

# AL SERIES

## SUBMERSIBLE WASTEWATER / EFFLUENT PUMPS

**POWER :** 2~15HP (1.5~11kW)  
**MAX.HEAD :** 52.5m(172feet)  
**MAX.FLOW :** 2.3m<sup>3</sup>/min (138m<sup>3</sup>/h)



### PRODUCT NOMENCLATURE

Example : 

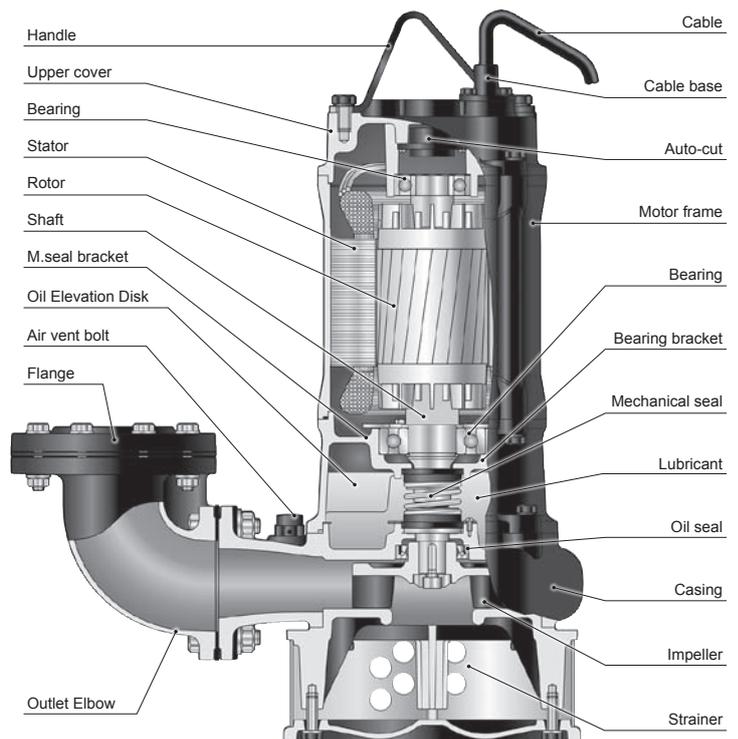
80	AL	2	5.5
Discharge mm	Type	Pole	kW

### FEATURE

- Casted iron body pump with 100~150m high solids epoxy coating offering the highest quality and performance.
- 5~15HP Triangular handle design for easy handling on Guide Rail System.
- Compact, high head, and high efficiency for wide range of use.
- Oil Elevation Disk design in the oil chamber to ensure the mechanical seals lubrication and to extend the service life of pump.
- Equipped with Auto-cut Protector, epoxy cable base treatment, double mechanical seals and lip seal design.

### APPLICATIONS

- All industry wastewater.
- Building rainwater drainage, flood water removal.
- River / lake water extraction.
- Landscaping, aquaculture and agriculture irrigation.



# AL SERIES SUBMERSIBLE WASTEWATER / EFFLUENT PUMPS

## 50AL21.5 · 80AL21.5 · 50AL22.2 · 80AL22.2 · 80AL23.7A

### SPECIFICATIONS

Item		Description
Limits of Use	Liquid Temp.	0~40°C(32~104°F)
	Applications	General Wastewater Sewage and Industrial Water
Type	Frequency	50Hz
	Motor	2P(3000rpm) · Dry Motor
	Insulation	Class F
	Protection	IP68
	Protector	Auto-cut
	Bearing	Ball type
	M.seal	Double M.seals
	Impeller	Open
Material	Upper Cover	FC200
	Motor Frame	FC200
	Shaft	SUS403
	M.seal	CA/CE & SiC/SiC
	Casing	FC200
	Impeller	FC200
	Footing	FC200
	Cable	VCT or H07RN-F or SJOW/SOW
	Optional	-



50AL21.5 · 50AL22.2



80AL21.5 · 80AL22.2



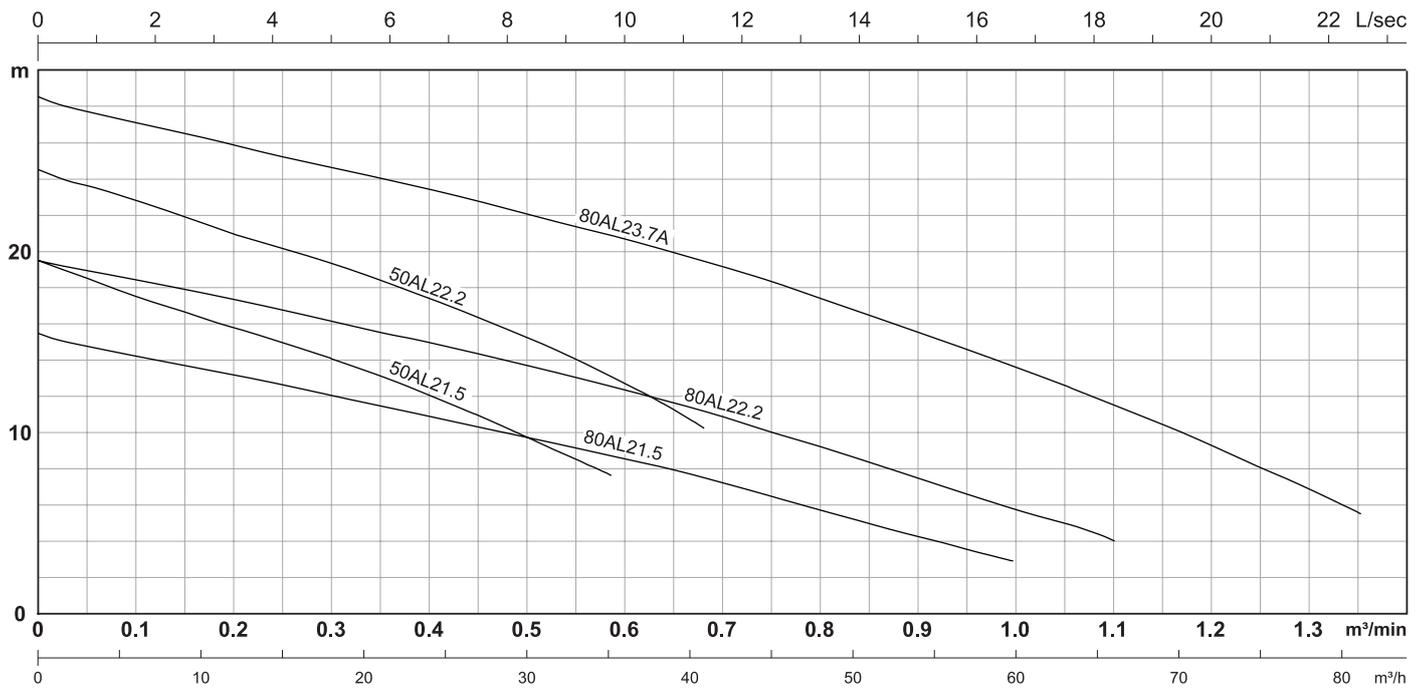
80AL23.7A



Open Impeller

Model	Power HP(kW)	Discharge inch(mm)	Standard		MAX		Solid Passage mm(inch)	Weight(W/O Cable)		Phase	Fullload Ampere						
			m-m³/min	m-m³/h	m-m³/min	m-m³/h		1Ø-kg(lbs)	3Ø-kg(lbs)		Voltage	220V	230V	230V	380V	400V	415V
50AL21.5	2(1.5)	2"(50)	12-0.4	12-24	19.5-0.7	19.5-42	20(3/4")	35(77)	31(68)	Fullload Ampere	10.2	10.0	6.2	3.6	3.4	3.4	2.7
80AL21.5	2(1.5)	3"(80)	8.5-0.6	8.5-36	15.5-1.05	15.5-63	20(3/4")	37(82)	32(71)		10.2	10.0	6.2	3.6	3.4	3.4	2.7
50AL22.2	3(2.2)	2"(50)	17.5-0.4	17.5-24	24.5-0.8	24.5-48	20(3/4")	38(84)	34(75)		15.0	14.6	8.8	5.0	4.8	4.8	3.8
80AL22.2	3(2.2)	3"(80)	12.5-0.6	12.5-36	19.5-1.15	19.5-69	20(3/4")	39(86)	35(77)		15.0	14.6	8.8	5.0	4.8	4.8	3.8
80AL23.7A	5(3.7)	3"(80)	20.5-0.6	20.5-36	28.5-1.4	28.5-84	20(3/4")	-	49(108)		-	-	14.2	8.2	7.8	7.8	6.2

### PERFORMANCE CURVES



Model	Power HP(kW)	Discharge inch(mm)	Q:m³/min											Q:L/sec							
			0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	2	4	6	8	10	12	15	18			
50AL21.5	2(1.5)	2"(50)	17.8	16.0	14.2	12.1	9.9	-	-	-	-	-	-	-	-	-	-	-			
80AL21.5	2(1.5)	3"(80)	14.3	13.2	12.0	10.9	9.7	7.1	4.2	-	-	-	-	-	-	-	-	-			
50AL22.2	3(2.2)	2"(50)	23.0	21.2	19.3	17.4	15.2	-	-	-	-	-	-	-	-	-	-	-			
80AL22.2	3(2.2)	3"(80)	18.4	17.3	16.2	15.1	13.9	11.0	7.6	4.0	-	-	-	-	-	-	-	-			
80AL23.7A	5(3.7)	3"(80)	27.2	26.0	24.8	23.5	22.2	19.2	15.6	11.5	-	-	-	-	-	-	-	-			

# AL SERIES SUBMERSIBLE WASTEWATER / EFFLUENT PUMPS 80(100)AL25.5 · 80(100)AL27.5 · 80(100)AL211

## SPECIFICATIONS

Item		Description
Limits of Use	Liquid Temp.	0~40°C(32~104°F)
	Applications	General Wastewater Sewage and Industrial Water
Type	Frequency	50Hz
	Motor	2P(3000rpm) · Dry Motor
	Insulation	Class H
	Protection	IP68
	Protector	Auto-cut(7.5~10HP) · MTS & MS(15HP)
	Bearing	Ball type
	M.seal	Double M.seals
	Impeller	Open
Material	Upper Cover	FC200
	Motor Frame	FC200
	Shaft	SUS403(7.5~10HP) · SUS420J2(15HP)
	M.seal	CA/CE & SiC/SiC
	Casing	FC200
	Impeller	FC200
	Footing	FC200
	Cable	VCT or H07RN-F or SOW
	Optional	—



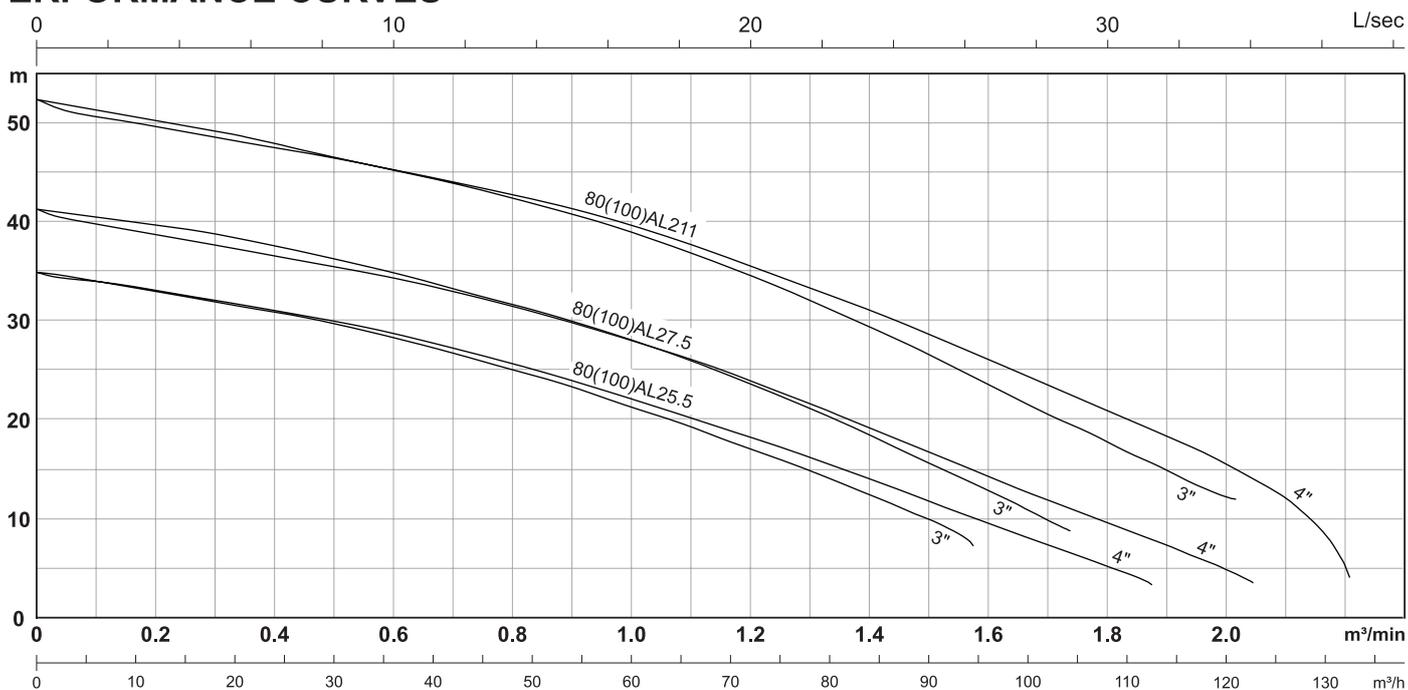
Open Impeller



80(100)AL25.5 · 80(100)AL27.5 · 80(100)AL211

Model	Power HP(kW)	Discharge inch(mm)	Standard		MAX		Solid Passage mm(inch)	Weight(W/O Cable)		Phase Voltage	1Ø	1Ø	3Ø	3Ø	3Ø	3Ø	3Ø
			m-m³/min	m-m³/h	m-m³/min	m-m³/h		1Ø-kg(lbs)	3Ø-kg(lbs)		220V	230V	230V	380V	400V	415V	525V
80(100) AL25.5	7.5(5.5)	3"(80)	28-0.6	28-36	35-1.6	35-96	20(3/4")	—	75(165)	Fullload Ampere	—	—	20.6	11.7	11.4	11.4	9.1
		4"(100)	21.5-1.0	21.5-60	35-2.0	35-120	20(3/4")	—	75(165)		—	—	20.6	11.7	11.4	11.4	9.1
80(100) AL27.5	10(7.5)	3"(80)	34.5-0.6	34.5-36	41.5-1.75	41.5-105	20(3/4")	—	81(178)		—	—	27.6	15.7	15.2	15.2	12.2
		4"(100)	28-1.0	28-60	41.5-2.05	41.5-123	20(3/4")	—	81(178)		—	—	27.6	15.7	15.2	15.2	12.2
80(100) AL211	15(11)	3"(80)	45-0.6	45-36	52.5-2.05	52.5-123	20(3/4")	—	91(198)		—	—	39.0	22.2	21.6	21.6	17.3
		4"(100)	39.5-1.0	39.5-60	52.5-2.3	52.5-138	20(3/4")	—	91(198)		—	—	39.0	22.2	21.6	21.6	17.3

## PERFORMANCE CURVES



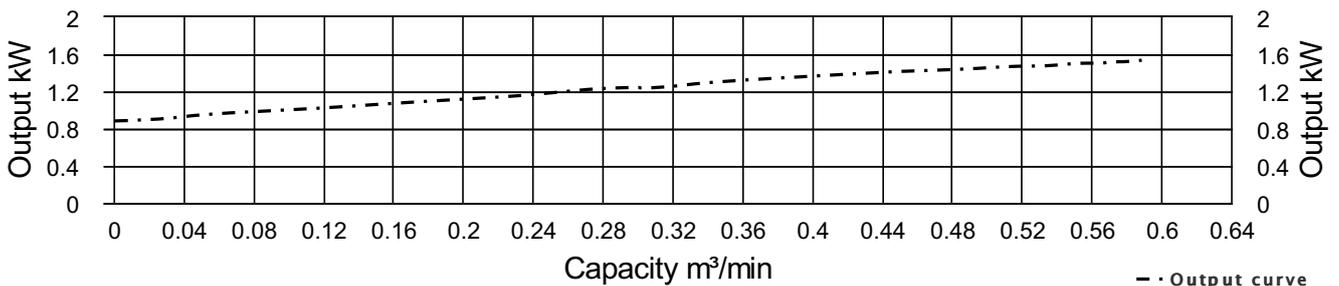
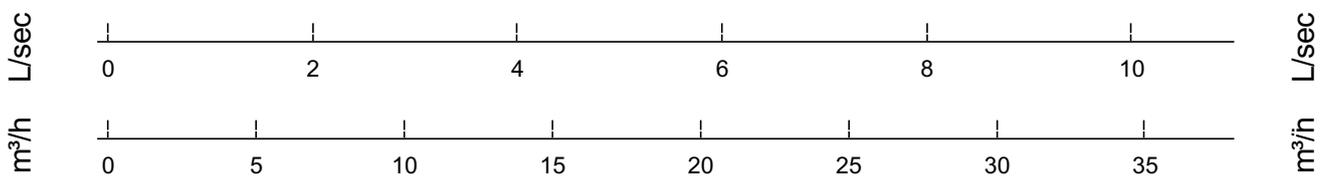
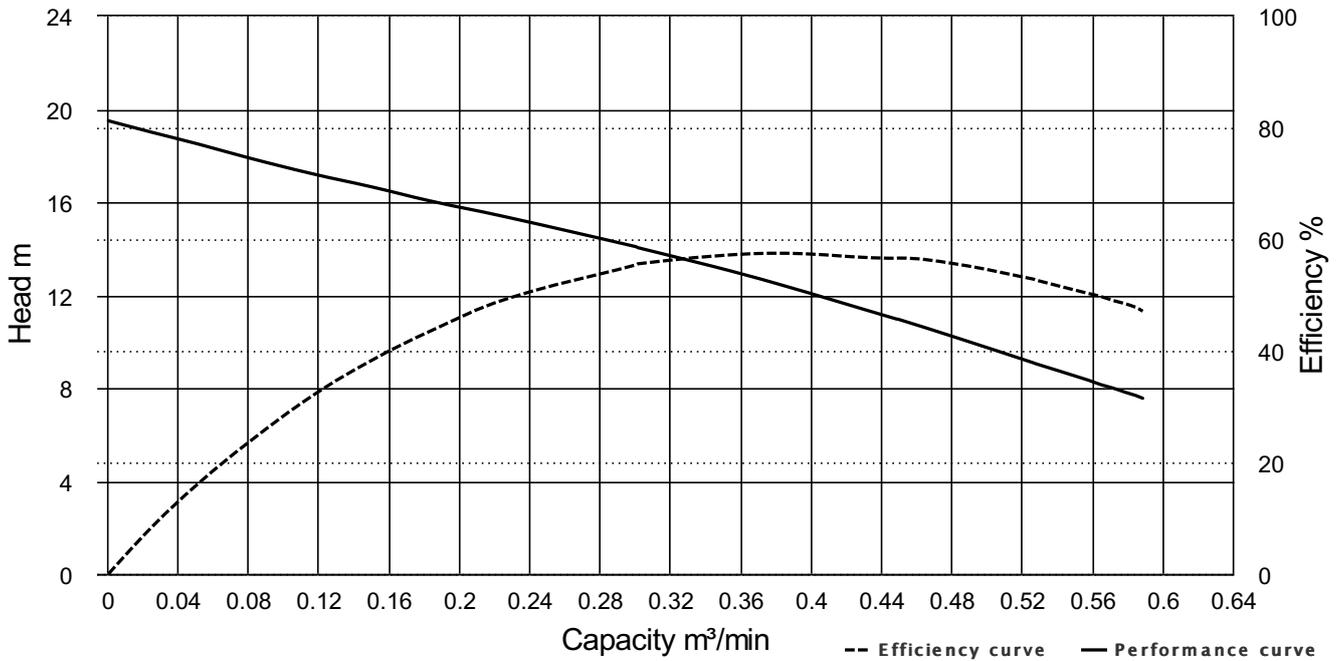
Model	Power HP(kW)	Discharge inch(mm)	Q: m³/min Q: m³/h	H:m								Q: L/sec	H:m								
				0.2 12	0.4 24	0.6 36	0.9 54	1.2 72	1.5 90	1.8 108	2.1 126		4	8	12	16	20	24	28	32	
80(100) AL25.5	7.5(5.5)	3"(80)	H:m	33.0	30.6	27.8	22.8	16.4	9.0	—	—	H:m	32.5	29.6	26.0	21.6	16.4	10.6	—		
		4"(100)		33.0	30.8	28.0	23.3	17.7	11.1	4.5	—		32.6	29.8	26.4	22.3	17.7	12.5	7.1	—	
80(100) AL27.5	10(7.5)	3"(80)		39.8	37.6	34.5	29.6	22.8	15.1	—	—		39.4	36.0	32.6	28.4	22.9	16.6	10.0	—	
		4"(100)		38.8	36.6	34.6	29.8	23.6	16.7	9.6	—		38.2	35.6	32.9	28.7	23.6	18.0	12.5	6.6	
80(100) AL211	15(11)	3"(80)		50.0	47.8	45.4	40.9	34.6	26.5	18.1	—		—	49.5	46.8	43.7	39.8	34.6	28.1	21.5	14.6
		4"(100)		50.0	47.8	45.7	41.6	35.6	28.2	20.6	11.5		49.5	47.0	44.2	40.5	35.6	29.8	23.5	17.3	



# HCP PUMP

## PUMP PERFORMANCE CURVES

Model	50AL21.5				Ver NO.	BA0407	
Frequency / Phase	50 Hz / 1 Ø				REFERENCE SPECIFICATION		
Discharge	2" / 50 mm						
Power	2 HP / 1.5 kW						
Std. Head	12 m						
Std. Capacity	0.4 m <sup>3</sup> /min						
Volt	220 V	230 V	240 V				
Rated Current	10.2 A	10 A	9.8 A				
Pole / rpm	2 P / 2820 rpm						
Start Method	CAPACITOR						
Insulation Class	F						



