

Dimensions

AMS644-250/25P/C

Wet well installation on ground (P, 250...300)
 Dimensions in mm [inch], letters see table

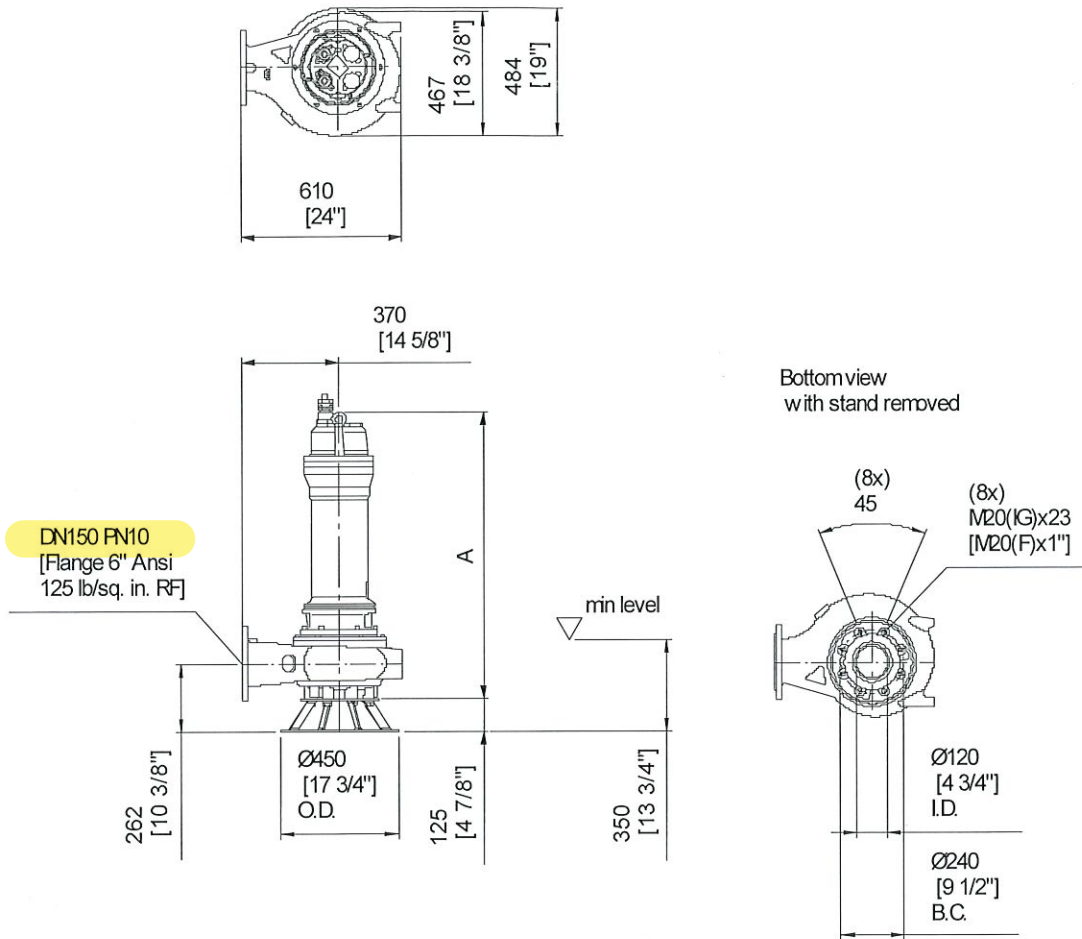


Table Dimensions (inch)

A	43 ¹ / ₁₆
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min level = Minimum fluid level for intermittent operation (S3)

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Technical Data

AMS644-250/25P/C



Operating data				
Flow	1000 US g.p.m.	Head	50 ft	ft
Shaft power P2	22.2 hp	Static head	0	ft
Pump efficiency	58.0 %	Required pump NPSH		ft
Pumpe type	Single pump	No. of pumps	1	
Fluid	Wastewater	Temperature	68	°F
Density	62.31 lb/ft³	Kin. viscosity	1.077E-5	ft²/s

