

Model	80AFU43.7
Series	AF
Frequency	50
Phase / Volt	3 Ø / 400 V
Rated Current	8.4 A
Discharge	80 mm (3")



Motor Data

Input Power—P1	4.7 kW
Rated Power—P2	3.7 kW
Insulation Class	F
Max. Starts Per Hour	10
Rated Speed (rpm)	1400
Start Method	DIRECT
Ingress Protection Code	IP68
Explosion-Proof	NO

Technology

Impeller Type	Vortex
Mechanical Seal	Double
Lubricating Oil VG32	1350 CC
Solid Passage	76 mm (3")
Cooling Type	External cooling
Cooling Jacket	NO

Material

Motor Frame	FC200 (GG-20)
Shaft	SUS403 (X5Cr13)
Casing	FC200 (GG-20)
Impeller	FC200 (GG-20)
Mechanical Seal	CA/CE&SiC/SiC
Cable	VCT,H07RN-F
Upper and Lower Bearing	6205ZZ,6308ZZ

Liquid

Maximum Ambient Temperature	0~40°C (32~104°F)
Maximum Installation Depth	20m (66ft)
Highest Liquid Temperature	40 °C (104°F)
Liquid Transported	Sewage

Others(Optional)

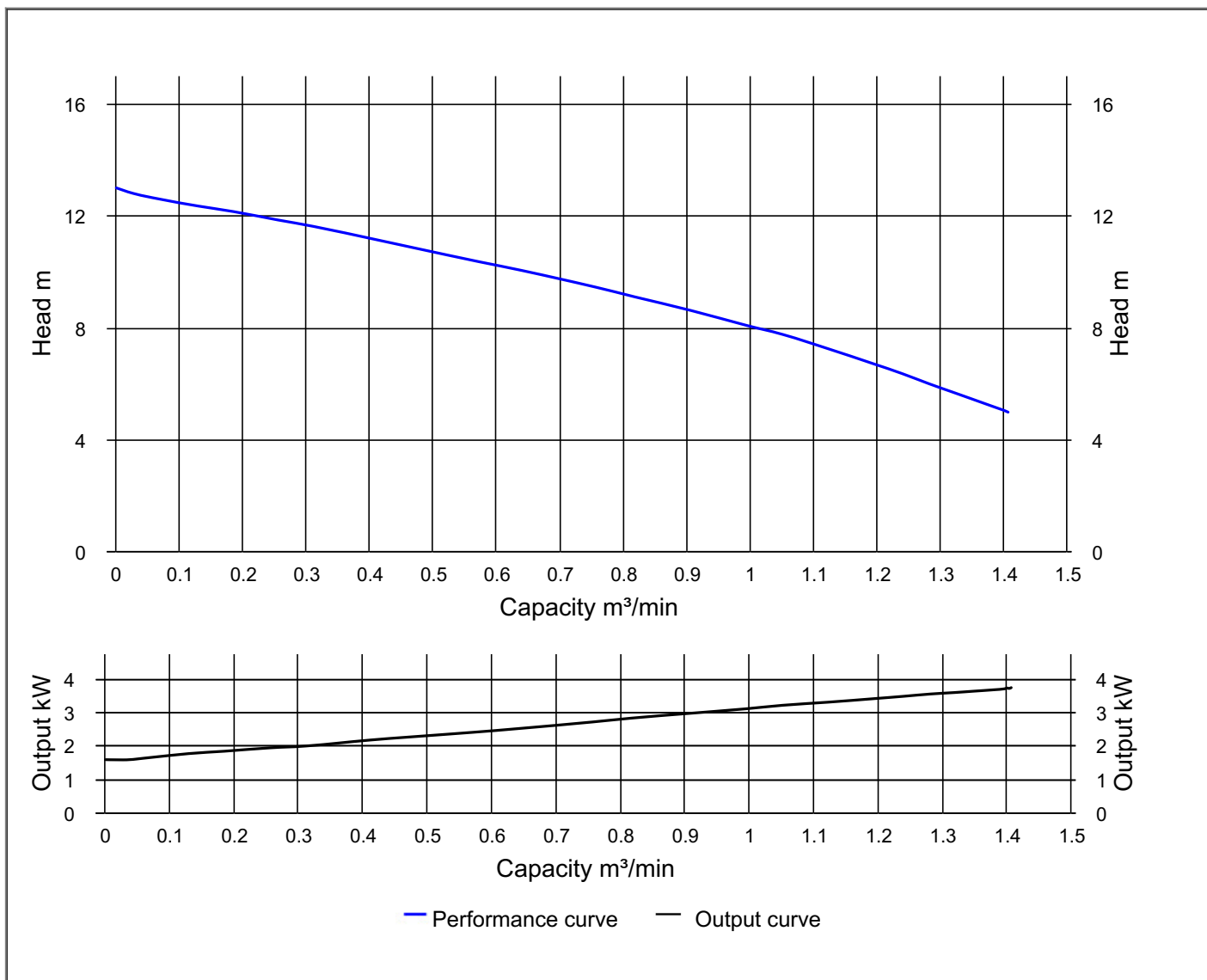
Protection Device	Auto-cut Protector (MTS)
Moisture Sensor	(MS)



