



**Horizontal Multistage
Centrifugal Pumps**
50Hz & 60Hz

EC, EH *series*



CODING SYSTEM

Eg.

EC 8-12 SC A2 1020 T1 E
EH 4-04 SS A2 0765 M1 E
EH 8-22 SS A2 0910 T1 E

EC	8	-	2	2	SC	A2	1020	T1	E
XX	X	-	X	X	XX	XX	XXXX	XX	X

SERIES

EC = Horizontal multistage without cover.
EH = Horizontal multistage with cover.

NOMINAL FLOW (m³ / hr)

NUMBER OF STAGE WITH REDUCED SIZE IMPERLLER

0 = without a reduced size impeller.
1 = one stage with reduced size impeller.
2 = Two stage with reduced size impeller.

TOTAL NUMBER OF STAGE

MATERIAL

SC = SS304 Impeller & inter stage and Cast Iron Body.
SS = SS304 Impeller and Body.
KK = SS316 Impeller and Body.

MOTOR FREQUENCY & POLE

A2 = 50 HZ / 2 pole.
B2 = 60 HZ / 2 pole.

MOTOR POWER, P2

1020 = 1.020Kw
0810 = 0.810Kw
0910 = 0.910 Kw

MOTOR PHASE VOLTAGE & DESIGN

T = Three Phase.	1 = IE1, Standard Efficiency.
M = Single Phase.	2 = IE2, High Efficiency.
Z = Special Voltage.	3 = IE3, Premium Efficiency.

SPECIAL CODE

E = With electronic pressure switch control system.
P = With pressure tank & switch system.

INTRODUCTION

PUMP

DESCRIPTION

EC Series are non-self priming, horizontal multistage centrifugal pumps. Pump is couple with motor at the same shaft and mounted on a base-plate. The friendly design make the pumps suitable for installation in the small domestic or industrial water supply systems. The pumps is fitted with a mechanical seal and through-going-motor shaft.

MATERIAL

- **SC** : The discharge and suction chamber are made of cast iron. The other parts of pump contact with the liquid are made of Stainless steel. EPDM or Viton are available as standard.
(Liquid : Thin, clean, non-aggressive and non-explosive liquids without solid particles or fibres.)
- **SS** : All part of pump in contact with liquid are made of stainless steel . EPDM or Viton are available as standard.
(Thin, clean, slightly aggressive and non-explosive liquids without solid particles or fibres.)

OPERATION CONDITIONS

- Flow rate (Q) : Up to 14 m³/h
- Head (H) : Up to 55m
- Speed : 2850 rpm (50Hz)
3450 rpm (60Hz)
- Liquid temperature range : 0°C ~ +90°C
- Maximum ambient temperature : +40°C
- Maximum Operation Pressure : 10 kg/cm²
- Maximum inlet pressure : limited by maximum operation pressure.
- Minimum inlet pressure : According to the NPSH cure + a safety margin of 0.5m.
- The maximum operation pressure depends on the temperature of the pumped liquid, refer table below:



Max. opearation pressure	10 bar	6 bar
EC 2, EC 4	0°C to +40°C	+41°C to +90°C
EC 8, EC 12	0°C to +55°C	+56°C to +90°C

PIPE CONNECTIONS

Connections	EC 2	EC 4	EC8	EC 12
Suction Port	Rp 1"	Rp 1 1/4"	Rp 1 1/2"	Rp 1 1/2"
Discharge port	Rp 1"	Rp 1"	Rp 1 1/4"	Rp 1 1/2"
Drain hole, Priming hole.	Rc 3/8"	Rc 3/8"	Rp 1/2"	Rp 1/2"

APPLICATIONS

EC SERIES can be used for the following services:

- Domestic.
- Liquid transfer and circulation of liquids within light industry and farming.
- Pressure boosting.
- Air-conditioning systems.
- Cooling machine or cooling system.
- Specialized OEM equipment.

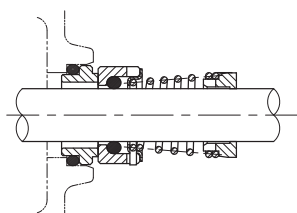
INTRODUCTION

MECHANICAL SEALS

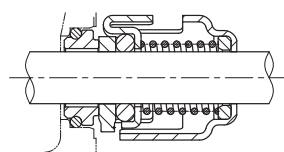
List of Material mechanical seals.

List of Material Mechanical Seal		
Seal Type	Seal Material	O-ring
C = Seal Type	Q = Silicon carbide	E = EPDM
H = Seal Type	U = Tungsten carbide	V = Viton
	B = Carbon	

SEAL TYPE



C = Seal Type



H = Seal Type

EC series mechanical seals.

Mechanical Seals	EC 2, EC 4 (SC&SS)	EC 8, EC 12 (SC)
CQBE	●	●
CQBV	Optional	Optional
CQQE or CQQV	Optional	Optional
HUUE or HUUV	Optional	Optional

● = Standard

MOTOR

DESCRIPTION

The pump is fitted with a totally enclosed, fan-cooled, squirrel-cage motor. Single phase motor have built-in thermal overload protection.

Phase : Single Phase (1 Φ) or Three phase (3 Φ)

Rated speed : 2850 rpm (50Hz)
3450 rpm (60Hz)

Enclosure class : IP 54

Insulation Class : F

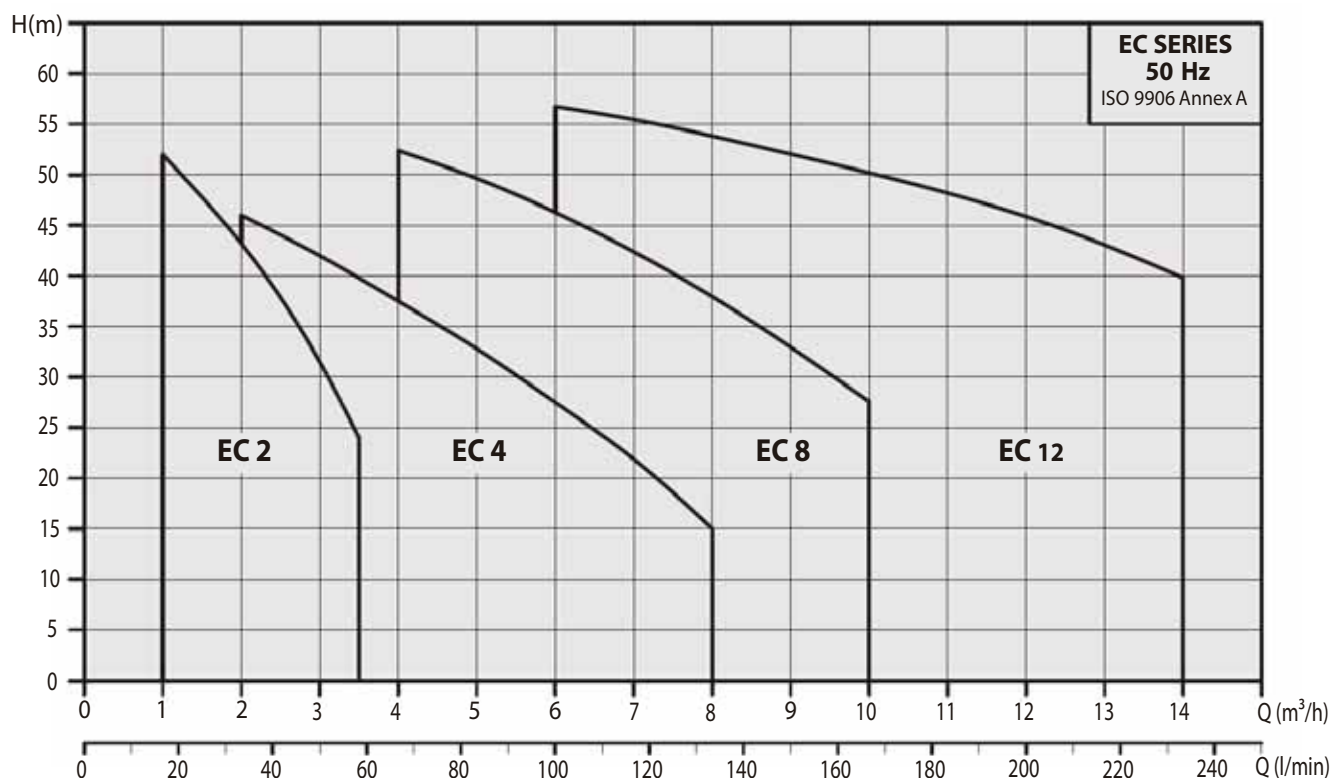


STANDARD VOLTAGES

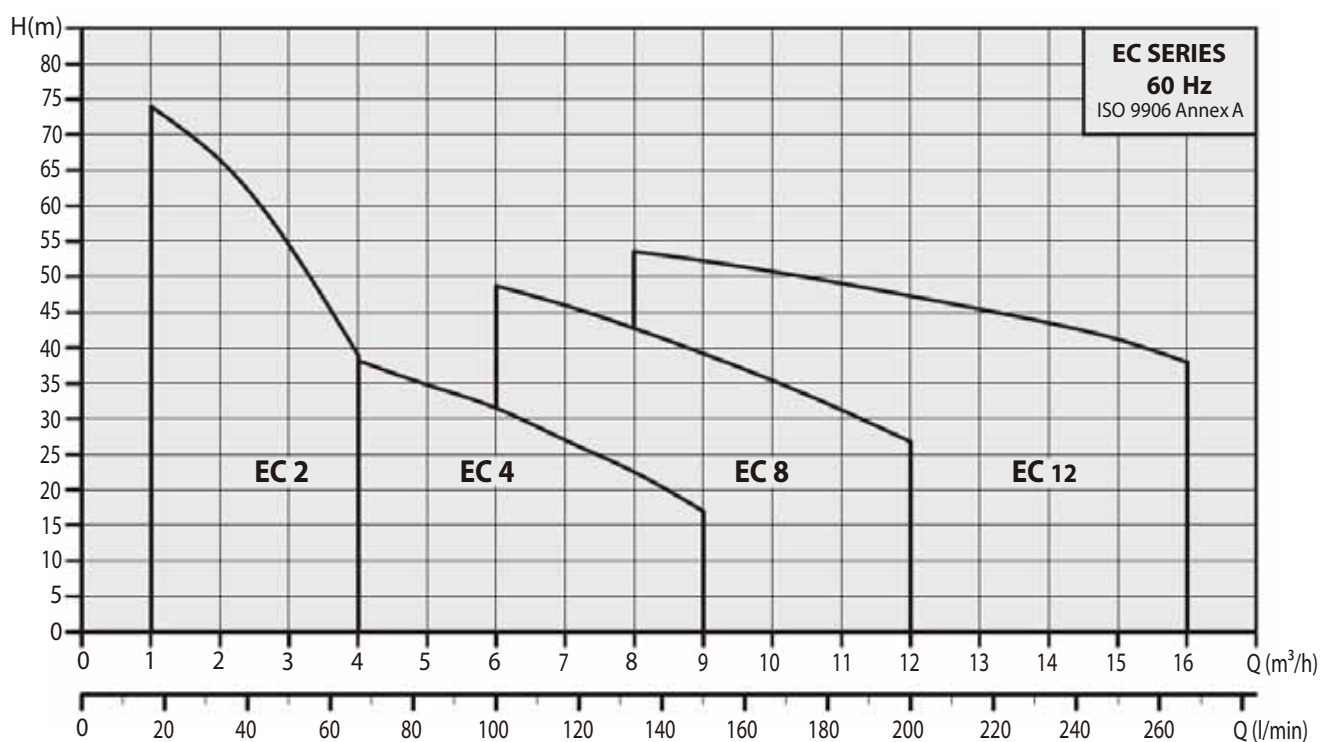
Hz	Phase	Voltage
50 Hz	1 Φ	220V-240V
	3 Φ	220V-240V / 380V-415V
60 Hz	1 Φ	110V / 220V
		220V-240V
	3 Φ	220V-255V / 380V-440V
		220V-277V / 380V-480V

FAMILY CURVE

PERFORMANCE RANGE, 50Hz

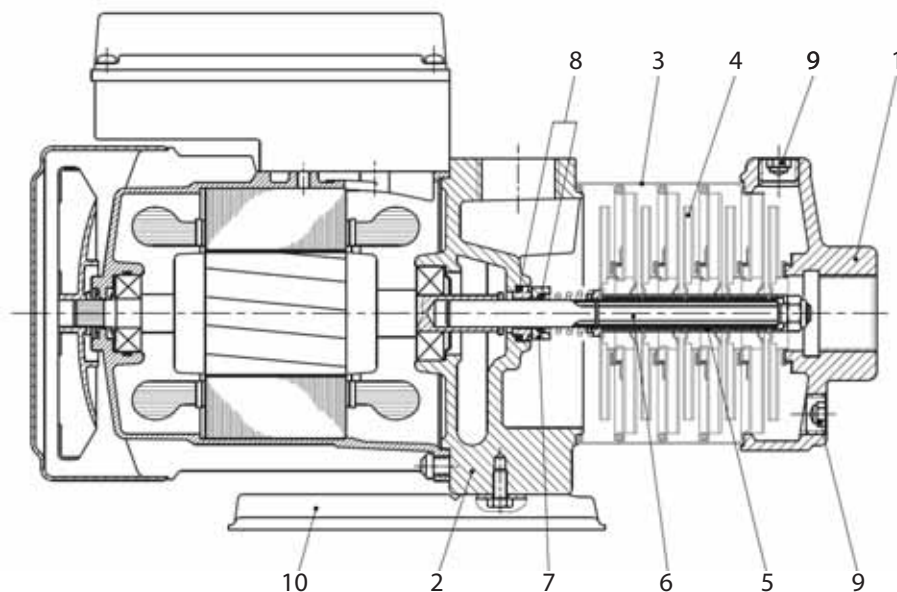


PERFORMANCE RANGE, 60Hz

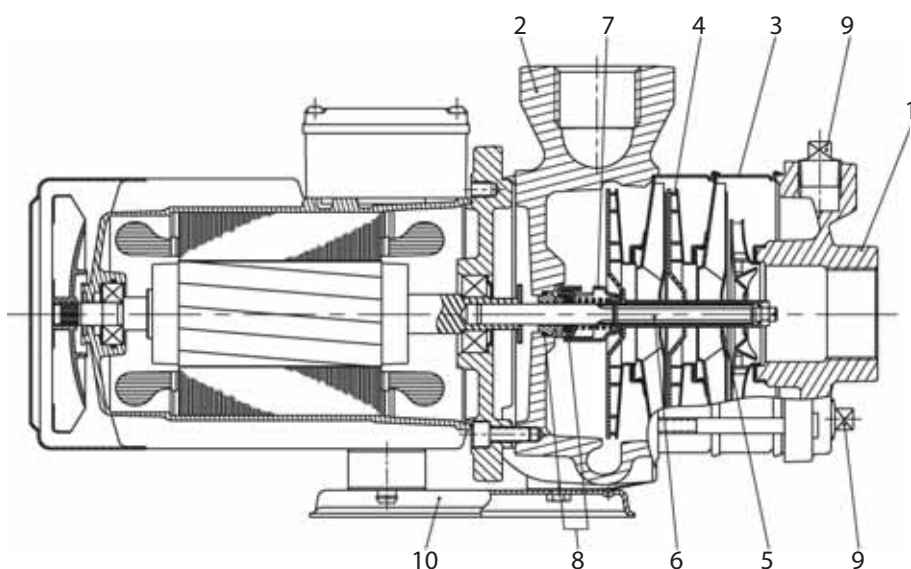


MATERIAL CONSTRUCTION

EC 2, EC4



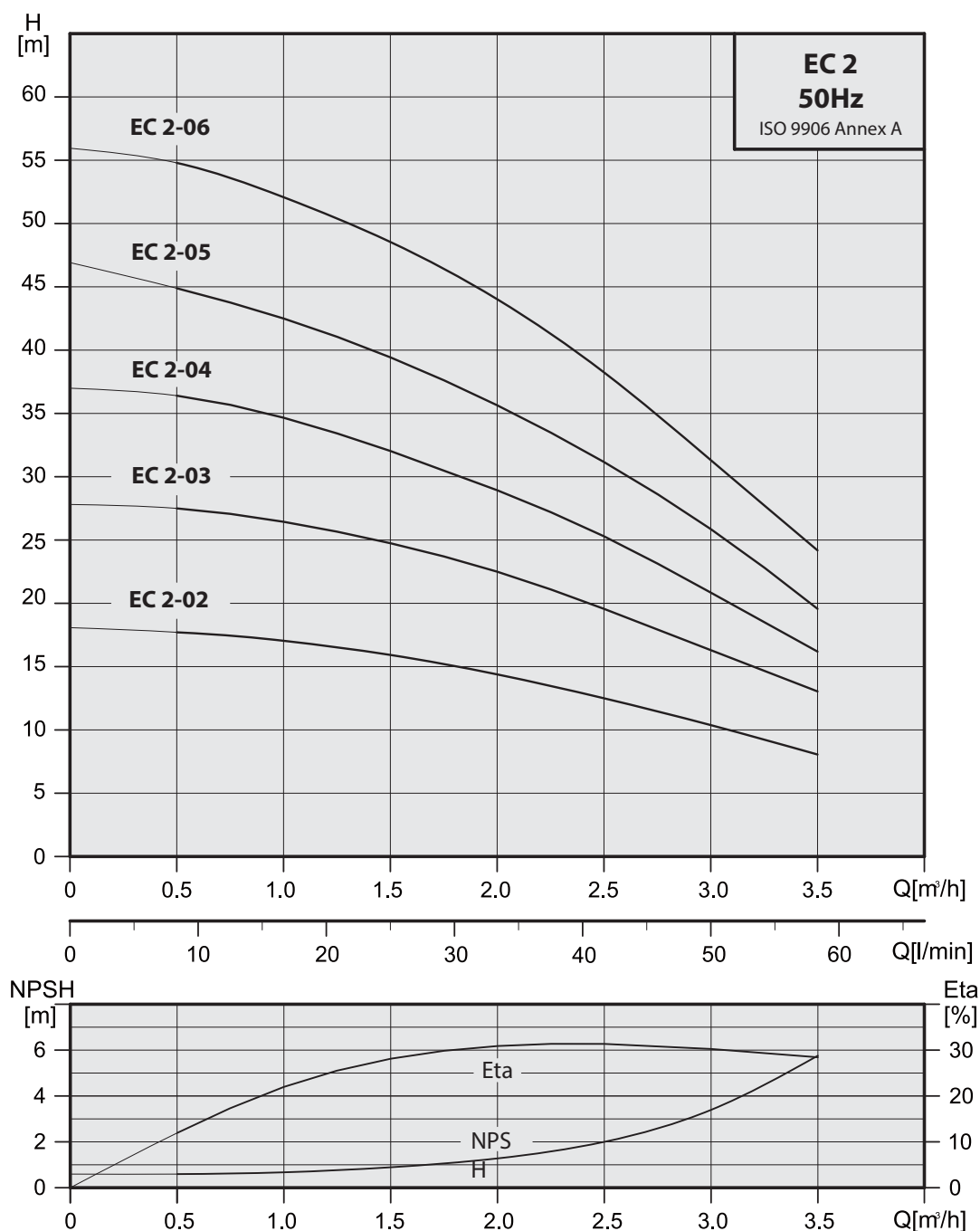
EC 8, EC 12



Pos.	Description	Materials	
		EC SC	EC SS
1	Suction chamber	Cast iron	SS 304
2	Pump head	Cast iron	SS 304
3	Intermediate Chamber	SS 304	SS 304
4	Impeller	SS 304	SS 304
5	Spacing pipe	SS 304	SS 304
6	Shaft	SS 431	SS 431
7	Mechanical seal	SIC / Carbon	SIC / Carbon
8	O-Ring	EPDM	EPDM
9	Drain and priming plug	Steel	SS 304
10	Base plate	Steel	SS 304

PERFORMANCE CURVE, 50Hz

EC 2, [50Hz]



EC 2, 1Φ Single phase motor, 2850 rpm [50Hz]

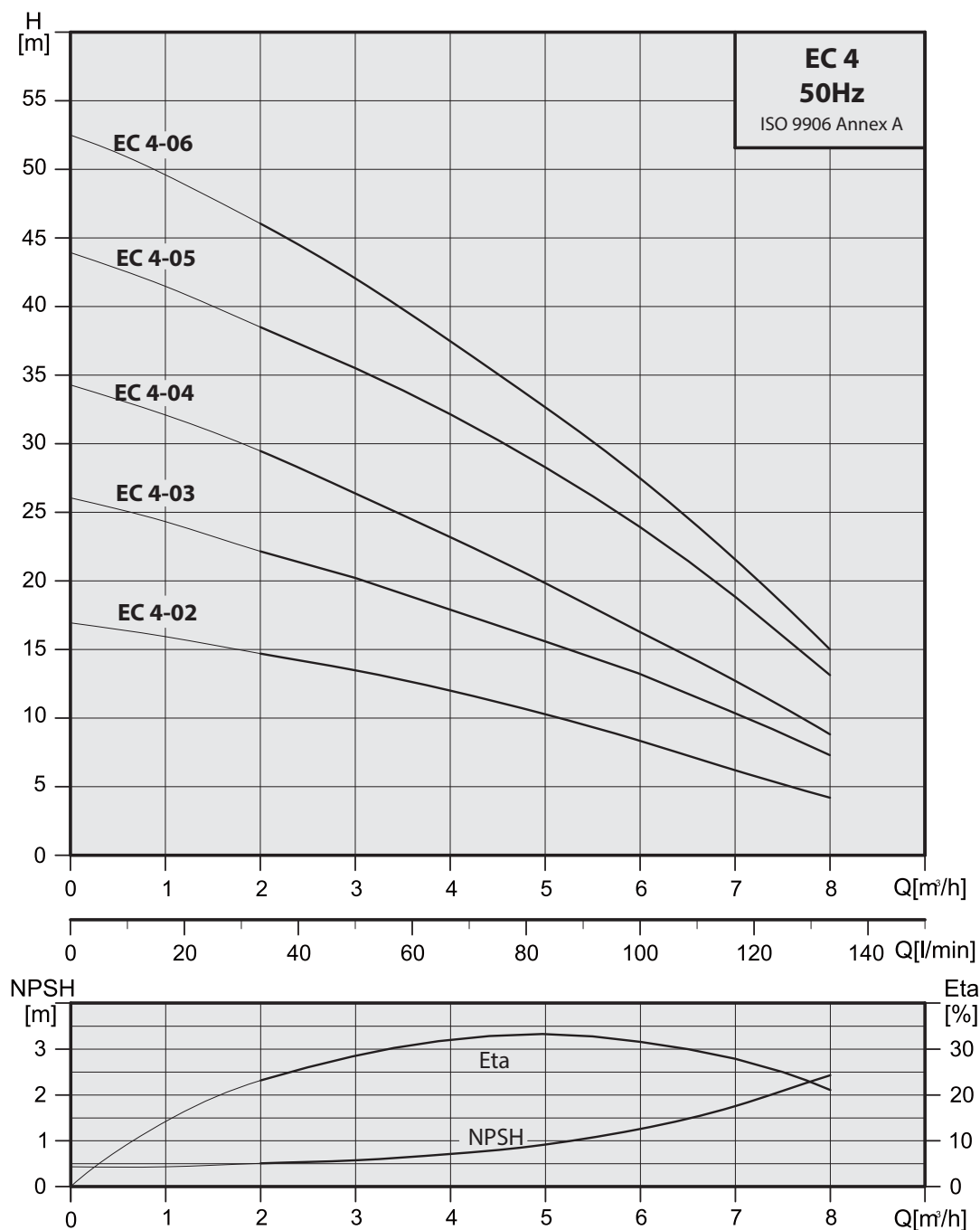
Pump Type	1 Φ 220-240V		
	I _{1/1} (A)	P ₁ (Kw)	P ₂ (Kw)
EC 2-02 SCA20295M1	1.7 - 2.0	0.380	0.295
EC 2-02 SSA20295M1			
EC 2-03 SCA20360M1	2.1 - 2.2	0.470	0.360
EC 2-03 SSA20360M1			
EC 2-04 SCA20480M1	2.7 - 2.8	0.620	0.480
EC 2-04 SSA20480M1			
EC 2-05 SCA20550M1	3.2 - 3.1	0.720	0.550
EC 2-05 SSA20550M1			
EC 2-06 SCA20630M1	3.7 - 3.6	0.830	0.630
EC 2-06 SSA20630M1			