Pump				
Pump Code	AMS644-250/25P/C	Speed	1750	rpm
Suction port	DN150	Head	Max. 87.6	ft
Discharge port	6" ANSI		Min. 13.8	ft
Impeller type	Single channel impeller	Flow	Max. 1664.3	US g.p.m.
Solid size	4 inch	Pump efficiency max.	58	%
Impeller Ø	9.84 inch	Required rated power max. P2	22.9	hp

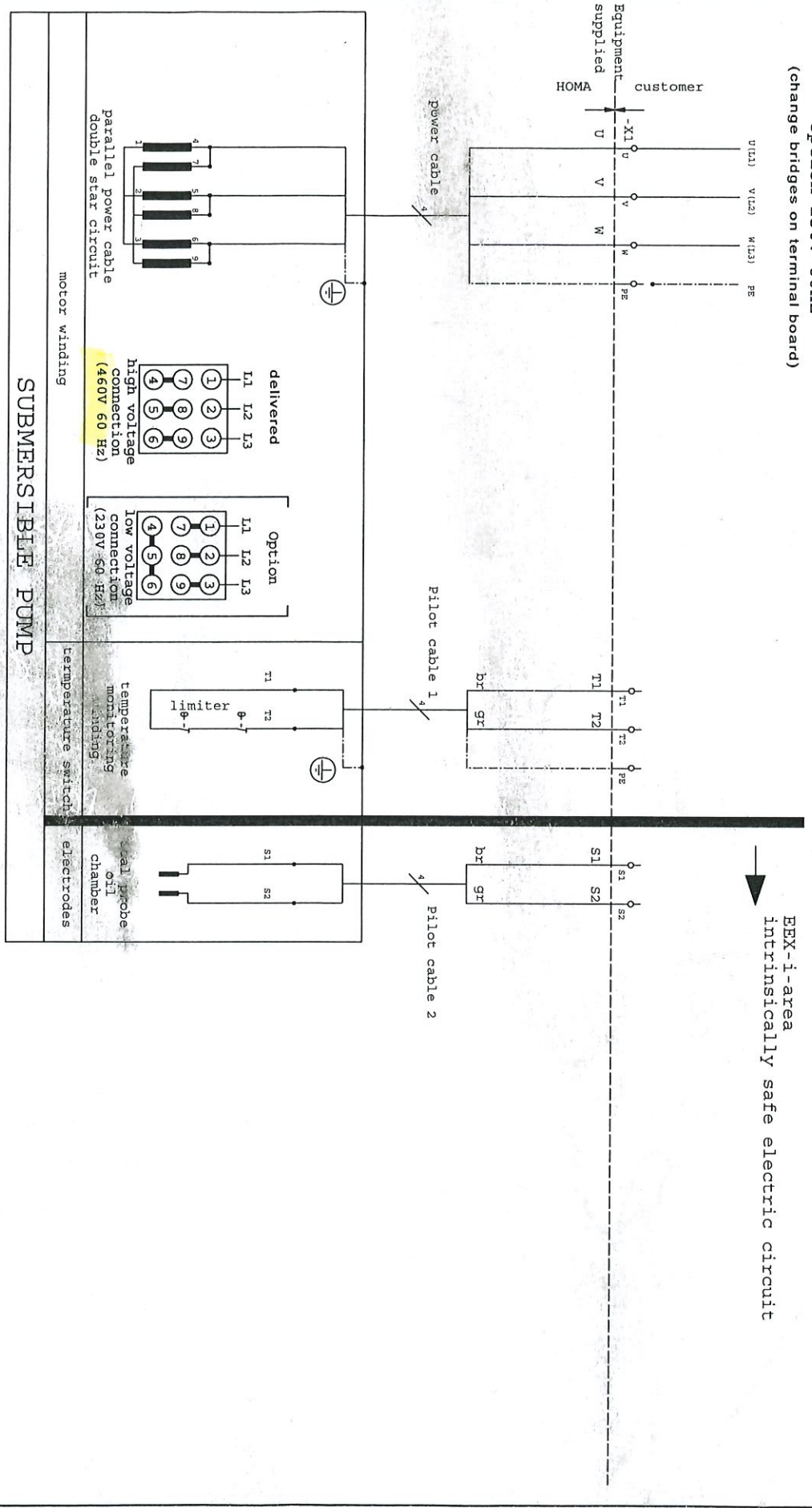
Motor				
Motor design	Submersible motor	Insulation class	H	
Motor name	AM204.27,8P/4/3	Degree of protection	IP 68	
Frequency	60 Hz	Temperature class	T3C	
Rated power P1	27.8 hp	NEMA code	H	
Rated power P2	25.0 hp	Explosion protection		
Rated speed	1750 rpm	Efficiency at % rated power	100%	90.0 %
Rated voltage	230 / 460 V 3~		75%	91.0 %
Rated current	61.0 / 30,5 A		50%	90.0 %
Starting current, direct starting	403.8 / 202 A	cos phi at % rated power	100%	0.83
Starting current, star-delta	1: A		75%	0.76
Starting mode	Directly		50%	0.65
Power cable	4G16	Control cable	5G1,5	
Type of power cable	H07RN8-F PLUS	Type of control cable	H07RN-F	
Cable length	32.8 ft	Service factor	1.15	
Shaft seal	Mechanical seal on motor side Mechanical seal on medium side	SiC / SiC SiC / SiC		
Bearing	Lower Bearing Upper Bearing	Two angular ball bearings Deep Groove Ball Bearing		
Remarks				