HCP PUMP

PUMP PERFORMANCE CURVES

Model	80AFU43.7	File NO.	20230130195456
Frequency	50 Hz	Ver NO.	202003060911
Discharge	3" / 80 mm	REFERENCE SPECIFICATION	
Output	5 HP / 3.7 kW	Output	2.45 kW
Std. Head	10 m	Efficiency	41 %
Std. Capacity	0.6 m ³ /min		
Phase / Volt	3 Ø / 400 V		
Rated Current	8.4 A		
Pole / rpm	4 P / 1400 rpm		
Start Method	DOL		
Insulation Class	F		

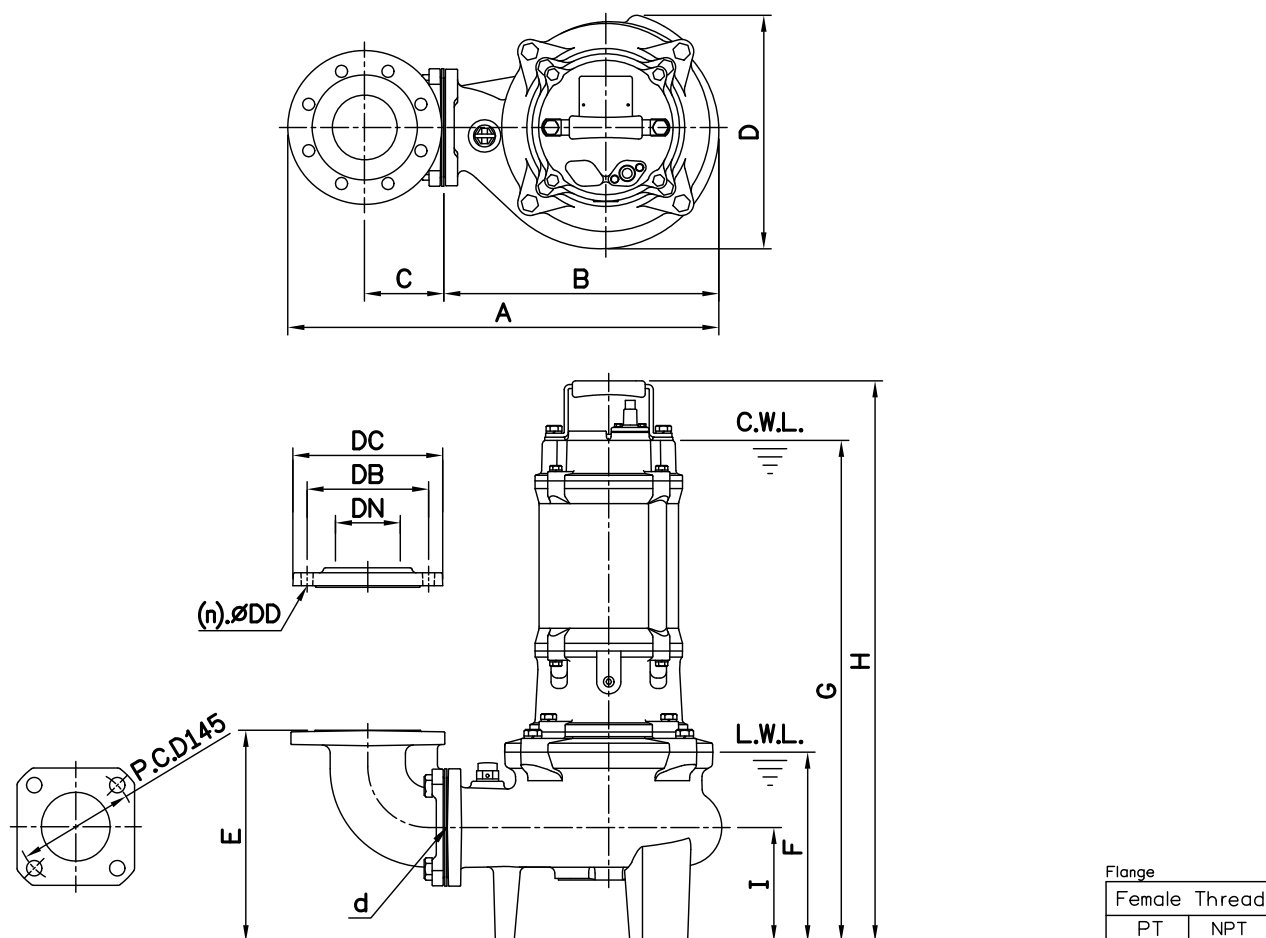


DIMENSIONS

NO: S3AFU437030-10

MODEL: 80AFU42.2 / 43.7

50Hz 3Ø



Flange	
Female Thread	
PT	NPT

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
80AFU42.2	80	532	340	98	288	261	234	579	653	141	55	EB3-150A	80	150	185	15	8	12
80AFU43.7	80	532	340	98	288	261	234	619	693	141	63	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
80AFU42.2	3	20 ¹⁵ / ₁₆	13 ³ / ₈	3 ⁷ / ₈	11 ¹ / ₈	10 ¹ / ₄	9 ³ / ₁₆	22 ³ / ₁₆	25 ¹ / ₈	5 ⁵ / ₁₆	121	EB3-150A	3	5 ⁷ / ₈	7 ⁵ / ₁₆	9 ¹ / ₁₆	8	26
80AFU43.7	3	20 ¹⁵ / ₁₆	13 ³ / ₈	3 ⁷ / ₈	11 ¹ / ₈	10 ¹ / ₄	9 ³ / ₁₆	24 ³ / ₁₆	27 ⁵ / ₁₆	5 ⁵ / ₁₆	139	EB3-150A	3	5 ⁷ / ₈	7 ⁵ / ₁₆	9 ¹ / ₁₆	8	26