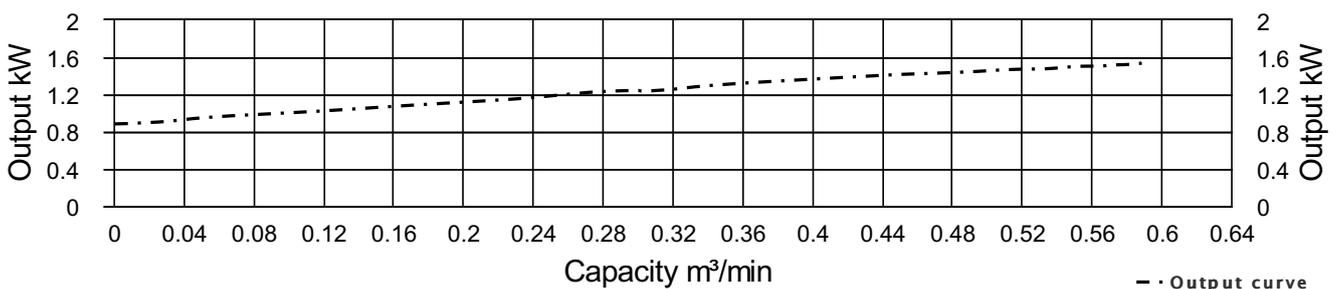
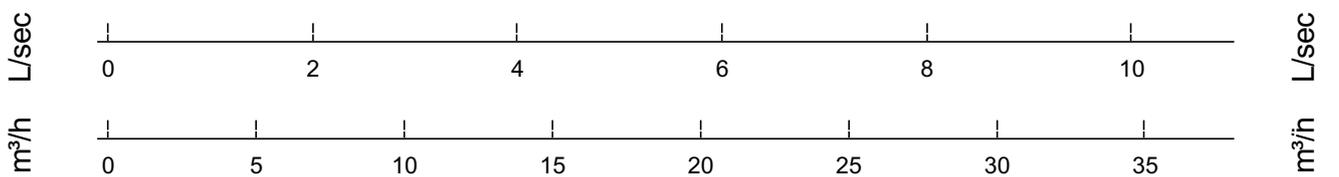
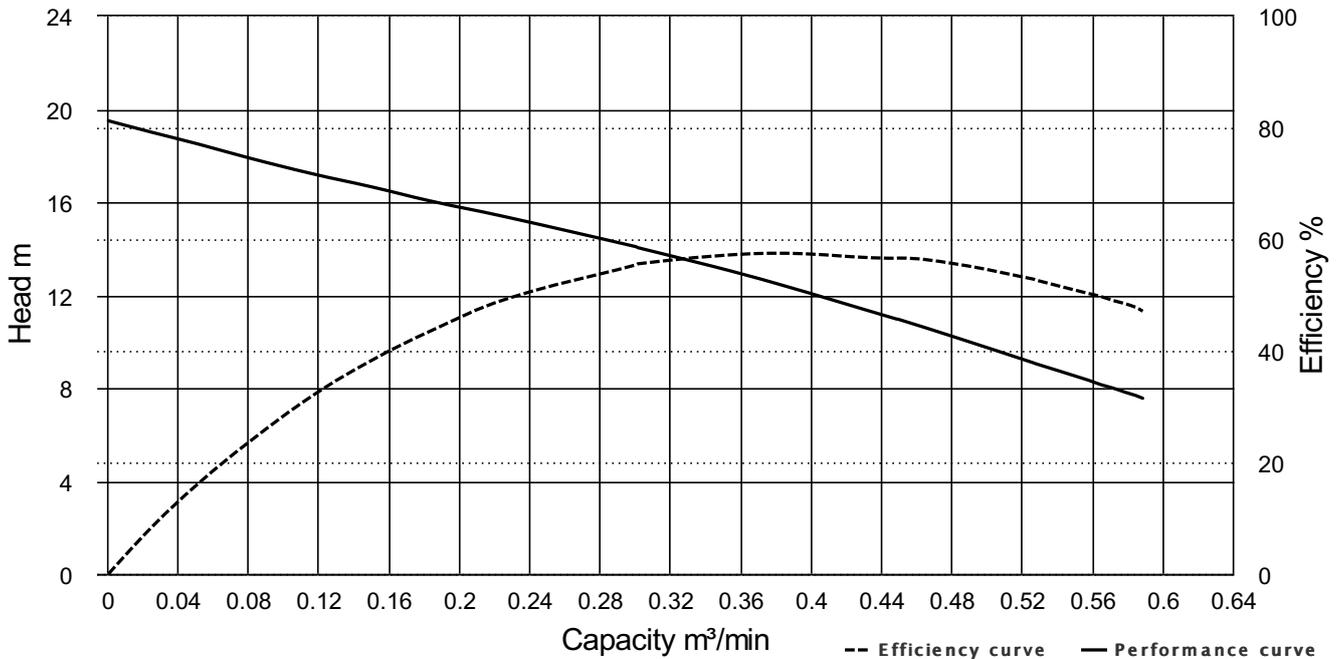
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# HCP PUMP

## PUMP PERFORMANCE CURVES

Model	50AL21.5					Ver NO.	BA0407
Frequency / Phase	50 Hz / 3 Ø					REFERENCE SPECIFICATION	
Discharge	2" / 50 mm						
Power	2 HP / 1.5 kW						
Std. Head	12 m						
Std. Capacity	0.4 m <sup>3</sup> /min						
Volt	230 V	380 V	400 V	415 V	525 V		
Rated Current	6.2 A	3.6 A	3.4 A	3.4 A	2.7 A		
Pole / rpm	2 P / 2820 rpm						
Start Method	DOL						
Insulation Class	F						



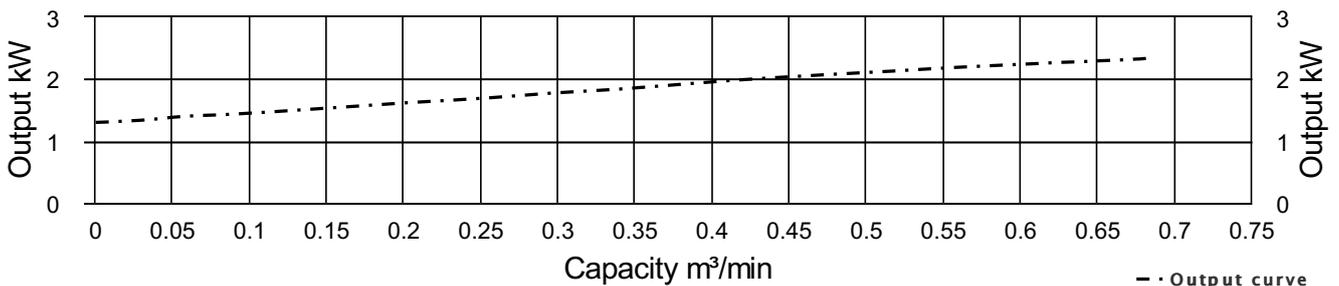
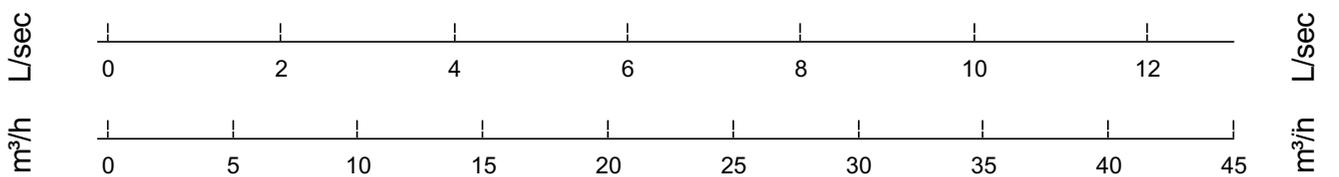
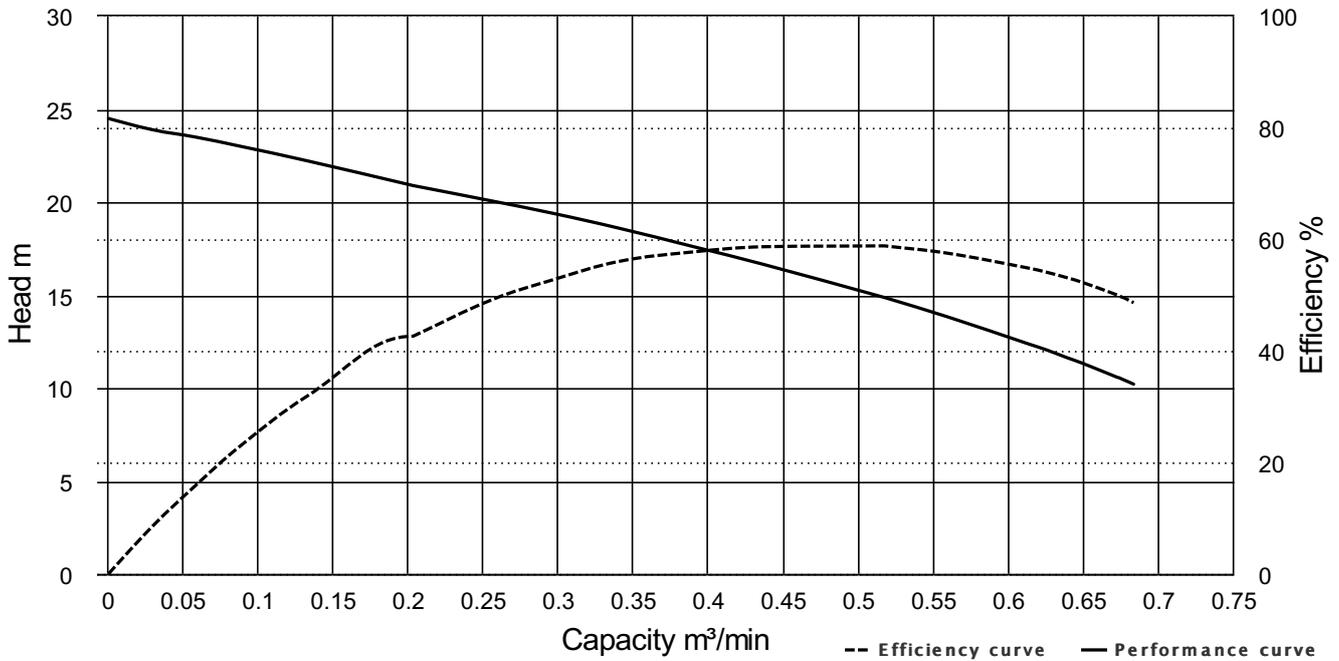
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# HCP PUMP

## PUMP PERFORMANCE CURVES

Model	50AL22.2				Ver NO.	BA0407	
Frequency / Phase	50 Hz / 1 Ø				REFERENCE SPECIFICATION		
Discharge	2" / 50 mm						
Power	3 HP / 2.2 kW						
Std. Head	17.5 m						
Std. Capacity	0.4 m <sup>3</sup> /min						
Volt	220 V	230 V	240 V				
Rated Current	15 A	14.6 A	14.4 A				
Pole / rpm	2 P / 2840 rpm						
Start Method	CAPACITOR						
Insulation Class	F						



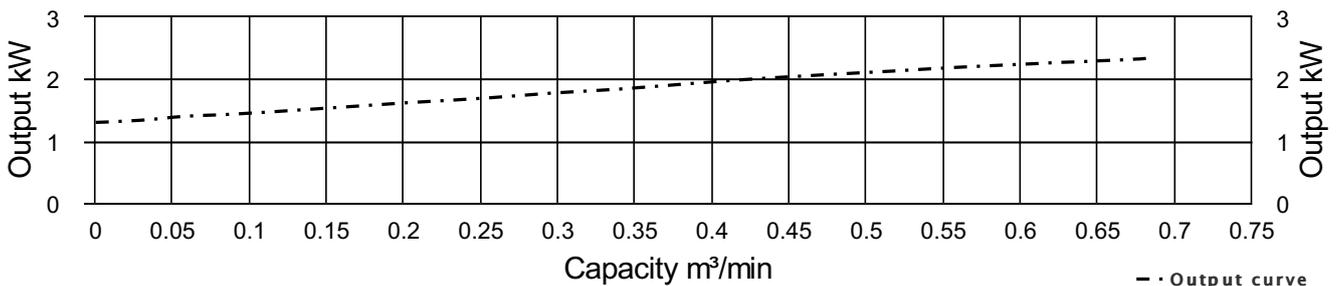
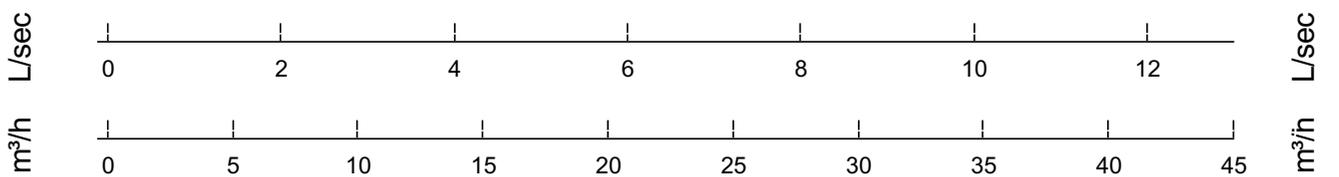
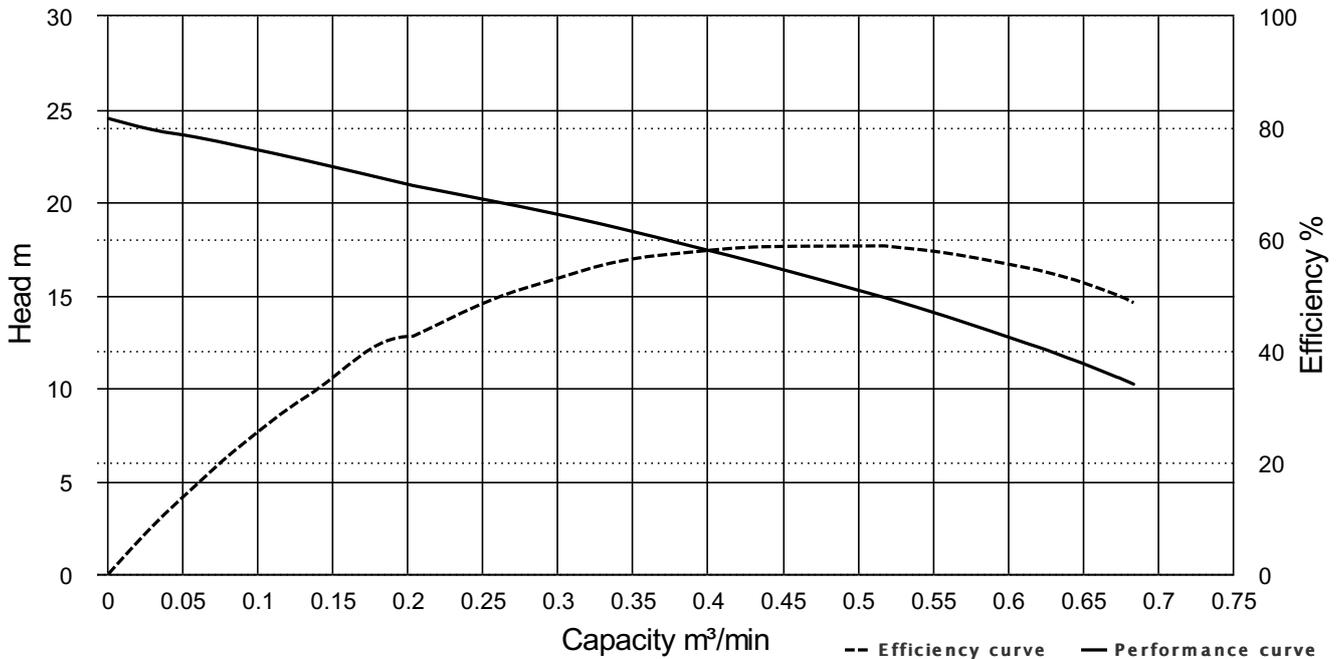
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# HCP PUMP

## PUMP PERFORMANCE CURVES

Model	50AL22.2					Ver NO.	BA0407
Frequency / Phase	50 Hz / 3 Ø					REFERENCE SPECIFICATION	
Discharge	2" / 50 mm						
Power	3 HP / 2.2 kW						
Std. Head	17.5 m						
Std. Capacity	0.4 m <sup>3</sup> /min						
Volt	230 V	380 V	400 V	415 V	525 V		
Rated Current	8.8 A	5 A	4.8 A	4.8 A	3.8 A		
Pole / rpm	2 P / 2840 rpm						
Start Method	DOL						
Insulation Class	F						



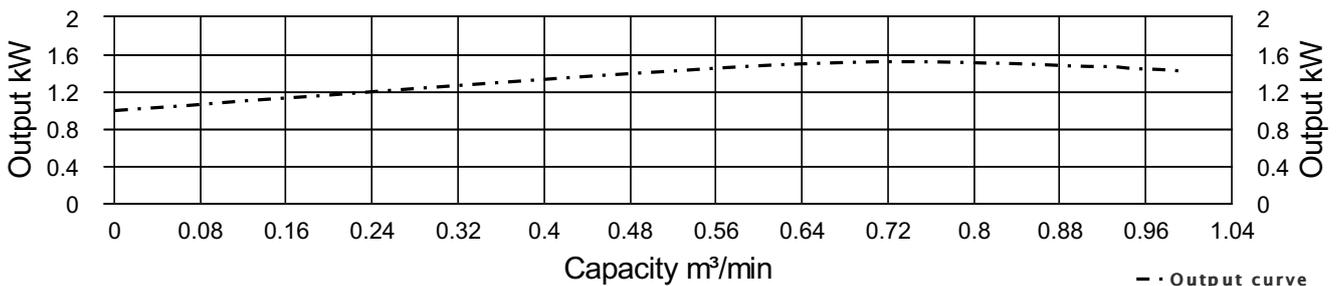
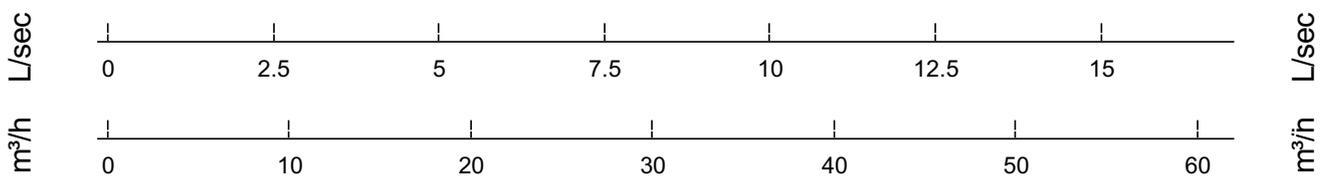
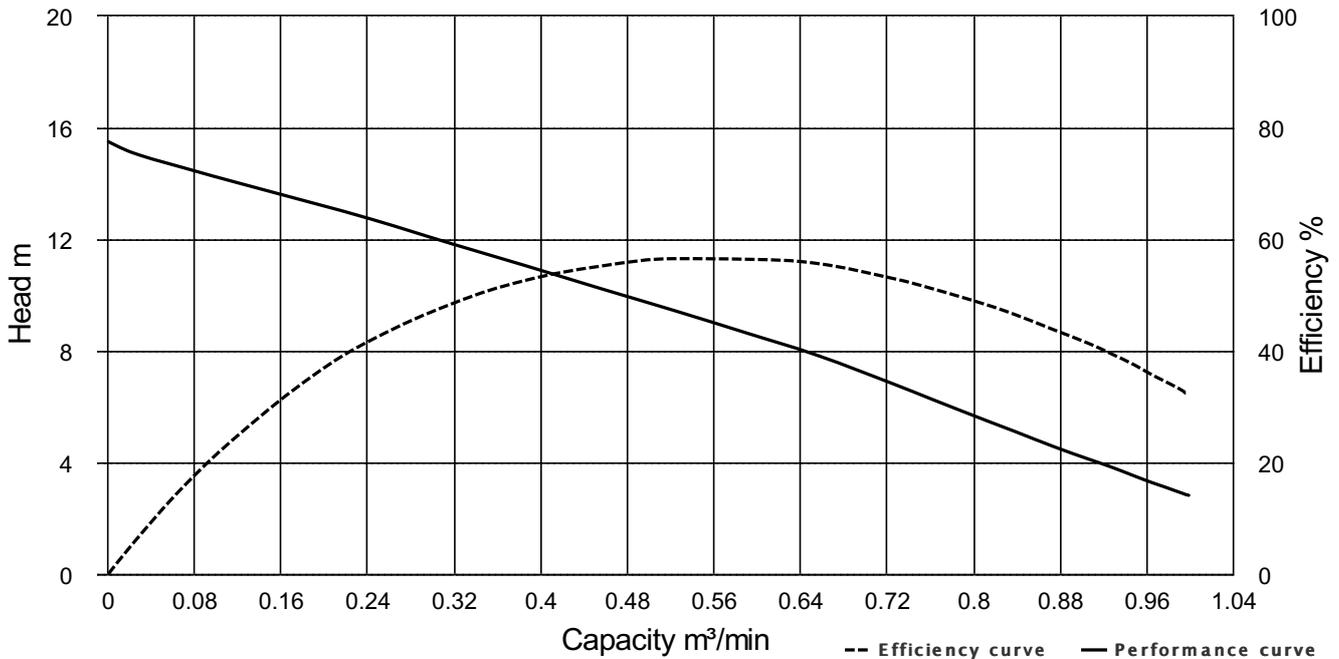
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# HCP PUMP