Materials / Weight			
Motor housing	Cast Iron ASTM A48;Cl.40B	Bolts	AISI 304 Stainless Steel
Pump housing	Cast Iron ASTM A48;Cl.40B	Elastomeres	Nitrile Rubber
Impeller	Cast Iron ASTM A48;Cl.40B		
Wear ring	Bronze ASTM B505; C93200		
Motor shaft	AISI 430 F Stainless Steel		
Weight aggregat	575.4 lb		

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caution 460V 60Hz only
 option 230V 60Hz
 (change bridges on terminal board)



Zust.	Bestellung	Datum	Name	date	work	check	norm	10.10.05	Seisner	root	HOMA Pumpenfabrik GmbH Produktentwicklung D-53819 Neunkirchen-Seelscheid Tel: +49 (0)2287-702-0 created for	HOMA HOMA Pumpenfabrik GmbH	connection diagram for submersible pumps	drawing no: EP02-B0-2000-00-460	Blatt 1 von 1 Stk
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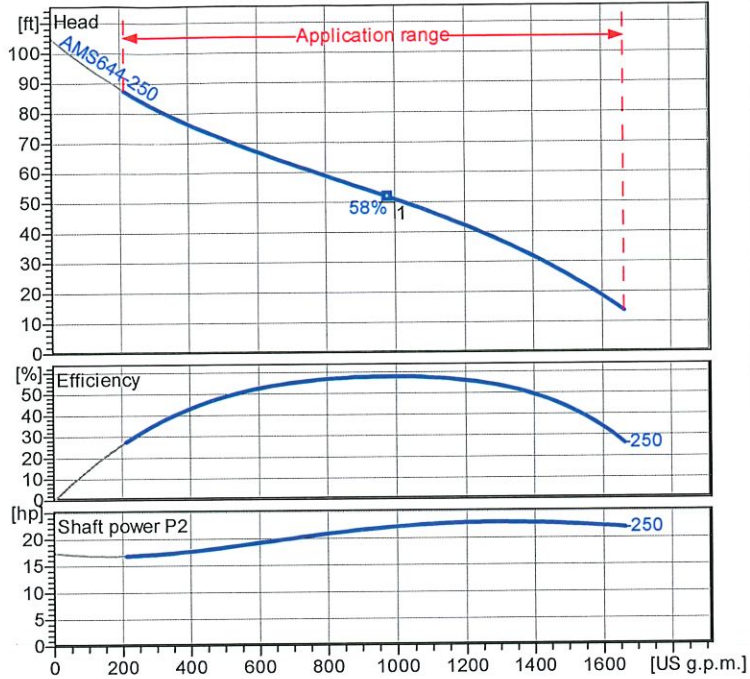
Technical Information

