



A Tsurumi Pump Company

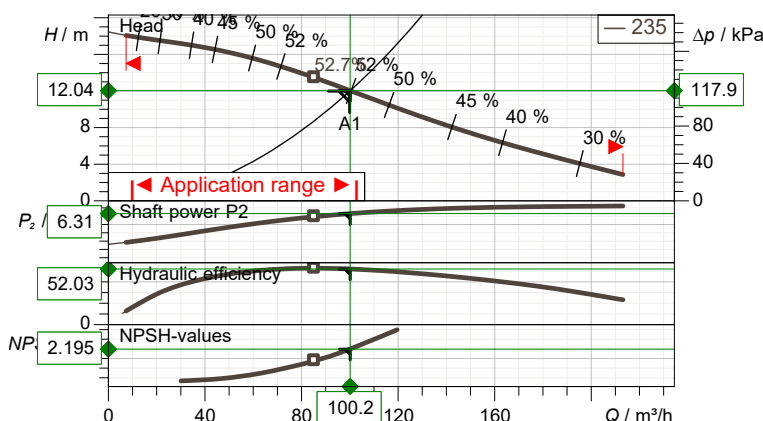
Data sheet

ZUG V100B 7,5/4AW 235

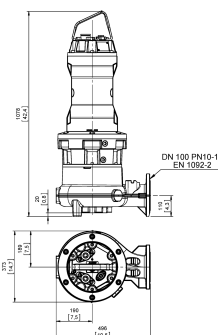


Technical specification

3~ 50 Hz



Characteristic curves according to UNI EN ISO 9906:2012
P2 < 10 kW: paragraph 4.4.2
10 kW < P2 < 100 kW: Grade 3B
P2 > 100 kW: Grade 2B
for pumps with standard material combination



Pump

Series	UNIQA
Type	ZUG V100B 7,5/4AW 235PA
Version	BB 10 400 Y5 NN NN
Variant	A431 GG25 GG25 N 200 NB A270 N N STD 0 40 0

Operating limits (standard pumps)

Max. ambient temperature	40 °C
Max. density treated liquid	1100 kg/m³
pH treated liquid	6 ÷ 14
Max. start per hour (equally distributed)	20
Wet/dry use	WET
Max. acoustic pressure level	70 dB
Operating mode	Continuous use - S1

Motor data

Rated voltage	400 V
Frequency	50 Hz
Motor phases	3~
Number of poles	4
Rated power P2	7.50 kW
Incoming power P1	8.30 kW
Rated current	14.5 A
rpm	1460 1/min
Efficiency	90.4 %
cos φ	0.830
Rated torque	49.1 Nm
Start*	Star-delta
Starting current	32.2 A
Starting torque	39.7 Nm
Degree of protection	IP 68
Insulation class	H
Motor efficiency class ref	IE3
Motor size	M10S

*use soft start, inverter or star/delta method to start and stop the pump if the power is greater than or equal to 30 kW.

Construction materials

Case	Cast iron EN-GJL 250
Shaft	AISI 431
Hydraulic	Cast iron EN-GJL 250
Impeller	Cast iron EN-GJL 250
Painting	Bi-epoxy 200 µm sea water resistant
Screws	Stainless steel A2-70
Gaskets	NBR

Construction features

Cooling jacket	-
Main cable**	7G1,5 + 3x1
Cable length	10 m
Mechanical seals	2 in sil.carbide (SiC) in oil chamber
Flushing valve - drilling	-
Drilling variant	PA
Weight*	217.5 kg

* cable and fixing system excluded

** Main cable for standard versions, no FM, no special cable

Monitoring features

Monitoring option	BB
- n.3 bimetal thermal protectors (Klixon) in series	
- n.1 double leakage sensor , mechanical seals chamber and stator housing (1 signal)	
- No bearing thermistors	
- No vibration sensor	

Hydraulic

Free passage	100 mm
Impeller type	Set-back Vortex impeller
No. of vanes	
Nominal impeller size	235.0 mm
Max. hydraulic efficiency	52.7 %
Suction	DN 100 UNDRILLED
Discharge	DN 100 EN 1092-2
Curve tolerance	UNI EN ISO 9906:2012