## PUMP PERFORMANCE CURVES

<b>Model</b>	80AL21.5				<b>Ver NO.</b>	BA0407	
<b>Frequency / Phase</b>	50 Hz / 1 Ø				<b>REFERENCE SPECIFICATION</b>		
<b>Discharge</b>	3" / 80 mm						
<b>Power</b>	2 HP / 1.5 kW						
<b>Std. Head</b>	8.5 m						
<b>Std. Capacity</b>	0.6 m <sup>3</sup> /min						
<b>Volt</b>	220 V	230 V	240 V				
<b>Rated Current</b>	10.2 A	10 A	9.8 A				
<b>Pole / rpm</b>	2 P / 2820 rpm						
<b>Start Method</b>	CAPACITOR						
<b>Insulation Class</b>	F						



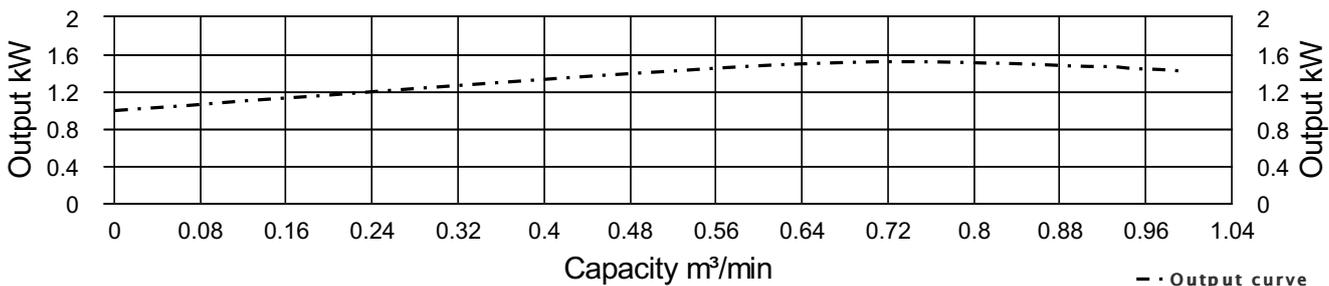
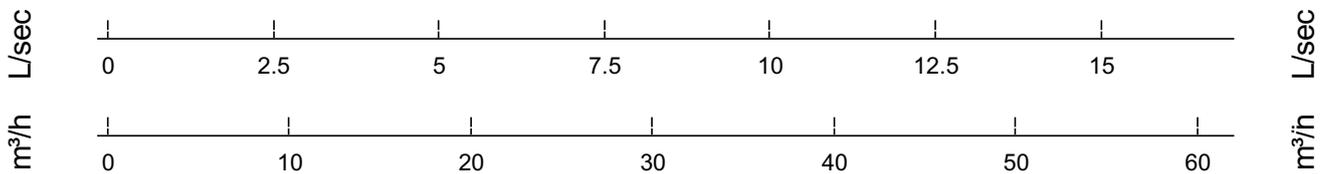
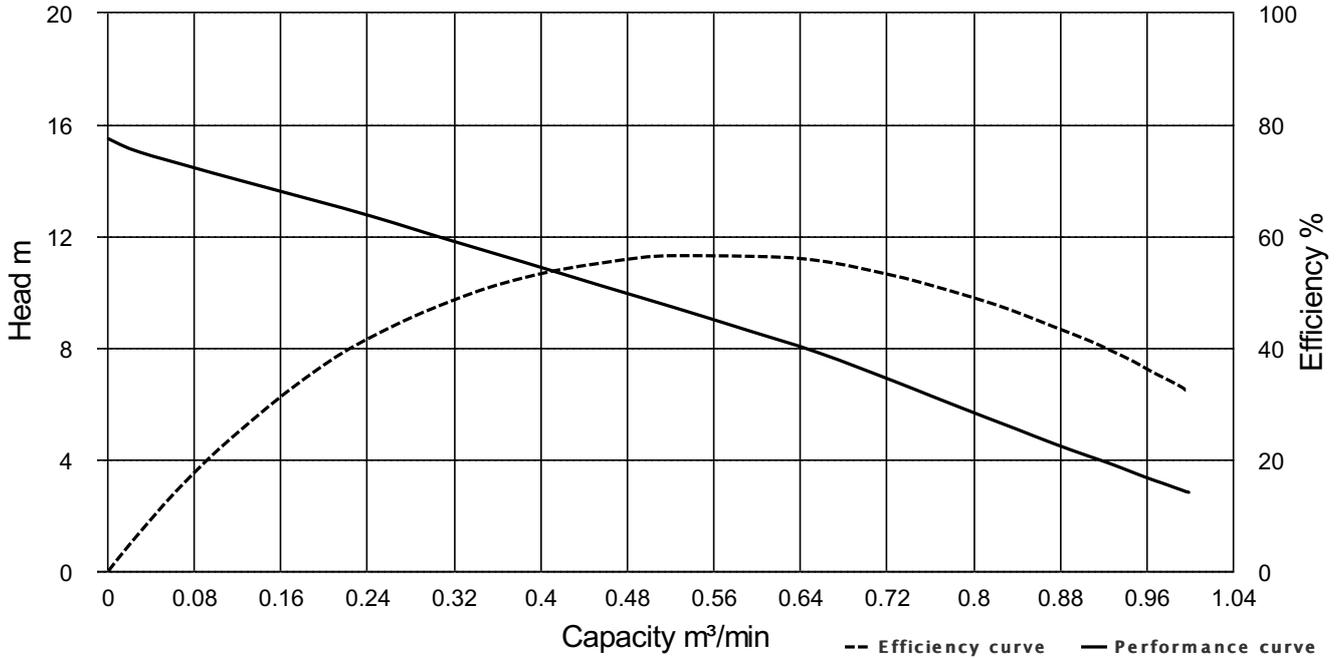
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# HCP PUMP

## PUMP PERFORMANCE CURVES

<b>Model</b>	80AL21.5					<b>Ver NO.</b>	BA0407	
<b>Frequency / Phase</b>	50 Hz / 3 Ø					<b>REFERENCE SPECIFICATION</b>		
<b>Discharge</b>	3" / 80 mm							
<b>Power</b>	2 HP / 1.5 kW							
<b>Std. Head</b>	8.5 m							
<b>Std. Capacity</b>	0.6 m <sup>3</sup> /min							
<b>Volt</b>	230 V	380 V	400 V	415 V	525 V			
<b>Rated Current</b>	6.2 A	3.6 A	3.4 A	3.4 A	2.7 A			
<b>Pole / rpm</b>	2 P / 2820 rpm							
<b>Start Method</b>	DOL							
<b>Insulation Class</b>	F							



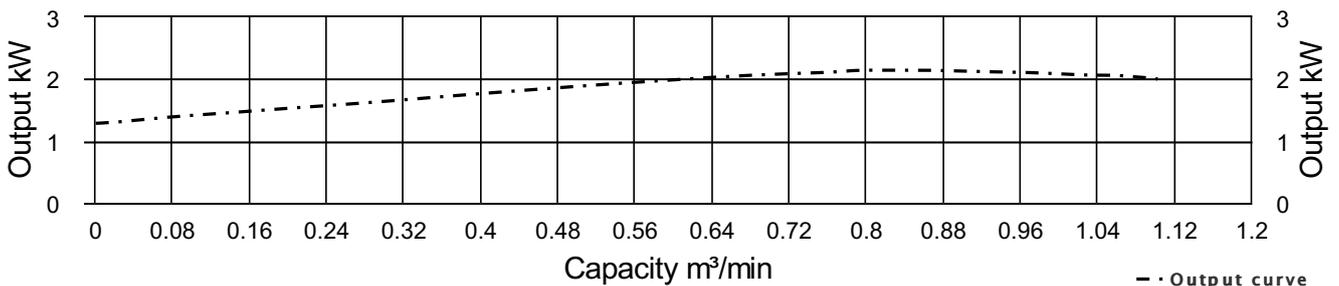
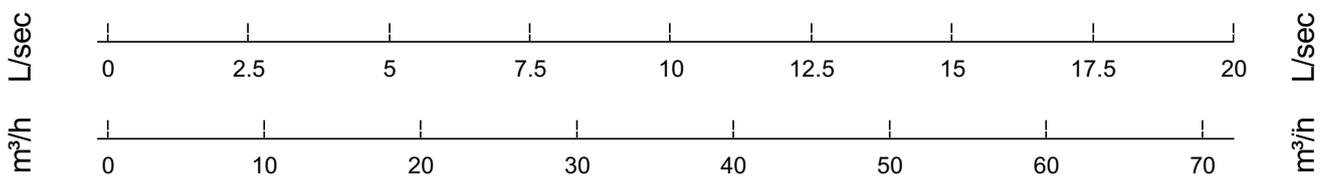
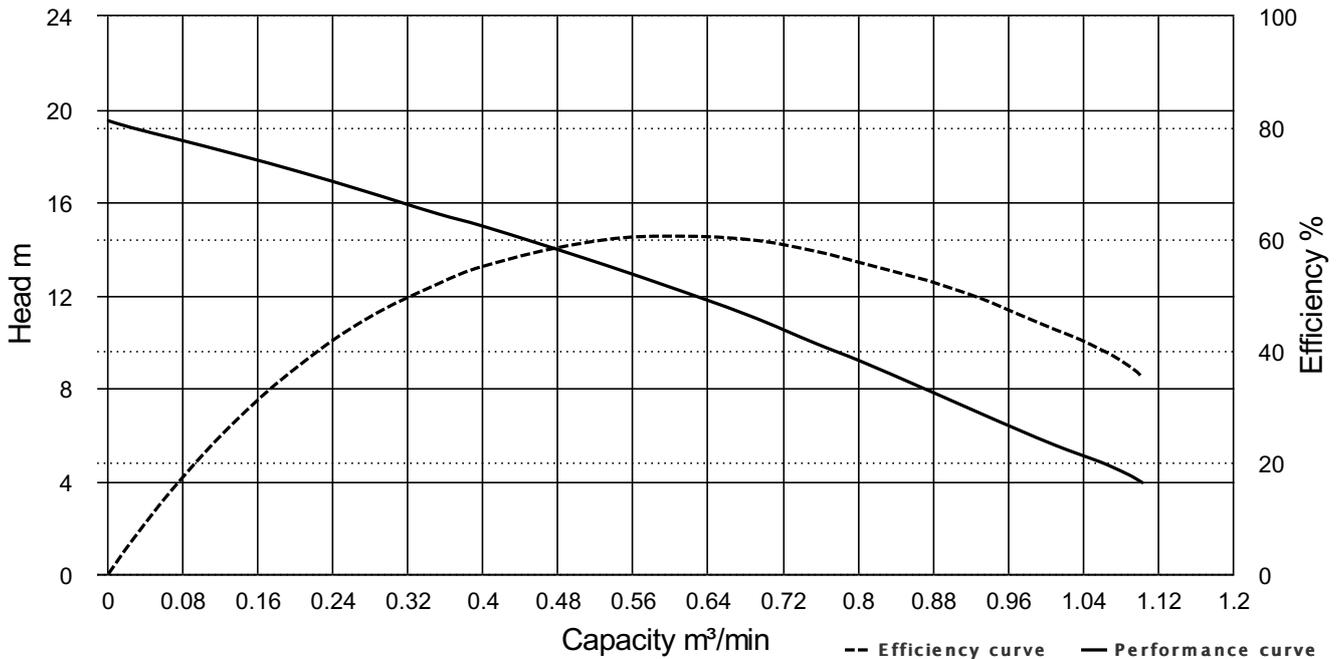
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# HCP PUMP

## PUMP PERFORMANCE CURVES

Model	80AL22.2				Ver NO.	BA0407	
Frequency / Phase	50 Hz / 1 Ø				REFERENCE SPECIFICATION		
Discharge	3" / 80 mm						
Power	3 HP / 2.2 kW						
Std. Head	12.5 m						
Std. Capacity	0.6 m <sup>3</sup> /min						
Volt	220 V	230 V	240 V				
Rated Current	15 A	14.6 A	14.4 A				
Pole / rpm	2 P / 2840 rpm						
Start Method	CAPACITOR						
Insulation Class	F						



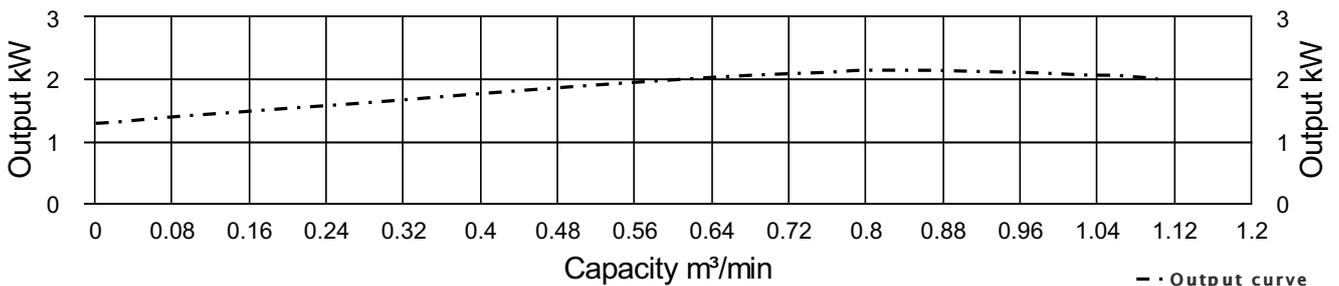
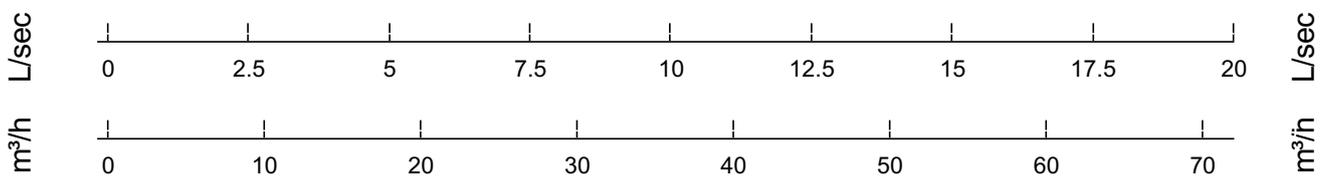
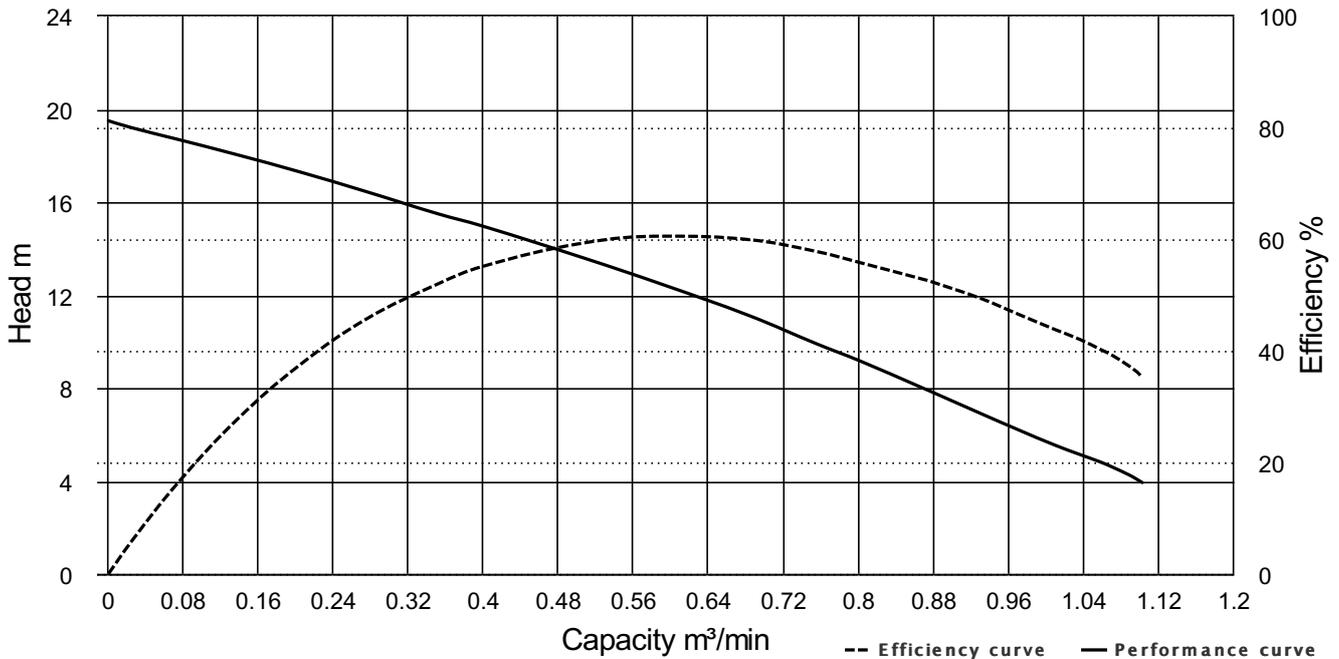
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# HCP PUMP

## PUMP PERFORMANCE CURVES

Model	80AL22.2					Ver NO.	BA0407
Frequency / Phase	50 Hz / 3 Ø					REFERENCE SPECIFICATION	
Discharge	3" / 80 mm						
Power	3 HP / 2.2 kW						
Std. Head	12.5 m						
Std. Capacity	0.6 m <sup>3</sup> /min						
Volt	230 V	380 V	400 V	415 V	525 V		
Rated Current	8.8 A	5 A	4.8 A	4.8 A	3.8 A		
Pole / rpm	2 P / 2840 rpm						
Start Method	DOL						
Insulation Class	F						



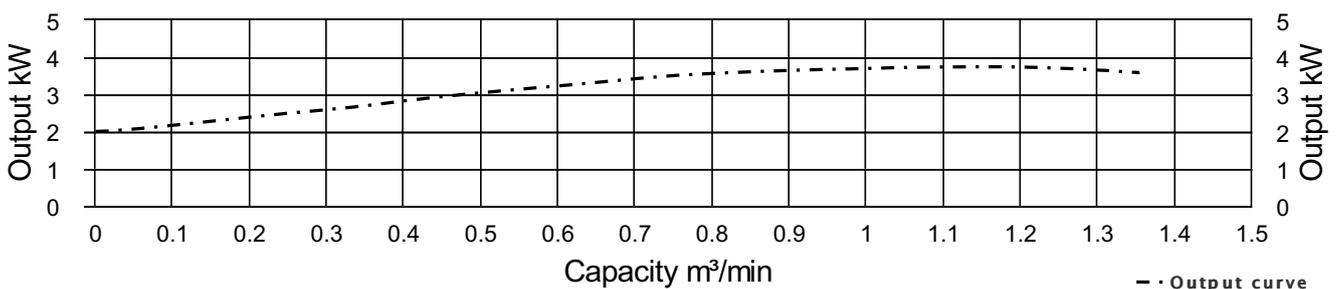
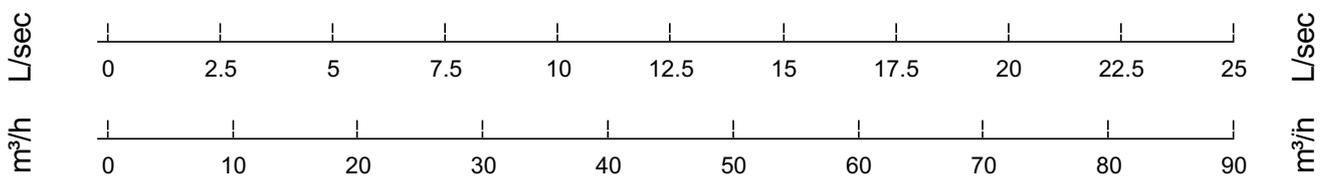
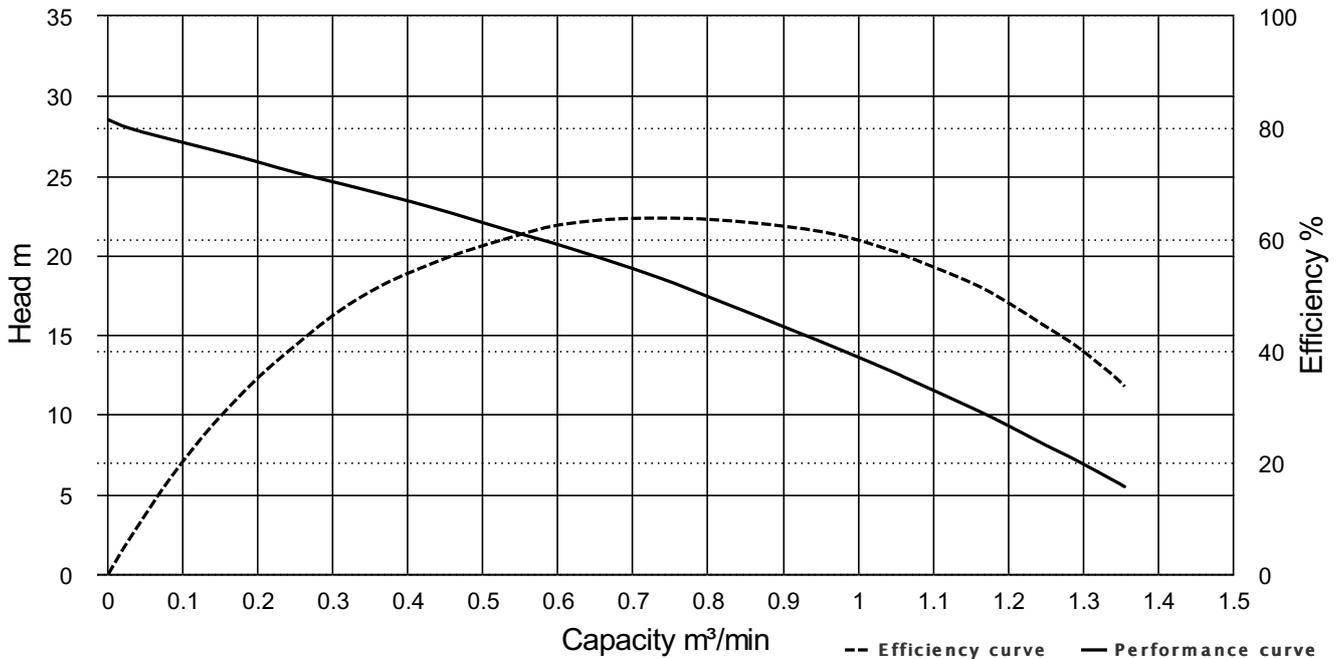
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# HCP PUMP