EC 2, 3Φ Three phase motor, 2850 rpm [50Hz]

Pump Type	3 Φ Δ 220-240V / Y380-415V		
	I _{1/1} (A)	P ₁ (Kw)	P ₂ (Kw)
EC 2-02 SCA20330T1	2.2 - 2.6 / 1.30 - 1.50	0.430	0.330
EC 2-02 SSA20330T1			
EC 2-03 SCA20410T1	2.2 - 2.5 / 1.30 - 1.45	0.530	0.410
EC 2-03 SSA20410T1			
EC 2-04 SCA20510T1	2.4 - 2.8 / 1.40 - 1.60	0.660	0.510
EC 2-04 SSA20510T1			
EC 2-05 SCA20585T1	2.5 - 2.9 / 1.45 - 1.70	0.770	0.585
EC 2-05 SSA20585T1			
EC 2-06 SCA20655T1	2.9 - 3.3 / 1.70 - 1.90	0.860	0.655
EC 2-06 SSA20655T1			

PERFORMANCE CURVE, 50Hz

EC 4, [50Hz]



EC 4, 1Φ Single phase motor, 2850 rpm [50Hz]

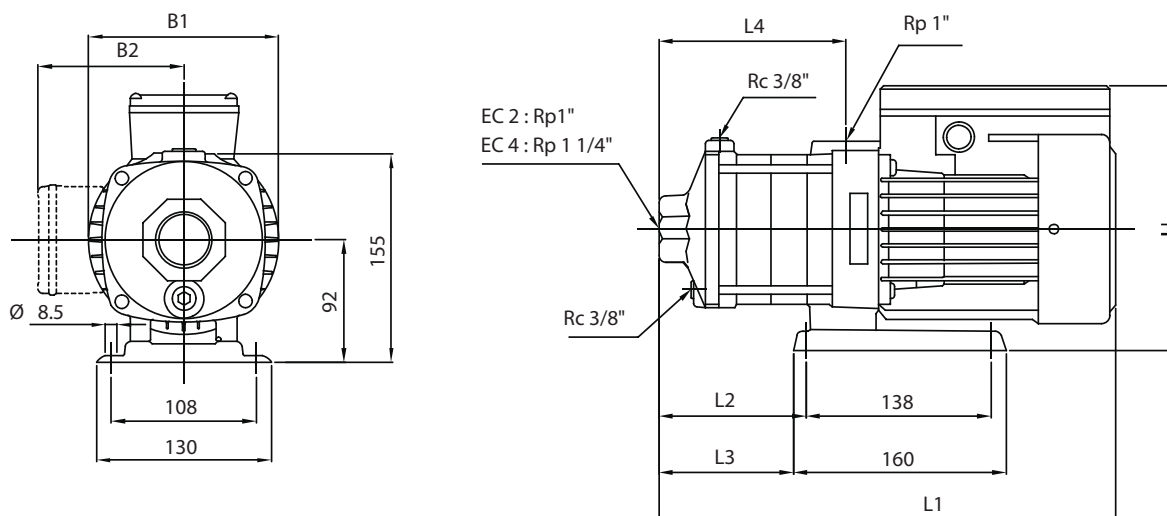
Pump Type	1 Φ 220-240V		
	I _{1/1} (A)	P ₁ (Kw)	P ₂ (Kw)
EC 4-02 SCA20430M1	2.6 - 2.5	0.560	0.430
EC 4-02 SSA20430M1			
EC 4-03 SCA20595M1	3.6 - 3.5	0.770	0.595
EC 4-03 SSA20595M1			
EC 4-04 SCA20735M1	4.4 - 4.1	0.960	0.735
EC 4-04 SSA20735M1			
EC 4-05 SCA20940M1	5.3 - 5.0	1.160	0.940
EC 4-05 SSA20940M1			
EC 4-06 SCA21135M1	6.7 - 6.4	1.430	1.135
EC 4-06 SSA21135M1			

EC 4, 3Φ Three phase motor, 2850 rpm [50Hz]

	3 Φ Δ 220-240V / Y380-415V		
	I _{1/1} (A)	P ₁ (Kw)	P ₂ (Kw)
EC 4-02 SCA20465T1	2.4 - 2.9 / 1.4 - 1.7	0.610	0.465
EC 4-02 SSA20465T1			
EC 4-03 SCA20604T1	2.5 - 2.9 / 1.5 - 1.7	0.790	0.604
EC 4-03 SSA20604T1			
EC 4-04 SCA20770T1	3.1 - 3.3 / 1.8 - 1.9	1.010	0.770
EC 4-04 SSA20770T1			
EC 4-05 SCA20990T1	4.2 - 4.5 / 2.4 - 2.6	1.240	0.990
EC 4-05 SSA20990T1			
EC 4-06 SCA21180T1	5.1 - 5.5 / 2.9 - 3.2	1.460	1.180
EC 4-06 SSA21180T1			

DIMESNION, 50Hz

EC2, EC4, MATERIAL SC, [50Hz]



EC 2 & EC4, Material SC, 1Φ Single phase motor [50Hz]

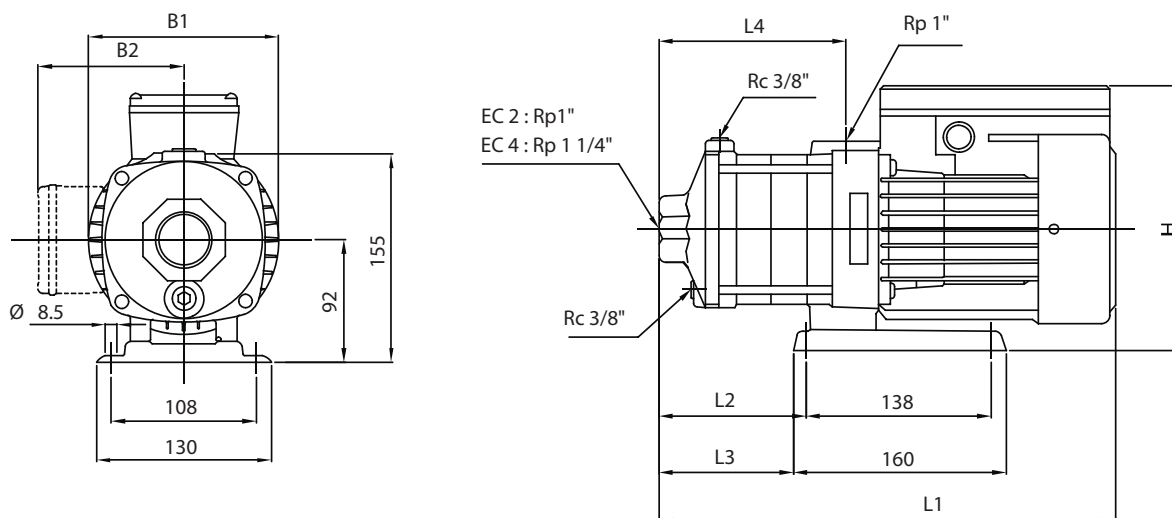
Pump Type	Dimension (mm) [with 1Φ single phase motor]							Net weight (KG)
	L1	L2	L3	L4	B1	B2	H	
EC 2-02 SCA20295M1	309	75	63	101	141	127	228	10.3
EC 2-03 SCA20360M1	327	93	81	119	141	127	228	10.5
EC 2-04 SCA20480M1	345	111	99	137	141	127	228	10.8
EC 2-05 SCA20550M1	363	129	117	155	141	127	228	11.6
EC 2-06 SCA20630M1	381	147	135	173	141	127	228	11.8
EC 4-02 SCA20430M1	318	84	72	110	141	127	228	10.4
EC 4-03 SCA20595M1	344	111	99	137	141	127	228	10.8
EC 4-04 SCA20735M1	372	138	126	164	141	127	228	11.6
EC 4-05 SCA20940M1	438	165	153	191	141	127	228	13.4
EC 4-06 SCA21135M1	465	192	180	218	141	127	228	14.8

EC 2 & EC4, Material SC, 3Φ Three Phase motor,[50Hz]

Pump Type	Dimension (mm) [with 3Φ three phase motor]							Net weight (KG)
	L1	L2	L3	L4	B1	B2	H	
EC 2-02 SCA20330T1	309	75	63	101	141	115	207	10.0
EC 2-03 SCA20410T1	327	93	81	119	141	115	207	10.3
EC 2-04 SCA20510T1	345	111	99	137	141	115	207	10.5
EC 2-05 SCA20585T1	363	129	117	155	141	115	207	11.2
EC 2-06 SCA20655T1	381	147	135	173	141	115	207	11.5
EC 4-02 SCA20465T1	318	84	72	110	141	115	207	10.1
EC 4-03 SCA20604T1	344	111	99	137	141	115	207	10.5
EC 4-04 SCA20770T1	372	138	126	164	141	115	207	11.2
EC 4-05 SCA20990T1	438	165	153	191	141	115	207	13.1
EC 4-06 SCA21180T1	465	192	180	218	141	115	207	14.5

DIMESNION, 50Hz

EC2 , EC4, MATERIAL SS [50Hz]



EC 2 & EC4, Material SS, 1Φ Single phase motor [50Hz]

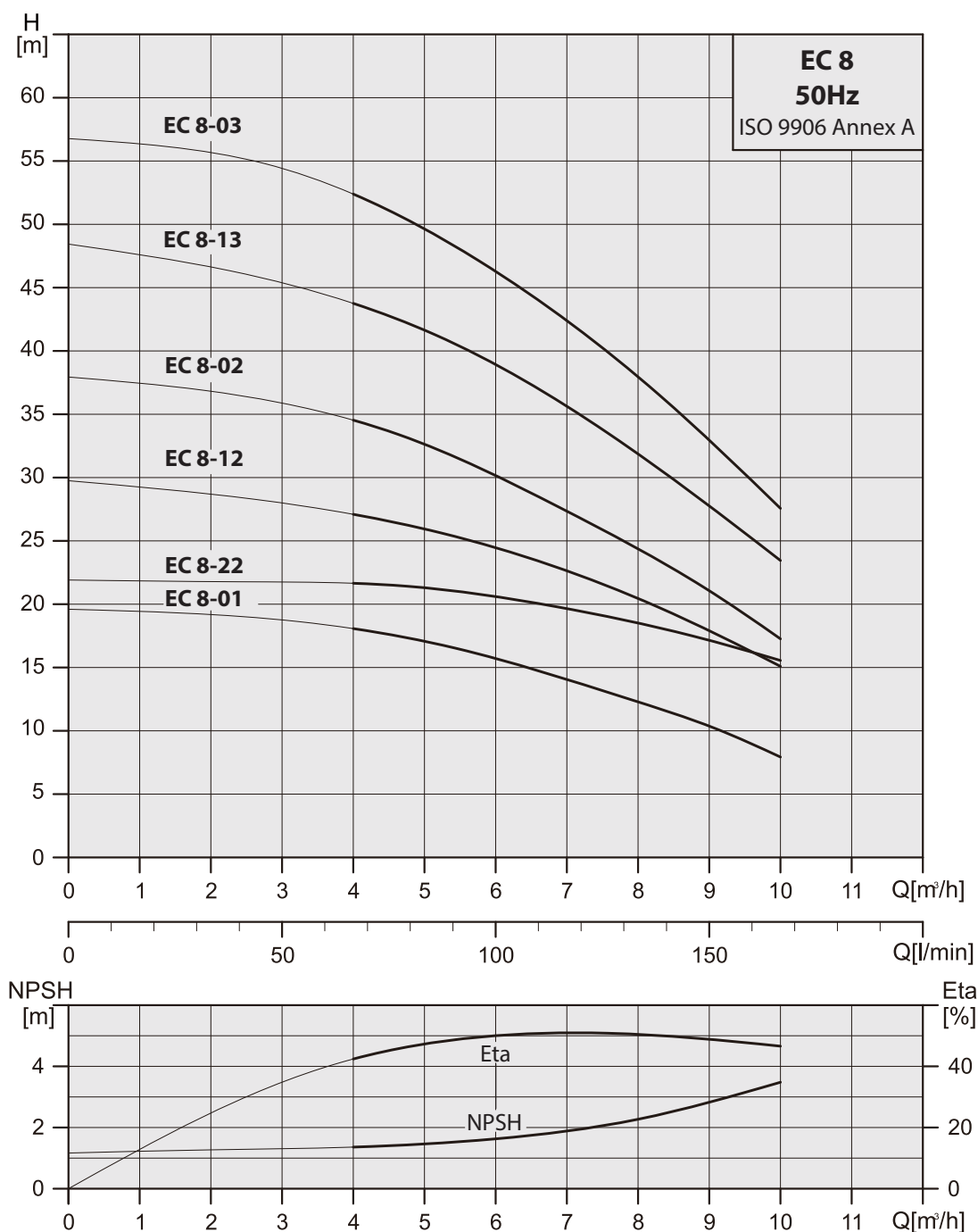
Pump Type	Dimension (mm) [with 1Φ Single phase motor]							Net weight (KG)
	L1	L2	L3	L4	B1	B2	H	
EC 2-02 SSA20295M1	309	75	63	101	141	127	228	9.1
EC 2-03 SSA20360M1	327	93	81	119	141	127	228	9.4
EC 2-04 SSA20480M1	345	111	99	137	141	127	228	9.6
EC 2-05 SSA20550M1	363	129	117	155	141	127	228	10.4
EC 2-06 SSA20630M1	381	147	135	173	141	127	228	10.7
EC 4-02 SSA20430M1	318	84	72	110	141	127	228	9.2
EC 4-03 SSA20595M1	344	111	99	137	141	127	228	9.6
EC 4-04 SSA20735M1	372	138	126	164	141	127	228	10.4
EC 4-05 SSA20940M1	438	165	153	191	141	127	228	11.3
EC 4-06 SSA21135M1	465	192	180	218	141	127	228	13.6

EC 2 & EC4, Material SS, 3Φ Three Phase motor,[50Hz]

Pump Type	Dimension (mm) [with 3Φ Three phase motor]							Net weight (KG)
	L1	L2	L3	L4	B1	B2	H	
EC 2-02 SSA20330T1	309	75	63	101	141	115	207	8.8
EC 2-03 SSA20410T1	327	93	81	119	141	115	207	9.1
EC 2-04 SSA20510T1	345	111	99	137	141	115	207	9.4
EC 2-05 SSA20585T1	363	129	117	155	141	115	207	10.1
EC 2-06 SSA20655T1	381	147	135	173	141	115	207	10.3
EC 4-02 SSA20465T1	318	84	72	110	141	115	207	9.0
EC 4-03 SSA20604T1	344	111	99	137	141	115	207	9.3
EC 4-04 SSA20770T1	372	138	126	164	141	115	207	10.1
EC 4-05 SSA20990T1	438	165	153	191	141	115	207	12.0
EC 4-06 SSA21180T1	465	192	180	218	141	115	207	13.4

PERFORMANCE CURVE, 50Hz

EC 8, [50Hz]



EC 8, 1Φ Single phase motor, 2850 rpm [50Hz]

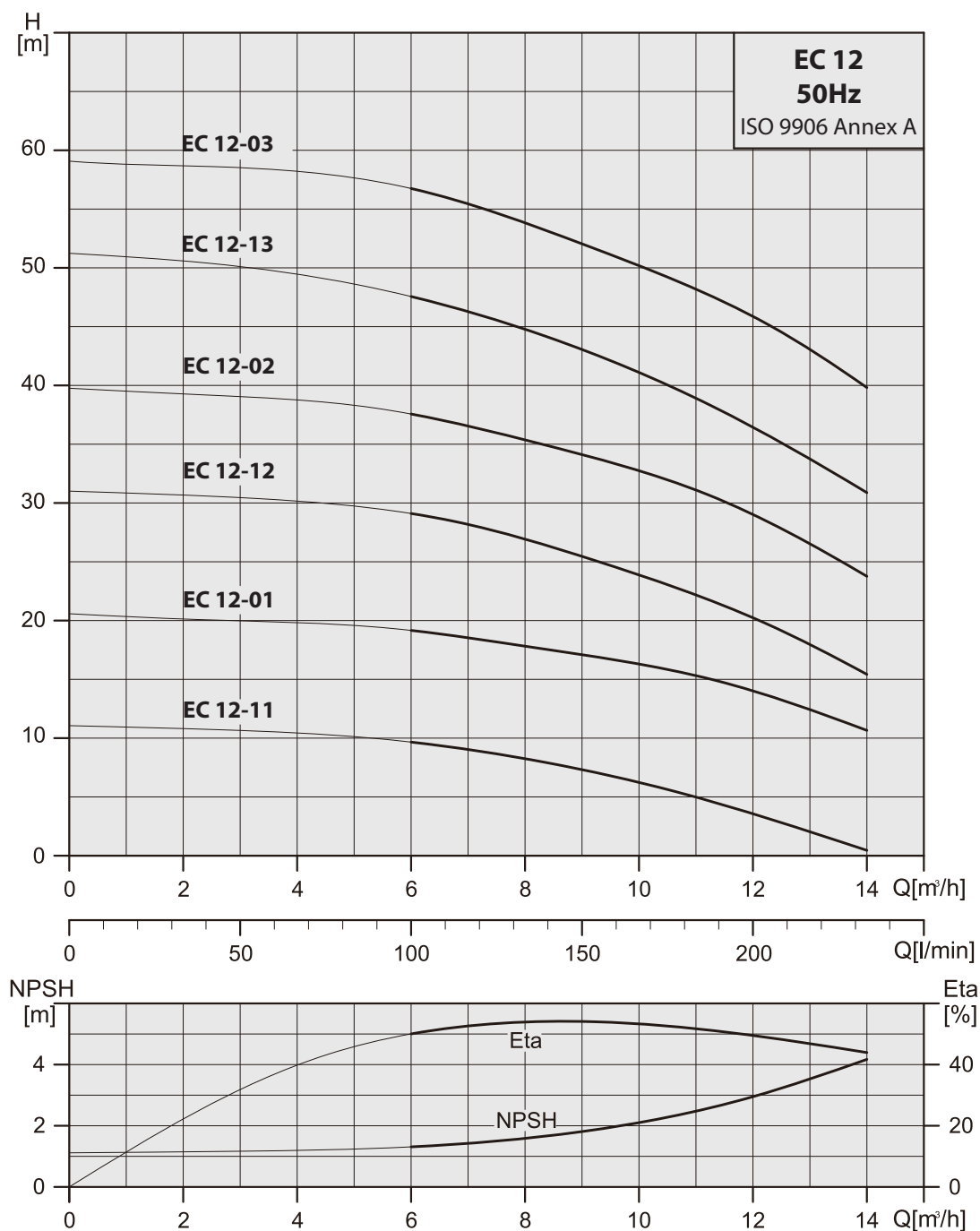
Pump Type	1 Φ 220-240V		
	I 1/1 (A)	P ₁ (Kw)	P ₂ (Kw)
EC 8-01 SCA20595M1	3.3 - 3.2	0.760	0.595
N/A			
EC 8-12 SCA20910M1	5.2 - 5.0	1.130	0.910
EC 8-02 SCA21105M1	6.3 - 6.1	1.390	1.105
EC 8-13 SCA21610M1	8.2 - 8.1	1.940	1.610
EC 8-03 SCA21740M1	9.0 - 8.8	2.090	1.740

EC 8, 3Φ Three phase motor, 2850 rpm [50Hz]

Pump Type	3 Φ Δ 220-240V / Y380-415V		
	I 1/1 (A)	P ₁ (Kw)	P ₂ (Kw)
EC 8-01 SCA20620T1	2.9 - 3.3 / 1.7 - 1.9	0.810	0.620
EC 8-22 SCA20860T1	3.5 - 3.8 / 2.0 - 2.2	1.060	0.860
EC 8-12 SCA21020T1	4.3 - 4.8 / 2.5 - 2.8	1.260	1.020
EC 8-02 SCA21205T1	5.7 - 6.3 / 3.3 - 3.7	1.520	1.205
EC 8-13 SCA21475T1	5.7 - 6.3 / 3.4 - 3.7	1.860	1.475
EC 8-03 SCA21755T1	6.5 - 7.0 / 3.8 - 4.1	2.110	1.755

PERFORMANCE CURVE, 50Hz

EC 12, [50Hz]



EC 12, 1Φ Single phase motor, 2850 rpm [50Hz]

Pump Type	1 Φ 220-240V		
	I _{1/1} (A)	P ₁ (Kw)	P ₂ (Kw)
N/A			
EC 12-01 SCA20935M1	5.3 - 5.1	1.160	0.935
EC 12-12 SCA21330M1	7.8 - 7.4	1.680	1.330
EC 12-02 SCA21995M1	11.0 - 10.6	2.400	1.995
EC 12-13 SCA22440M1	12.7 - 12.2	2.910	2.440
N/A			

EC 12, 3Φ Three phase motor, 2850 rpm [50Hz]