AMS644-250/25P/C



Operating data	
Flow	1000 US g.p.m.
Head	50 ft
Shaft power P2	22.2 hp
Pump efficiency	58 %
Required pump NPSH	
Pumpe type	Single pump
No. of pumps	1
Fluid	Wastewater
Pump	
Pump Code	AMS644-250/25P/C
Impeller	Single channel impeller
Impeller size	9 ¹³ / ₁₆ "
Solid size	4 inch
Discharge port	6" ANSI
Suction port	DN150
Motor	
Rated voltage	230/ 460 V
Frequency	60 Hz
Rated power P2	25.0 hp
Rated speed	1750 rpm
Number of poles	4
Efficiency	90 %
Rated current	67 30,5A
Degree of protection	IP 68
Materials	
Motor housing	Cast Iron ASTM A48;Cl.40B
Impeller	Cast Iron ASTM A48;Cl.40B
Pump housing	Cast Iron ASTM A48;Cl.40B
Wear ring	Bronze ASTM B505; C93200
Motor shaft	AISI 430 F Stainless Steel
Bolts	AISI 304 Stainless Steel
Elastomeres	Nitrile Rubber
Mechanical seal on motor side	SiC / SiC
Mechanical seal on medium side	SiC / SiC
Lower Bearing	Two angular ball bearings
Upper Bearing	Deep Groove Ball Bearing

Testnom: P2>10kW, HI Standard Grade 2B
P2<10kW, HI Standard Sect. 11.6.5.4



Wet well installation on ground (P, 250...300)
Dimensions in mm [inch], letters see table

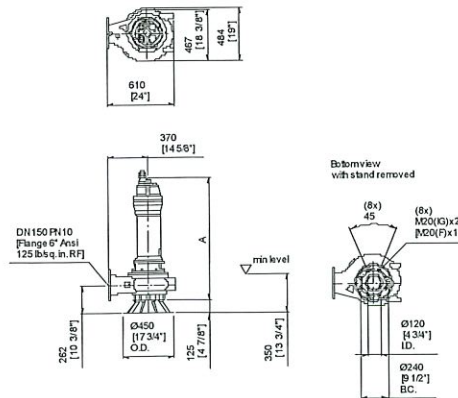


Table Dimensions (inch)