## PUMP PERFORMANCE CURVES

Model	80AL23.7A					Ver NO.	BA0407
Frequency / Phase	50 Hz / 3 Ø					REFERENCE SPECIFICATION	
Discharge	3" / 80 mm						
Power	5 HP / 3.7 kW						
Std. Head	20.5 m						
Std. Capacity	0.6 m <sup>3</sup> /min						
Volt	230 V	380 V	400 V	415 V	525 V		
Rated Current	14.2 A	8.2 A	7.8 A	7.8 A	6.2 A		
Pole / rpm	2 P / 2850 rpm						
Start Method	DOL						
Insulation Class	F						



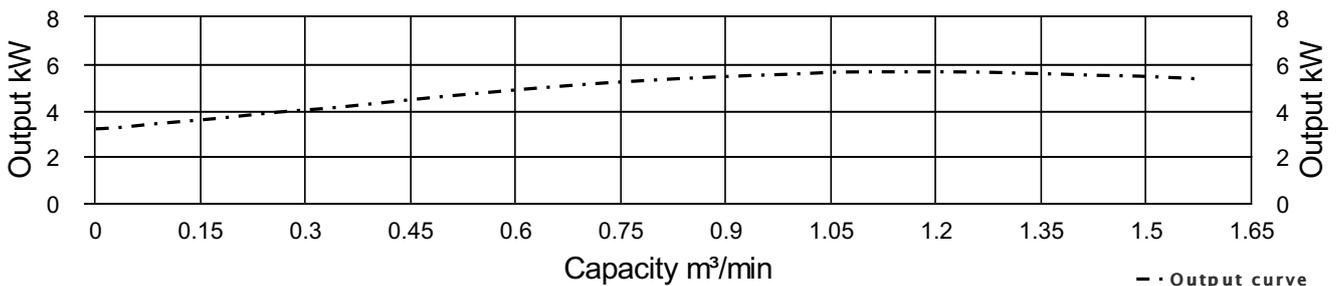
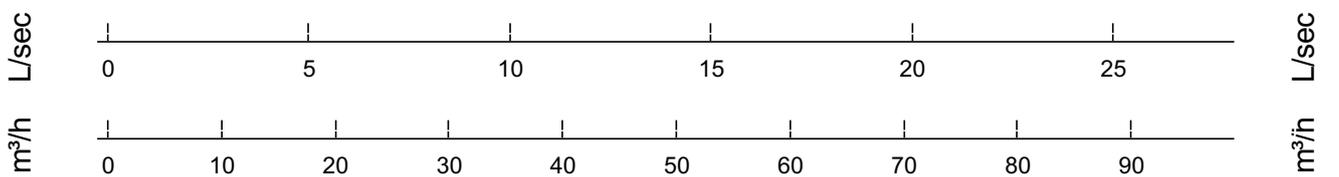
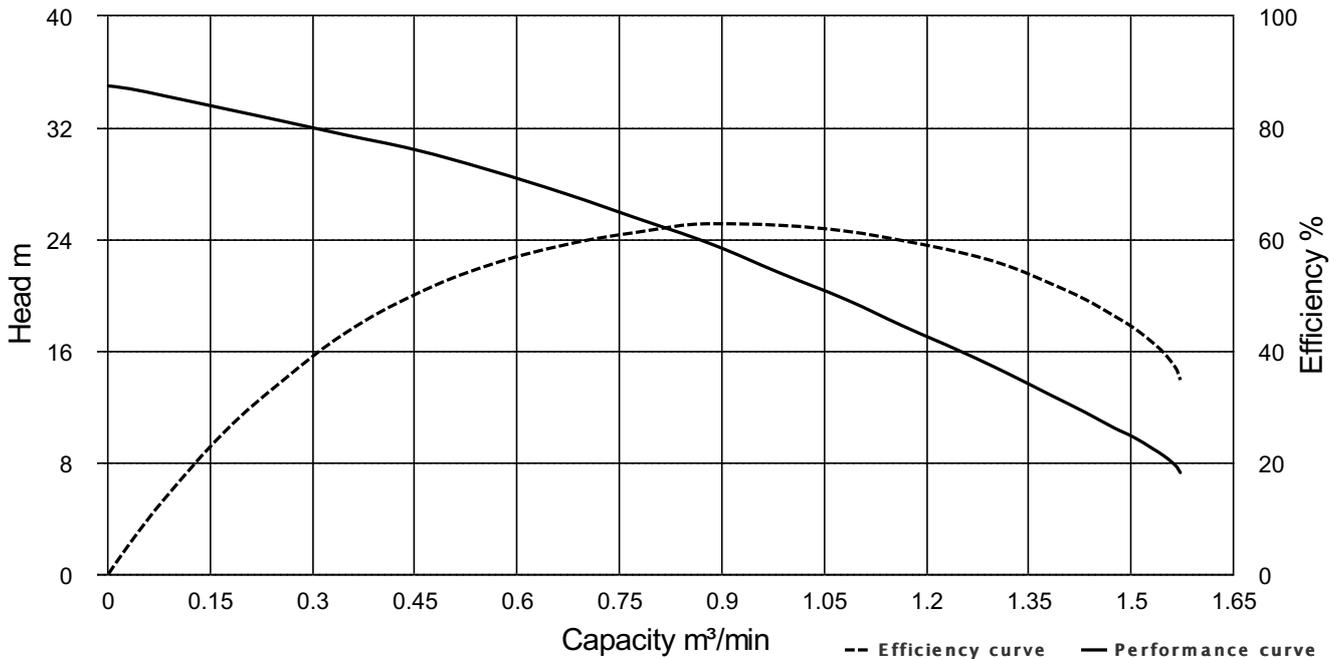
HCP PUMP MANUFACTURER CO., LTD.



# HCP PUMP

## PUMP PERFORMANCE CURVES

<b>Model</b>	80(100)AL25.5					<b>Ver NO.</b>	BA0407
<b>Frequency / Phase</b>	50 Hz / 3 Ø					<b>REFERENCE SPECIFICATION</b>	
<b>Discharge</b>	3" / 80 mm						
<b>Power</b>	7.5 HP / 5.5 kW						
<b>Std. Head</b>	28 m						
<b>Std. Capacity</b>	0.6 m <sup>3</sup> /min						
<b>Volt</b>	230 V	380 V	400 V	415 V	525 V		
<b>Rated Current</b>	20.6 A	11.7 A	11.4 A	11.4 A	9.1 A		
<b>Pole / rpm</b>	2 P / 2890 rpm						
<b>Start Method</b>	DOL						
<b>Insulation Class</b>	H						



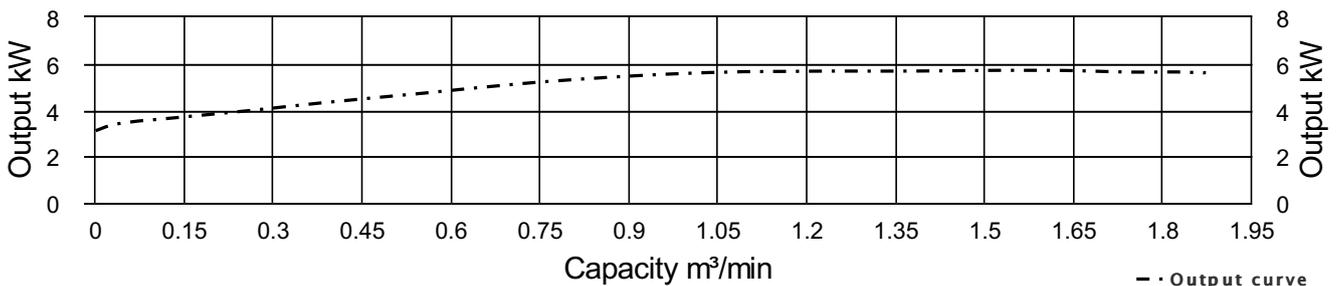
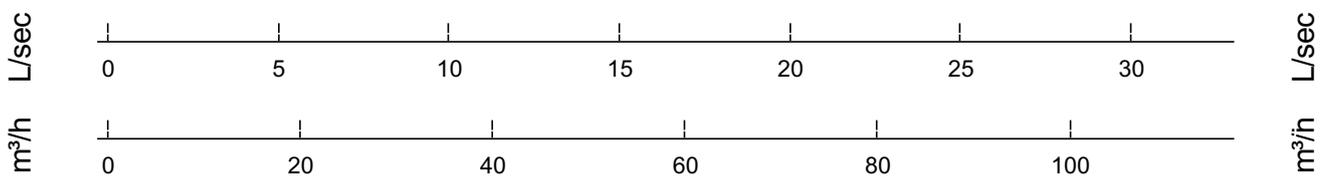
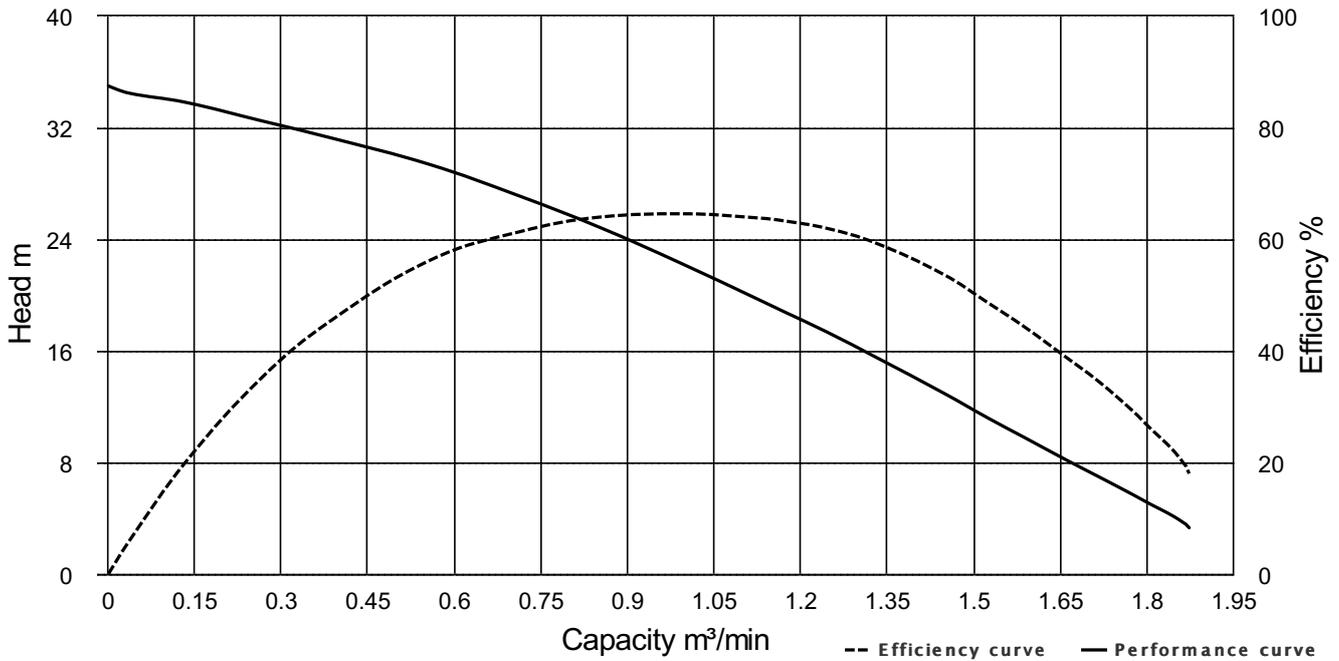
**HCP PUMP MANUFACTURER CO., LTD.**



# HCP PUMP

## PUMP PERFORMANCE CURVES

<b>Model</b>	80(100)AL25.5					<b>Ver NO.</b>	BA0407
<b>Frequency / Phase</b>	50 Hz / 3 Ø					<b>REFERENCE SPECIFICATION</b>	
<b>Discharge</b>	4" / 100 mm						
<b>Power</b>	7.5 HP / 5.5 kW						
<b>Std. Head</b>	21.5 m						
<b>Std. Capacity</b>	1 m <sup>3</sup> /min						
<b>Volt</b>	230 V	380 V	400 V	415 V	525 V		
<b>Rated Current</b>	20.6 A	11.7 A	11.4 A	11.4 A	9.1 A		
<b>Pole / rpm</b>	2 P / 2890 rpm						
<b>Start Method</b>	DOL						
<b>Insulation Class</b>	H						



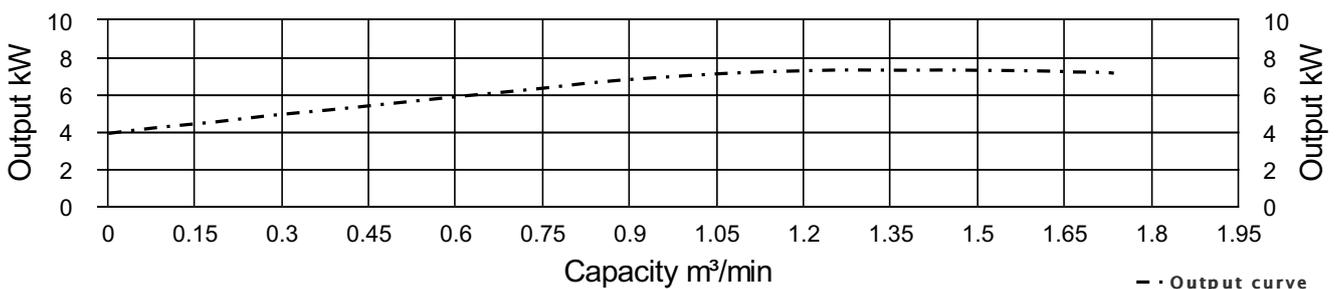
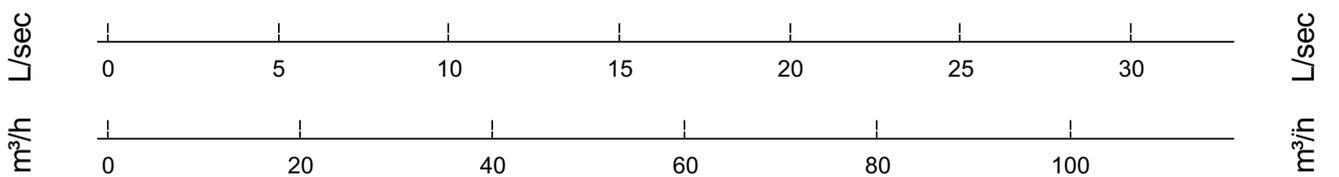
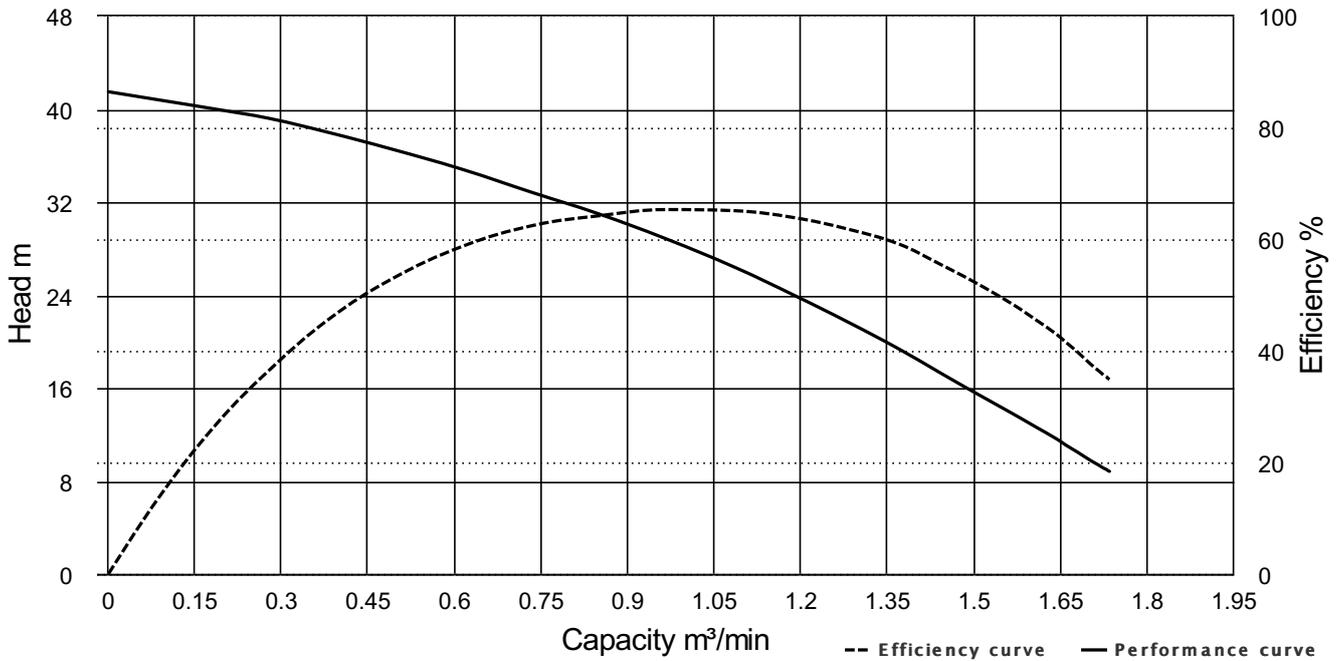
**HCP PUMP MANUFACTURER CO., LTD.**



# HCP PUMP

## PUMP PERFORMANCE CURVES

Model	80(100)AL27.5					Ver NO.	BA0407
Frequency / Phase	50 Hz / 3 Ø					REFERENCE SPECIFICATION	
Discharge	3" / 80 mm						
Power	10 HP / 7.5 kW						
Std. Head	34.5 m						
Std. Capacity	0.6 m <sup>3</sup> /min						
Volt	230 V	380 V	400 V	415 V	525 V		
Rated Current	27.6 A	15.7 A	15.2 A	15.2 A	12.2 A		
Pole / rpm	2 P / 2900 rpm						
Start Method	DOL						
Insulation Class	H						



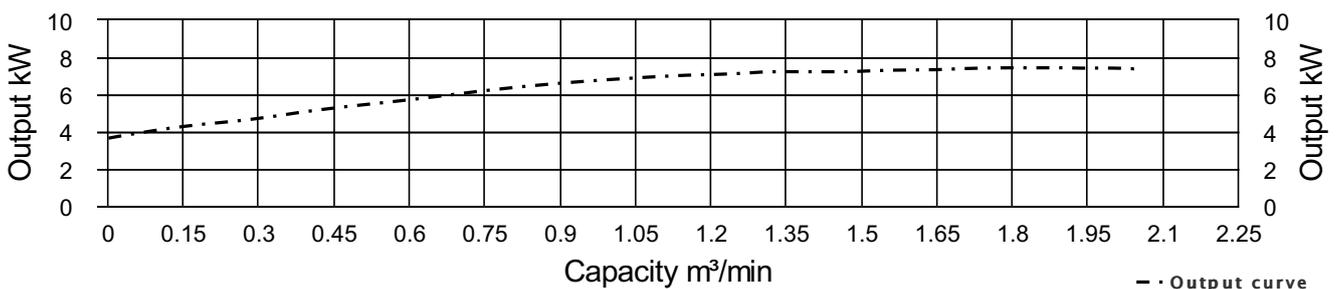
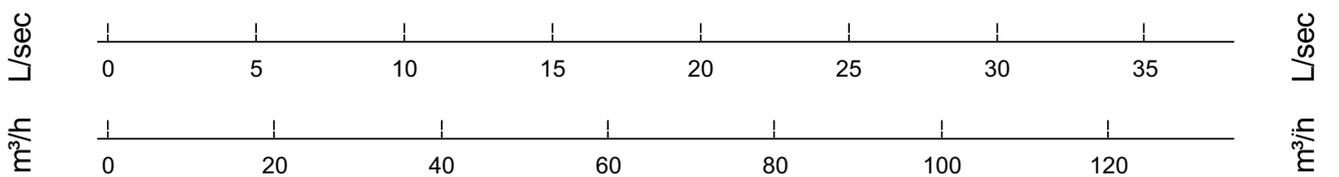
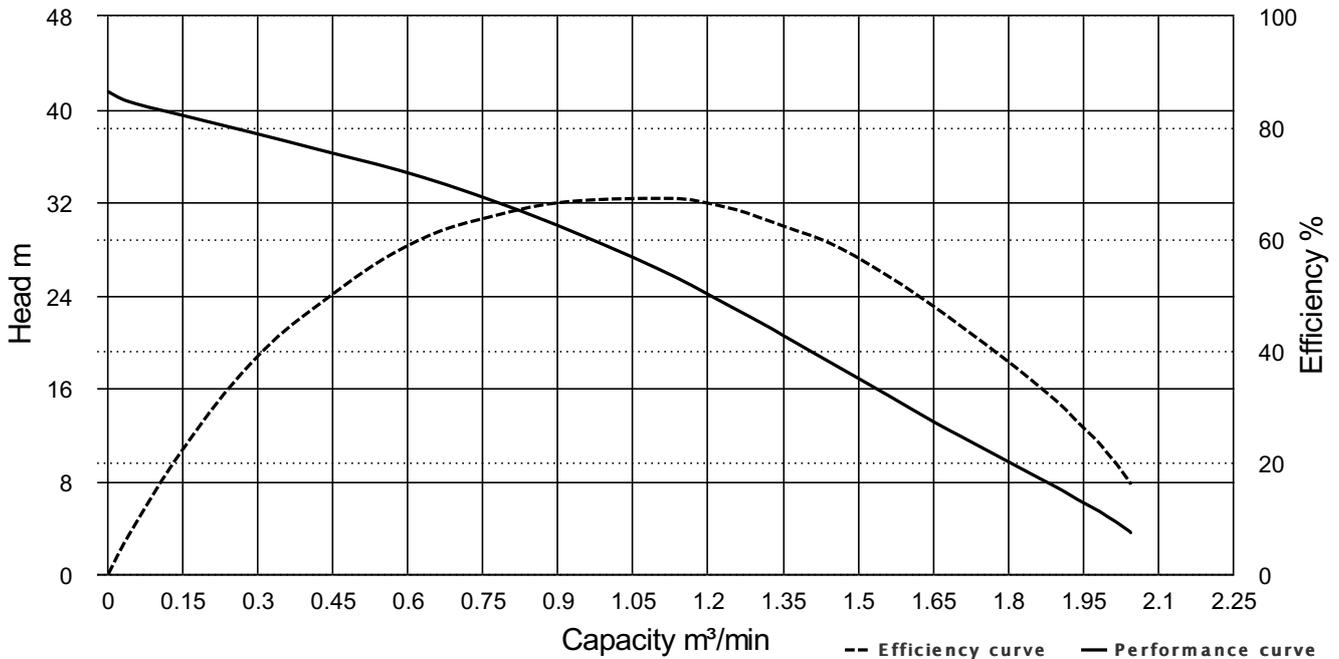
HCP PUMP MANUFACTURER CO., LTD.