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

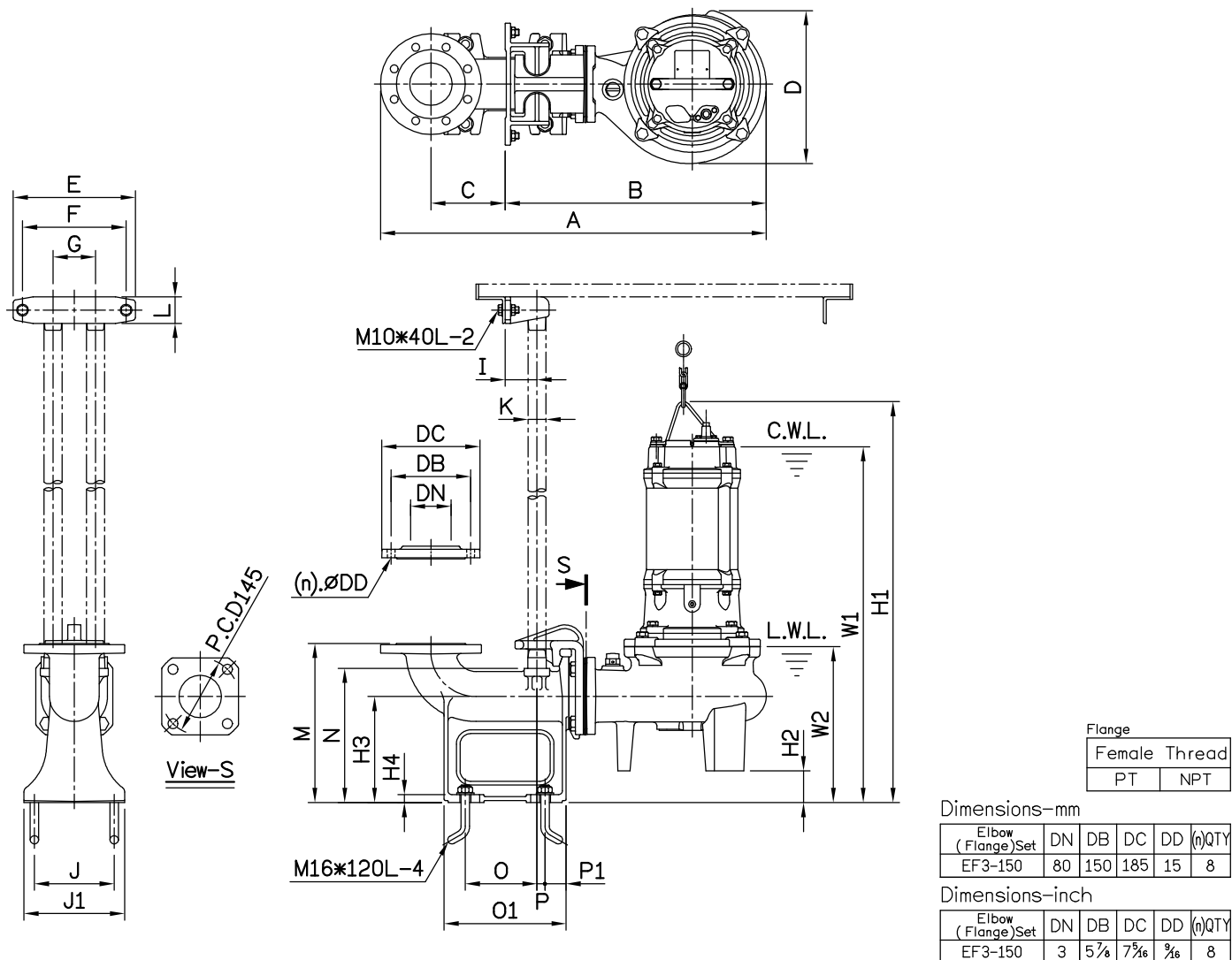
WT1:Pump Weight(Without Cable)
WT2:Elbow Set Weight

DIMENSIONS

NO: T3AFU437030-13

MODEL: 80AFU42.2 / 43.7

50Hz 3Ø



Dimensions—mm

Model	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	GRS Set	WT2
80AFU42.2 3Ø	728	492	140	288	230	195	80	60	150	190	114	50	300	253	135	230	15	40	636	294	721	60	200	15	57	T80E	28
80AFU43.7 3Ø	728	492	140	288	230	195	80	60	150	190	114	50	300	253	135	230	15	40	671	294	756	60	200	15	66	T80E	28