Pump Type	3 Φ Δ 220-240V / Y380-415V		
	I _{1/1} (A)	P ₁ (Kw)	P ₂ (Kw)
EC 12-11 SCA20455T1	2.8 - 3.1 / 1.6 - 1.8	0.590	0.455
EC 12-01 SCA20950T1	3.8 - 4.0 / 2.2 - 2.3	1.170	0.950
EC 12-12 SCA21365T1	5.7 - 6.5 / 3.3 - 3.8	1.690	1.365
EC 12-02 SCA21960T1	7.3 - 7.6 / 4.2 - 4.4	2.350	1.960
EC 12-13 SCA22375T1	8.8 - 9.0 / 5.1 - 5.2	2.820	2.375
EC 12-03 SCA22860T1	10.6-11.4 / 6.1 - 6.6	3.320	2.860

EC 8, MATERIAL SC, [50Hz]

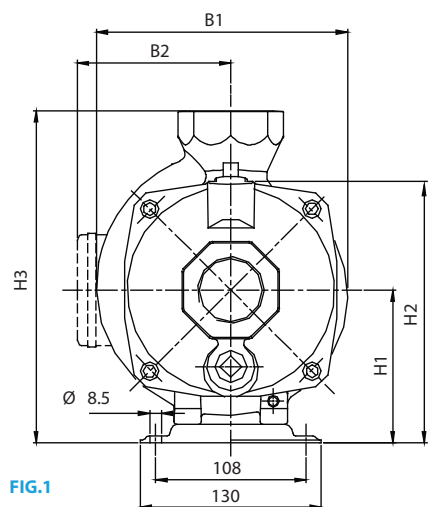


FIG.1

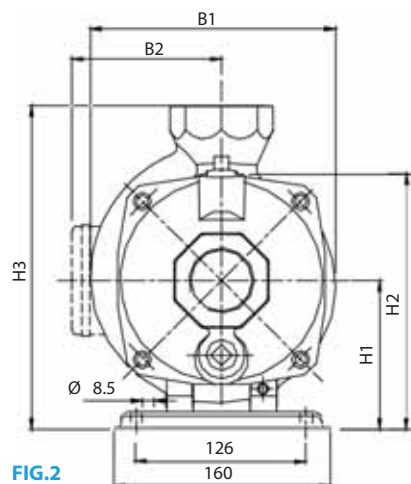
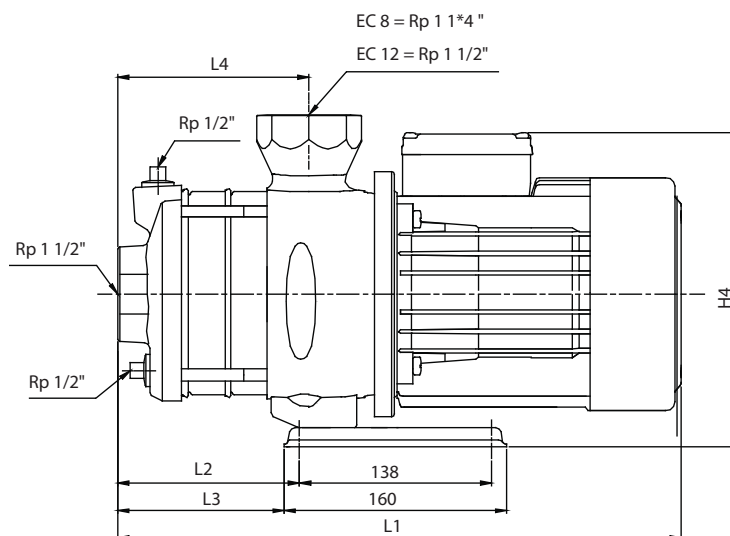
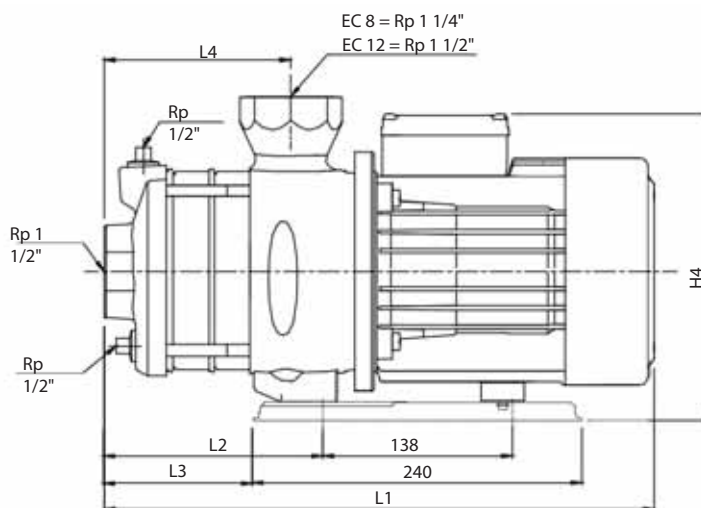


FIG.2



EC 8 , 1Φ Single phase motor,[50Hz]

Pump Type	Dimension (mm) [1Φ Single Phase Motor]										refer to dwg Fig.	Net weight (KG)
	L1	L2	L3	L4	B1	B2	H1	H2	H3	H4		
EC 8-01 SCA20595M1	320	54	41	77	181	135	110	187	239	245	FIG.1	17.2
EC 8-12 SCA20910M1	390	84	71	107	181	135	110	187	239	245	FIG.1	19.5
EC 8-02 SCA21105M1	390	84	71	107	181	135	110	187	239	245	FIG.1	20.7
EC 8-13 SCA21610M1	480	162	111	137	185	152	110	187	239	262	FIG.2	28.5
EC 8-03 SCA21740M1	480	162	111	137	185	152	110	187	239	262	FIG.2	28.7

EC 8 , 3Φ Three phase motor,[50Hz]

Pump Type	Dimension (mm) [3Φ Three Phase Motor]										refer to dwg Fig.	Net weight (KG)
	L1	L2	L3	L4	B1	B2	H1	H2	H3	H4		
EC 8-01 SCA20620T1	320	54	41	77	181	114	110	187	239	224	FIG.1	17.0
EC 8-22 SCA20860T1	390	84	71	107	181	114	110	187	239	224	FIG.1	19.1
EC 8-12 SCA21020T1	390	84	71	107	181	114	110	187	239	224	FIG.1	19.2
EC 8-02 SCA21205T1	390	84	71	107	181	114	110	187	239	224	FIG.1	20.5
EC 8-13 SCA21475T1	420	114	101	137	181	114	110	187	239	224	FIG.1	21.4
EC 8-03 SCA21755T1	480	162	111	137	185	139	110	187	239	249	FIG.2	27.6

EC 12, MATERIAL SC, [50Hz]

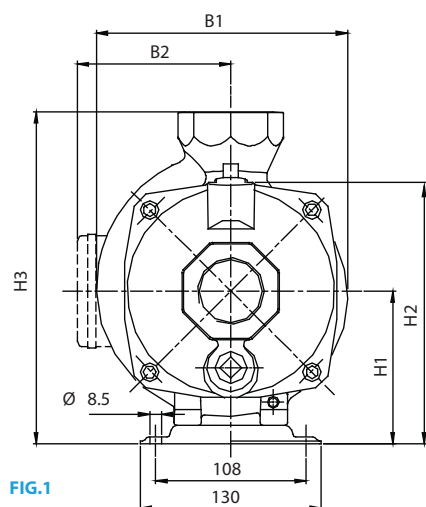


FIG.1

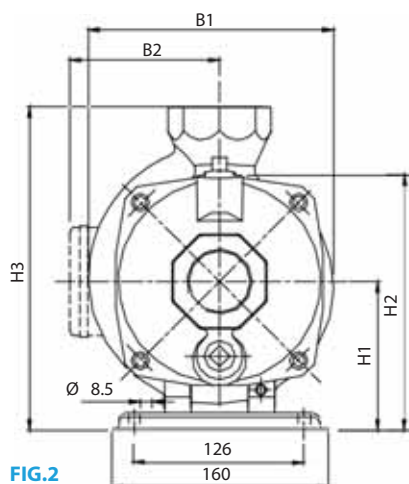
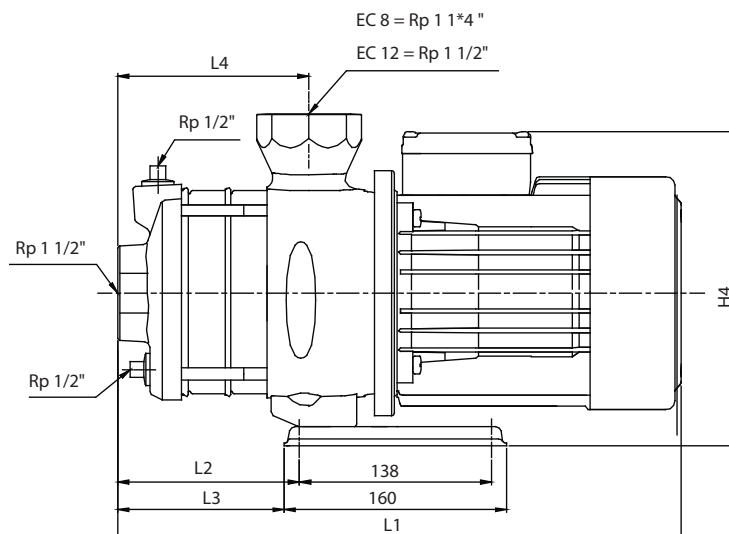
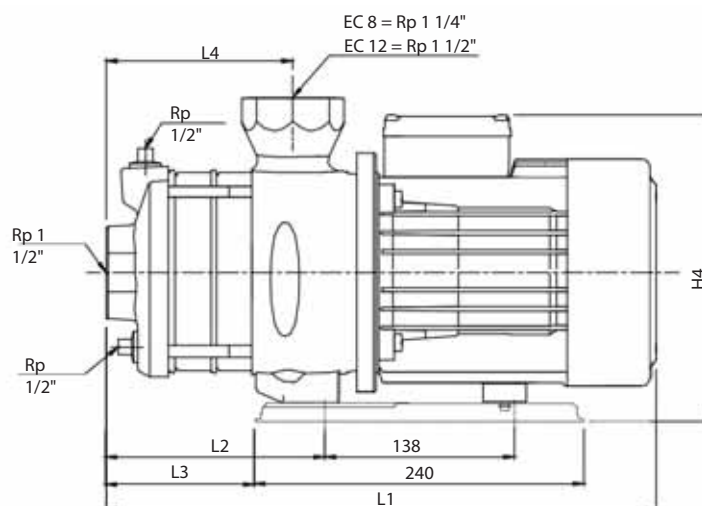


FIG.2



EC 12, 1Φ Single phase motor,[50Hz]

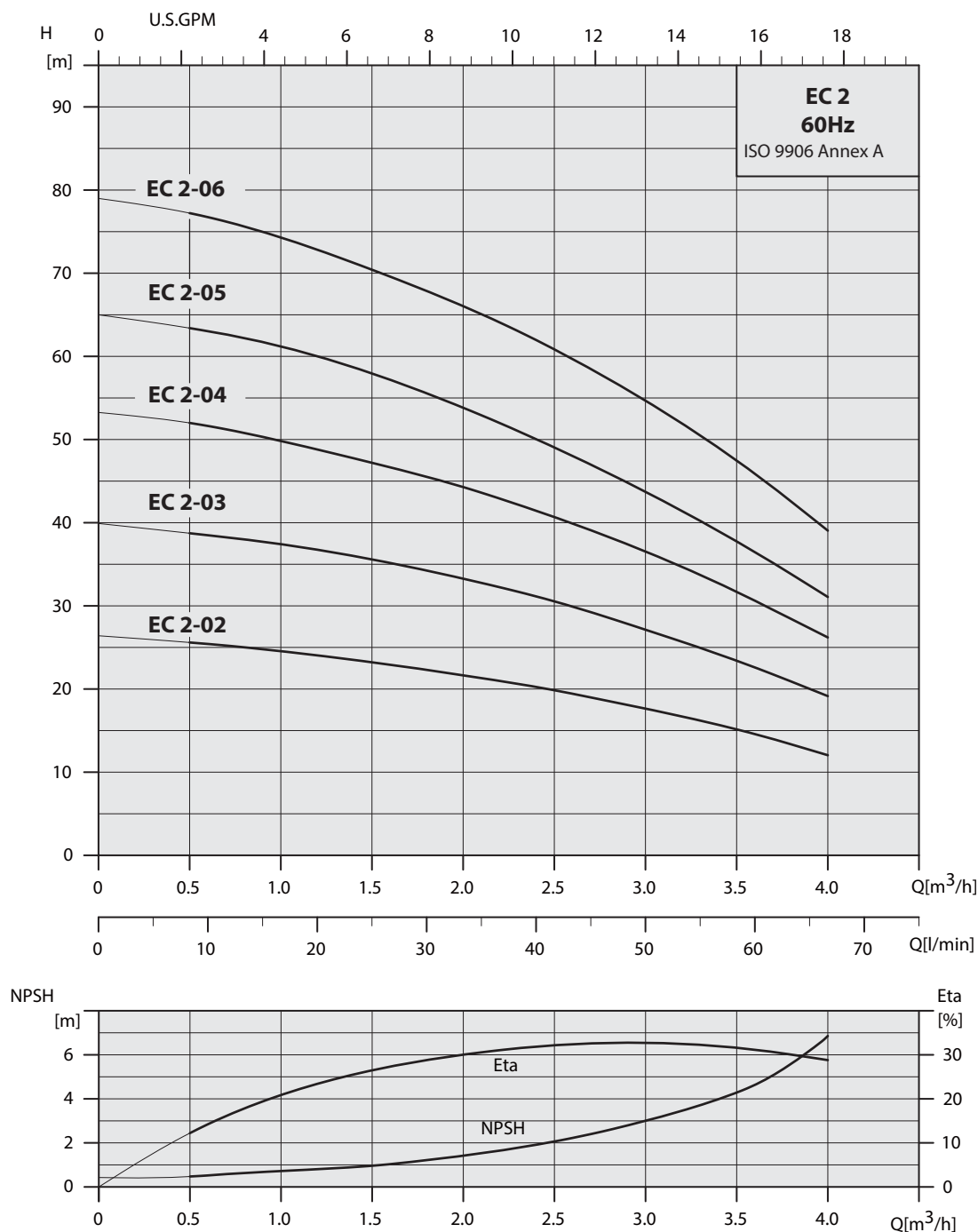
Pump Type	Dimension (mm) [1Φ Single Phase Motor]										refer to dwg Fig.	Net weight (KG)
	L1	L2	L3	L4	B1	B2	H1	H2	H3	H4		
EC 12-01 SCA20935M1	360	54	41	77	181	135	110	187	239	245	FIG.1	18.4
EC 12-12 SCA21330M1	390	84	71	107	181	135	110	187	239	245	FIG.1	20.6
EC 12-02 SCA21995M1	450	132	81	107	185	152	110	187	239	262	FIG.2	27.7
EC 12-13 SCA22440M1	480	162	111	137	185	152	110	187	239	262	FIG.2	29.8

EC 12, 3Φ Three phase motor,[50Hz]

Pump Type	Dimension (mm) [3Φ Three Phase Motor]										refer to dwg Fig.	Net weight (KG)
	L1	L2	L3	L4	B1	B2	H1	H2	H3	H4		
EC 12-11 SCA20455T1	320	54	41	77	181	114	110	187	239	224	FIG.1	17.9
EC 12-01 SCA20950T1	360	54	41	77	181	114	110	187	239	224	FIG.1	18.2
EC 12-12 SCA21365T1	390	84	71	107	181	114	110	187	239	224	FIG.1	20.4
EC 12-02 SCA21960T1	450	132	81	107	185	139	110	187	239	249	FIG.2	26.7
EC 12-13 SCA22375T1	480	162	111	137	185	139	110	187	239	249	FIG.2	29.9
EC 12-03 SCA22860T1	501	162	111	137	196	150	122	199	251	272	FIG.2	35.2

PERFORMANCE CURVE, 60Hz

EC 2, [60Hz]



EC 2, 1Φ Single phase motor, 3450 rpm [60Hz]

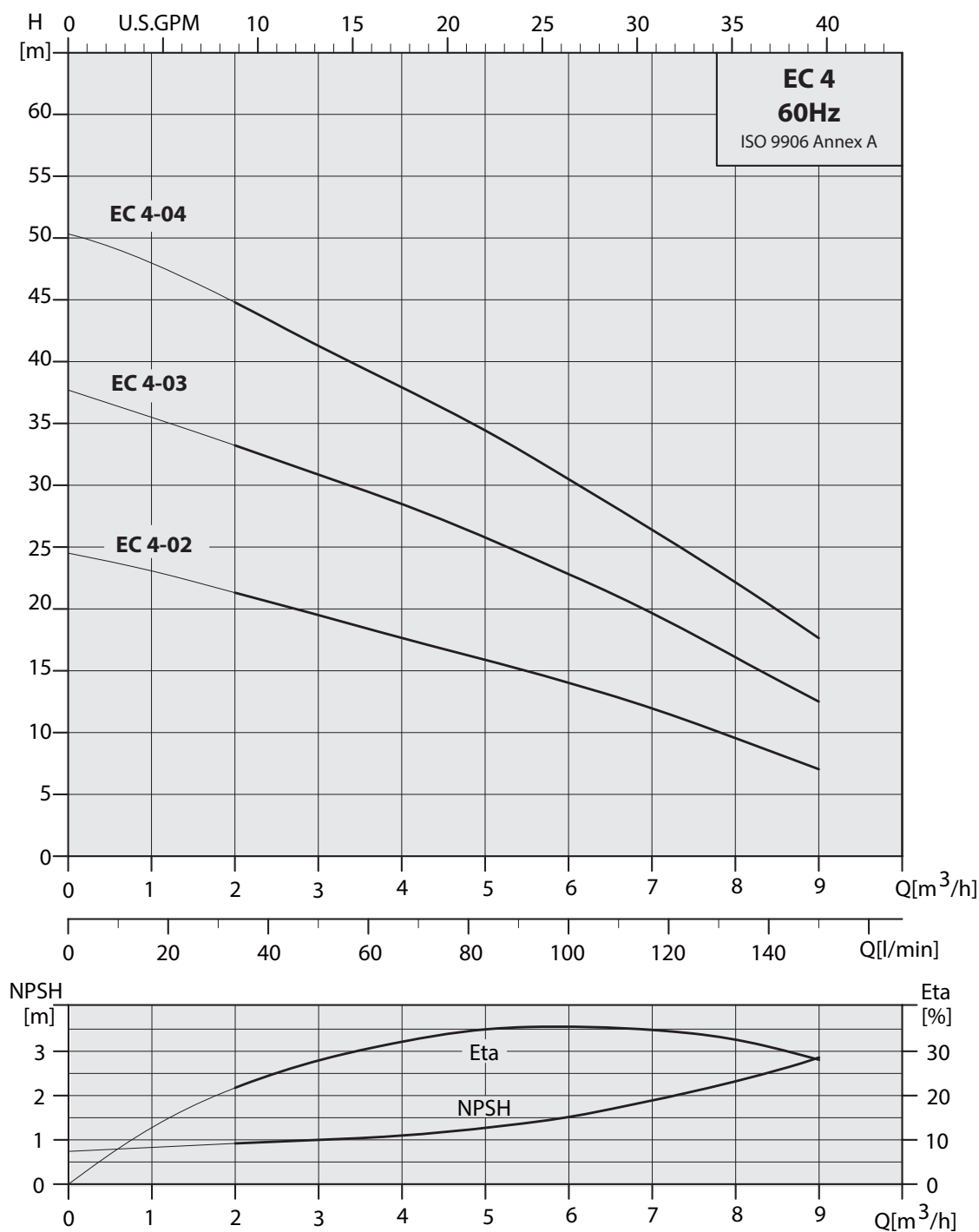
Pump Type	1 Φ 110V / 220V		
	I _{1/1} (A)	P ₁ (Kw)	P ₂ (Kw)
EC 2-02 SCB20460M1	6.3 / 3.2	0.570	0.460
EC 2-02 SSB20460M1			
EC 2-03 SCB20630M1	7.9 / 4.1	0.780	0.630
EC 2-03 SSB20630M1			
EC 2-04 SCB20710M1	8.8 / 4.4	0.870	0.710
EC 2-04 SSB20710M1			
EC 2-05 SCB20995M1	11.7 / 5.9	1.190	0.995
EC 2-05 SSB20995M1			
EC 2-06 SCB21180M1	13.7 / 6.9	1.410	1.180
EC 2-06 SSB21180M1			

EC 2, 3Φ Three phase motor, 3450 rpm [60Hz]

Pump Type	3 Φ Δ 220-255V / Y380-440V		
	I _{1/1} (A)	P ₁ (Kw)	P ₂ (Kw)
EC 2-02 SCB20430T1	1.8 - 1.9 / 1.0 - 1.1	0.550	0.430
EC 2-02 SSB20430T1			
EC 2-03 SCB20540T1	3.5 - 3.3 / 2.0 - 1.9	0.680	0.540
EC 2-03 SSB20540T1			
EC 2-04 SCB20725T1	3.1 - 3.2 / 1.8 - 1.9	0.950	0.725
EC 2-04 SSB20725T1			
EC 2-05 SCB20940T1	3.7 - 3.8 / 2.1 - 2.2	1.160	0.940
EC 2-05 SSB20940T1			
EC 2-06 SCB21060T1	3.7 - 3.8 / 6.4 - 6.6	1.280	1.060
EC 2-06 SSB21060T1			

PERFORMANCE CURVE, 60Hz

EC 4, [60Hz]

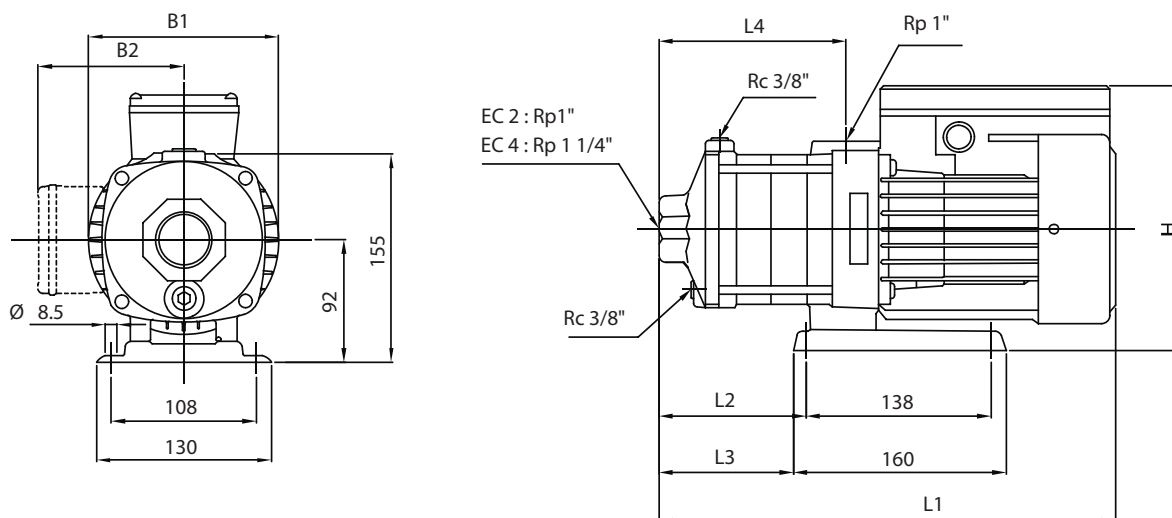


EC 4, 1Φ Single phase motor, 3450 rpm [60Hz]