# HCP PUMP

## PUMP PERFORMANCE CURVES

Model	80(100)AL27.5					Ver NO.	BA0407
Frequency / Phase	50 Hz / 3 Ø					REFERENCE SPECIFICATION	
Discharge	4" / 100 mm						
Power	10 HP / 7.5 kW						
Std. Head	28 m						
Std. Capacity	1 m <sup>3</sup> /min						
Volt	230 V	380 V	400 V	415 V	525 V		
Rated Current	27.6 A	15.7 A	15.2 A	15.2 A	12.2 A		
Pole / rpm	2 P / 2900 rpm						
Start Method	DOL						
Insulation Class	H						



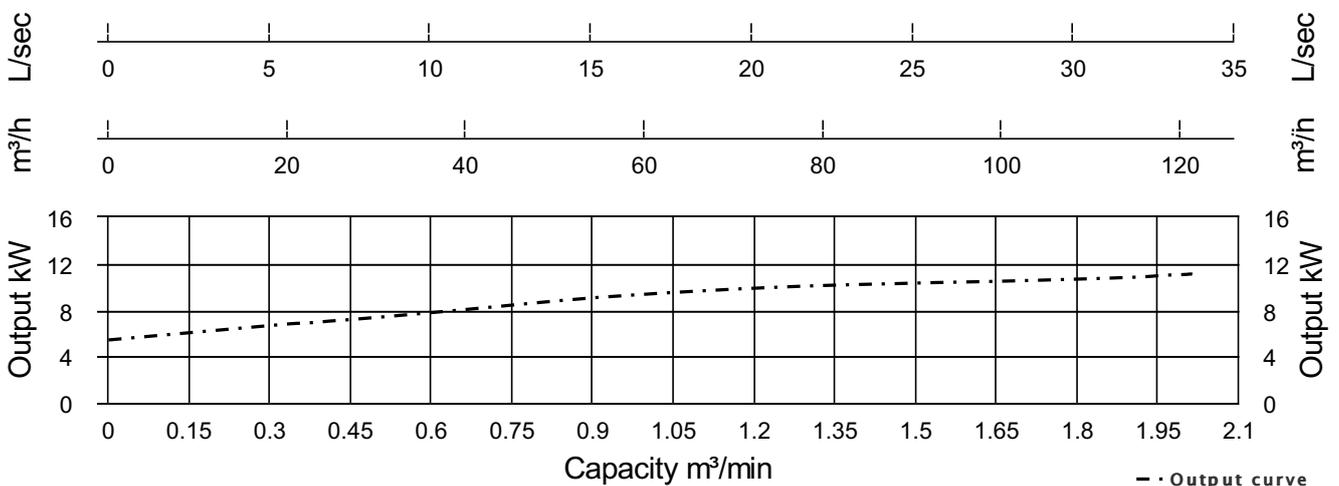
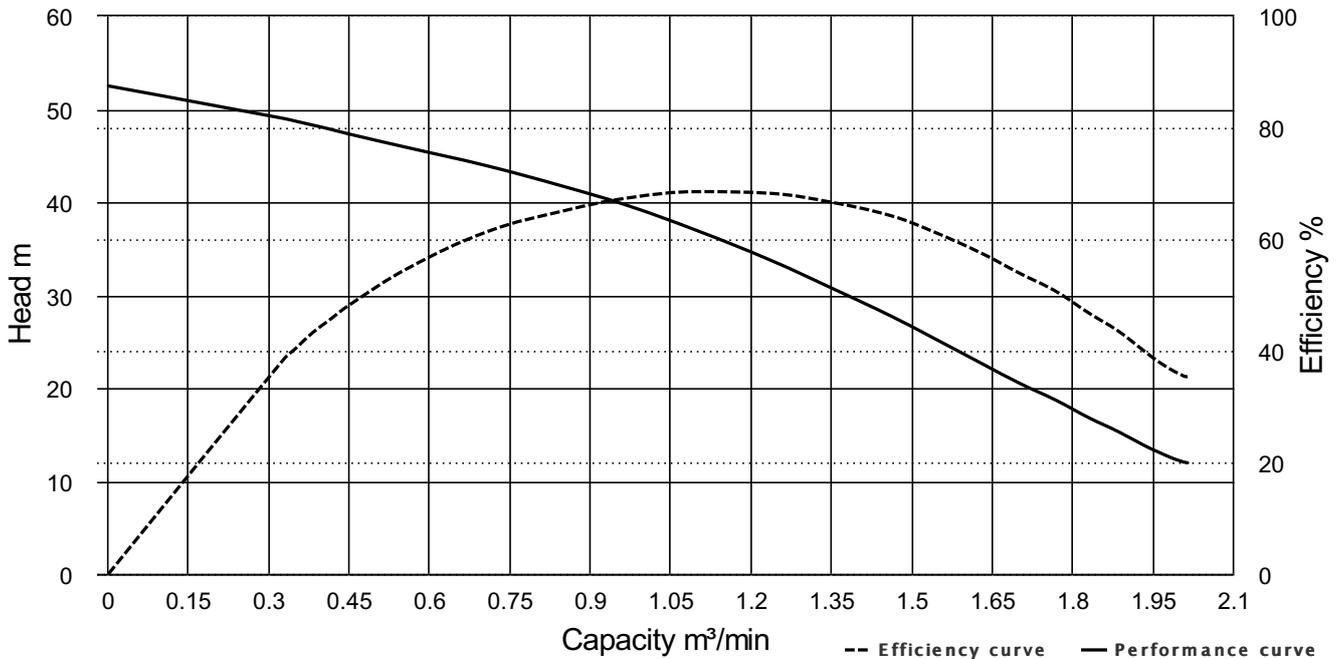
HCP PUMP MANUFACTURER CO., LTD.



# HCP PUMP

## PUMP PERFORMANCE CURVES

<b>Model</b>	80(100)AL211					<b>Ver NO.</b>	BA0407
<b>Frequency / Phase</b>	50 Hz / 3 Ø					<b>REFERENCE SPECIFICATION</b>	
<b>Discharge</b>	3" / 80 mm						
<b>Power</b>	15 HP / 11 kW						
<b>Std. Head</b>	45 m						
<b>Std. Capacity</b>	0.6 m <sup>3</sup> /min						
<b>Volt</b>	230 V	380 V	400 V	415 V	525 V		
<b>Rated Current</b>	39 A	22.2 A	21.6 A	21.6 A	17.3 A		
<b>Pole / rpm</b>	2 P / 2900 rpm						
<b>Start Method</b>	STAR-DELTA / DOL						
<b>Insulation Class</b>	H						



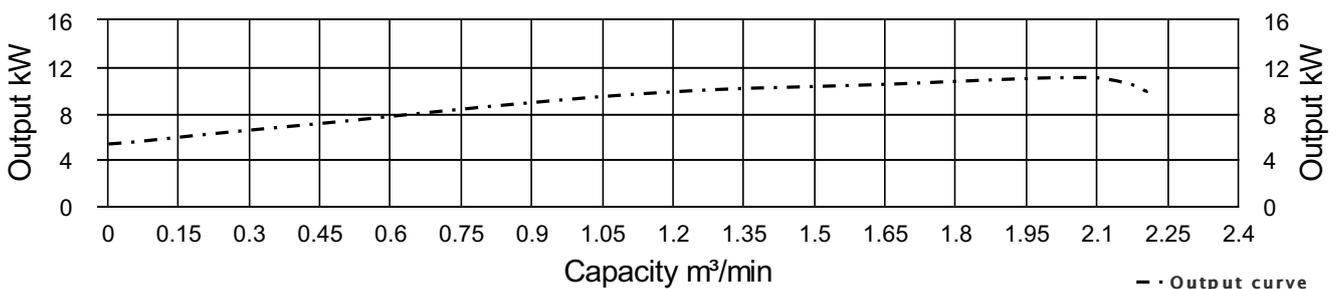
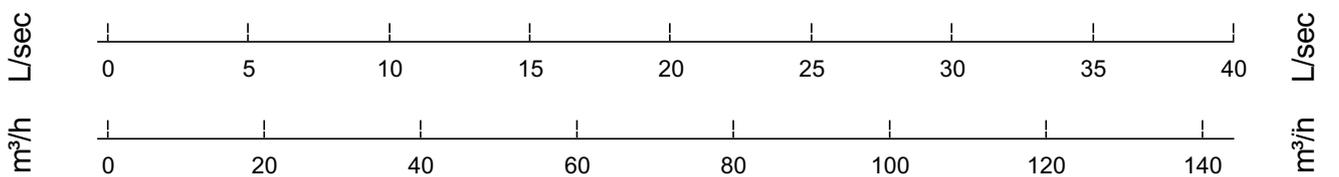
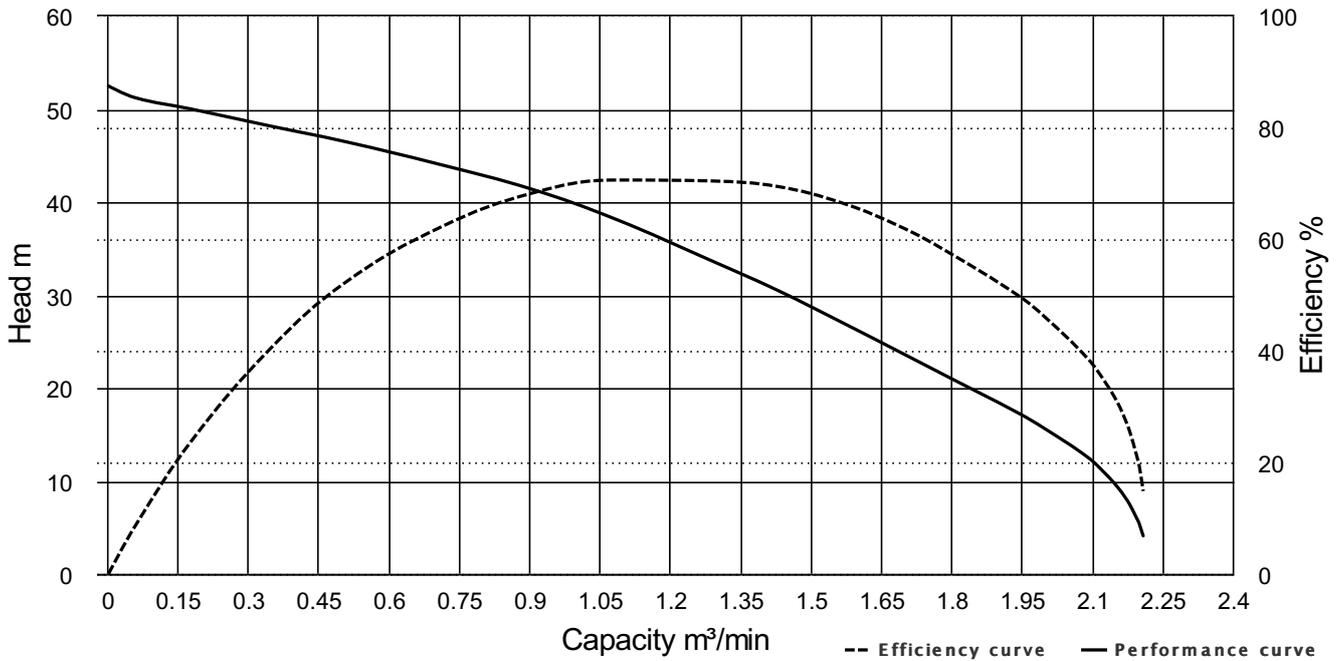
**HCP PUMP MANUFACTURER CO., LTD.**



# HCP PUMP

## PUMP PERFORMANCE CURVES

<b>Model</b>	80(100)AL211					<b>Ver NO.</b>	BA0407
<b>Frequency / Phase</b>	50 Hz / 3 Ø					<b>REFERENCE SPECIFICATION</b>	
<b>Discharge</b>	4" / 100 mm						
<b>Power</b>	15 HP / 11 kW						
<b>Std. Head</b>	39.5 m						
<b>Std. Capacity</b>	1 m <sup>3</sup> /min						
<b>Volt</b>	230 V	380 V	400 V	415 V	525 V		
<b>Rated Current</b>	39 A	22.2 A	21.6 A	21.6 A	17.3 A		
<b>Pole / rpm</b>	2 P / 2900 rpm						
<b>Start Method</b>	STAR-DELTA / DOL						
<b>Insulation Class</b>	H						



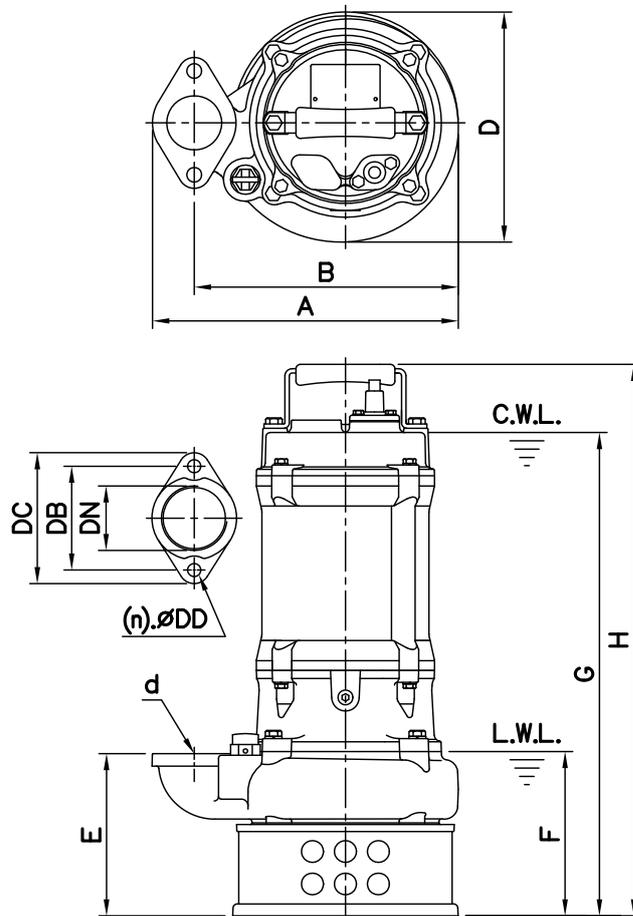
**HCP PUMP MANUFACTURER CO., LTD.**

## DIMENSIONS

NO: S2AL0215032-00

MODEL: 50AL21.5 / 22.2

1Ø / 3Ø



Flange	
Female Thread	
PF	NPT

Dimensions—mm

Weight:kg

Model	d	A	B	D	E	F	G	H	WT1	Elbow (Flange)Set	DN	DB	DC	DD	(n)QTY	WT2
50AL21.5 1Ø	50	278	240	212	150	150	502	565	35	EF2-96	50	96	121	12	2	1
50AL21.5 3Ø	50	278	240	212	150	150	451	514	31	EF2-96	50	96	121	12	2	1
50AL22.2 1Ø	50	278	240	212	150	150	535	598	38	EF2-96	50	96	121	12	2	1
50AL22.2 3Ø	50	278	240	212	150	150	451	514	34	EF2-96	50	96	121	12	2	1

Dimensions—inch

Weight:lb

Model	d	A	B	D	E	F	G	H	WT1	Elbow (Flange)Set	DN	DB	DC	DD	(n)QTY	WT2
50AL21.5 1Ø	2	10 <sup>15</sup> / <sub>16</sub>	9 <sup>7</sup> / <sub>16</sub>	8 <sup>3</sup> / <sub>8</sub>	5 <sup>7</sup> / <sub>8</sub>	5 <sup>7</sup> / <sub>8</sub>	19 <sup>3</sup> / <sub>4</sub>	22 <sup>3</sup> / <sub>4</sub>	77	EF2-96	2	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1/2	2	1
50AL21.5 3Ø	2	10 <sup>15</sup> / <sub>16</sub>	9 <sup>7</sup> / <sub>16</sub>	8 <sup>3</sup> / <sub>8</sub>	5 <sup>7</sup> / <sub>8</sub>	5 <sup>7</sup> / <sub>8</sub>	17 <sup>3</sup> / <sub>4</sub>	20 <sup>3</sup> / <sub>4</sub>	68	EF2-96	2	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1/2	2	1
50AL22.2 1Ø	2	10 <sup>15</sup> / <sub>16</sub>	9 <sup>7</sup> / <sub>16</sub>	8 <sup>3</sup> / <sub>8</sub>	5 <sup>7</sup> / <sub>8</sub>	5 <sup>7</sup> / <sub>8</sub>	21 <sup>1</sup> / <sub>16</sub>	23 <sup>3</sup> / <sub>16</sub>	84	EF2-96	2	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1/2	2	1
50AL22.2 3Ø	2	10 <sup>15</sup> / <sub>16</sub>	9 <sup>7</sup> / <sub>16</sub>	8 <sup>3</sup> / <sub>8</sub>	5 <sup>7</sup> / <sub>8</sub>	5 <sup>7</sup> / <sub>8</sub>	17 <sup>3</sup> / <sub>4</sub>	20 <sup>3</sup> / <sub>4</sub>	75	EF2-96	2	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1/2	2	1

C.W.L.:Continuous Running Water Level  
L.W.L.:Lowest Running Water Level

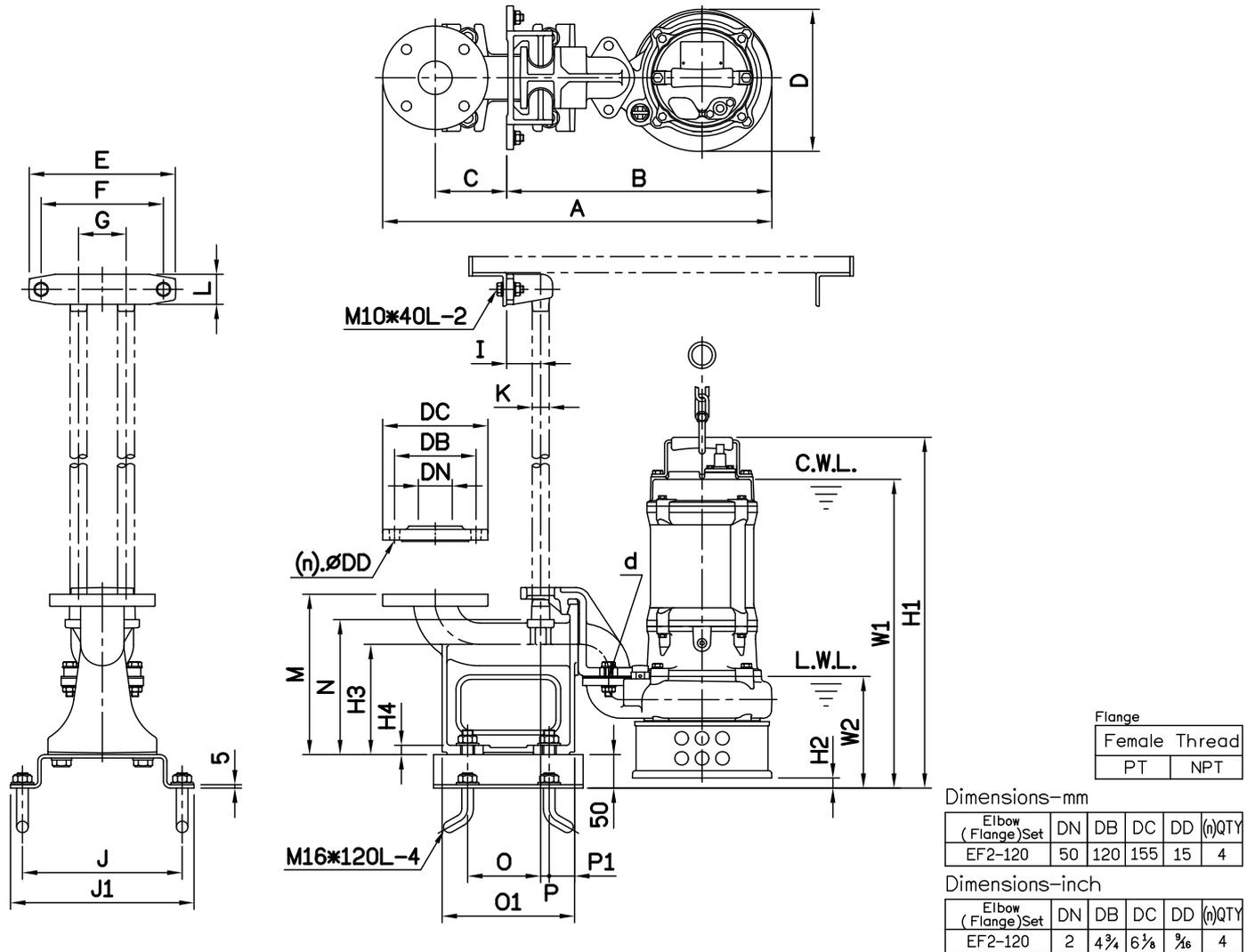
WT1:Pump Weight(Without Cable)  
WT2:Elbow Set Weight