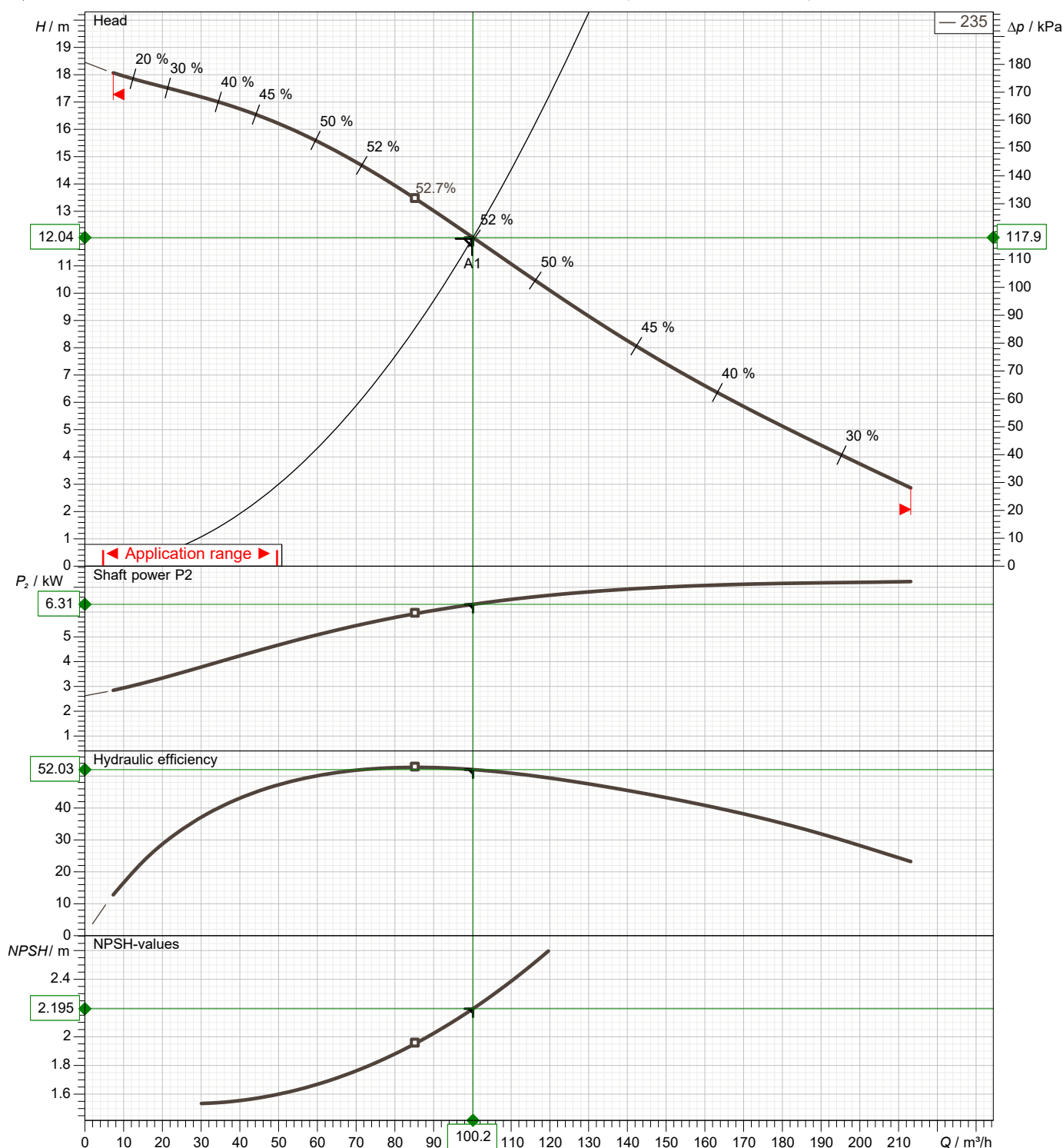


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Data sheet

ZUG V100B 7,5/4AW 235**Pump performance curves****3 ~ 50 Hz**

Impeller type Set-back Vortex impeller		Nominal impeller size 235.0 mm		Free passage 100 mm		Data version 01-06-2014
Density 998.3 kg/m³	Viscosity 1.005 mm²/s	No. of vanes	Discharge DN 100	Suction DN 100		
DUTY POINT						
Flow 100.2 m³/h	Head 12.0 m	Shaft power P2 6.3 kW	Power input P1 6.9 kW	Hydraulic efficiency 52.0 %	Total efficiency 47.3 %	NPSH 2.2 m



Characteristic curves according to UNI EN ISO 9906:2012 for pumps with standard material combination