EC 4, 3Φ Three phase motor, 3450 rpm [60Hz]

Pump Type	1 Φ 110V / 220V				3 Φ Δ 220-255V / Y380-440V		
	I _{1/1} (A)	P ₁ (Kw)	P ₂ (Kw)		I _{1/1} (A)	P ₁ (Kw)	P ₂ (Kw)
EC 4-02 SCB20770M1	9.5 / 4.7	0.950	0.770	EC 4-02 SCB20720T1	2.85 - 3.0 / 1.65 - 1.8	0.890	0.720
EC 4-02 SSB20770M1				EC 4-02 SSB20720T1			
EC 4-03 SCB21100M1	12.5 / 6.2	1.310	1.100	EC 4-03 SCB21050T1	3.9 - 4.0 / 2.3 - 2.4	1.250	1.050
EC 4-03 SSB21100M1				EC 4-03 SSB21050T1			
EC 4-04 SCB21360M1	N/A / 8.3	1.700	1.360	EC 4-04 SCB21310T1	5.1 - 5.3 / 2.9 - 3.1	1.630	1.310
EC 4-04 SSB21360M1				EC 4-04 SSB21310T1			

EC2, EC 4, MATERIAL SC [60Hz]



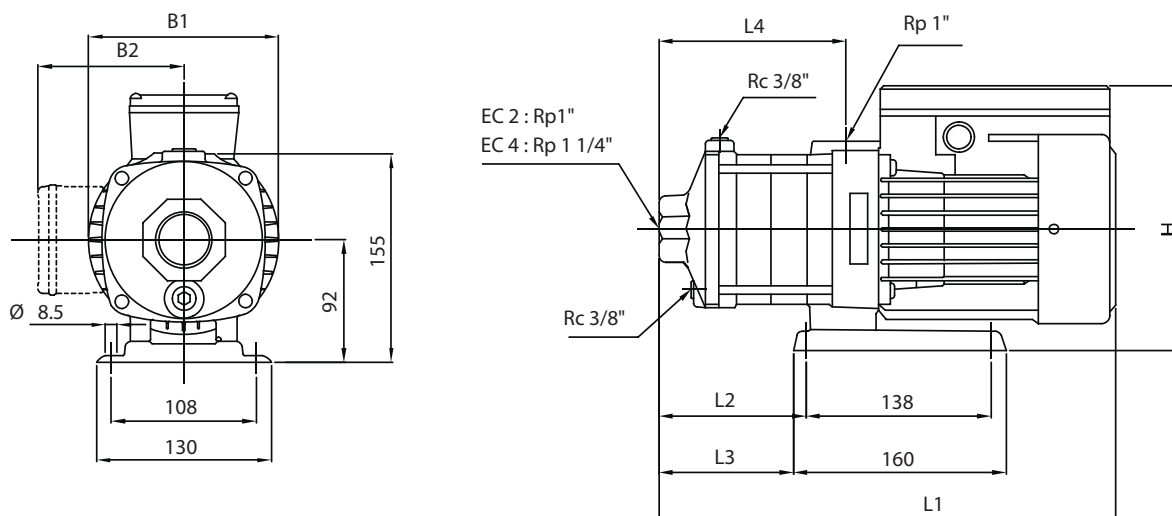
EC 2 & EC4, Material SC, 1Φ Single phase motor [60Hz]

Pump Type	Dimension (mm) [with 1Φ single phase motor]							Net weight (KG)
	L1	L2	L3	L4	B1	B2	H	
EC 2-02 SCB20460M1	309	75	63	101	141	127	228	10.3
EC 2-03 SCB20630M1	327	93	81	119	141	127	228	11.1
EC 2-04 SCB20710M1	345	111	99	137	141	127	228	11.3
EC 2-05 SCB20995M1	403	129	117	155	141	127	228	13.0
EC 2-06 SCB21180M1	421	147	135	173	141	127	228	13.2
EC 4-02 SCB20770M1	318	84	72	110	141	127	228	12.2
EC 4-03 SCB21100M1	384	111	99	137	141	127	228	12.7
EC 4-04 SCB21360M1	412	138	126	164	141	127	228	14.0

EC 2 & EC4, Material SC, 3Φ Three Phase motor,[60Hz]

Pump Type	Dimension (mm) [with 3Φ three phase motor]							Net weight (KG)
	L1	L2	L3	L4	B1	B2	H	
EC 2-02 SCB20430T1	309	75	63	101	141	115	207	10.0
EC 2-03 SCB20540T1	327	93	81	119	141	115	207	10.8
EC 2-04 SCB20725T1	345	111	99	137	141	115	207	11.1
EC 2-05 SCB20940T1	403	129	117	155	141	115	207	12.4
EC 2-06 SCB21060T1	421	147	135	173	141	115	207	12.7
EC 4-02 SCB20720T1	318	84	72	110	141	115	207	10.7
EC 4-03 SCB21050T1	384	111	99	137	141	115	207	12.3
EC 4-04 SCB21310T1	412	138	126	164	141	115	207	13.7

EC2, EC 4, MATERIAL SS [60Hz]



EC 2 & EC4, Material SS, 1Φ Single phase motor [60Hz]

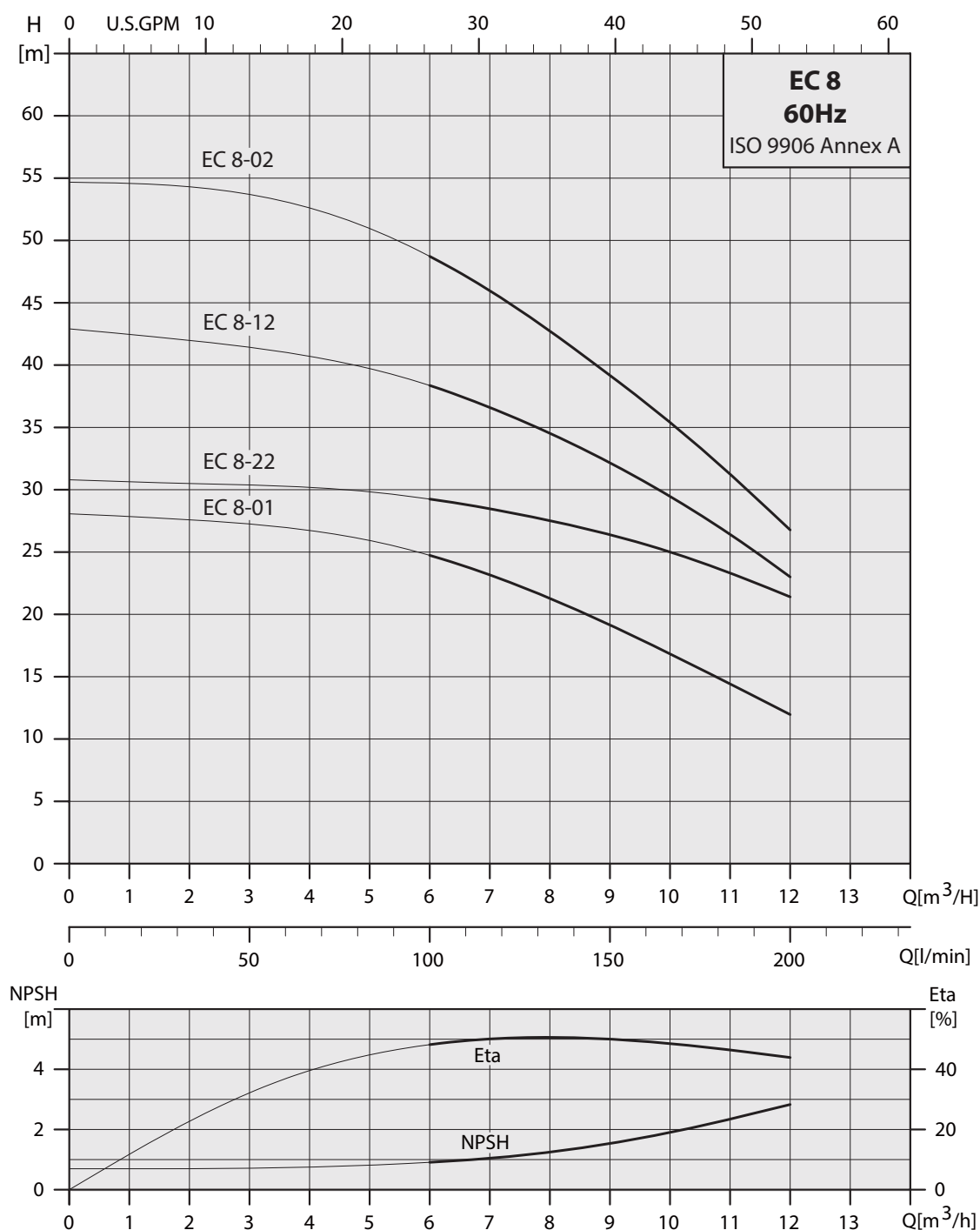
Pump Type	Dimension (mm) [with 1Φ single phase motor]							Net weight (KG)
	L1	L2	L3	L4	B1	B2	H	
EC 2-02 SSB20460M1	309	75	63	101	141	127	228	9.1
EC 2-03 SSB20630M1	327	93	81	119	141	127	228	10.0
EC 2-04 SSB20710M1	345	111	99	137	141	127	228	10.2
EC 2-05 SSB20995M1	403	129	117	155	141	127	228	11.8
EC 2-06 SSB21180M1	421	147	135	173	141	127	228	12.1
EC 4-02 SSB20770M1	318	84	72	110	141	127	228	9.8
EC 4-03 SSB21100M1	384	111	99	137	141	127	228	11.5
EC 4-04 SSB21360M1	412	138	126	164	141	127	228	12.8

EC 2 & EC4, Material SS, 3Φ Three Phase motor,[60Hz]

Pump Type	Dimension (mm) [with 3Φ three phase motor]							Net weight (KG)
	L1	L2	L3	L4	B1	B2	H	
EC 2-02 SSB20430T1	309	75	63	101	141	115	207	8.8
EC 2-03 SSB20540T1	327	93	81	119	141	115	207	9.6
EC 2-04 SSB20725T1	345	111	99	137	141	115	207	10.0
EC 2-05 SSB20940T1	403	129	117	155	141	115	207	11.5
EC 2-06 SSB21060T1	421	147	135	173	141	115	207	11.7
EC 4-02 SSB20720T1	318	84	72	110	141	115	207	9.5
EC 4-03 SSB21050T1	384	111	99	137	141	115	207	11.1
EC 4-04 SSB21310T1	412	138	126	164	141	115	207	12.6

PERFORMANCE CURVE, 60Hz

EC 8, [60Hz]



EC 8, 1Φ Single phase motor, 3450 rpm [60Hz]

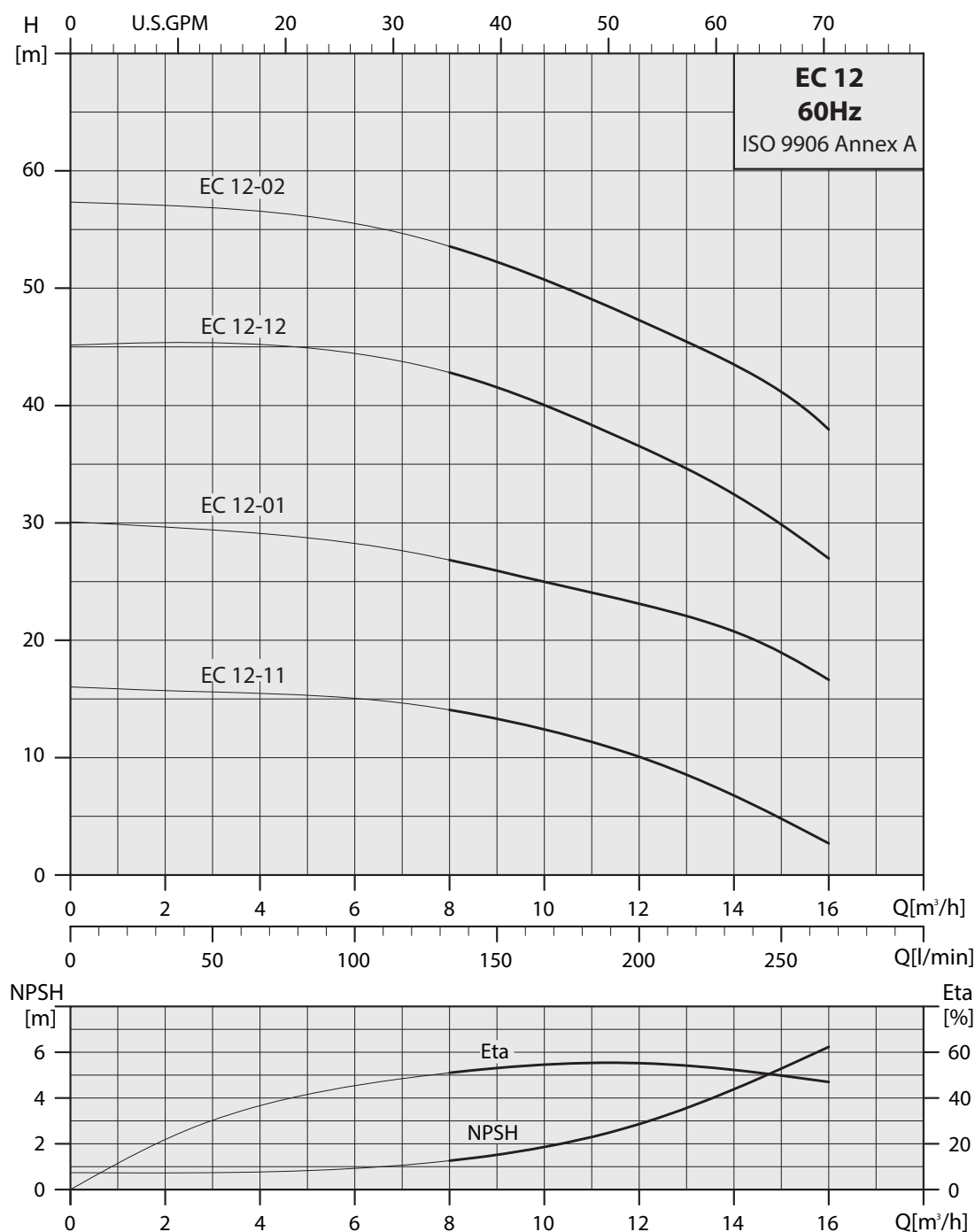
Pump Type	1 Φ 110V / 220V		
	I 1/1 (A)	P1 (Kw)	P2 (Kw)
EC 8-01 SCB21050M1	11.7 / 5.9	1.250	1.050
N/A			
EC 8-12 SCB21510M1	N/A / 8.9	1.830	1.510
EC 8-02 SCB21720M1	N/A / 10.4	2.080	1.720
N/A			

EC 8, 3Φ Three phase motor, 3450 rpm [60Hz]

Pump Type	3 Φ Δ 220-255V / Y380-440V		
	I 1/1 (A)	P1 (Kw)	P2 (Kw)
EC 8-01 SCB21020T1	3.7 - 3.8 / 2.2 - 2.3	1.220	1.020
EC 8-22 SCB21295T1	4.8 - 5.0 / 2.8 - 2.9	1.620	1.295
EC 8-12 SCB21490T1	5.7 - 5.5 / 3.3 - 3.2	1.860	1.490
3 Φ Δ 220-277V / Y380-480V			
EC 8-02 SCB21930T1	6.4 - 5.9 / 3.7 - 3.4	2.340	1.930

PERFORMANCE CURVE, 60Hz

EC12, [60Hz]



EC 12, 1Φ Single phase motor, 3450 rpm [60Hz]

Pump Type	1 Φ 110V / 220V		
	I 1/1 (A)	P1 (Kw)	P2 (Kw)
N/A			
EC 12-01 SCB21750M1	N/A / 9.4	2.120	1.750
N/A			

EC 12, 3Φ Three phase motor, 3450 rpm [60Hz]

Pump Type	3 Φ Δ 220-255V / Y380-440V		
	I 1/1 (A)	P1 (Kw)	P2 (Kw)
EC 12-11 SCB20765T1	3.5 - 3.7 / 2.0 - 2.1	0.910	0.765
EC 12-01 SCB21570T1	6.0 - 5.9 / 3.5 - 3.4	1.960	1.570
Pump Type	3 Φ Δ 220-277V / Y380-480V		
	I 1/1 (A)	P1 (Kw)	P2 (Kw)
EC 12-12 SCB22430T1	8.8 - 10.2 / 5.1 - 5.9	2.940	2.430
EC 12-02 SCB23250T1	11.2 - 11.3 / 6.5 - 6.6	3.810	3.250

EC 8, MATERIAL SC, [60Hz]

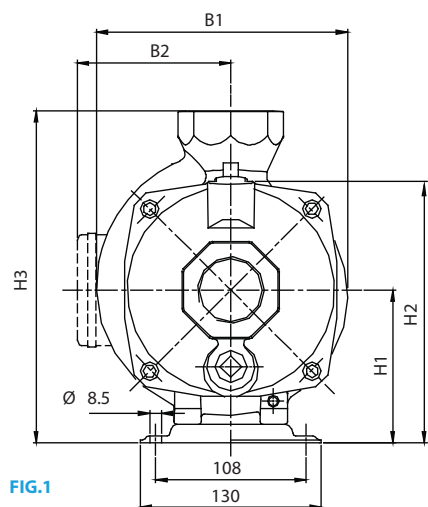


FIG.1

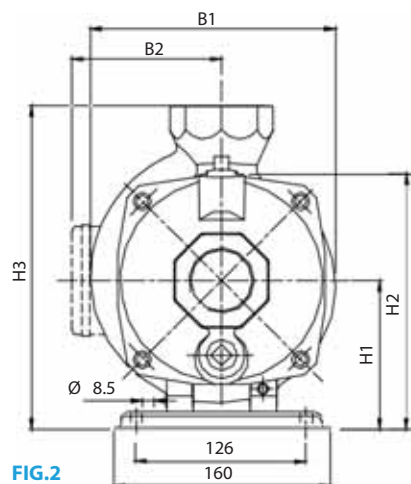
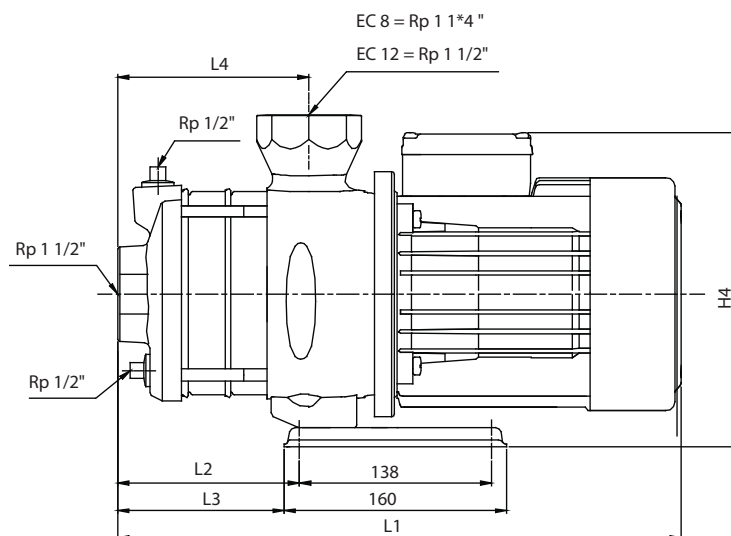
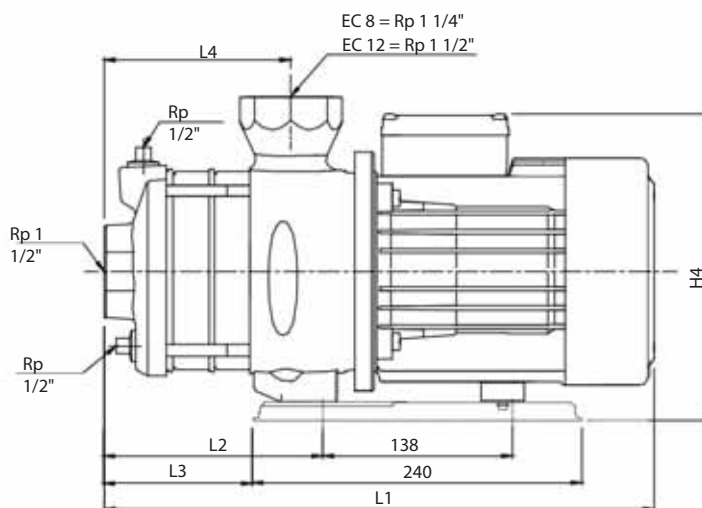