## DIMENSIONS

NO: T2AL0222032-00

MODEL: 50AL21.5 / 22.2

1Ø / 3Ø



Dimensions—mm

Model	d	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	Weight:kg	
																											GRS Set	WT2
50AL21.5 1Ø	50	573	390	105	213	215	180	70	50	235	270	1"	45	240	202	108	195	13	38	517	167	580	15	165	14	35	T50E-E5	21
50AL22.2 1Ø	50	573	390	105	213	215	180	70	50	235	270	1"	45	240	202	108	195	13	38	550	167	613	15	165	14	38	T50E-E5	21
50AL21.5 3Ø	50	573	390	105	213	215	180	70	50	235	270	1"	45	240	202	108	195	13	38	462	167	525	15	165	14	31	T50E-E5	21
50AL22.2 3Ø	50	573	390	105	213	215	180	70	50	235	270	1"	45	240	202	108	195	13	38	495	167	558	15	165	14	34	T50E-E5	21

Dimensions—inch

Model	d	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	Weight:lb	
																											GRS Set	WT2
50AL21.5 1Ø	2	22 3/16	15 3/8	4 1/8	8 3/8	8 1/2	7 1/8	2 3/4	2	9 1/4	10 5/8	1	1 3/4	9 1/8	7 15/16	4 1/4	7 1/2	1/2	1 1/2	20 3/8	6 3/8	22 3/8	5/8	6 1/2	5/8	77	T50E-E5	47
50AL22.2 1Ø	2	22 3/16	15 3/8	4 1/8	8 3/8	8 1/2	7 1/8	2 3/4	2	9 1/4	10 5/8	1	1 3/4	9 1/8	7 15/16	4 1/4	7 1/2	1/2	1 1/2	21 1/8	6 3/8	24 1/8	5/8	6 1/2	5/8	84	T50E-E5	47
50AL21.5 3Ø	2	22 3/16	15 3/8	4 1/8	8 3/8	8 1/2	7 1/8	2 3/4	2	9 1/4	10 5/8	1	1 3/4	9 1/8	7 15/16	4 1/4	7 1/2	1/2	1 1/2	18 3/8	6 3/8	20 1/8	5/8	6 1/2	5/8	68	T50E-E5	47
50AL22.2 3Ø	2	22 3/16	15 3/8	4 1/8	8 3/8	8 1/2	7 1/8	2 3/4	2	9 1/4	10 5/8	1	1 3/4	9 1/8	7 15/16	4 1/4	7 1/2	1/2	1 1/2	19 1/2	6 3/8	21 1/8	5/8	6 1/2	5/8	75	T50E-E5	47

C.W.L.:Continuous Running Water Level  
L.W.L.:Lowest Running Water Level

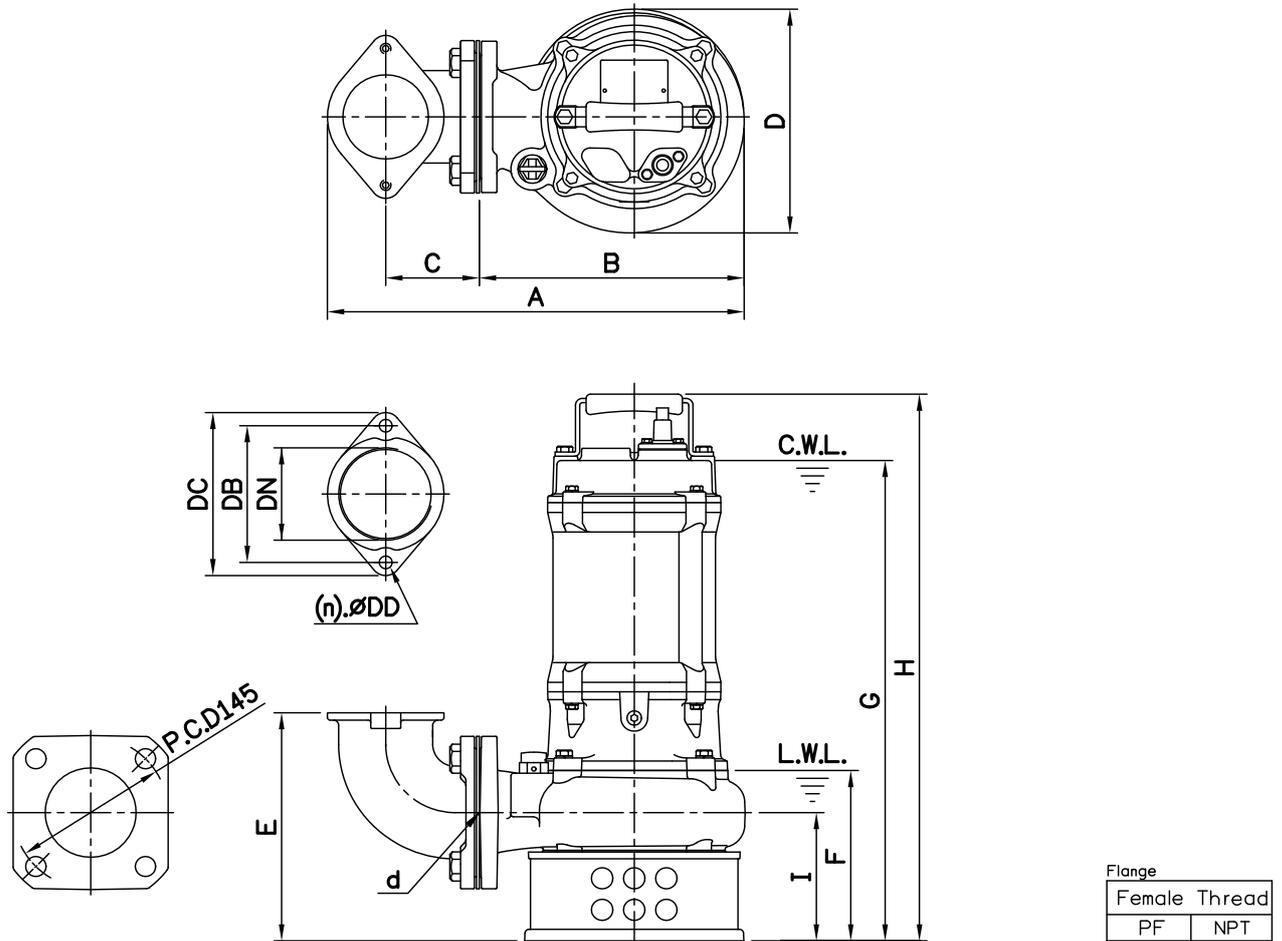
WT1:Pump Weight(Without Cable)  
WT2:GRS Set Weight

## DIMENSIONS

NO: S3AL0222032-00

MODEL: 80AL21.5 / 22.2

1Ø / 3Ø



Dimensions-mm

Weight:kg

Model	d	A	B	C	D	E	F	G	H	I	WT1	Elbow (Flange)Set	DN	DB	DC	DD	(n)QTY	WT2
80AL21.5 1Ø	80	391	249	88	214	217	162	512	575	122	37	EB3-130	80	130	155	12	2	5
80AL21.5 3Ø	80	391	249	88	214	217	162	457	520	122	32	EB3-130	80	130	155	12	2	5
80AL22.2 1Ø	80	391	249	88	214	217	162	539	602	122	39	EB3-130	80	130	155	12	2	5
80AL22.2 3Ø	80	391	249	88	214	217	162	457	520	122	35	EB3-130	80	130	155	12	2	5

Dimensions-inch

Weight:lb

Model	d	A	B	C	D	E	F	G	H	I	WT1	Elbow (Flange)Set	DN	DB	DC	DD	(n)QTY	WT2
80AL21.5 1Ø	3	15 <sup>3</sup> / <sub>8</sub>	9 <sup>13</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	8 <sup>7</sup> / <sub>16</sub>	8 <sup>5</sup> / <sub>16</sub>	6 <sup>3</sup> / <sub>8</sub>	20 <sup>3</sup> / <sub>16</sub>	22 <sup>5</sup> / <sub>8</sub>	4 <sup>13</sup> / <sub>16</sub>	82	EB3-130	3	5 <sup>1</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>8</sub>	½	2	11
80AL21.5 3Ø	3	15 <sup>3</sup> / <sub>8</sub>	9 <sup>13</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	8 <sup>7</sup> / <sub>16</sub>	8 <sup>5</sup> / <sub>16</sub>	6 <sup>3</sup> / <sub>8</sub>	18	20 <sup>1</sup> / <sub>2</sub>	4 <sup>13</sup> / <sub>16</sub>	71	EB3-130	3	5 <sup>1</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>8</sub>	½	2	11
80AL22.2 1Ø	3	15 <sup>3</sup> / <sub>8</sub>	9 <sup>13</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	8 <sup>7</sup> / <sub>16</sub>	8 <sup>5</sup> / <sub>16</sub>	6 <sup>3</sup> / <sub>8</sub>	21 <sup>1</sup> / <sub>4</sub>	23 <sup>1</sup> / <sub>8</sub>	4 <sup>13</sup> / <sub>16</sub>	86	EB3-130	3	5 <sup>1</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>8</sub>	½	2	11
80AL22.2 3Ø	3	15 <sup>3</sup> / <sub>8</sub>	9 <sup>13</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	8 <sup>7</sup> / <sub>16</sub>	8 <sup>5</sup> / <sub>16</sub>	6 <sup>3</sup> / <sub>8</sub>	18	20 <sup>1</sup> / <sub>2</sub>	4 <sup>13</sup> / <sub>16</sub>	77	EB3-130	3	5 <sup>1</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>8</sub>	½	2	11

C.W.L.:Continuous Running Water Level  
L.W.L.:Lowest Running Water Level

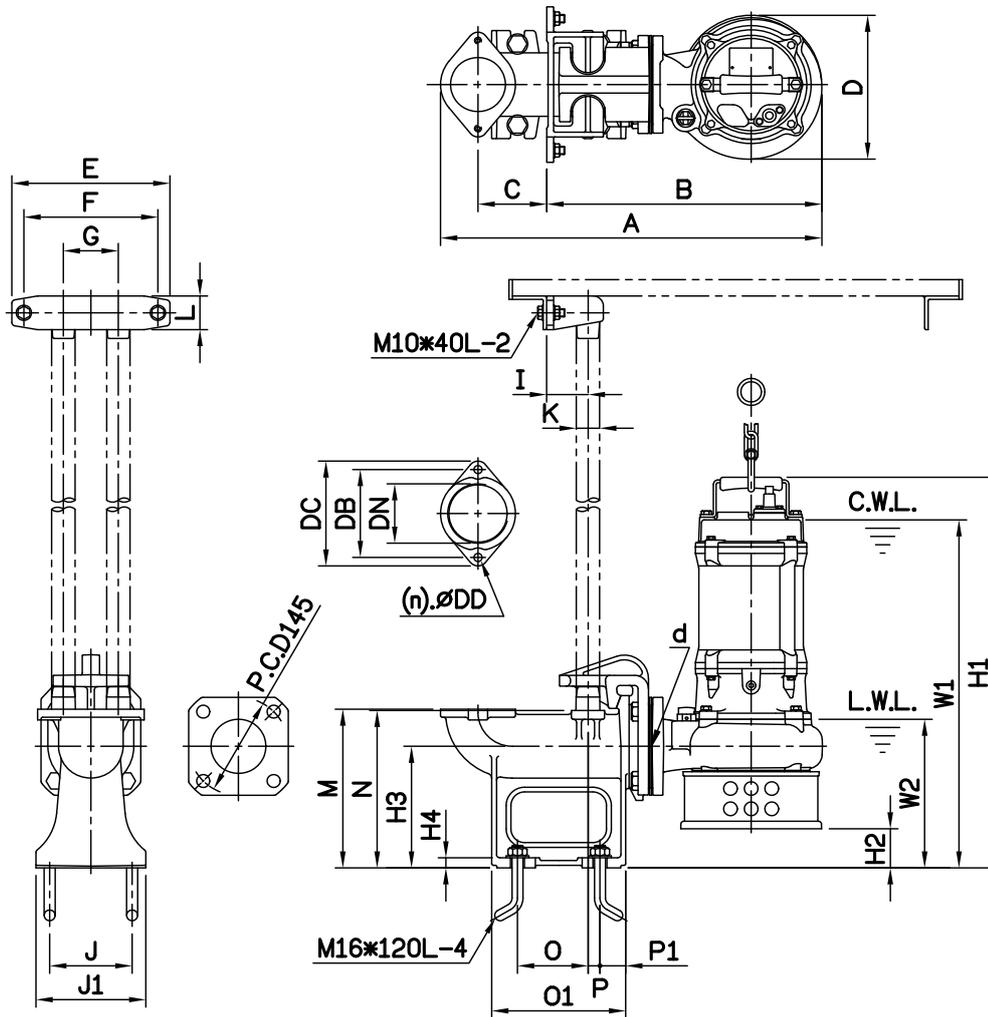
WT1:Pump Weight(Without Cable)  
WT2:Elbow Set Weight

## DIMENSIONS

NO: T3AL0222032-00

MODEL: 80AL21.5 / 22.2

1Ø / 3Ø



Flange	
Female Thread	
PF	NPT

Dimensions-mm

Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY
EF3-130	80	130	155	12	2

Dimensions-inch

Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY
EF3-130	3	5 1/8	6 1/8	1/2	2

Dimensions-mm

Model	d	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	Weight:kg	
																											GRS Set	WT2
80AL21.5 1Ø	80	556	401	100	214	230	195	80	60	120	160	1 1/4"	50	235	233	103	195	18	38	570	218	633	58	180	15	37	T2-80	20
80AL22.2 1Ø	80	556	401	100	214	230	195	80	60	120	160	1 1/4"	50	235	233	103	195	18	38	597	218	660	58	180	15	39	T2-80	20
80AL21.5 3Ø	80	556	401	100	214	230	195	80	60	120	160	1 1/4"	50	235	233	103	195	18	38	515	218	578	58	180	15	32	T2-80	20
80AL22.2 3Ø	80	556	401	100	214	230	195	80	60	120	160	1 1/4"	50	235	233	103	195	18	38	515	218	578	58	180	15	35	T2-80	20

Dimensions-inch

Model	d	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	Weight:lb	
																											GRS Set	WT2
80AL21.5 1Ø	3	21 7/8	15 3/8	3 15/16	8 7/16	9 1/16	7 11/16	3 3/8	2 3/8	4 3/4	6 5/16	1 1/4	2	9 3/4	9 3/16	4 1/16	7 11/16	1 1/8	1 1/2	22 7/16	8 9/16	24 5/16	2 5/16	7 1/16	5/16	82	T2-80	43
80AL22.2 1Ø	3	21 7/8	15 3/8	3 15/16	8 7/16	9 1/16	7 11/16	3 3/8	2 3/8	4 3/4	6 5/16	1 1/4	2	9 3/4	9 3/16	4 1/16	7 11/16	1 1/8	1 1/2	23 1/2	8 9/16	26	2 5/16	7 1/16	5/16	86	T2-80	43
80AL21.5 3Ø	3	21 7/8	15 3/8	3 15/16	8 7/16	9 1/16	7 11/16	3 3/8	2 3/8	4 3/4	6 5/16	1 1/4	2	9 3/4	9 3/16	4 1/16	7 11/16	1 1/8	1 1/2	20 1/4	8 9/16	22 3/4	2 5/16	7 1/16	5/16	71	T2-80	43
80AL22.2 3Ø	3	21 7/8	15 3/8	3 15/16	8 7/16	9 1/16	7 11/16	3 3/8	2 3/8	4 3/4	6 5/16	1 1/4	2	9 3/4	9 3/16	4 1/16	7 11/16	1 1/8	1 1/2	20 1/4	8 9/16	22 3/4	2 5/16	7 1/16	5/16	77	T2-80	43

C.W.L.:Continuous Running Water Level  
L.W.L.:Lowest Running Water Level

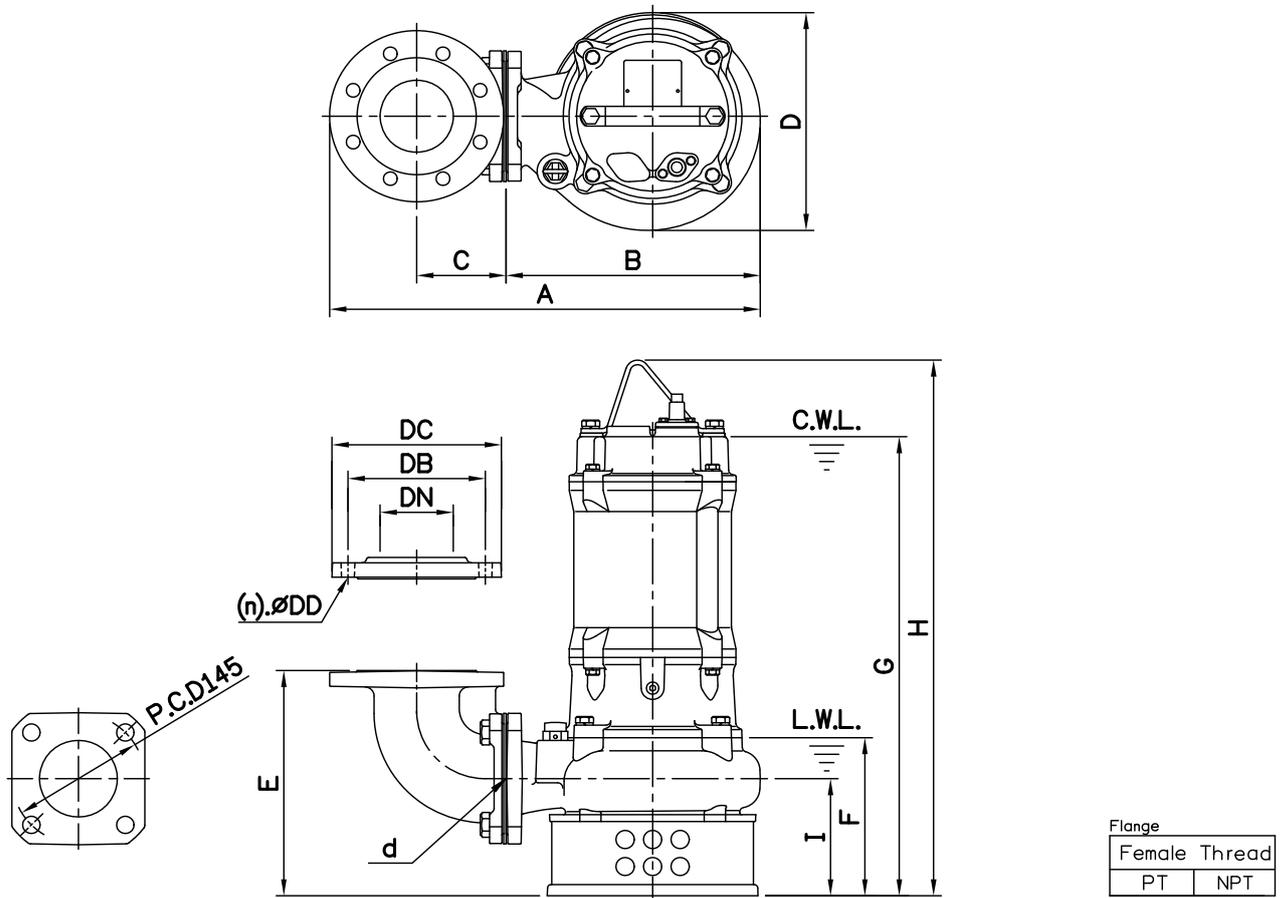
WT1:Pump Weight(Without Cable)  
WT2:GRS Set Weight

## DIMENSIONS

NO: S3AL0237A32-01

MODEL: 80AL23.7A

3Ø



Dimensions—mm

Weight:kg

Model	d	A	B	C	D	E	F	G	H	I	WT1	Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY	WT2
80AL23.7A	80	470	278	98	242	250	176	510	595	130	49	EB3-150A	80	150	185	15	8	12

Dimensions—inch

Weight:lb

Model	d	A	B	C	D	E	F	G	H	I	WT1	Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY	WT2
80AL23.7A	3	18½	10¾	3⅞	9½	9¾	6⅞	20⅞	22¾	5⅞	108	EB3-150A	3	5⅞	7⅞	¾	8	26