P2 < 10 kW: paragraph 4.4.2

10 kW < P2 < 100 kW: Grade 3B

P2 ≥ 100 kW: Grade 2B



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Data sheet

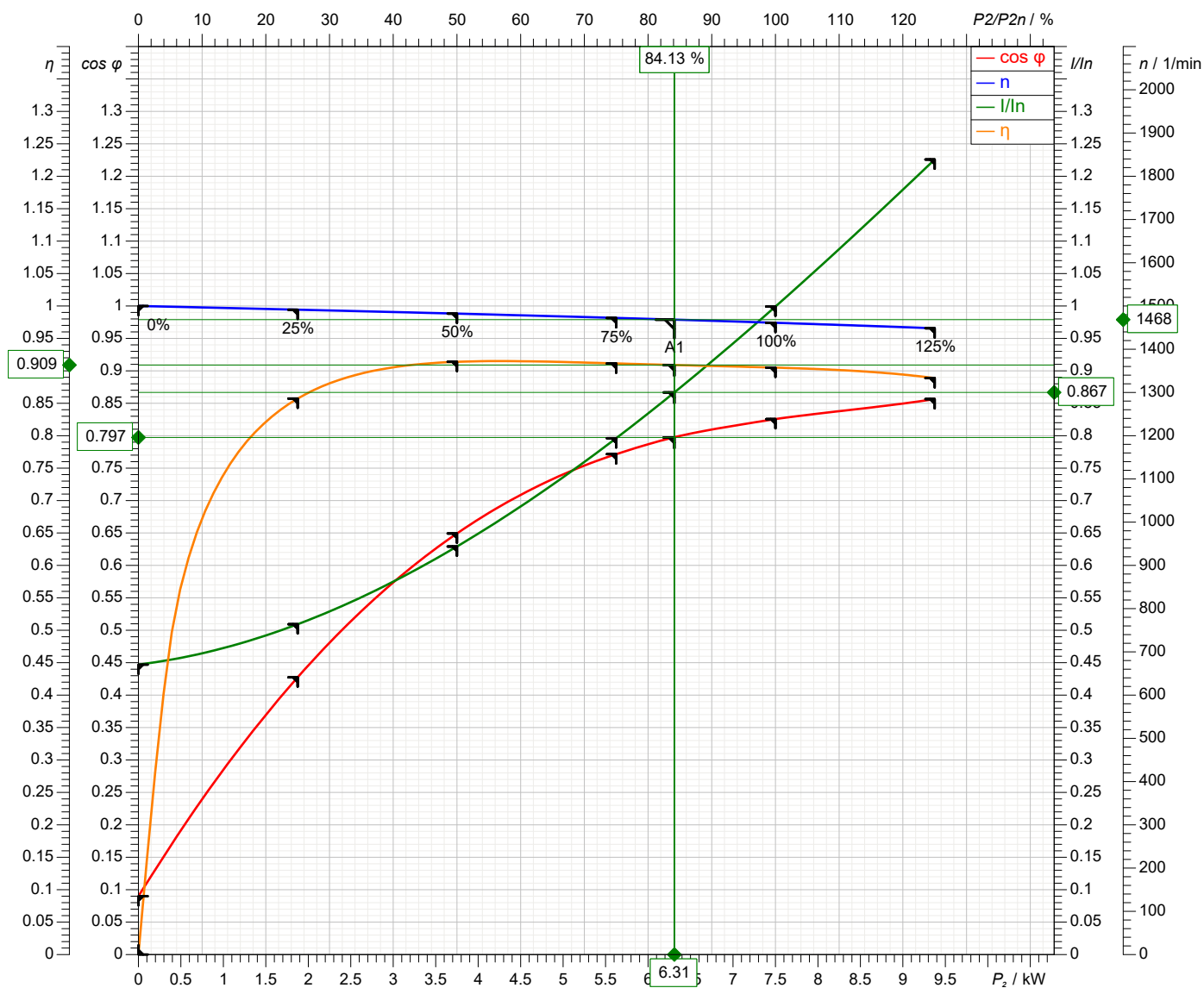
ZUG V100B 7,5/4AW 235



Motor performance curves

3 ~ 50 Hz

Motor 7,5/4 AW	Rated power 7.5 kW	Rated voltage 400 V	Motor efficiency 90.4 %
Number of poles 4	Nominal Speed 1460 1/min	Rated current 14.5 A	cos φ 0.83
Starting current 32.2 A	Start Star-delta	Rated torque 49.1 Nm	



Symbol	No load	25 %	50 %	75 %	100 %	125 %
P ₂ / kW	0	1.875	3.75	5.625	7.5	9.375
P _i / kW	0.4047	2.187	4.103	6.172	8.288	10.55
n / 1/min	1500	1491	1482	1472	1461	1448
cos φ	0.09011	0.4275	0.6492	0.7717	0.8257	0.8565
I / A	6.482	7.385	9.123	11.54	14.49	17.78
s / %	0	0.5732	1.18	1.846	2.593	3.44
M / Nm	0	12.01	24.16	36.48	49.02	61.81
η / %	0	85.73	91.39	91.14	90.5	88.88

Tolerances according to EN 60034-1

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All data shown are not binding. Zenit reserves the right to change data and dimensions without notice.