FIG.2



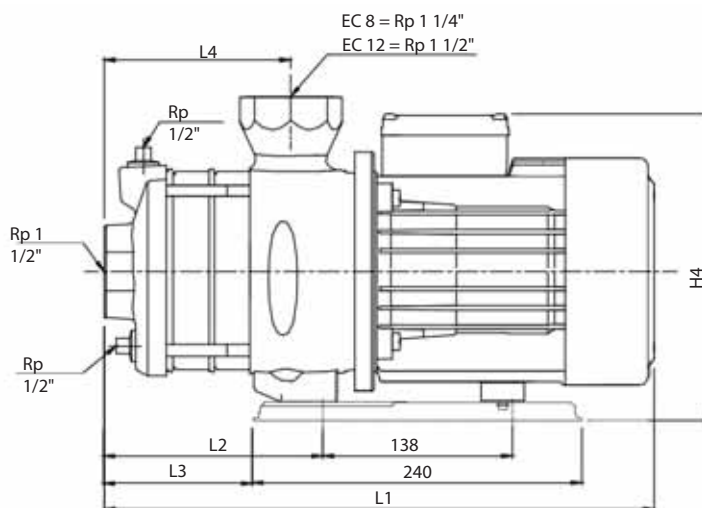
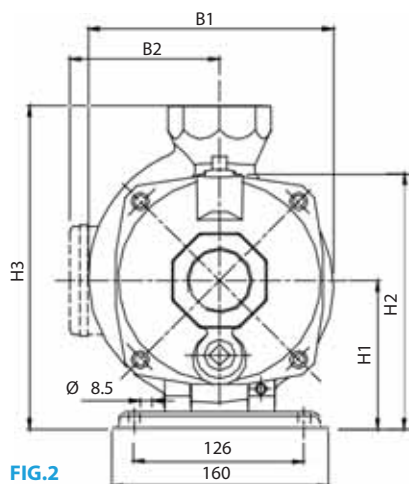
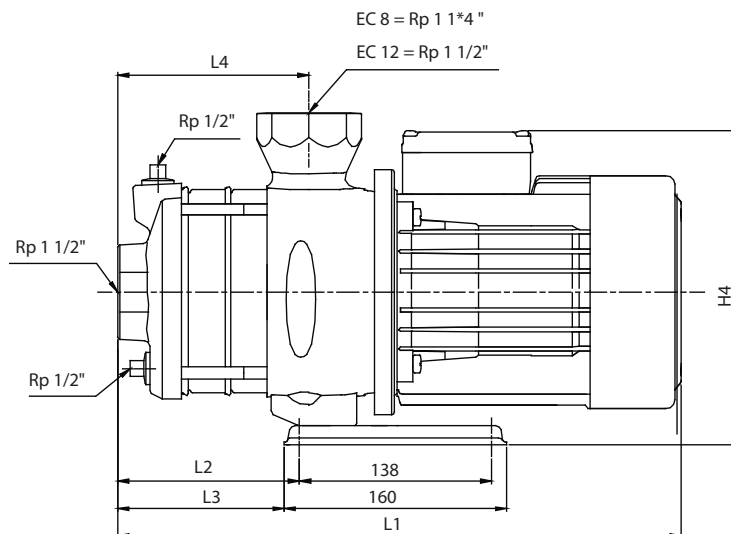
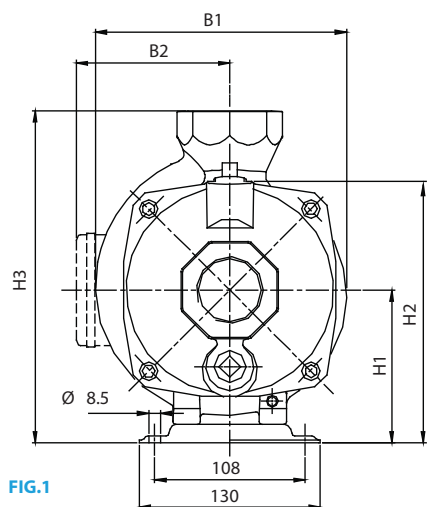
EC 8, Material SC, 1Φ Single phase motor,[60Hz]

Pump Type	Dimension (mm) [1Φ Single Phase Motor]										refer to dwg Fig.	Net weight (KG)
	L1	L2	L3	L4	B1	B2	H1	H2	H3	H4		
EC 8-01 SCB21050M1	360	54	41	77	181	135	110	187	239	245	FIG.1	18.6
EC 8-12 SCB21510M1	450	132	81	107	185	152	110	187	239	262	FIG.2	26.6
EC 8-02 SCB21720M1	450	132	81	107	185	152	110	187	239	262	FIG.2	26.8

EC 8, Material SC, 3Φ Three phase motor,[60Hz]

Pump Type	Dimension (mm) [with 3Φ Three phase motor]										refer to dwg Fig.	Net weight (KG)
	L1	L2	L3	L4	B1	B2	H1	H2	H3	H4		
EC 8-01 SCB21020T1	360	54	41	77	181	114	110	187	239	224	FIG.1	18.4
EC 8-22 SCB21295T1	390	84	71	107	181	114	110	187	239	224	FIG.1	20.3
EC 8-12 SCB21490T1	390	84	71	107	181	114	110	187	239	224	FIG.1	20.4
EC 8-02 SCB21930T1	450	132	81	107	185	139	110	187	239	224	FIG.2	26.8

EC 12, MATERIAL SC, [60Hz]



EC 12, Material SC, 1Φ Single phase motor,[60Hz]

Pump Type	Dimension (mm) [1Φ Single Phase Motor]										refer to dwg Fig.	Net weight (KG)
	L1	L2	L3	L4	B1	B2	H1	H2	H3	H4		
EC 12-01 SCB21750M1	420	102	51	77	185	152	110	187	239	262	FIG.2	25.8

EC 12, Material SC, 3Φ Three phase motor,[60Hz]

Pump Type	Dimension (mm) [with 3Φ Three phase motor]										refer to dwg Fig.	Net weight (KG)
	L1	L2	L3	L4	B1	B2	H1	H2	H3	H4		
EC 12-11 SCB20765T1	360	54	41	77	181	114	110	187	239	224	FIG.1	16.2
EC 12-01 SCB21570T1	360	54	41	77	181	114	110	187	239	224	FIG.1	19.1
EC 12-12 SCB22430T1	450	132	81	107	185	139	110	187	239	249	FIG.2	28.9
EC 12-02 SCB23250T1	471	132	81	107	196	150	122	199	251	272	FIG.2	34.2

INTRODUCTION

PUMP

DESCRIPTION

EH Series are non-self priming, horizontal multistage centrifugal pumps. Pump is couple with motor at the same shaft and mounted on a base-plate. The pump is made of stainless steel and fitted with a mechanical shaft seal.

MATERIAL

- **SS** : Pump casing - SS304, Chamber - SS304, Impeller - SS304; Shaft - SS431.
- **KK** : Pump casing - SS316, Chamber - SS316, Impeller - SS316; Shaft - SS316.

OPERATION CONDITIONS

- Flow rate (Q) : Up to 14 m³/h
- Head (H) : Up to 55m
- Speed : 2850 rpm (50Hz)
3450 rpm (60Hz)
- Liquid temperature range : 0°C ~ +110°C
- Maximum ambient temperature : +40°C
- Maximum Operation Pressure : 10 kg/cm²
- Maximum inlet pressure : limited by maximum operation pressure.

LIQUIDS TO BE PUMPED

These pumps are designed for pumping freely flowing non-corrosive, non-explosive, and non-flammable liquids. The liquids to be pumped must also be free of solid matter, sands, fibers, and similar materials. Most common non-highly corrosive watery liquids, oily liquids, hot and cold liquids can be pumped with these pumps.

The suitability of these pumps for pumping any particular liquid depends upon a number of factors, such as the PH value, contents of chemicals such as chlorides, oils, the temperature of the liquids, etc..

Please contact your distributor or the factory if there are any questions as to whether certain liquids are suitable for pumping with these pumps.

PIPE CONNECTIONS

Connections	EH 2	EH 4	EH8	EH 12
Suction Port	Rp 1"	Rp 1 1/4"	Rp 1 1/2"	Rp 1 1/2"
Discharge port	Rp 1"	Rp 1 1/4"	Rp 1 1/2"	Rp 1 1/2"
Drain hole, Priming hole.	G 3/8"	G 3/8"	G 3/8"	G 3/8"

APPLICATIONS

EH SERIES can be used for the following services:

- Water supply and pressure boosting.
- Water Treatment.
- Heating and cooling in industrial process.
- Industrial Washing and dish-washing machine.
- Softened water.
- Pressure boosting of process water.
- Fertilizer / dosing systems.
- Air-conditioning systems.



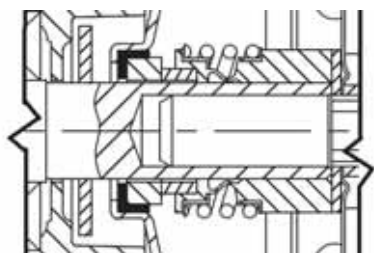
INTRODUCTION

MECHANICAL SEALS

List of Material mechanical seals.

List of Material Mechanical Seal		
Seal Type	Seal Material	O-ring
R = Seal Type	Q = Silicon carbide	E = EPDM
	B = Carbon	V = Viton

SEAL TYPE



R = Seal Type

EH series mechanical seals.

Mechanical Seals	EH 2 SS, EH4 SS	EH 8 SS, EH 12 SS	EH 2 KK, EH 4 KK	EH 8 KK, EH 12 KK
RQBE	•	•	N/A	N/A
RQQE	Optional	Optional	•	•
RQBV	Optional	Optional	Optional	Optional
RQQV	Optional	Optional	Optional	Optional

• = Standard ; N/A = Not available

MOTOR

DESCRIPTION

Totally enclosed, fan-cooled standard motor.

Phase : Single Phase (1 Φ) or Three phase (3 Φ)

Rated speed : 2850 rpm (50Hz)
3450 rpm (60Hz)

Enclosure class : IP 54

Insulation Class : F

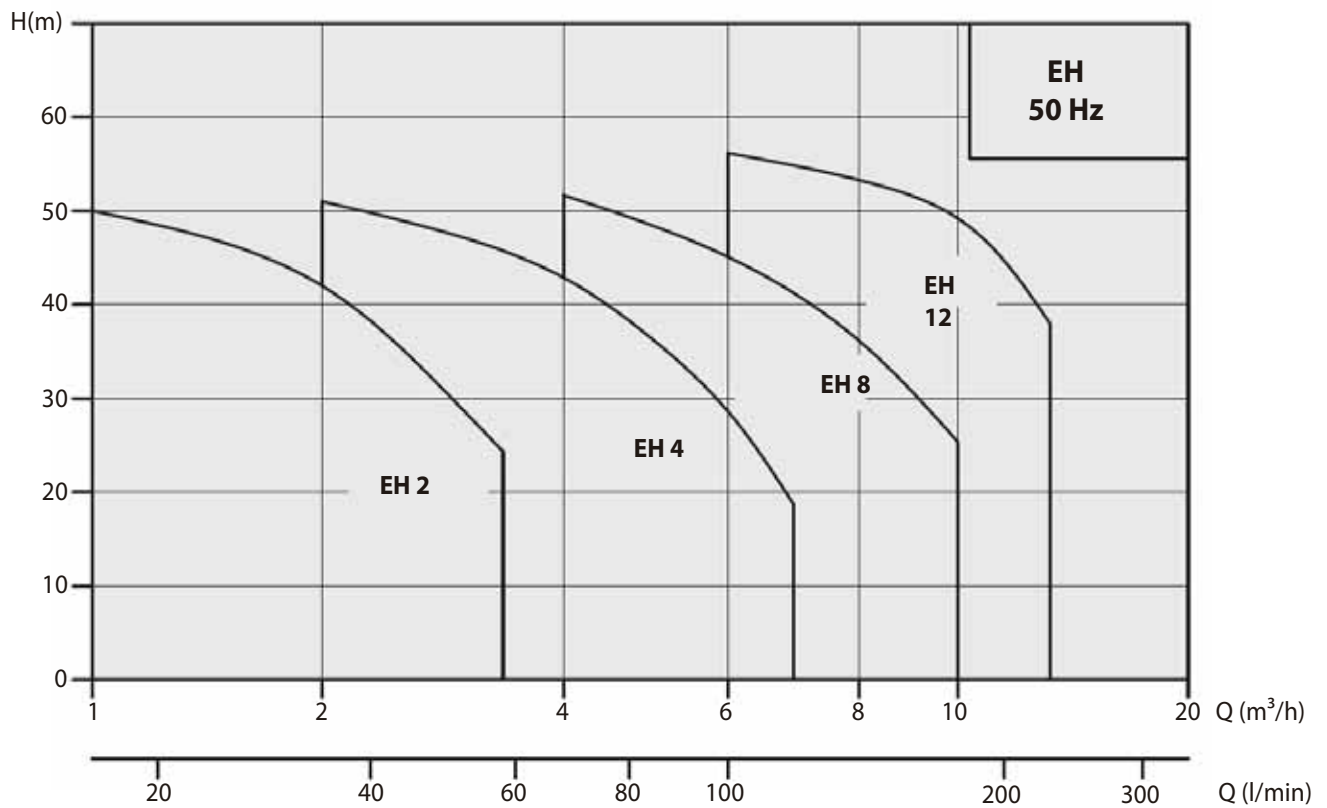


STANDARD VOLTAGES

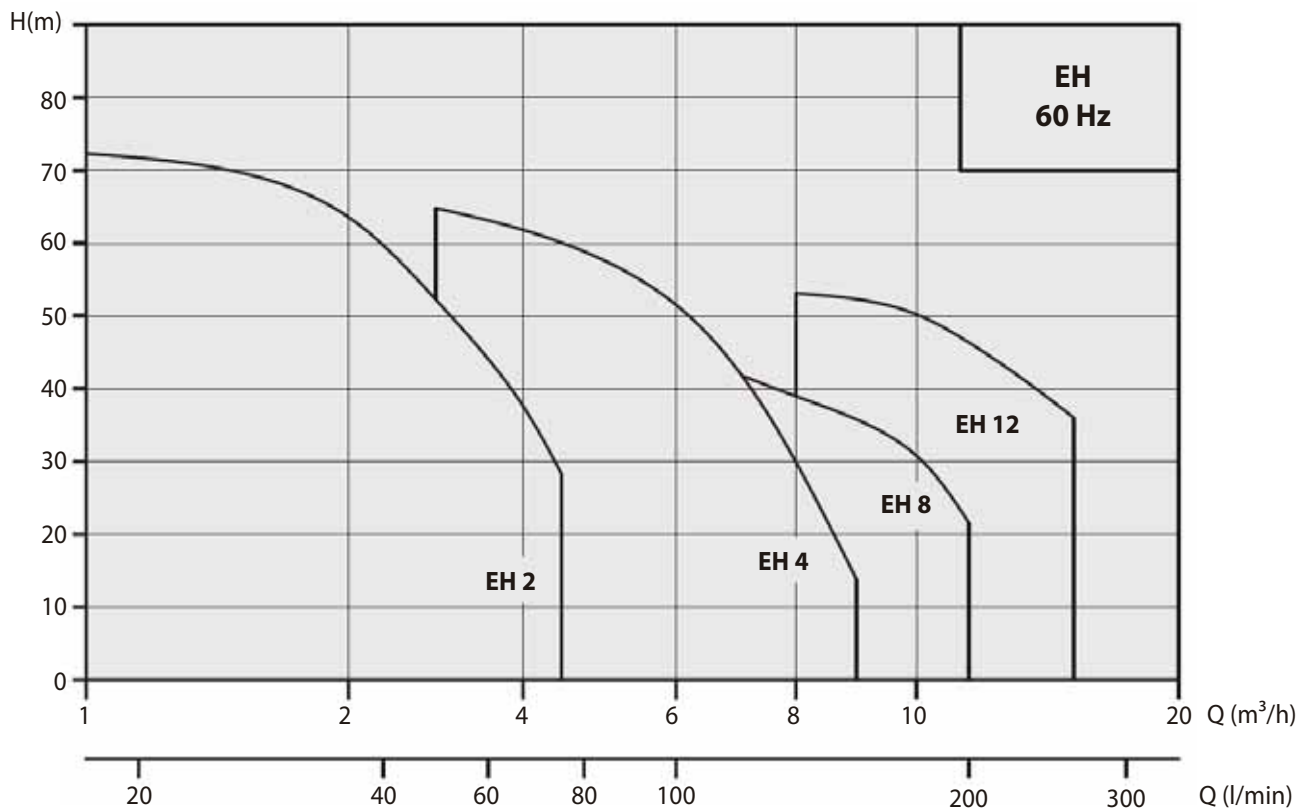
Hz	Phase	Voltage
50 Hz	1 Φ	220V-240V
	3 Φ	220V-240V / 380V-415V
60 Hz	1 Φ	110V / 220V
		220V-240V
	3 Φ	220V-255V / 380V-440V
		220V-277V / 380V-480V

FAMILY CURVE

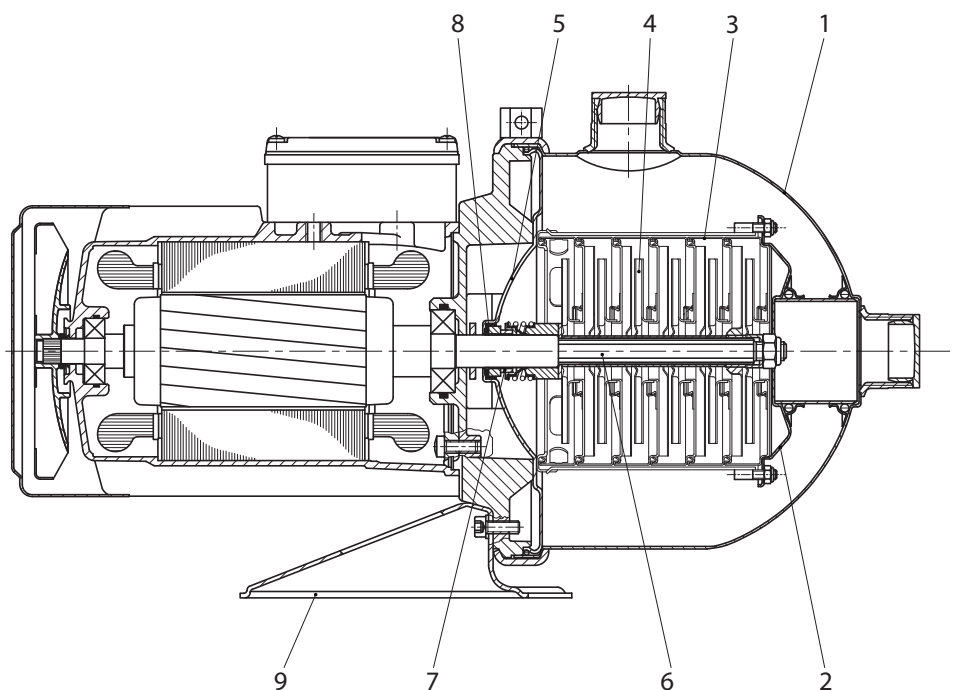
PERFORMANCE RANGE, 50Hz



PERFORMANCE RANGE, 60Hz



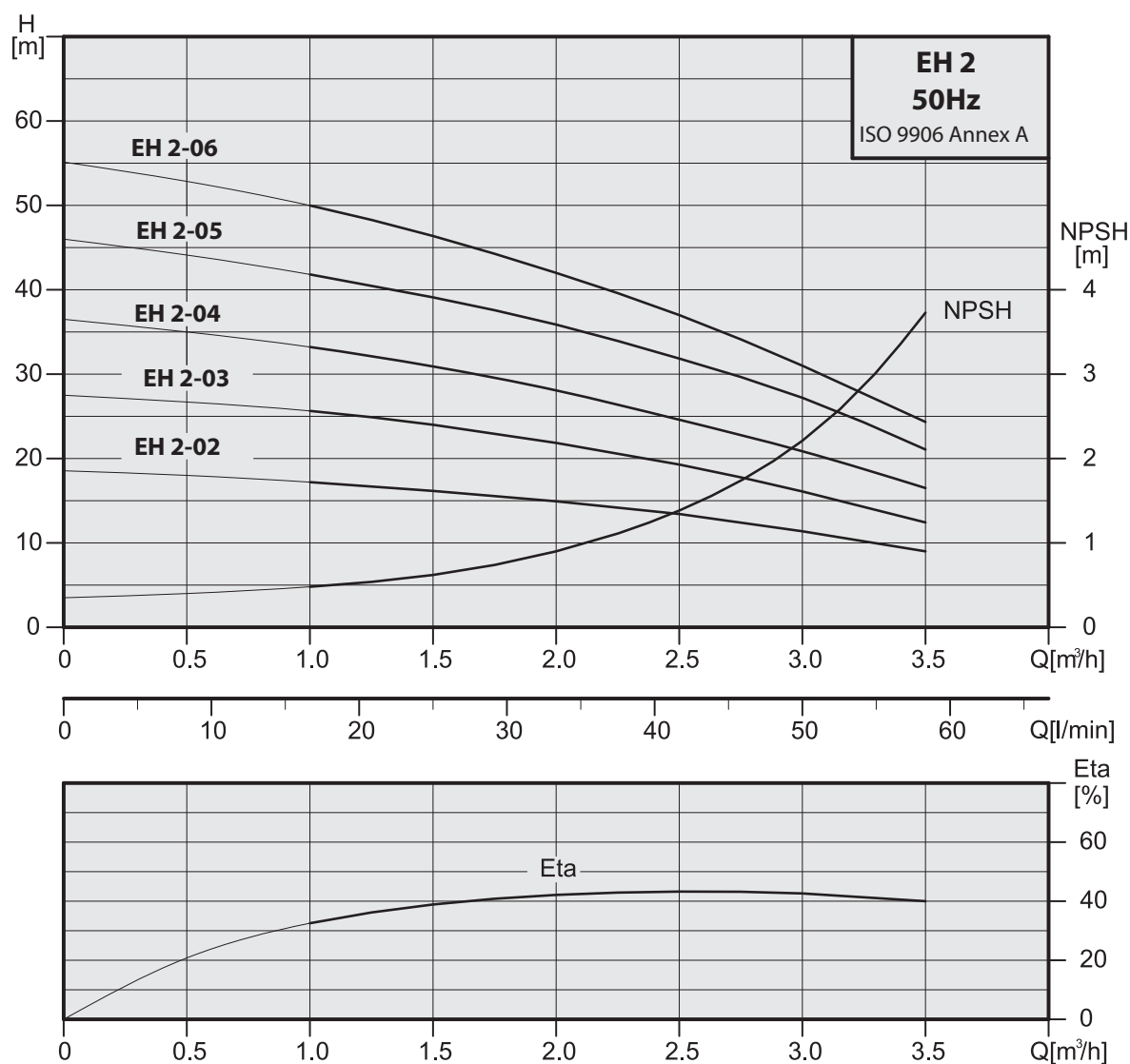
MATERIAL CONSTRUCTION



Pos.	Description	Materials	
		EH SS	EH KK
1	Pump casing	SS 304	SS 316
2	Suction inter-connector	SS 304	SS 316
3	Chamber	SS 304	SS 316
4	Impeller	SS 304	SS 316
5	Cover plate	SS 304	SS 316
6	Shaft	SS 431	SS 316
7	Mechanical Seal	SIC / Carbon	SIC / SIC
8	O-Ring	EPDM	EPDM
9	Base plate	Steel	Steel

PERFORMANCE CURVE, 50Hz

EH 2, [50Hz]



EH 2, 1Φ Single phase motor, 2850 rpm [50Hz]