C.W.L.:Continuous Running Water Level  
L.W.L.:Lowest Running Water Level

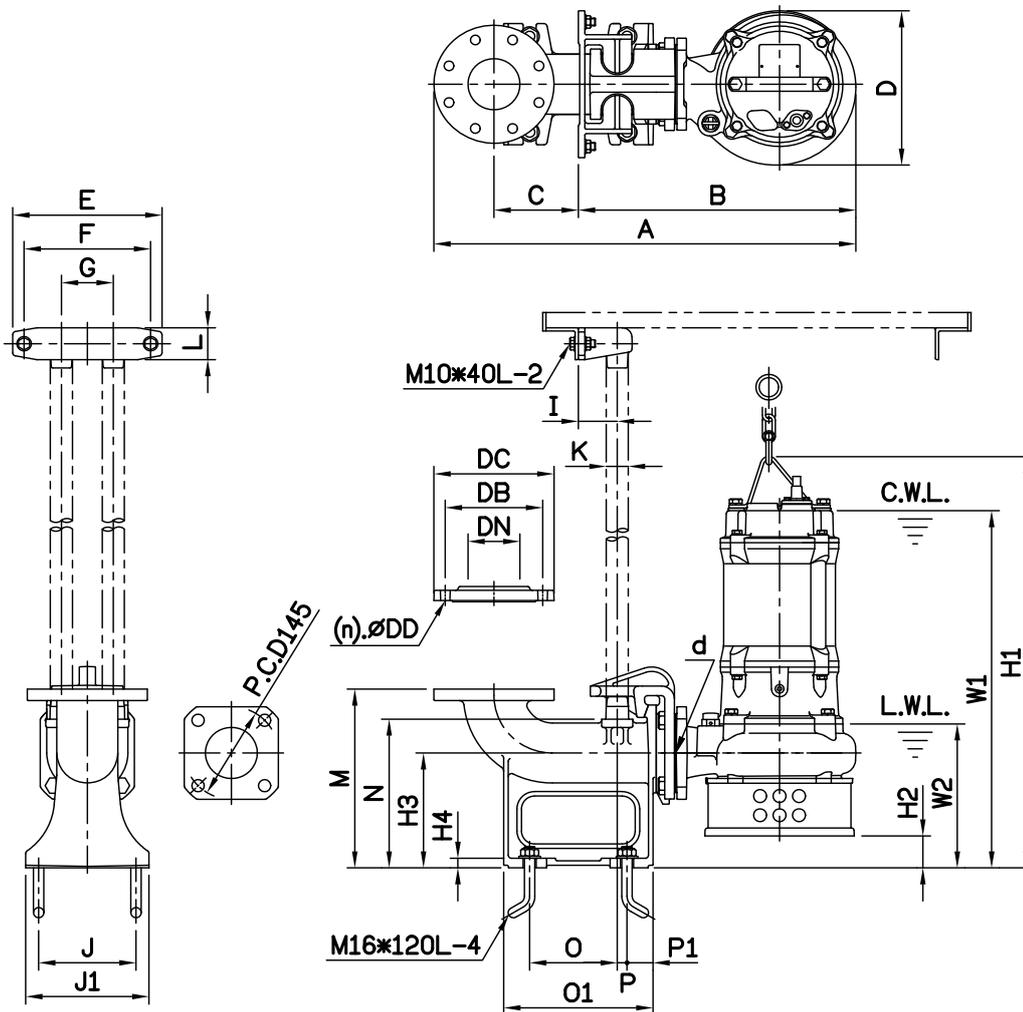
WT1:Pump Weight(Without Cable)  
WT2:Elbow Set Weight

## DIMENSIONS

NO: T3AL0237A32-01

MODEL: 80AL23.7A

3Ø



Flange	
Female Thread	
PT	NPT

Dimensions-mm

Elbow (Flange)Set	DN	DB	DC	DD	(n)QTY
EF3-150	80	150	185	15	8

Dimensions-inch

Elbow (Flange)Set	DN	DB	DC	DD	(n)QTY
EF3-150	3	5 <sup>15</sup> / <sub>16</sub>	7 <sup>7</sup> / <sub>16</sub>	<sup>9</sup> / <sub>16</sub>	8

Dimensions-mm

Model	d	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	Weight:kg	
																											GRS Set	WT2
80AL23.7A	80	653	430	130	242	230	195	80	60	150	190	1 <sup>1</sup> / <sub>4</sub>	50	280	233	135	230	15	40	560	226	645	50	180	15	49	T80D	27

Dimensions-inch

Model	d	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	Weight:lb	
																											GRS Set	WT2
80AL23.7A	3	25 <sup>11</sup> / <sub>16</sub>	16 <sup>1</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>16</sub>	9 <sup>1</sup> / <sub>2</sub>	9 <sup>1</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub>	2	11	9 <sup>3</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>16</sub>	9 <sup>1</sup> / <sub>16</sub>	<sup>9</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>	22 <sup>1</sup> / <sub>16</sub>	8 <sup>7</sup> / <sub>16</sub>	25 <sup>3</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>16</sub>	<sup>9</sup> / <sub>16</sub>	108	T80D	59

C.W.L.:Continuous Running Water Level  
L.W.L.:Lowest Running Water Level

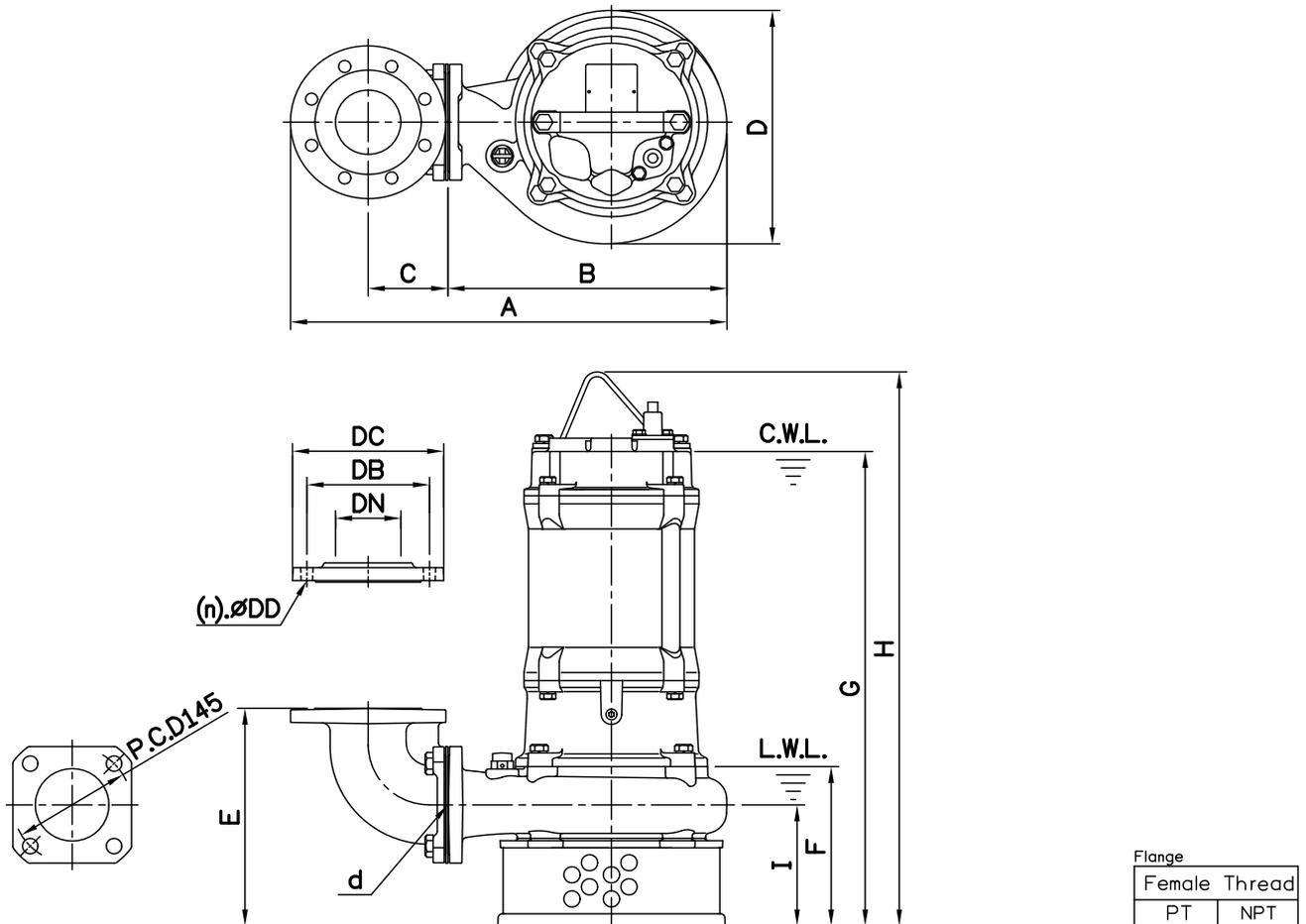
WT1:Pump Weight(Without Cable)  
WT2:GRS Set Weight

## DIMENSIONS

NO: S3AL0275030-00

MODEL: 80(100)AL25.5 / 27.5

50Hz 3Ø



Dimensions-mm

Weight:kg

Model	d	A	B	C	D	E	F	G	H	I	WT1	Elbow (Flange)Set	DN	DB	DC	DD	(n)QTY	WT2
80(100)AL25.5	80	534	342	98	290	271	198	590	689	151	75	EB3-150A	80	150	185	15	8	12
80(100)AL25.5	80	565	342	113	290	282	198	590	689	151	75	EB4-175(145)	100	175	210	15	8	14
80(100)AL27.5	80	534	342	98	290	271	198	590	689	151	81	EB3-150A	80	150	185	15	8	12
80(100)AL27.5	80	565	342	113	290	282	198	590	689	151	81	EB4-175(145)	100	175	210	15	8	14

Dimensions-inch

Weight:lb

Model	d	A	B	C	D	E	F	G	H	I	WT1	Elbow (Flange)Set	DN	DB	DC	DD	(n)QTY	WT2
80(100)AL25.5	3	21	13 <sup>7</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>8</sub>	11 <sup>1</sup> / <sub>16</sub>	10 <sup>3</sup> / <sub>16</sub>	7 <sup>7</sup> / <sub>8</sub>	23 <sup>3</sup> / <sub>4</sub>	27 <sup>5</sup> / <sub>8</sub>	5 <sup>15</sup> / <sub>16</sub>	165	EB3-150A	3	5 <sup>7</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>16</sub>	3 <sup>15</sup> / <sub>16</sub>	8	26
80(100)AL25.5	3	22 <sup>1</sup> / <sub>4</sub>	13 <sup>7</sup> / <sub>16</sub>	4 <sup>7</sup> / <sub>16</sub>	11 <sup>1</sup> / <sub>16</sub>	11 <sup>1</sup> / <sub>16</sub>	7 <sup>7</sup> / <sub>8</sub>	23 <sup>3</sup> / <sub>4</sub>	27 <sup>5</sup> / <sub>8</sub>	5 <sup>15</sup> / <sub>16</sub>	165	EB4-175(145)	4	6 <sup>7</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>4</sub>	3 <sup>15</sup> / <sub>16</sub>	8	30
80(100)AL27.5	3	21	13 <sup>7</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>8</sub>	11 <sup>1</sup> / <sub>16</sub>	10 <sup>3</sup> / <sub>16</sub>	7 <sup>7</sup> / <sub>8</sub>	23 <sup>3</sup> / <sub>4</sub>	27 <sup>5</sup> / <sub>8</sub>	5 <sup>15</sup> / <sub>16</sub>	179	EB3-150A	3	5 <sup>7</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>16</sub>	3 <sup>15</sup> / <sub>16</sub>	8	26
80(100)AL27.5	3	22 <sup>1</sup> / <sub>4</sub>	13 <sup>7</sup> / <sub>16</sub>	4 <sup>7</sup> / <sub>16</sub>	11 <sup>1</sup> / <sub>16</sub>	11 <sup>1</sup> / <sub>16</sub>	7 <sup>7</sup> / <sub>8</sub>	23 <sup>3</sup> / <sub>4</sub>	27 <sup>5</sup> / <sub>8</sub>	5 <sup>15</sup> / <sub>16</sub>	179	EB4-175(145)	4	6 <sup>7</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>4</sub>	3 <sup>15</sup> / <sub>16</sub>	8	30

C.W.L.:Continuous Running Water Level  
L.W.L.:Lowest Running Water Level

WT1:Pump Weight(Without Cable)  
WT2:Elbow Set Weight

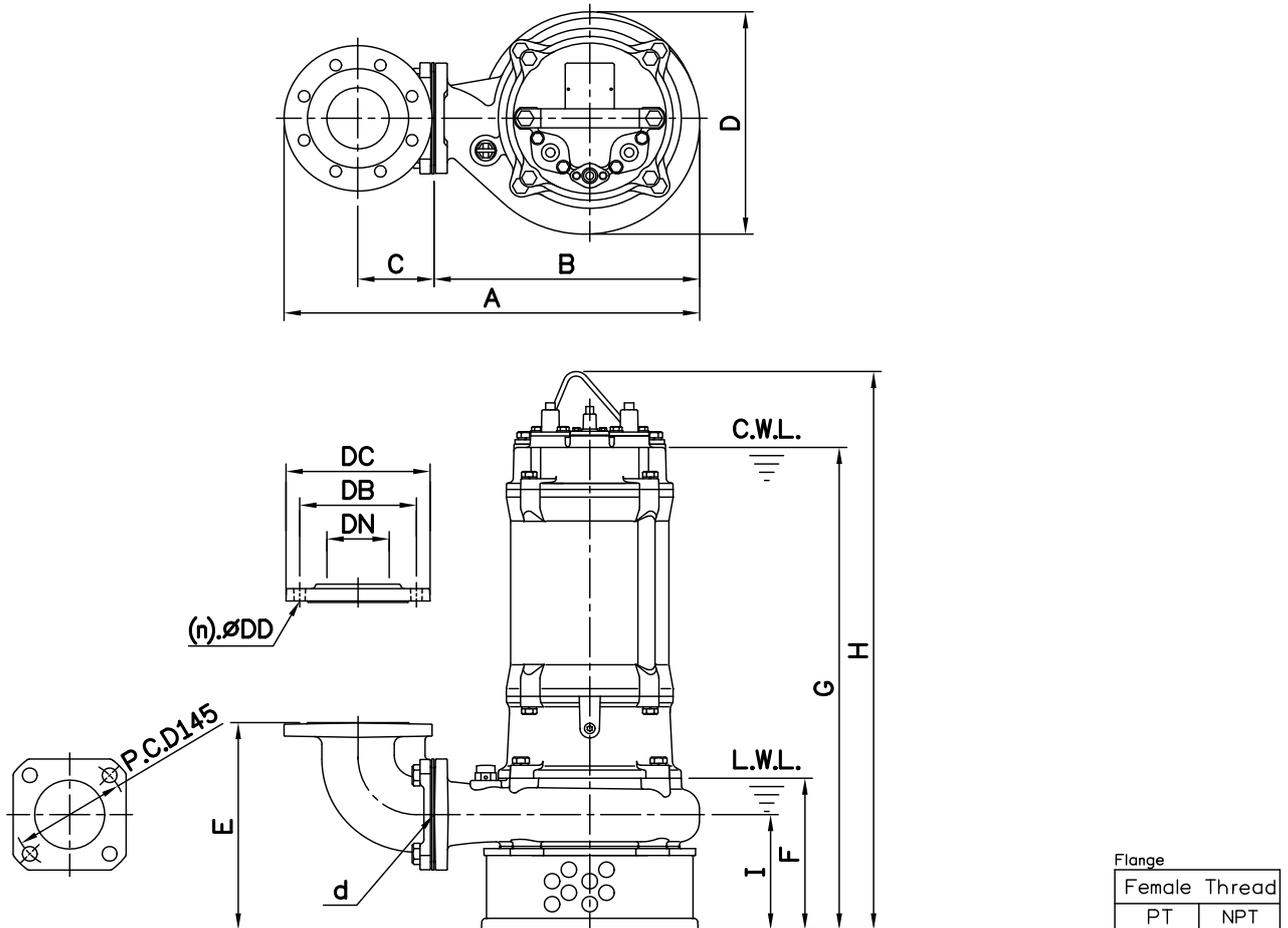


## DIMENSIONS

NO: S3AL02A1030-00

MODEL: 80(100)AL211

50Hz 3Ø



Dimensions—mm

Weight:kg

Model	d	A	B	C	D	E	F	G	H	I	WT1	Elbow (Flange)Set	DN	DB	DC	DD	(n)QTY	WT2
80(100)AL211	80	534	342	98	290	271	198	630	729	151	91	EB3-150A	80	150	185	15	8	12
80(100)AL211	80	565	342	113	290	282	198	630	729	151	91	EB4-175(145)	100	175	210	15	8	14

Dimensions—inch

Weight:lb

Model	d	A	B	C	D	E	F	G	H	I	WT1	Elbow (Flange)Set	DN	DB	DC	DD	(n)QTY	WT2
80(100)AL211	3	21	13 <sup>3</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>8</sub>	11 <sup>1</sup> / <sub>16</sub>	10 <sup>1</sup> / <sub>16</sub>	7 <sup>7</sup> / <sub>16</sub>	24 <sup>1</sup> / <sub>8</sub>	28 <sup>1</sup> / <sub>16</sub>	5 <sup>15</sup> / <sub>16</sub>	201	EB3-150A	3	5 <sup>7</sup> / <sub>8</sub>	7 <sup>5</sup> / <sub>16</sub>	3 <sup>15</sup> / <sub>16</sub>	8	26
80(100)AL211	3	22 <sup>1</sup> / <sub>4</sub>	13 <sup>3</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>16</sub>	11 <sup>1</sup> / <sub>16</sub>	11 <sup>1</sup> / <sub>16</sub>	7 <sup>7</sup> / <sub>16</sub>	24 <sup>1</sup> / <sub>8</sub>	28 <sup>1</sup> / <sub>16</sub>	5 <sup>15</sup> / <sub>16</sub>	201	EB4-175(145)	4	6 <sup>7</sup> / <sub>8</sub>	8 <sup>1</sup> / <sub>4</sub>	3 <sup>15</sup> / <sub>16</sub>	8	30

C.W.L.:Continuous Running Water Level  
L.W.L.:Lowest Running Water Level

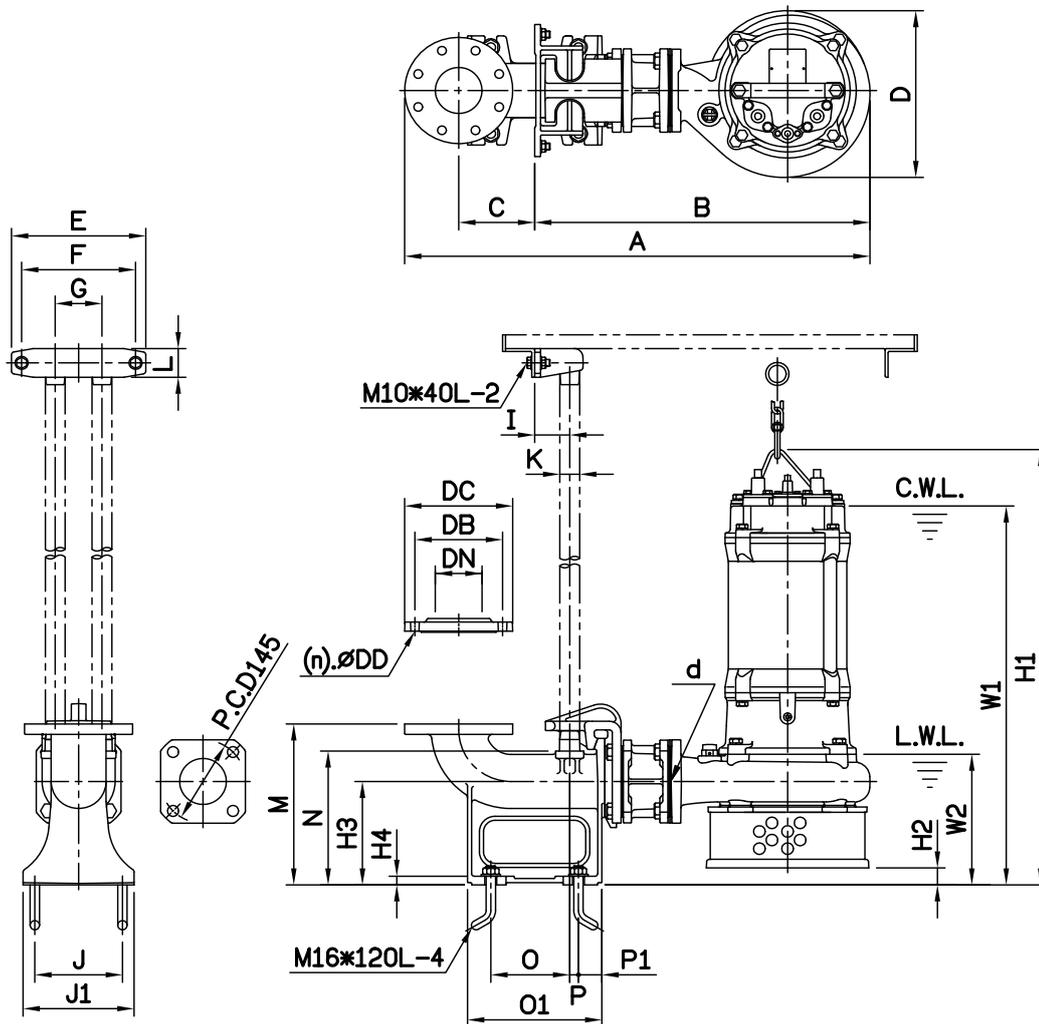
WT1:Pump Weight(Without Cable)  
WT2:Elbow Set Weight

## DIMENSIONS

NO: T3AL02A1030-00

MODEL: 80(100)AL211

50Hz 3Ø



Flange	
Female Thread	
PT	NPT

Dimensions-mm

Elbow (Flange)Set	DN	DB	DC	DD	(n)QTY
EF3-150	80	150	185	15	8
EF4-175	100	175	210	15	8

Dimensions-inch

Elbow (Flange)Set	DN	DB	DC	DD	(n)QTY
EF3-150	3	5 <sup>9</sup> / <sub>16</sub>	7 <sup>7</sup> / <sub>16</sub>	<sup>9</sup> / <sub>16</sub>	8
EF4-175	4	6 <sup>7</sup> / <sub>8</sub>	8 <sup>1</sup> / <sub>4</sub>	<sup>9</sup> / <sub>16</sub>	8