Dimensions—inch

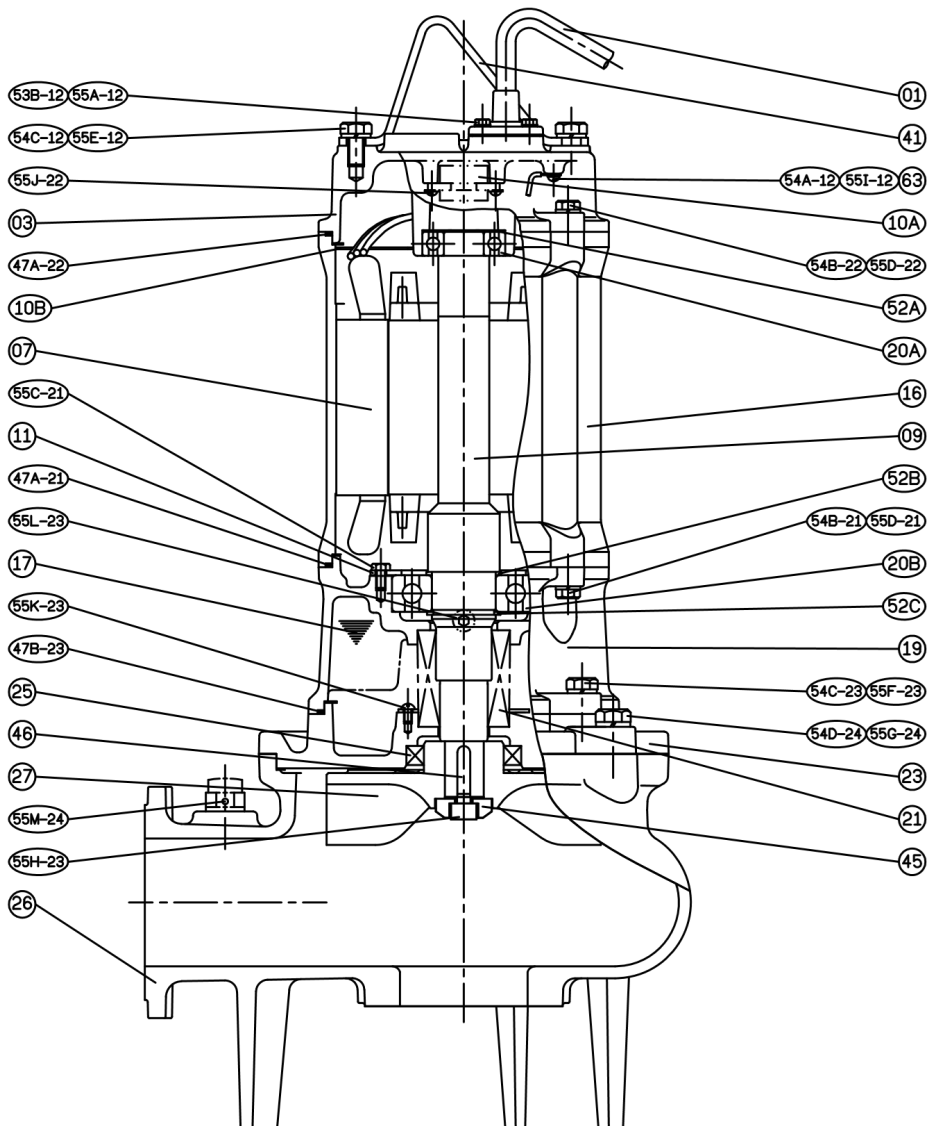
Model	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	GRS Set	WT2
80AFU42.2 3Ø	28 ¹⁶ / ₁₆	19 ⁹ / ₁₆	12 ⁵ / ₁₆	11 ⁵ / ₁₆	9 ⁷ / ₁₆	7 ¹⁴ / ₁₆	3 ⁵ / ₁₆	2 ⁵ / ₁₆	5 ⁷ / ₁₆	7 ⁷ / ₁₆	1 ¹⁴ / ₁₆	1 ¹⁵ / ₁₆	11 ¹³ / ₁₆	9 ¹⁵ / ₁₆	5 ⁵ / ₁₆	9 ⁷ / ₁₆	1 ⁵ / ₁₆	1 ¹⁵ / ₁₆	25 ¹⁵ / ₁₆	11 ¹⁵ / ₁₆	28 ¹⁵ / ₁₆	2 ⁵ / ₁₆	7 ⁷ / ₁₆	9 ¹⁵ / ₁₆	126	T80E	62
80AFU43.7 3Ø	28 ¹⁶ / ₁₆	19 ⁹ / ₁₆	12 ⁵ / ₁₆	11 ⁵ / ₁₆	9 ⁷ / ₁₆	7 ¹⁴ / ₁₆	3 ⁵ / ₁₆	2 ⁵ / ₁₆	5 ⁷ / ₁₆	7 ⁷ / ₁₆	1 ¹⁴ / ₁₆	1 ¹⁵ / ₁₆	11 ¹³ / ₁₆	9 ¹⁵ / ₁₆	5 ⁵ / ₁₆	9 ⁷ / ₁₆	1 ⁵ / ₁₆	1 ¹⁵ / ₁₆	26 ¹⁵ / ₁₆	11 ¹⁵ / ₁₆	29 ¹⁵ / ₁₆	2 ⁵ / ₁₆	7 ⁷ / ₁₆	9 ¹⁵ / ₁₆	146	T80E	62

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

L.W.L.:Lowest Running Water Level

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

WT2:GRS Set Weight



NO.	Part name	Material	QTY
01	Cable		1
03	Upper Cover	FC200	1
07	Stator		1
09	Shaft End	SUS403	1
10A	Auto-cut Protector		1
10B	Protective Plate		1
11	Bearing Fixer	SPCC	1
16	Motor Frame	FC200	1
17	Transformer Oil		
19	Bearing Bracket	FC200	1
20A	Bearing		1
20B	Bearing		1
21	M. Seal	CA/CE & SiC/SiC	1
23	M. Seal Bracket		1

[illegible]