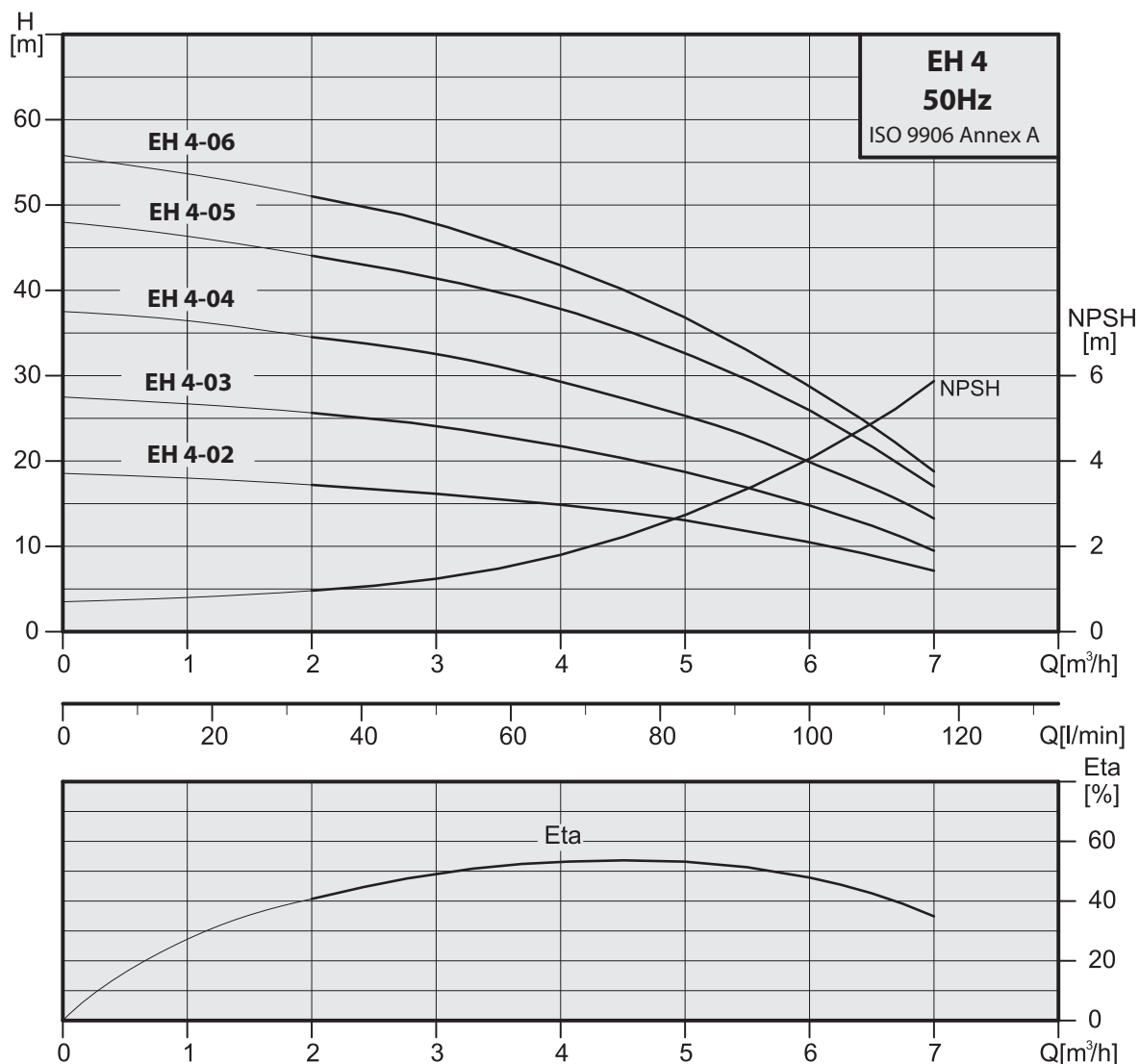
Pump Type	1 Φ 220-240V		
	I _{1/1} (A)	P ₁ (Kw)	P ₂ (Kw)
EH 2-02 SSA20280M1	1.7 - 1.9	0.360	0.280
EH 2-02 KKA20280M1			
EH 2-03 SSA20365M1	2.3 - 2.2	0.470	0.365
EH 2-03 KKA20365M1			
EH 2-04 SSA20455M1	2.7 - 2.6	0.580	0.455
EH 2-04 KKA20455M1			
EH 2-05 SSA20550M1	3.2 - 3.3	0.720	0.550
EH 2-05 KKA20550M1			
EH 2-06 SSA20635M1	3.8 - 3.6	0.830	0.635
EH 2-06 KKA20635M1			

EH 2, 3Φ Three phase motor, 2850 rpm [50Hz]

Pump Type	3 Φ Δ 220-240V / Y380-415V		
	I _{1/1} (A)	P ₁ (Kw)	P ₂ (Kw)
EH 2-02 SSA20290T1	2.0 - 2.7 / 1.2 - 1.6	0.370	0.290
EH 2-02 KKA20290T1			
EH 2-03 SSA20430T1	2.4 - 2.8 / 1.4 - 1.6	0.550	0.430
EH 2-03 KKA20430T1			
EH 2-04 SSA20505T1	2.4 - 2.7 / 1.4 - 1.6	0.650	0.505
EH 2-04 KKA20505T1			
EH 2-05 SSA20620T1	2.7 - 3.0 / 1.6 - 1.8	0.810	0.620
EH 2-05 KKA20620T1			
EH 2-06 SSA20690T1	2.9 - 3.3 / 1.7 - 1.9	0.910	0.690
EH 2-06 KKA20690T1			

PERFORMANCE CURVE, 50Hz

EH 4, [50Hz]



EH 4, 1Φ Single phase motor, 2850 rpm [50Hz]

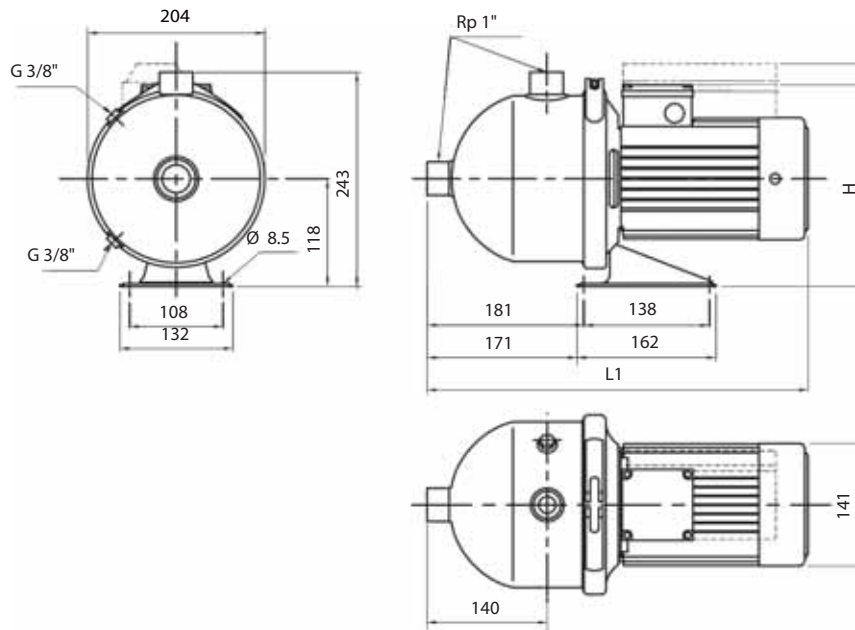
Pump Type	1 Φ 220-240V		
	I _{1/1} (A)	P ₁ (Kw)	P ₂ (Kw)
EH 4-02 SSA20450M1	2.7 - 2.6	0.580	0.450
EH 4-02 KKA20450M1			
EH 4-03 SSA20635M1	3.9 - 3.7	0.820	0.635
EH 4-03 KKA20635M1			
EH 4-04 SSA20765M1	4.6 - 4.4	1.000	0.765
EH 4-04 KKA20765M1			
EH 4-05 SSA21005M1	5.8 - 5.5	1.240	1.005
EH 4-05 KKA21005M1			
EH 4-06 SSA21210M1	7.1 - 6.9	1.510	1.210
EH 4-06 KKA21210M1			

EH 4, 3Φ Three phase motor, 2850 rpm [50Hz]

Pump Type	3 Φ Δ 220-240V / Y380-415V		
	I _{1/1} (A)	P ₁ (Kw)	P ₂ (Kw)
EH 4-02 SSA20515T1	2.5 - 2.9 / 1.5 - 1.7	0.660	0.515
EH 4-02 KKA20515T1			
EH 4-03 SSA20650T1	2.8 - 3.0 / 1.6 - 1.7	0.850	0.650
EH 4-03 KKA20650T1			
EH 4-04 SSA20810T1	3.3 - 3.5 / 1.9 - 2.0	1.060	0.810
EH 4-04 KKA20810T1			
EH 4-05 SSA21060T1	4.2 - 4.5 / 2.4 - 2.6	1.310	1.060
EH 4-05 KKA21060T1			
EH 4-06 SSA21230T1	5.2 - 5.6 / 3.0 - 3.3	1.550	1.230
EH 4-06 KKA21230T1			

DIMESNION, 50Hz

EH 2, MATERIAL SS & KK, [50Hz]



EH 2, Material SS & KK , 1Φ Single phase motor,[50Hz]

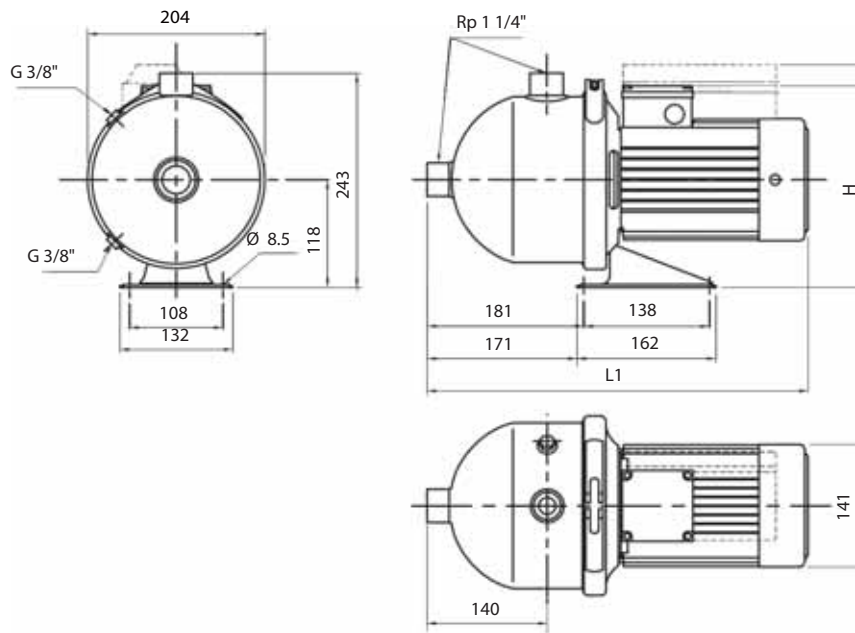
Pump Type	Dimension (mm)		Net weight (KG)
	1 Φ (Single phase)		
	L1	H	
EH 2-02 SSA20280M1	403	255	9.6
EH 2-02 KKA20280M1			
EH 2-03 SSA20365M1	403	255	9.9
EH 2-03 KKA20365M1			
EH 2-04 SSA20455M1	403	255	10.1
EH 2-04 KKA20455M1			
EH 2-05 SSA20550M1	403	255	10.8
EH 2-05 KKA20550M1			
EH 2-06 SSA20635M1	403	255	11.0
EH 2-06 KKA20635M1			

EH 2, Material SS & KK , 3Φ Three phase motor,[50Hz]

Pump Type	Dimension (mm)		Net weight (KG)
	3 Φ (Three phase)		
	L1	H	
EH 2-02 SSA20290T1	403	233	9.6
EH 2-02 KKA20290T1			
EH 2-03 SSA20430T1	403	233	9.9
EH 2-03 KKA20430T1			
EH 2-04 SSA20505T1	403	233	10.1
EH 2-04 KKA20505T1			
EH 2-05 SSA20620T1	403	233	10.8
EH 2-05 KKA20620T1			
EH 2-06 SSA20690T1	403	233	11.0
EH 2-06 KKA20690T1			

DIMESNION, 50Hz

EH 4, MATERIAL SS & KK, [50Hz]



EH 4, Material SS & KK , 1Φ Single phase motor,[50Hz]

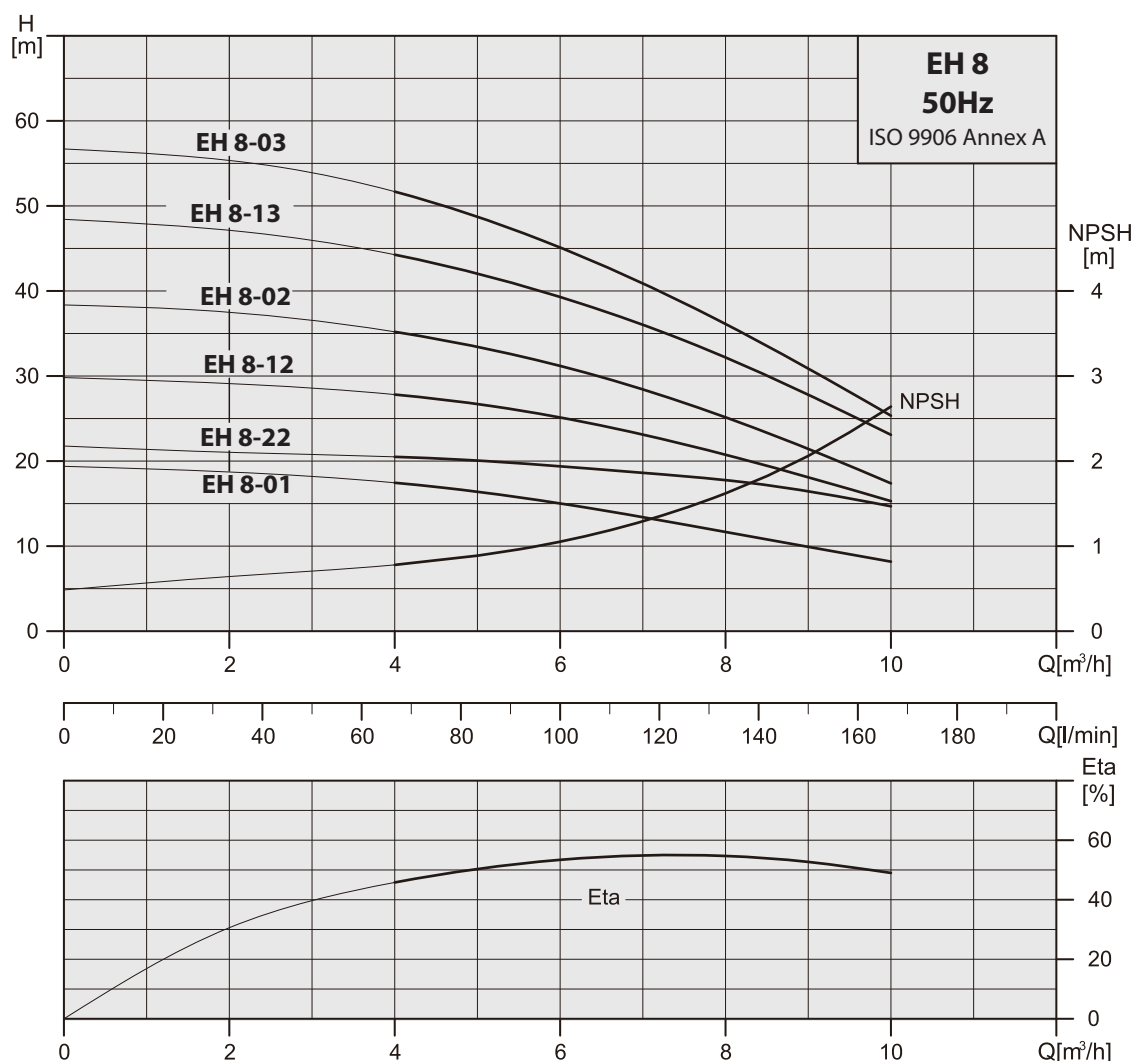
Pump Type	Dimension (mm)		Net weight (KG)
	1 Φ (Single phase)		
	L1	H	
EH 4-02 SSA20450M1	403	255	9.6
EH 4-02 KKA20450M1			
EH 4-03 SSA20635M1	403	255	9.9
EH 4-03 KKA20635M1			
EH 4-04 SSA20765M1	403	255	10.6
EH 4-04 KKA20765M1			
EH 4-05 SSA21005M1	441	255	12.1
EH 4-05 KKA21005M1			
EH 4-06 SSA21210M1	441	255	12.3
EH 4-06 KKA21210M1			

EH 4, Material SS & KK , 3Φ Three phase motor,[50Hz]

Pump Type	Dimension (mm)		Net weight (KG)
	3 Φ (3 phase)		
	L1	H	
EH 4-02 SSA20515T1	403	233	9.6
EH 4-02 KKA20515T1			
EH 4-03 SSA20650T1	403	233	9.9
EH 4-03 KKA20650T1			
EH 4-04 SSA20810T1	403	233	10.6
EH 4-04 KKA20810T1			
EH 4-05 SSA21060T1	441	233	12.1
EH 4-05 KKA21060T1			
EH 4-06 SSA21230T1	441	233	12.3
EH 4-06 KKA21230T1			

PERFORMANCE CURVE, 50Hz

EH 8, [50Hz]



EH 8, 1Φ Single phase motor, 2850 rpm [50Hz]

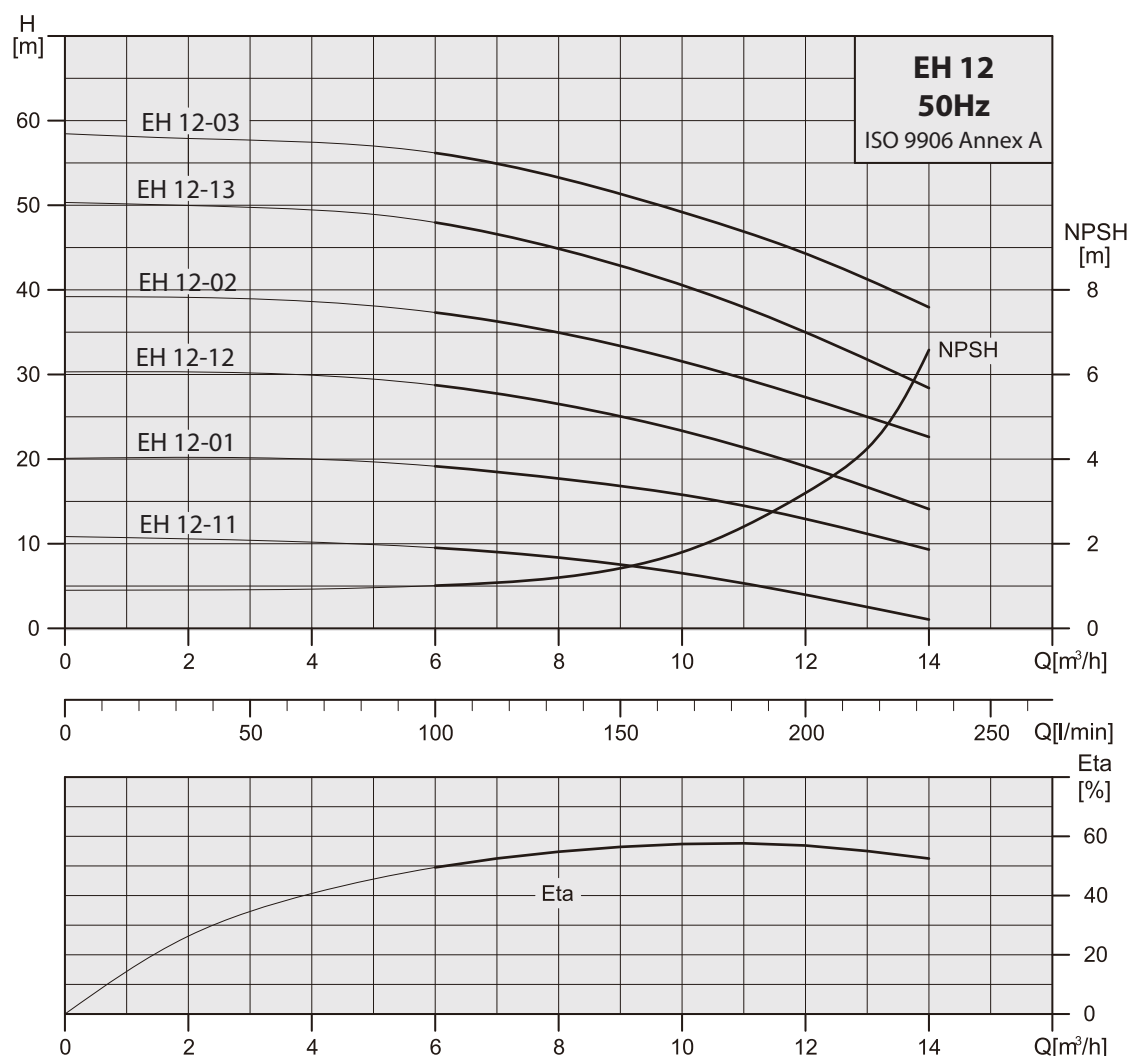
Pump Type	1 Φ 220-240V		
	I 1/1 (A)	P ₁ (Kw)	P ₂ (Kw)
EH 8-01 SSA20580M1	3.3 - 3.1	0.760	0.580
EH 8-01 KKA20580M1			
N/A			
EH 8-12 SSA20930M1	5.3 - 5.1	1.150	0.930
EH 8-12 KKA20930M1			
EH 8-02 SSA21130M1	6.8 - 6.6	1.420	1.130
EH 8-02 KKA21130M1			
EH 8-13 SSA21560M1	8.1 - 7.9	1.880	1.560
EH 8-13 KKA21560M1			
EH 8-03 SSA21750M1	9.1 - 9.0	2.100	1.750
EH 8-03 KKA21750M1			

EH 8, 3Φ Three phase motor, 2850 rpm [50Hz]

Pump Type	3 Φ Δ 220-240V / Y380-415V		
	I _{1/1} (A)	P ₁ (Kw)	P ₂ (Kw)
EH 8-01 SSA20620T1	2.7 - 3.1 / 1.6 - 1.8	0.810	0.620
EH 8-01 KKA20620T1			
EH 8-22 SSA20910T1	4.2 - 4.5 / 2.4 - 2.6	1.120	0.910
EH 8-22 KKA20910T1			
EH 8-12 SSA20965T1	3.9 - 4.4 / 2.3 - 2.6	1.190	0.965
EH 8-12 KKA20965T1			
EH 8-02 SSA21150T1	5.0 - 5.5 / 2.9 - 3.2	1.450	1.150
EH 8-02 KKA21150T1			
EH 8-13 SSA21460T1	5.8 - 6.5 / 3.4 - 3.8	1.840	1.460
EH 8-13 KKA21460T1			
EH 8-03 SSA21710T1	6.4 - 6.9 / 3.7 - 4.0	2.050	1.710
EH 8-03 KKA21710T1			