Dimensions-mm

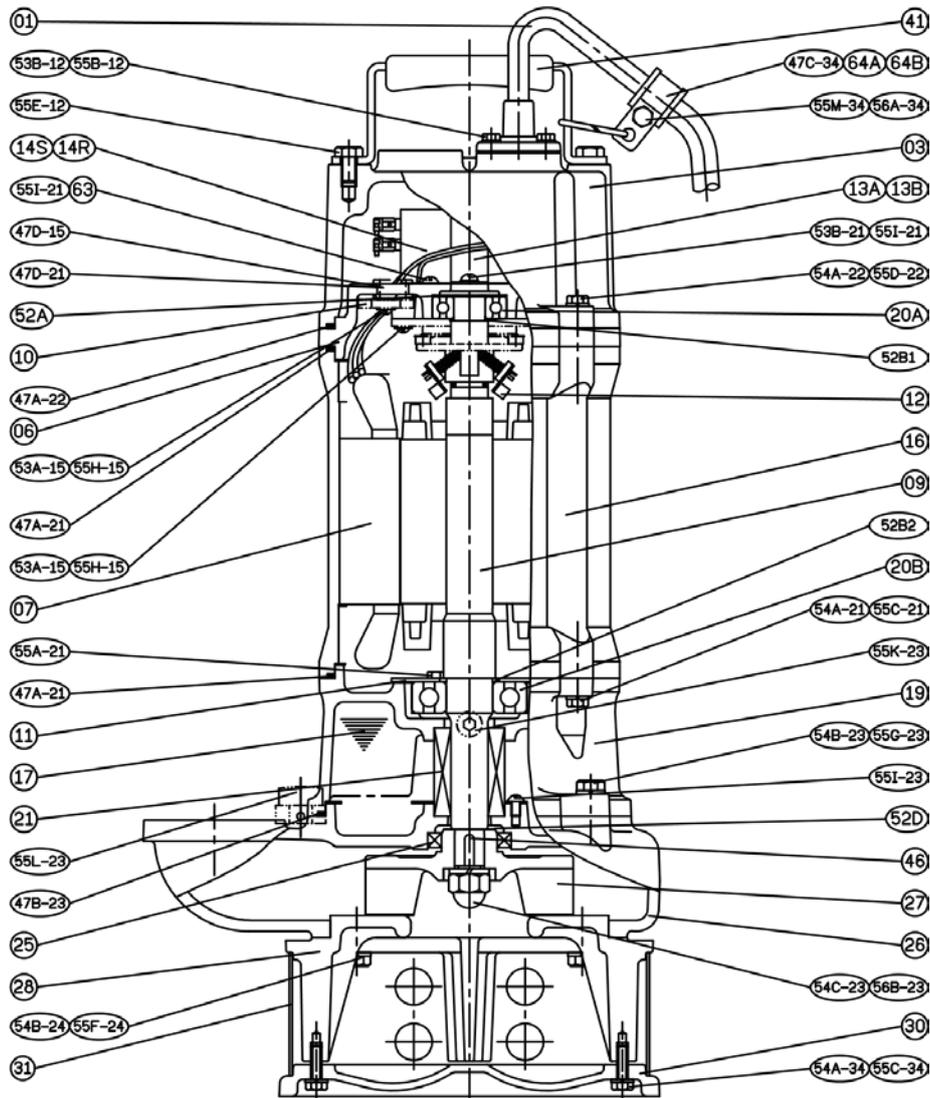
Model	d	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	Weight:kg	
																											GRS Set	WT2
80(100)AL211	80	797	574	130	290	230	195	80	60	150	190	1 <sup>1</sup> / <sub>4</sub> "	50	280	233	135	230	15	40	660	228	759	30	180	15	91	T80DH	31
80(100)AL211	80	829	574	150	290	230	195	80	60	170	210	1 <sup>1</sup> / <sub>4</sub> "	50	285	233	155	250	15	40	660	228	759	30	180	15	91	T100(80)BH	34

Dimensions-inch

Model	d	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	Weight:lb	
																											GRS Set	WT2
80(100)AL211	3	31 <sup>3</sup> / <sub>8</sub>	22 <sup>5</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>8</sub>	11 <sup>1</sup> / <sub>8</sub>	9 <sup>1</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	5 <sup>7</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub>	2	11	9 <sup>3</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>8</sub>	9 <sup>1</sup> / <sub>8</sub>	<sup>9</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>8</sub>	26	9	29 <sup>9</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>	<sup>9</sup> / <sub>16</sub>	201	T80DH	68
80(100)AL211	3	32 <sup>5</sup> / <sub>8</sub>	22 <sup>5</sup> / <sub>8</sub>	5 <sup>15</sup> / <sub>8</sub>	11 <sup>1</sup> / <sub>8</sub>	9 <sup>1</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>8</sub>	8 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	2	11 <sup>1</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>8</sub>	9 <sup>1</sup> / <sub>8</sub>	<sup>9</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>8</sub>	26	9	29 <sup>9</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>	<sup>9</sup> / <sub>16</sub>	201	T100(80)BH	75

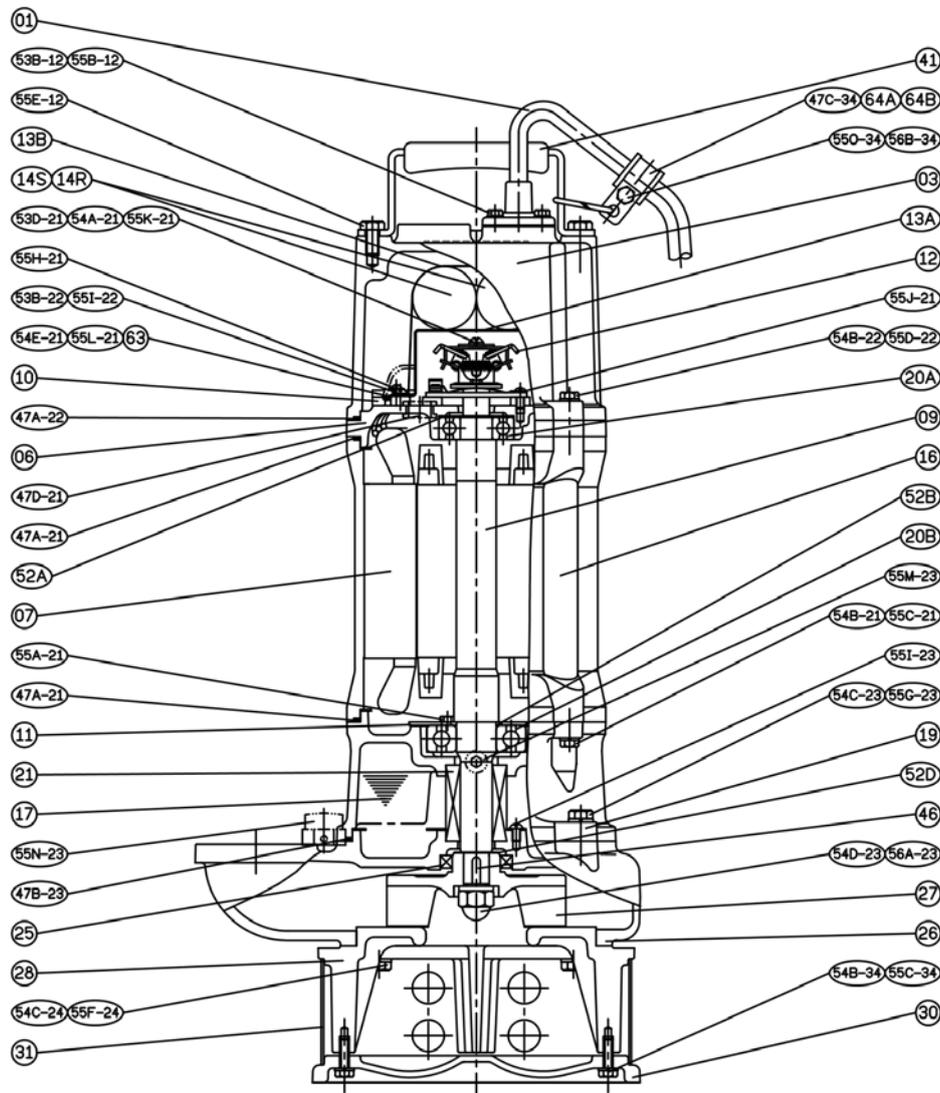
C.W.L.:Continuous Running Water Level  
L.W.L.:Lowest Running Water Level

WT1:Pump Weight(Without Cable)  
WT2:GRS Set Weight



NO.	Part name	Material	QTY
01	Cable		1
03	Upper Cover	FC200	1
06	Bracket	FC200	1
07	Stator		1
09	Shaft End	SUS403	1
10	Auto-cut Protector		1
11	Bearing Fixer	SPCC	1
12	Centrifugal Switch		1
14R	Capacitor		1
14S	Start Capacitor		1
16	Motor Frame	FC200	1
17	Lubricant		
19	Bearing Bracket	FC200	1
20A	Bearing		1

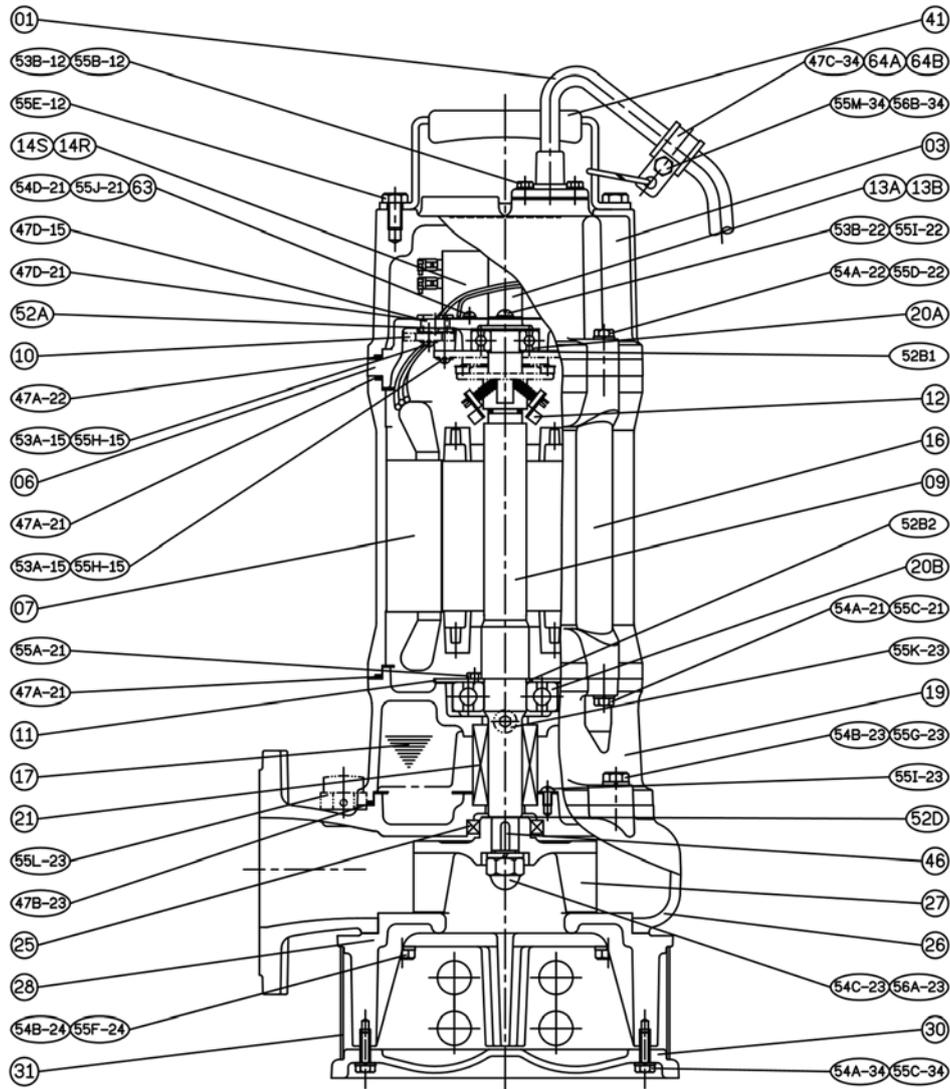
NO.	Part name	Material	QTY
20B	Bearing		1
21	M. Seal	CA/CE & SiC/SiC	1
25	Oil Seal	NBR	1
26	Casing	FC200	1
27	Impeller	FC200	1
28	Casing Cover	FC200	1
30	Footing	FC200	1
31	Strainer	SUS304	1
41	Handle	SUS304	1
46	Impeller Key	SUS304	1
47	Gasket Kit		



NO.	Part name	Material	QTY
01	Cable		1
03	Upper Cover	FC200	1
06	Bracket	FC200	1
07	Stator		1
09	Shaft End	SUS403	1
10	Auto-cut Protector		1
11	Bearing Fixer	SPCC	1
12	Centrifugal Switch		1
14R	Capacitor		1
14S	Start Capacitor		1
16	Motor Frame	FC200	1
17	Lubricant		
19	Bearing Bracket	FC200	1
20A	Bearing		1

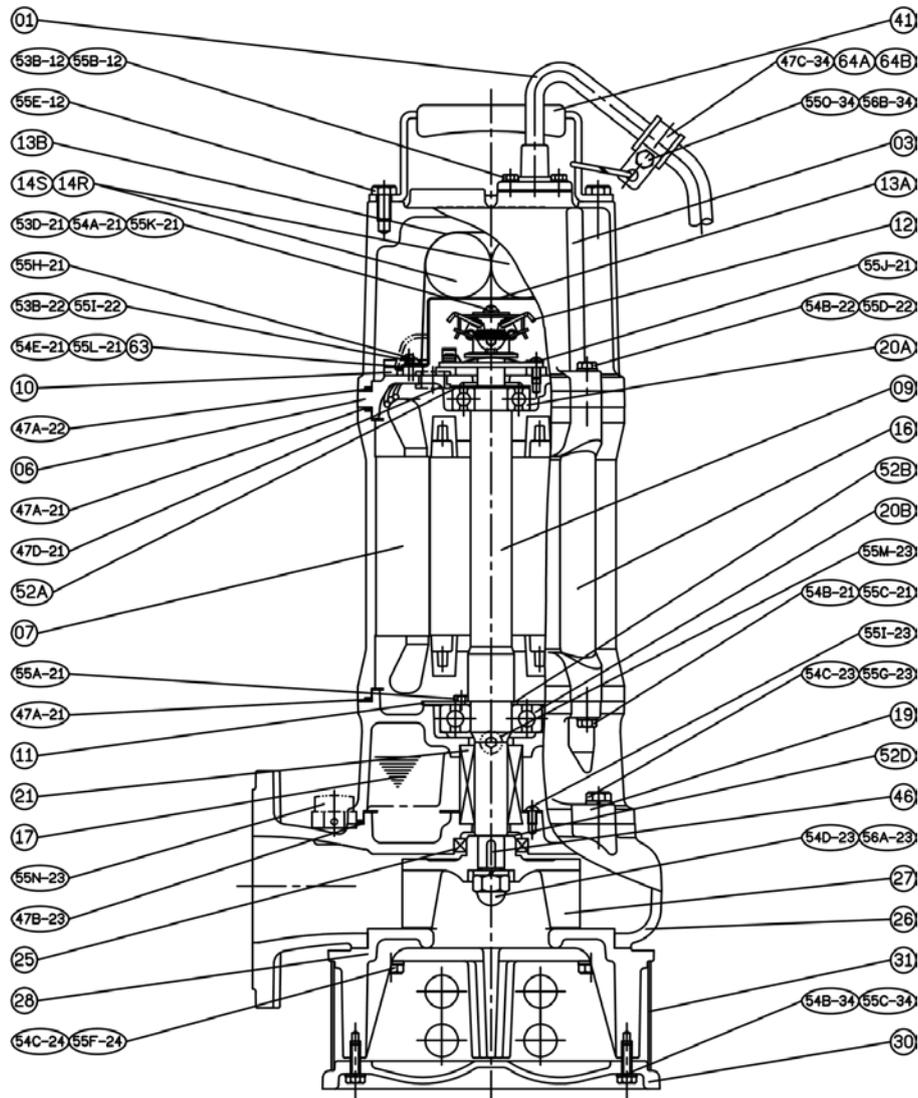
NO.	Part name	Material	QTY
20B	Bearing		1
21	M. Seal	CA/CE & SiC/SiC	1
25	Oil Seal	NBR	1
26	Casing	FC200	1
27	Impeller	FC200	1
28	Casing Cover	FC200	1
30	Footing	FC200	1
31	Strainer	SUS304	1
41	Handle	SUS304	1
46	Impeller Key	SUS304	1
47	Gasket Kit		





NO.	Part name	Material	QTY
01	Cable		1
03	Upper Cover	FC200	1
06	Bracket	FC200	1
07	Stator		1
09	Shaft End	SUS403	1
10	Auto-cut Protector		1
11	Bearing Fixer	SPCC	1
12	Centrifugal Switch		1
14R	Capacitor		1
14S	Start Capacitor		1
16	Motor Frame	FC200	1
17	Lubricant		
19	Bearing Bracket	FC200	1
20A	Bearing		1

NO.	Part name	Material	QTY
20B	Bearing		1
21	M. Seal	CA/CE & SiC/SiC	1
25	Oil Seal	NBR	1
26	Casing	FC200	1
27	Impeller	FC200	1
28	Casing Cover	FC200	1
30	Footing	FC200	1
31	Strainer	SUS304	1
41	Handle	SUS304	1
46	Impeller Key	SUS304	1
47	Gasket Kit		



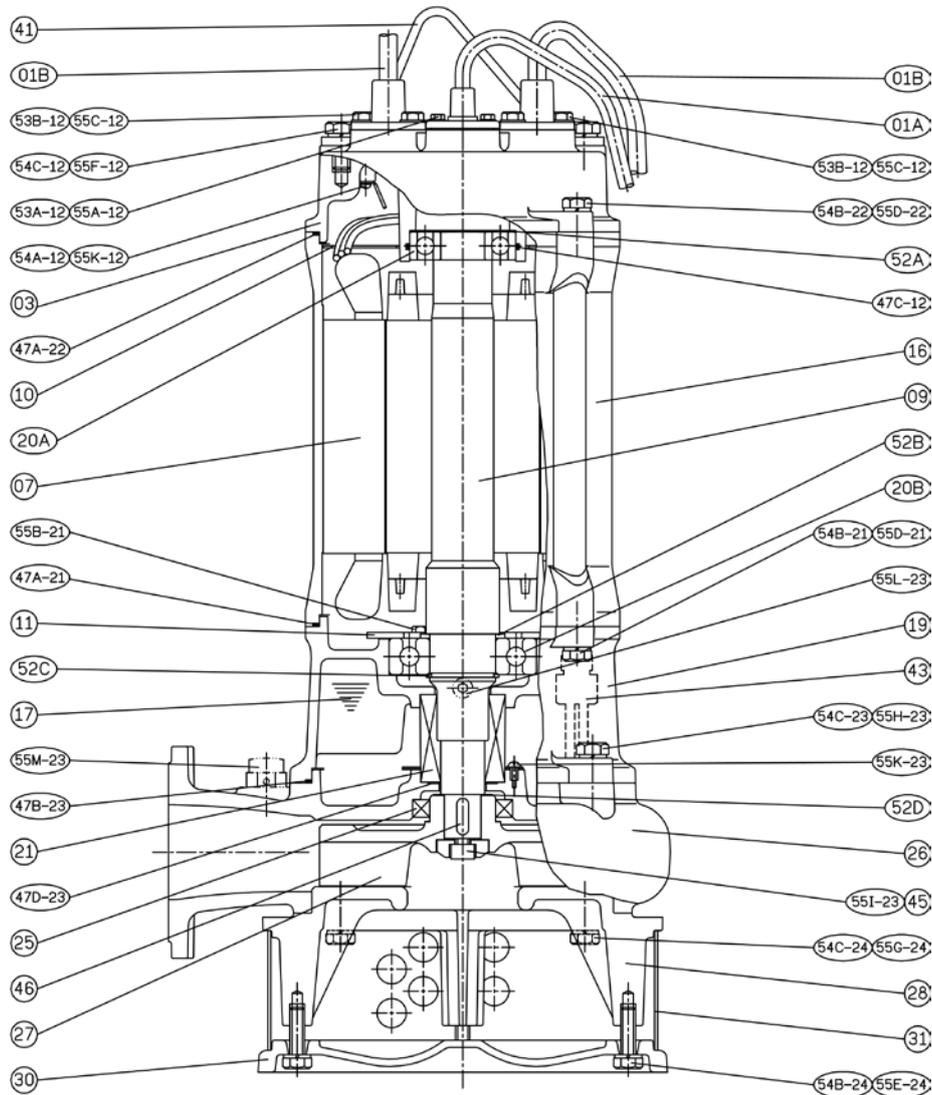
NO.	Part name	Material	QTY
01	Cable		1
03	Upper Cover	FC200	1
06	Bracket	FC200	1
07	Stator		1
09	Shaft End	SUS403	1
10	Auto-cut Protector		1
11	Bearing Fixer	SPCC	1
12	Centrifugal Switch		1
14R	Capacitor		1
14S	Start Capacitor		1
16	Motor Frame	FC200	1
17	Lubricant		
19	Bearing Bracket	FC200	1
20A	Bearing		1

NO.	Part name	Material	QTY
20B	Bearing		1
21	M. Seal	CA/CE & SiC/SiC	1
25	Oil Seal	NBR	1
26	Casing	FC200	1
27	Impeller	FC200	1
28	Casing Cover	FC200	1
30	Footing	FC200	1
31	Strainer	SUS304	1
41	Handle	SUS304	1
46	Impeller Key	SUS304	1
47	Gasket Kit		









NO.	Part name	Material	QTY
01A	Cable		1
01B	Cable		2
03	Upper Cover	FC200	1
07	Stator (With MTS)		1
09	Shaft End	SUS420J2	1
10	Protective Plate		1
11	Bearing Fixer	SPCC	1
16	Motor Frame	FC200	1
17	Lubricant		
19	Bearing Bracket	FC200	1
20A	Bearing		1
20B	Bearing		1
21	M. Seal	CA/CE & SiC/SiC	1
25	Oil Seal	NBR	1

NO.	Part name	Material	QTY
26	Casing	FC200	1
27	Impeller	FC200	1
28	Casing Cover	FC200	1
30	Footing	FC200	1
31	Strainer	SUS304	1
41	Handle	SUS304	1
43	Moisture Sensor		1
46	Impeller Key	SUS304	1
47	Gasket Kit		



Professionalism • Innovation • Service • Commitment

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