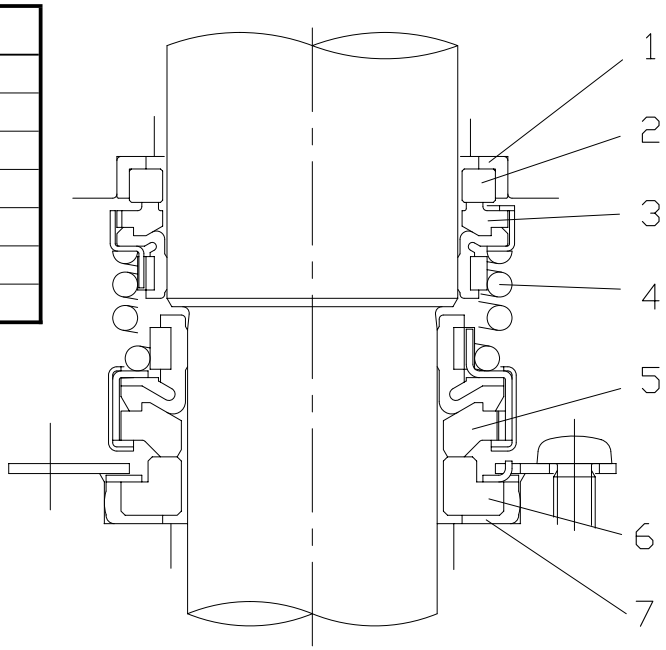
Model	Klixon 9700K-46-215
Type of contact	b (Normally-Closed, Acting-Open)
Acting temperature	150°C (+/-5)
Re-setting temperature	100 °C
Contact rating	DC24V-18A
	DC230V-13A

TECHNICAL DATA

50 Hz

	kW	Mechanical Seal					Bearings	
		Type		Lubrication				
		Diameter [mm]	Model	Capacity [cm³] DML	Capacity [cm³] DMLV	Type	Lower side	Upper side
DML-DMLV	2,2	30	EAN-30	1100		Turbine Oil SAE 10W or SAE 20W (Turbine Oil #32)	5307ZZ	6205ZZ
	3,7							
	5,5	40	EAN-40	1600	1780		5309ZZ	6306ZZ
	7,5							
	11	45	EAN-45	2900	3380		5310ZZ	6308ZZ
	15							
	22			3000	3550		5312ZZ	6309ZZ

No.	Part		Material
1	Rubber part	(motor side)	NBR
2	Stationary seal ring	(motor side)	Ceramic
3	Rotary seal ring	(motor side)	Carbon Graphite
4	Spring		EN 1.4301 (AISI304)
5	Rotary seal ring	(pump side)	Silicon Carbide
6	Stationary seal ring	(pump side)	Silicon Carbide
7	Rubber part	(pump side)	NBR



	kW	Starting method	Length of cable	Cable material	Number & size of conductor			
					Power Cable		Protector Cable	
					Cross section conductor area	Overall diameter [mm]	Cross section conductor area	Overall diameter [mm]
DML-DMLV	2,2	DOL	10m	H07RN-F	4x1,5 mm²	11,2	-	-
	3,7	Y–Δ	10m	H07RN-F	4x1,5 mm² x 2 cables	11,2	2x1 mm²	8,7
	5,5	Y–Δ	10m	H07RN-F	4x1,5 mm² x 2 cables	11,2	2x1 mm²	8,7
	7,5	Y–Δ	10m	H07RN-F	4x1,5 mm² x 2 cables	11,2	2x1 mm²	8,7
	11	Y–Δ	10m	H07RN-F	4x4 mm² x 2 cables	15,4	2x1 mm²	8,7
	15	Y–Δ	10m	H07RN-F	4x4 mm² x 2 cables	15,4	2x1 mm²	8,7
	22	Y–Δ	10m	H07RN-F	4x6 mm² x 2 cables	18,1	2x1 mm²	8,7