PERFORMANCE CURVE, 50Hz

EH 12, [50Hz]



EH 12, 1Φ Single phase motor, 2850 rpm [50Hz]

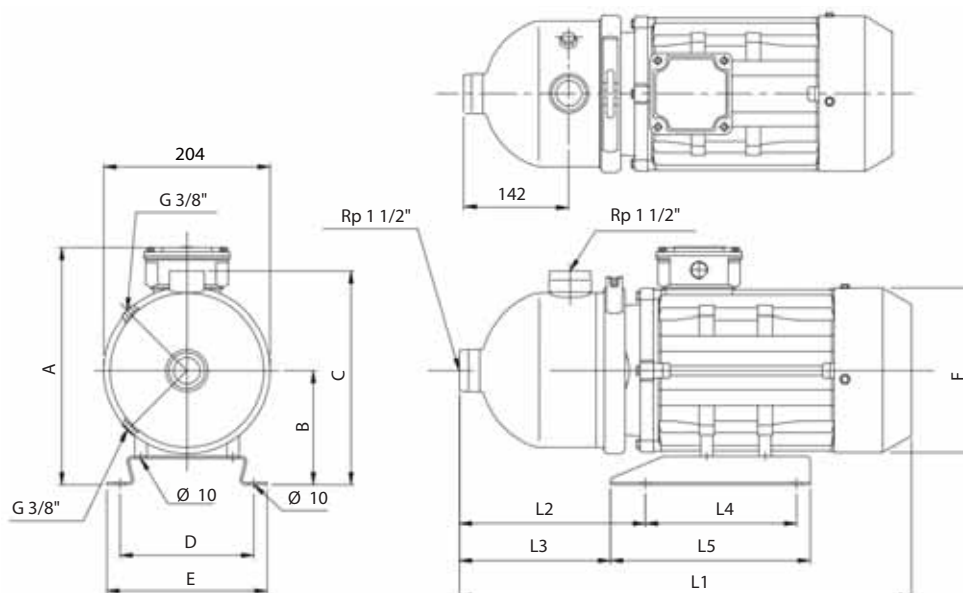
Pump Type	1 Φ 220-240V		
	I 1/1 (A)	P ₁ (Kw)	P ₂ (Kw)
N/A			
EH 12-01 SSA20945M1	5.3 - 5.1	1.170	0.945
EH 12-01 KKA20945M1			
EH 12-12 SSA21310M1	7.6 - 7.5	1.650	1.310
EH 12-12 KKA21310M1			
EH 12-02 SSA21925M1	10.6 - 10.4	2.310	1.925
EH 12-02 KKA21925M1			
EH 12-13 SSA22510M1	13.1 - 12.7	2.980	2.510
EH 12-13 KKA22510M1			
N/A			

EH 12, 3Φ Three phase motor, 2850 rpm [50Hz]

Pump Type	3 Φ Δ 220-240V / Y380-415V		
	I _{1/1} (A)	P ₁ (Kw)	P ₂ (Kw)
EH 12-11 SSA20425T1	2.4 - 2.8 / 1.4 - 1.6	0.550	0.425
EH 12-11 KKA20425T1			
EH 12-01 SSA20965T1	3.6 - 3.8 / 2.1 - 2.2	1.190	0.965
EH 12-01 KKA20965T1			
EH 12-12 SSA21345T1	5.5 - 6.0 / 3.2 - 3.5	1.690	1.345
EH 12-12 KKA21345T1			
EH 12-02 SSA21960T1	7.0 - 7.4 / 4.0 - 4.3	2.350	1.960
EH 12-02 KKA21960T1			
EH 12-13 SSA22420T1	9.0 - 9.3 / 5.2 - 5.4	2.880	2.420
EH 12-13 KKA22420T1			
EH 12-03 SSA23110T1	11.7 - 12.1 / 6.8 - 7.0	3.610	3.110
EH 12-03 KKA23110T1			

DIMESNION, 50Hz

EH 8, MATERIAL SS & KK, [50Hz]



EH 8 ,Material SS & KK, 1Φ Single phase motor,[50Hz]

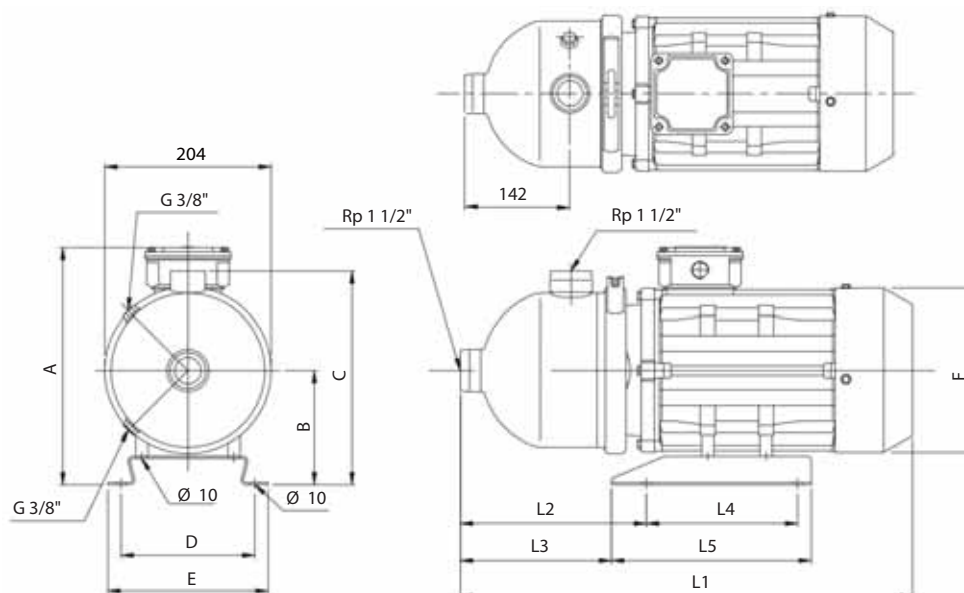
Pump Type	Dimension (mm) [1Φ Single Phase Motor]											Net Weight (KG)
	L1	L2	L3	L4	L5	A	B	C	D	E	F	
EH 8-01 SSA20580M1	403	181	171	138	162	255	118	243	108	132	141	10.20
EH 8-01 KKA20580M1												
EH 8-12 SSA20930M1	441	181	171	138	162	255	118	243	108	132	141	12.28
EH 8-12 KKA20930M1												
EH 8-02 SSA21130M1	441	181	171	138	162	255	118	243	108	132	141	13.54
EH 8-02 KKA21130M1												
EH 8-13 SSA21560M1	514	200	180	195	235	267	121	245	158	178	177	23.08
EH 8-13 KKA21560M1												
EH 8-03 SSA21750M1	514	200	180	195	235	267	121	245	158	178	177	23.14
EH 8-03 KKA21750M1												

EH 8 ,Material SS & KK, 3Φ Three phase motor,[50Hz]

Pump Type	Dimension (mm) [3Φ Three Phase Motor]											Net Weight (KG)
	L1	L2	L3	L4	L5	A	B	C	D	E	F	
EH 8-01 SSA20620T1	403	181	171	138	162	233	118	243	108	132	141	10.02
EH 8-01 KKA20620T1												
EH 8-22 SSA20910T1	441	181	171	138	162	233	118	243	108	132	141	11.98
EH 8-22 KKA20910T1												
EH 8-12 SSA20965T1	441	181	171	138	162	233	118	243	108	132	141	12.08
EH 8-12 KKA20965T1												
EH 8-02 SSA21150T1	441	181	171	138	162	233	118	243	108	132	141	13.34
EH 8-02 KKA21150T1												
EH 8-13 SSA21460T1	441	181	171	138	162	233	118	243	108	132	141	13.92
EH 8-13 KKA21460T1												
EH 8-03 SSA21710T1	514	200	180	195	235	261	121	245	158	178	177	22.22
EH 8-03 KKA21710T1												

DIMESNION, 50Hz

EH 12, MATERIAL SS & KK, [50Hz]



EH 12 ,Material SS & KK, 1Φ Single phase motor,[50Hz]

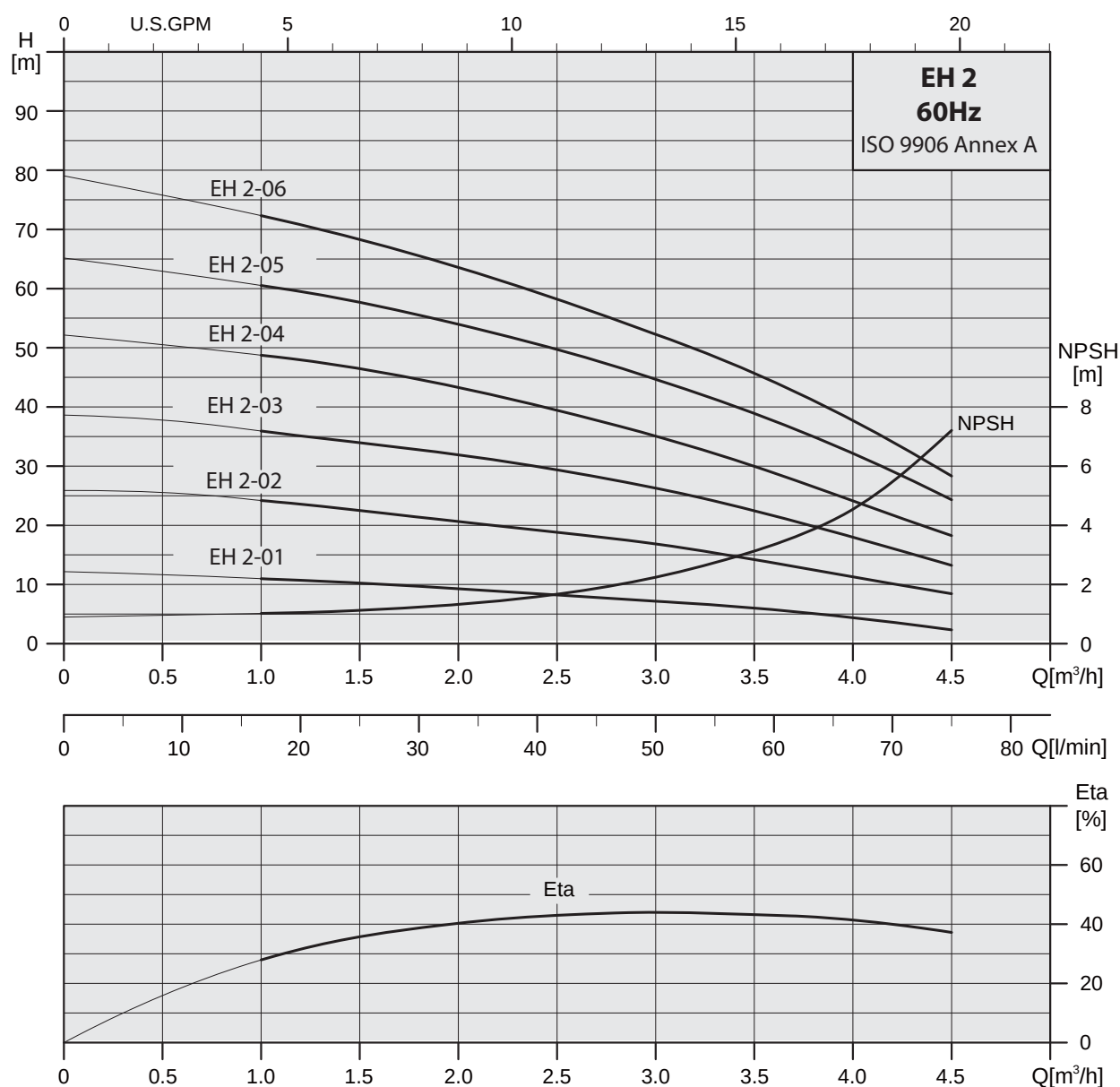
Pump Type	Dimension (mm) [1 Φ Single Phase Motor]											Net Weight (KG)
	L1	L2	L3	L4	L5	A	B	C	D	E	F	
EH 12-01 SSA20945M1	441	181	171	138	162	255	118	243	108	132	141	11.72
EH 12-01 KKA20945M1												
EH 12-12 SSA21310M1	441	181	171	138	162	255	118	243	108	132	141	13.38
EH 12-12 KKA21310M1												
EH 12-02 SSA21925M1	514	200	180	195	235	267	121	245	158	178	177	22.52
EH 12-02 KKA21925M1												
EH 12-13 SSA22510M1	514	200	180	195	235	267	121	245	158	178	177	25.74
EH 12-13 KKA22510M1												

EH 12 , ,Material SS & KK, 3Φ Three phase motor,[50Hz]

Pump Type	Dimension (mm) [3 Φ Three Phase Motor]											Net Weight (KG)
	L1	L2	L3	L4	L5	A	B	C	D	E	F	
EH 12-11 SSA20425T1	403	181	171	138	162	233	118	243	108	132	141	9.41
EH 12-11 KKA20425T1												
EH 12-01 SSA20965T1	441	181	171	138	162	233	118	243	108	132	141	11.52
EH 12-01 KKA20965T1												
EH 12-12 SSA21345T1	441	181	171	138	162	233	118	243	108	132	141	13.18
EH 12-12 KKA21345T1												
EH 12-02 SSA21960T1	514	200	180	195	235	261	121	245	158	178	177	21.48
EH 12-02 KKA21960T1												
EH 12-13 SSA22420T1	514	200	180	195	235	261	121	245	158	178	177	24.36
EH 12-13 KKA22420T1												
EH 12-03 SSA23110T1	539	230	198	195	245	284	133	259	174	198	197	30.20
EH 12-03 KKA23110T1												

PERFORMANCE CURVE, 60Hz

EH 2, [60Hz]



EH 2, 1Φ Single phase motor, 3450 rpm [60Hz]

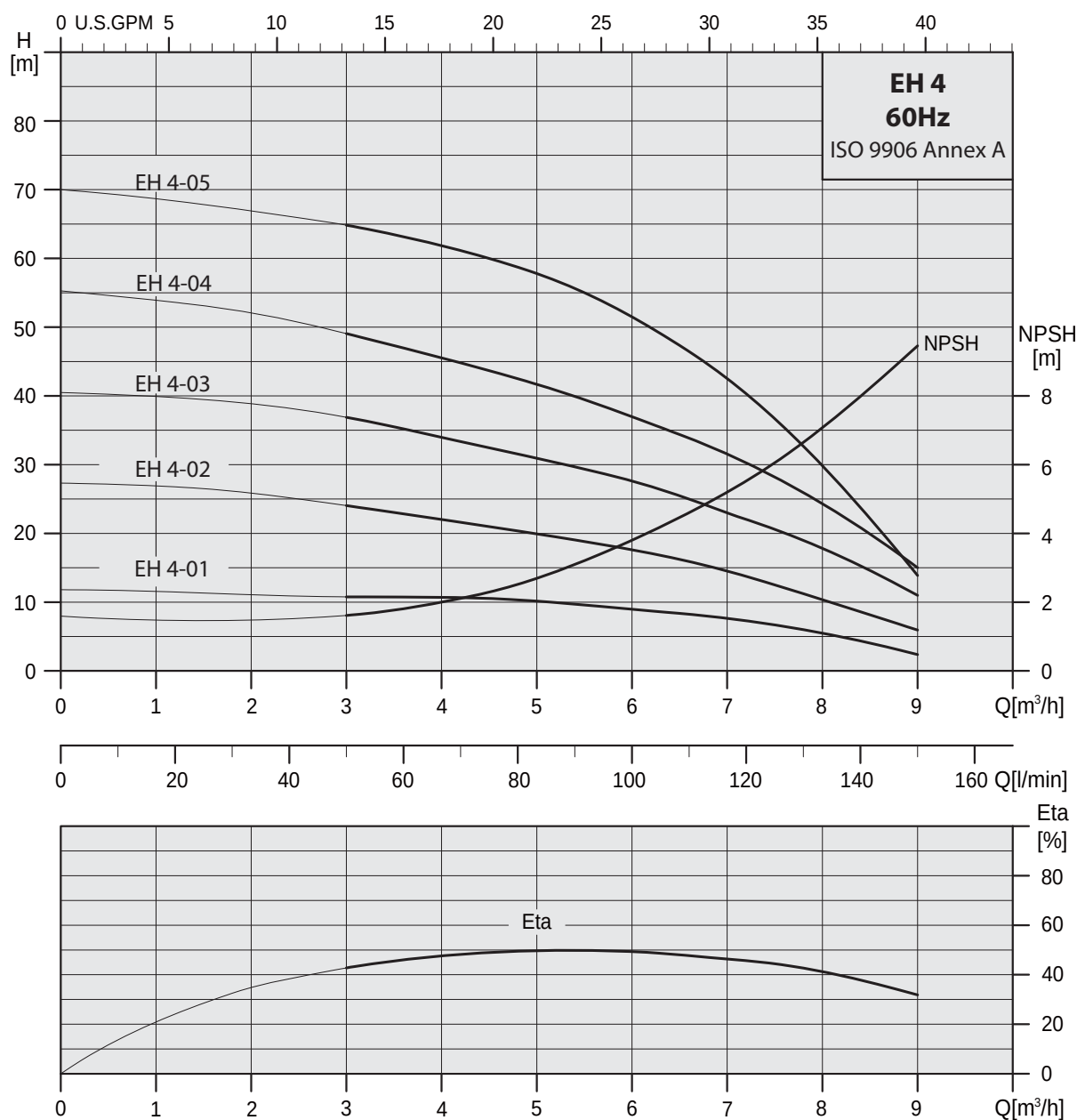
Pump Type	1 Φ 110V / 220V		
	I _{1/1} (A)	P ₁ (Kw)	P ₂ (Kw)
EH 2-01 SSB20310M1	5.9 / 3.0	0.390	0.310
EH 2-01 KKB20310M1			
EH 2-02 SSB20455M1	6.6 / 3.4	0.570	0.455
EH 2-02 KKB20455M1			
EH 2-03 SSB20605M1	7.6 / 3.8	0.750	0.605
EH 2-03 KKB20605M1			
EH 2-04 SSB20790M1	9.3 / 4.7	0.980	0.790
EH 2-04 KKB20790M1			
EH 2-05 SSB20970M1	10.7 / 5.4	1.160	0.970
EH 2-05 KKB20970M1			
EH 2-06 SSB21150M1	12.4 / 6.3	1.375	1.150
EH 2-06 KKB21150M1			

EH 2, 3Φ Three phase motor, 3450 rpm [60Hz]

Pump Type	3 Φ Δ 220-255V / Y380-440V		
	I _{1/1} (A)	P ₁ (Kw)	P ₂ (Kw)
EH 2-01 SSB20290T1	1.5 - 1.6 / 0.9 - 1.0	0.360	0.290
EH 2-01 KKB20290T1			
EH 2-02 SSB20435T1	1.7 - 1.8 / 1.0 - 1.1	0.540	0.435
EH 2-02 KKB20435T1			
EH 2-03 SSB20580T1	2.2 - 2.3 / 1.3 - 1.4	0.720	0.580
EH 2-03 KKB20580T1			
EH 2-04 SSB20770T1	3.0 - 3.2 / 1.75 - 1.9	0.950	0.770
EH 2-04 KKB20770T1			
EH 2-05 SSB20980T1	3.8 - 3.9 / 2.2 - 2.3	1.170	0.980
EH 2-05 KKB20980T1			
EH 2-06 SSB21115T1	4.1 - 4.2 / 2.35 - 2.45	1.330	1.115
EH 2-06 KKB21115T1			

PERFORMANCE CURVE, 60Hz

EH 4, [60Hz]



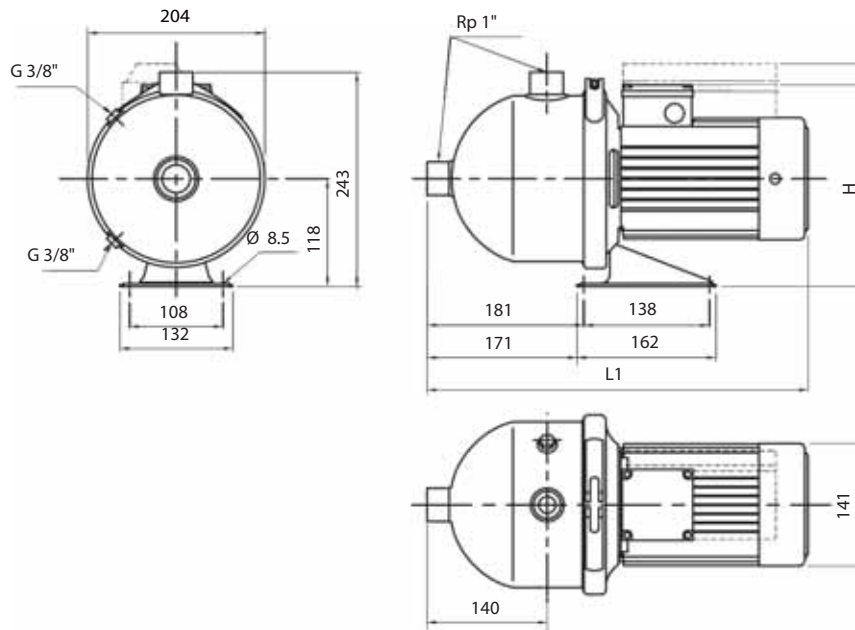
EH 4, 1Φ Single phase motor, 3450 rpm [60Hz]

EH 2, 3Φ Three phase motor, 3450 rpm [60Hz]

Pump Type	1 Φ 110V / 220V			Pump Type	3 Φ Δ 220-255V / Y380-440V		
	I _{1/1} (A)	P ₁ (Kw)	P ₂ (Kw)		I _{1/1} (A)	P ₁ (Kw)	P ₂ (Kw)
EH 4-01 SSB20425M1	5.9 / 3.1	0.530	0.425	EH 4-01 SSB20450T1	1.8 - 1.9 / 1.1 - 1.2	0.560	0.450
EH 4-01 KKB20425M1				EH 4-01 KKB20450T1			
EH 4-02 SSB20780M1	9.3 / 4.7	0.970	0.780	EH 4-02 SSB20740T1	2.9 - 3.1 / 1.7 - 1.8	0.910	0.740
EH 4-02 KKB20780M1				EH 4-02 KKB20740T1			
EH 4-03 SSB21140M1	12.5 / 6.5	1.360	1.140	EH 4-03 SSB21080T1	4.1 - 4.2 / 2.4 - 2.5	1.280	1.080
EH 4-03 KKB21140M1				EH 4-03 KKB21080T1			
EH 4-04 SSB21380M1	N/A / 8.5	1.730	1.380	EH 4-04 SSB21340T1	4.7 - 4.8 / 2.7 - 2.8	1.675	1.340
EH 4-04 KKB21380M1				EH 4-04 KKB21340T1			
EH 4-05 SSB21660M1	N/A / 9.9	2.080	1.660	EH 4-05 SSB21595T1	5.7 - 6.0 / 3.3 - 3.5	1.995	1.595
EH 4-05 KKB21660M1				EH 4-05 KKB21595T1			