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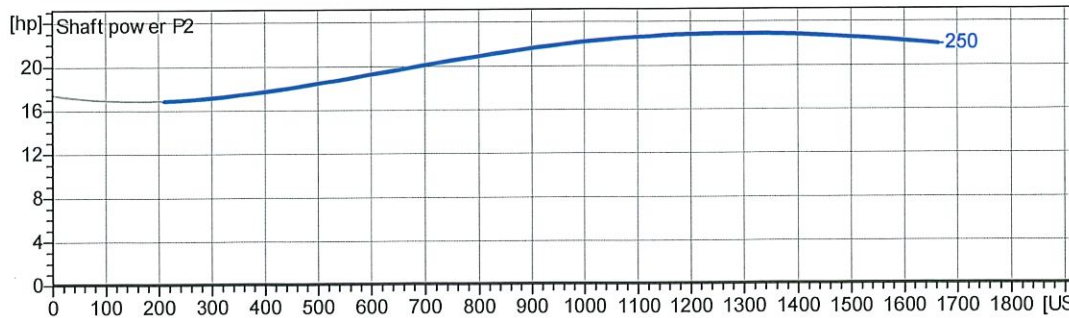
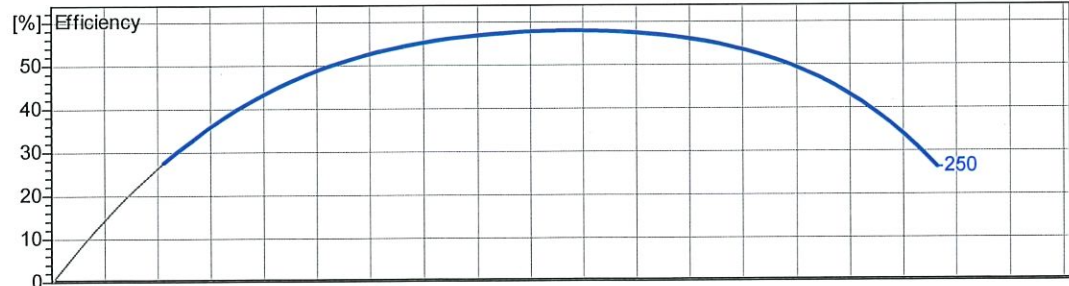
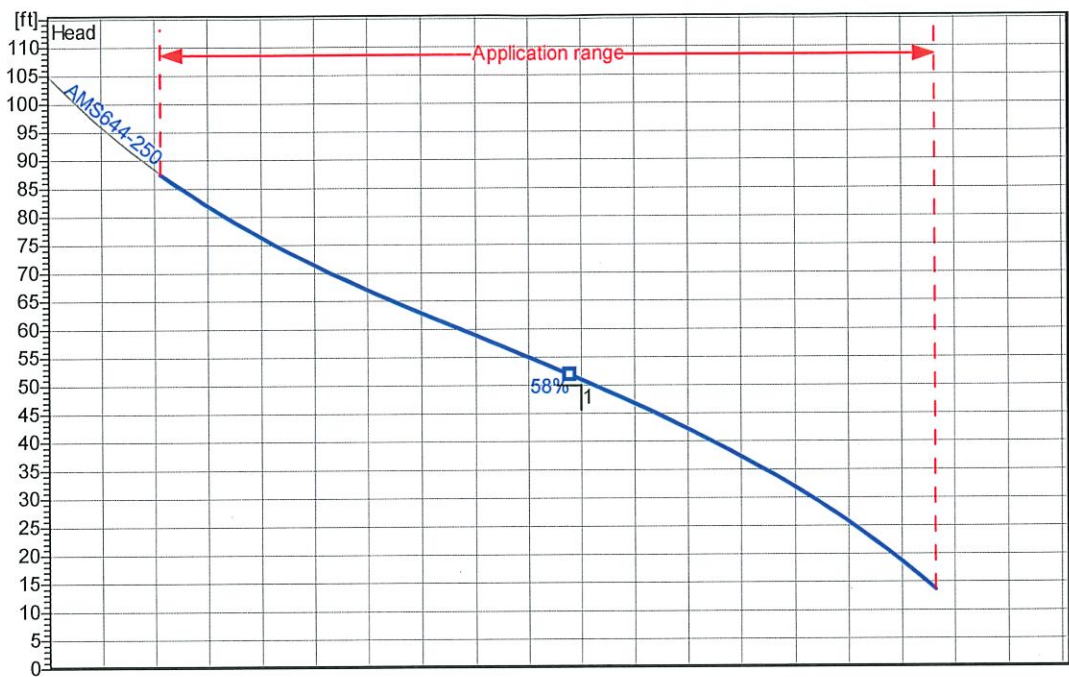
Performance Curve

AMS644-250/25P/C



Impeller					
Impeller type: Single channel impeller	Solid size 4 inch	Ø:	Max. Ø: 11 ¹³ / ₁₆ "	Min. Ø: 9 ¹³ / ₁₆ "	Sel. Ø: 9 ¹³ / ₁₆ "
Operating data					
Speed: 1750 rpm	Frequency: 60 Hz	Duty point: Q = 1000 US g.p.m.H = 50 ft	Shaft power P2: 22.2 hp	Discharge port: 6" ANSI	

Power data referred to: Water [100%]; 68°F; 62.322lb/ft³; 1.0818E-5ft²/s
 Testnom: P2>10kW, HI Standard Grade 2B
 P2<10kW, HI Standard Sect. 11.6.5.4



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