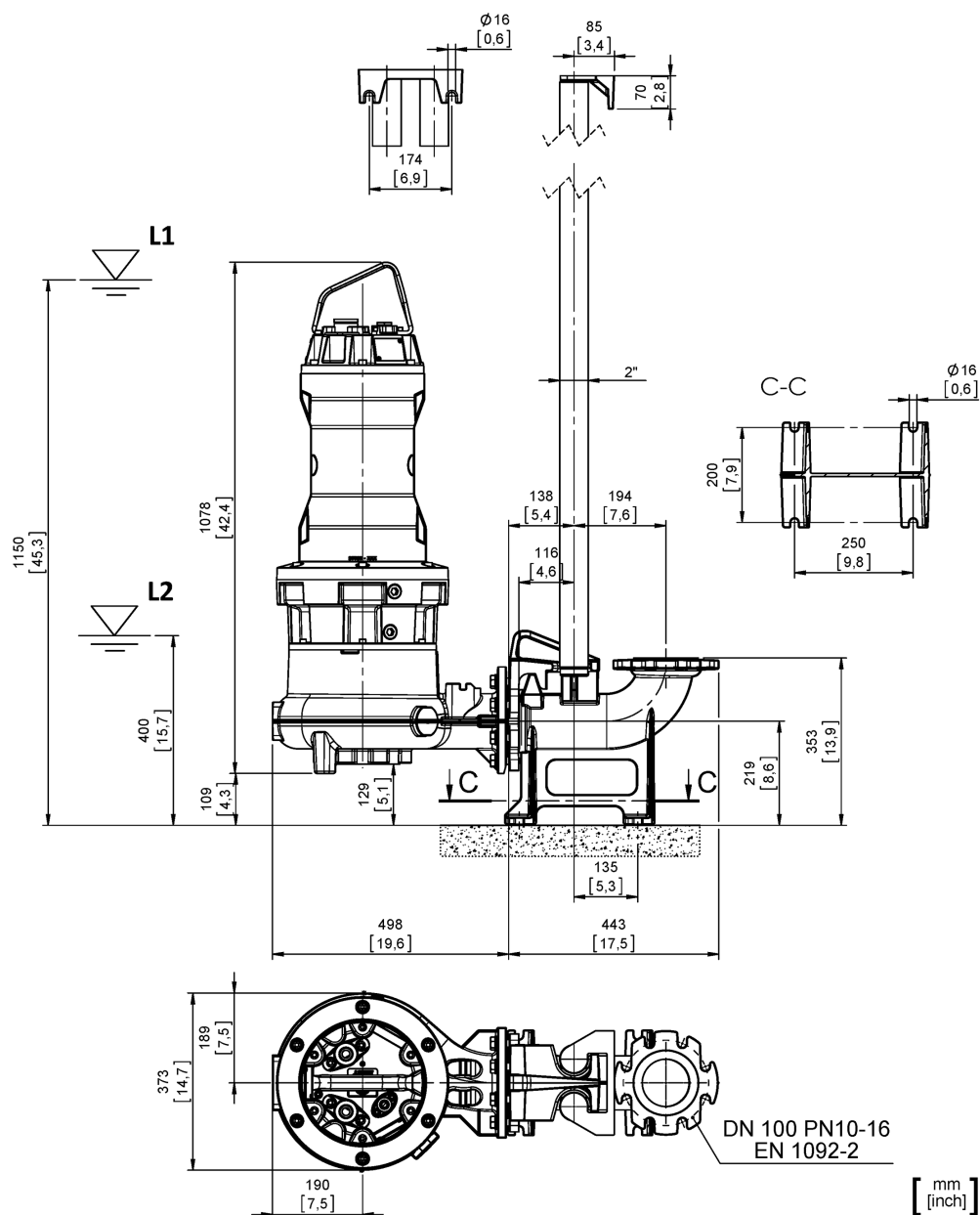
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Dimensional drawing

3 ~ 50 Hz

Installation type P: bottom coupling device - vertical discharge DN100 - guide pipes 2"		
Wet/dry use WET	Drilling variant PA	Flushing valve - drilling -
Discharge DN 100 EN 1092-2	Suction DN 100 UNDRILLED	Pressure rating (suction/discharge): -/PN 10
Accessory DAC 100/100V+KAF 116-2" EN (P)	Accessory code 9001.033	Accessory variant Cast iron coupling device
Note: Accessory must be ordered separately		



The minimum indicated levels do not prevent the formation of vortices and/or cavitation

L1: Minimum operating level for continuous use

* clearance from bottom suggested

L2: Minimum operating level for discontinuous use (excluding -EX/FM models)