DIMESNION, 60Hz

EH 2, MATERIAL SS & KK, [60Hz]



EH 2, Material SS & KK , 1Φ Single phase motor,[60Hz]

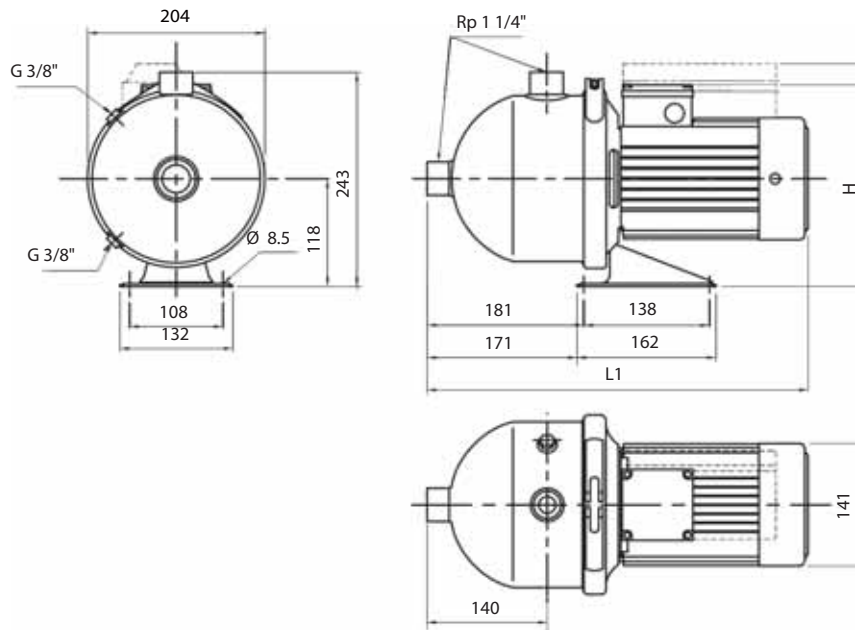
Pump Type	Dimension (mm)		Net weight (KG)
	1 Φ (Single phase)		
	L1	H	
EH 2-01 SSB20310M1	403	255	9.5
EH 2-01 KKB20310M1			
EH 2-02 SSB20455M1	403	255	9.5
EH 2-02 KKB20455M1			
EH 2-03 SSB20605M1	403	255	9.8
EH 2-03 KKB20605M1			
EH 2-04 SSB20790M1	403	255	10.3
EH 2-04 KKB20790M1			
EH 2-05 SSB20970M1	441	255	11.7
EH 2-05 KKB20970M1			
EH 2-06 SSB21150M1	441	255	12.0
EH 2-06 KKB21150M1			

EH 2, Material SS & KK , 3Φ Three phase motor,[60Hz]

Pump Type	Dimension (mm)		Net weight (KG)
	3 Φ (Three phase)		
	L1	H	
EH 2-01 SSB20290T1	403	233	9.5
EH 2-01 KKB20290T1			
EH 2-02 SSB20435T1	403	233	9.5
EH 2-02 KKB20435T1			
EH 2-03 SSB20580T1	403	233	9.8
EH 2-03 KKB20580T1			
EH 2-04 SSB20770T1	403	233	10.3
EH 2-04 KKB20770T1			
EH 2-05 SSB20980T1	441	233	11.7
EH 2-05 KKB20980T1			
EH 2-06 SSB21115T1	441	233	12.0
EH 2-06 KKB21115T1			

DIMESNION, 60Hz

EH 4, MATERIAL SS & KK, [60Hz]



EH 4, Material SS & KK , 1Φ Single phase motor,[60Hz]

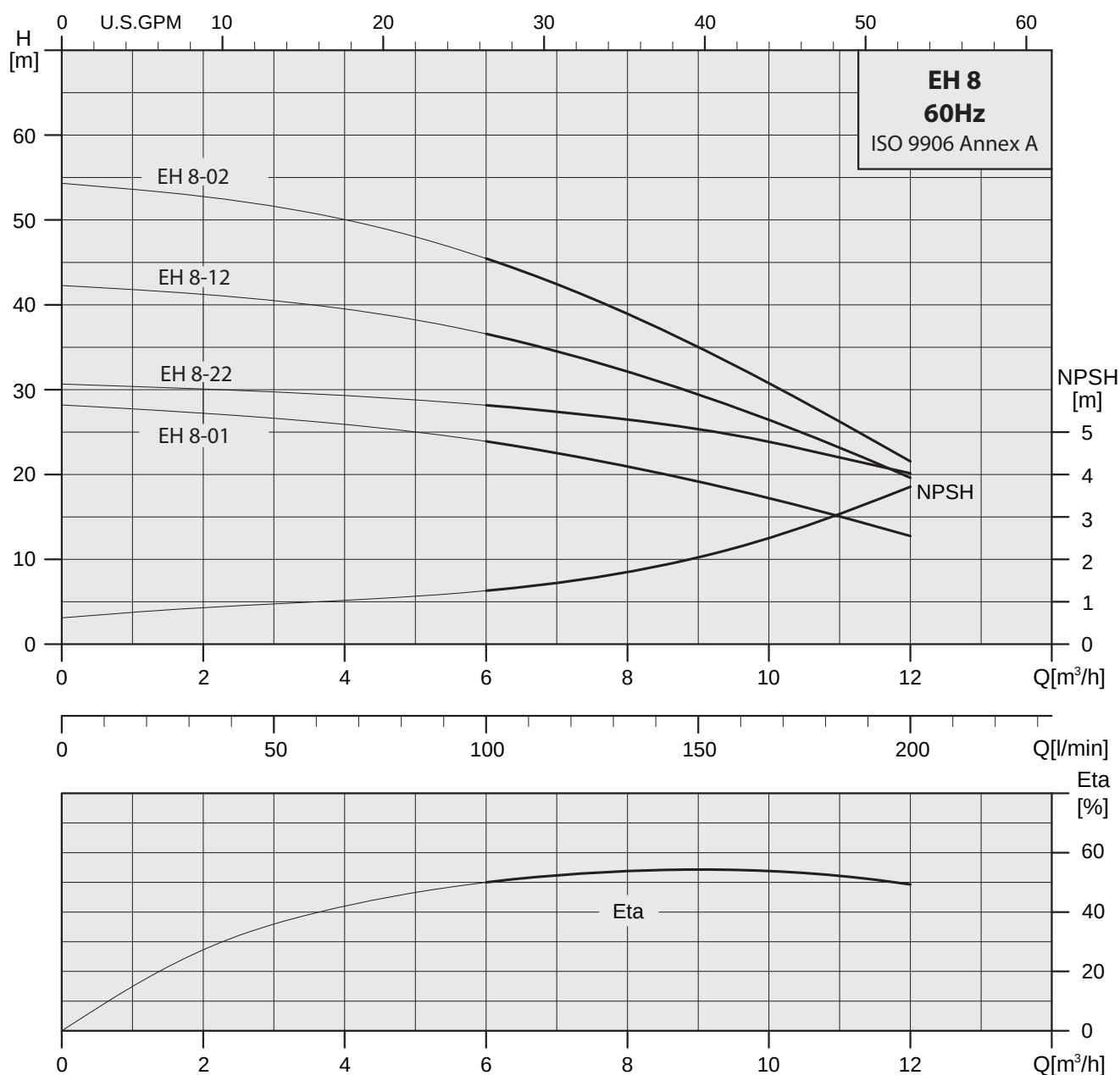
Pump Type	Dimension (mm)		Net weight (KG)
	1 Φ (Single phase)		
	L1	H	
EH 4-01 SSB20425M1	403	255	9.5
EH 4-01 KKB20425M1			
EH 4-02 SSB20780M1	403	255	9.5
EH 4-02 KKB20780M1			
EH 4-03 SSB21140M1	441	255	10.1
EH 4-03 KKB21140M1			
EH 4-04 SSB21380M1	441	255	11.5
EH 4-04 KKB21380M1			
EH 4-05 SSB21660M1	441	255	12.8
EH 4-05 KKB21660M1			

EH 4, Material SS & KK , 3Φ Three phase motor,[60Hz]

Pump Type	Dimension (mm)		Net weight (KG)
	3 Φ (Three phase)		
	L1	H	
EH 4-01 SSB20450T1	403	233	9.5
EH 4-01 KKB20450T1			
EH 4-02 SSB20740T1	403	233	9.5
EH 4-02 KKB20740T1			
EH 4-03 SSB21080T1	441	233	10.1
EH 4-03 KKB21080T1			
EH 4-04 SSB21340T1	441	233	11.5
EH 4-04 KKB21340T1			
EH 4-05 SSB21595T1	441	233	12.8
EH 4-05 KKB21595T1			

PERFORMANCE CURVE, 60Hz

EH 8, [60Hz]



EH 8, 1Φ Single phase motor, 3450 rpm [60Hz]

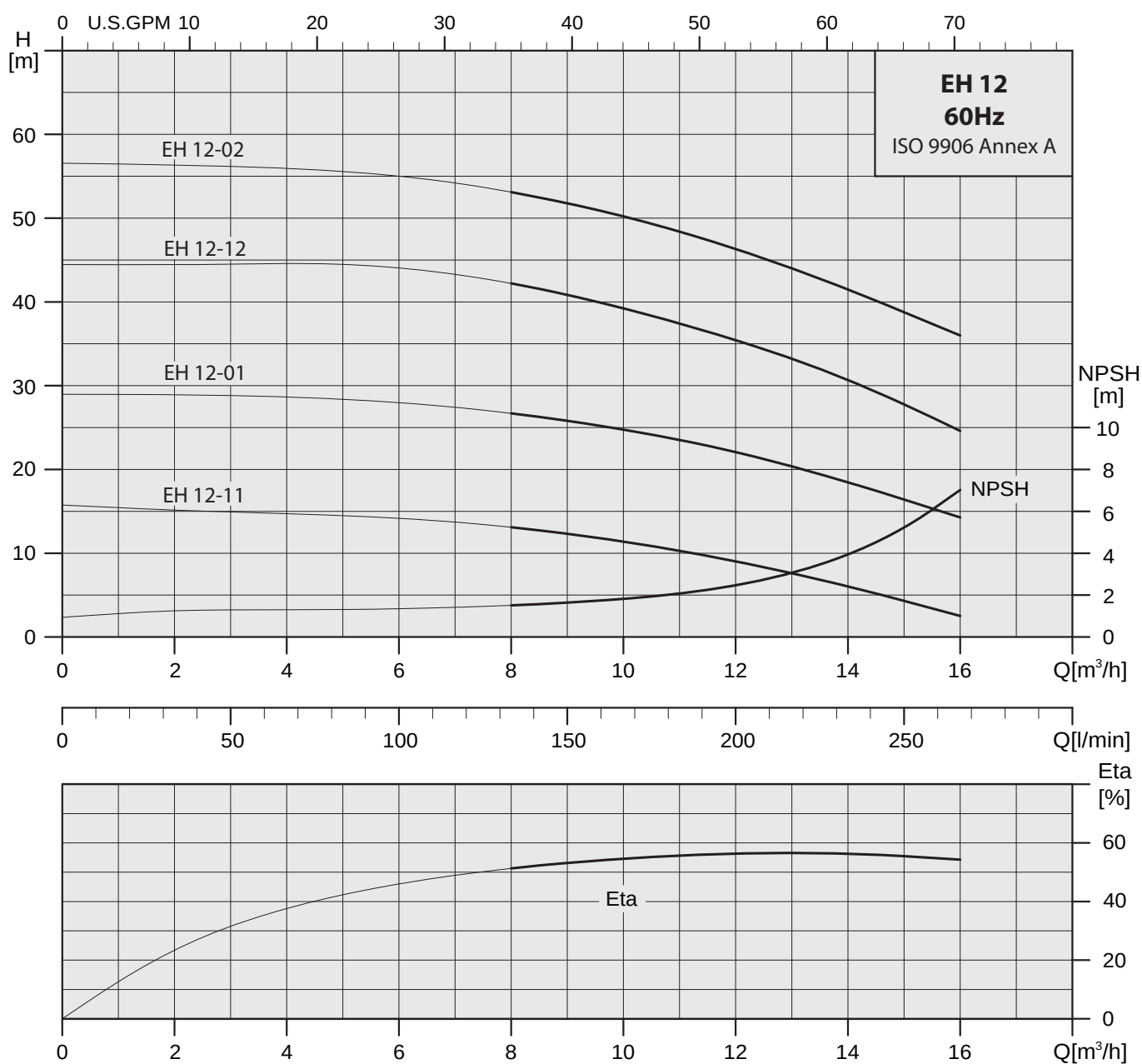
Pump Type	1 Φ 110V / 220V		
	I _{1/1} (A)	P ₁ (Kw)	P ₂ (Kw)
EH 8-01 SSB21070M1	11.4 / 6.0	1.280	1.070
EH 8-01 KKB21070M1			
EH 8-22 SSB21380M1	N/A / 8.3	1.730	1.380
EH 8-22 KKB21380M1			
EH 8-12 SSB21710M1	N/A / 9.3	2.080	1.710
EH 8-12 KKB21710M1			
EH 8-02 SSB22030M1	N/A / 10.9	2.460	2.030
EH 8-02 KKB22030M1			

EH 8, 3Φ Three phase motor, 3450 rpm [60Hz]

Pump Type	3 Φ Δ 220-255V / Y380-440V		
	I 1/1 (A)	P ₁ (Kw)	P ₂ (Kw)
EH 8-01 SSB21010T1	3.9 - 4.1 / 2.3 - 2.4	1.210	1.010
EH 8-01 KKB21010T1			
EH 8-22 SSB21340T1	5.2 - 5.3 / 3.0 - 3.1	1.670	1.340
EH 8-22 KKB21340T1			
EH 8-12 SSB21560T1	5.6 - 5.7 / 3.2 - 3.3	1.890	1.560
EH 8-12 KKB21560T1			
	3 Φ Δ 220-277V / Y380-480V		
EH 8-02 SSB21950T1	7.1 - 6.9 / 4.1 - 4.0	2.360	1.950
EH 8-02 KKB21950T1			

PERFORMANCE CURVE, 60Hz

EH 12, [60Hz]



EH 12, 1Φ Single phase motor, 3450 rpm [60Hz]

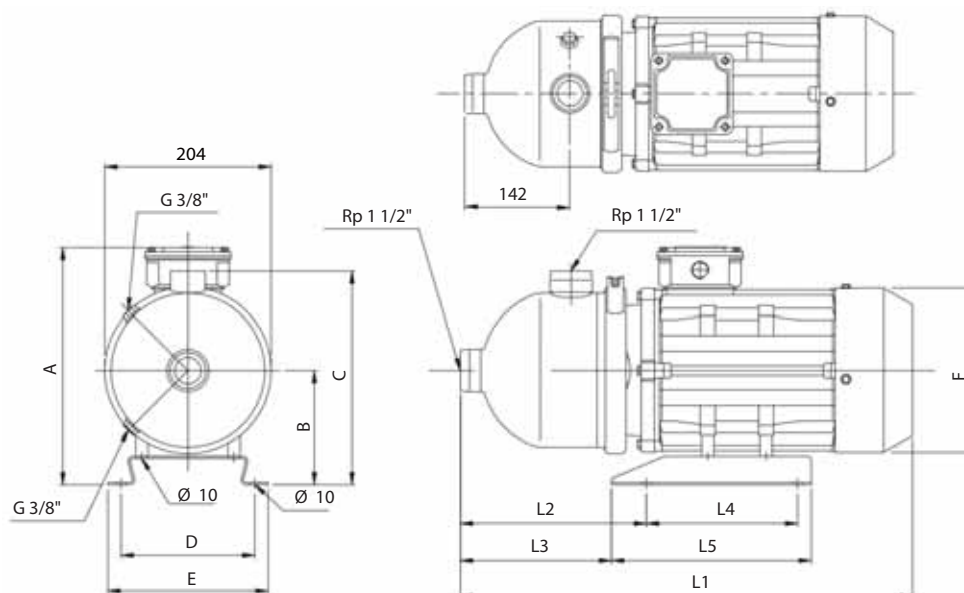
Pump Type	1 Φ 110V / 220V		
	I _{1/1} (A)	P ₁ (Kw)	P ₂ (Kw)
EH 12-11 SSB20760M1	8.5 / 4.5	0.940	0.760
EH 12-11 KKB20760M1			
EH 12-01 SSB21790M1	N/A / 9.7	2.170	1.790
EH 12-01 KKB21790M1			
N/A			
N/A			

EH 12, 3Φ Three phase motor, 3450 rpm [60Hz]

Pump Type	3 Φ Δ 220-255V / Y380-440V		
	I 1/1 (A)	P ₁ (Kw)	P ₂ (Kw)
EH 12-11 SSB20690T1	2.8 - 3.0 / 1.6 -1.75	0.850	0.690
EH 12-11 KKB20690T1			
EH 12-01 SSB21595T1	5.7 - 5.9 / 3.3 - 3.4	1.930	1.595
EH 12-01 KKB21595T1			
3 Φ Δ 220-277V / Y380-480V			
EH 12-12 SSB22365T1	9.2 - 8.9 / 5.3 - 5.1	2.860	2.365
EH 12-12 KKB22365T1			
EH 12-02 SSB23370T1	11.2 - 11.8 / 6.5 - 6.8	3.950	3.370
EH 12-02 KKB23370T1			

DIMESNION, 60Hz

EH 8, MATERIAL SS & KK, [60Hz]



EH 8, Material SS & KK , 1Φ Single phase motor,[60Hz]

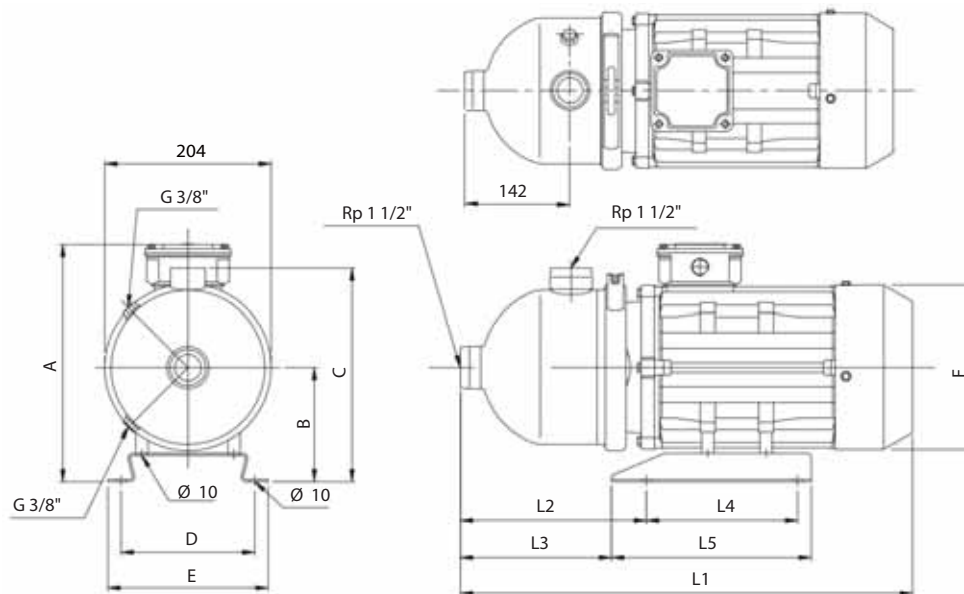
Pump Type	Dimension (mm) [1Φ Single Phase Motor]											Net Weight (KG)
	L1	L2	L3	L4	L5	A	B	C	D	E	F	
EH 8-01 SSB21070M1	441	181	171	138	162	255	118	243	108	132	141	11.70
EH 8-01 KKB21070M1												
EH 8-22 SSB21380M1	441	181	171	138	162	255	118	243	108	132	141	13.24
EH 8-22 KKB21380M1												
EH 8-12 SSB21710M1	514	200	180	195	235	267	121	245	158	178	177	21.42
EH 8-12 KKB21710M1												
EH 8-02 SSB22030M1	514	200	180	195	235	267	121	245	158	178	177	21.50
EH 8-02 KKB22030M1												

EH 8, Material SS & KK , 3Φ Three phase motor,[60Hz]

Pump Type	Dimension (mm) [3Φ Three Phase Motor]											Net Weight (KG)
	L1	L2	L3	L4	L5	A	B	C	D	E	F	
EH 8-01 SSB21010T1	441	181	171	138	162	233	118	243	108	132	141	11.50
EH 8-01 KKB21010T1												
EH 8-22 SSB21340T1	441	181	171	138	162	233	118	243	108	132	141	13.05
EH 8-22 KKB21340T1												
EH 8-12 SSB21560T1	441	181	171	138	162	233	118	243	108	132	141	13.18
EH 8-12 KKB21560T1												
EH 8-02 SSB21950T1	514	200	180	195	235	261	121	245	158	178	177	21.60
EH 8-02 KKB21950T1												

DIMESNION, 60Hz

EH 12, MATERIAL SS & KK, [60Hz]



EH 12, Material SS & KK , 1Φ Single phase motor,[60Hz]

Pump Type	Dimension (mm) [1Φ Single Phase Motor]											Net Weight (KG)
	L1	L2	L3	L4	L5	A	B	C	D	E	F	
EH 12-11 SSB20760M1	403	181	171	138	162	255	118	243	108	132	141	10.26
EH 12-11 KKB20760M1												
EH 12-01 SSB21790M1	514	200	180	195	235	267	121	245	158	178	177	20.64
EH 12-01 KKB21790M1												

EH 12, Material SS & KK , 3Φ Three phase motor,[60Hz]

Pump Type	Dimension (mm) [3Φ Three Phase Motor]											Net Weight (KG)
	L1	L2	L3	L4	L5	A	B	C	D	E	F	
EH 12-11 SSB20690T1	403	181	171	138	162	233	118	243	108	132	141	10.06
EH 12-11 KKB20690T1												
EH 12-01 SSB21595T1	441	181	171	138	162	233	118	243	108	132	141	12.64
EH 12-01 KKB21595T1												
EH 12-12 SSB22365T1	493	200	180	195	235	261	121	245	158	178	177	23.72
EH 12-12 KKB22365T1												
EH 12-02 SSB23370T1	514	230	198	195	245	284	133	259	174	198	197	29.40
EH 12-02 KKB23370T1												

[illegible]

Your local distributor details:



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