

Technical specification

Submersible pump L 3102, 50 Hz





L 3102

Product

Submersible pump for pumping clean, surface or waste water containing fibre-free solids.

Denomination

Product code 3102.181
 Installation L
 Impeller characteristic LT

Process data

Liquid temperature max +40 °C
 Depth of immersion max 20 m
 The pH of the pumped liquid pH 5,5-14
 Liquid density max. 1100 kg/m³
 Impeller throughlet See Motor rating table

Motor data

Frequency 50 Hz
 Insulation class H (+180 °C)
 Voltage variation
 - continuously running max ± 5%
 - intermittent running max ± 10%
 Voltage imbalance between phases max 2%
 No. of starts/hour max 30

Cable

Direct-on-line start

SUBCAB® 4G2,5 mm²
 4G2,5+2x1,5 mm²

Y/D start

SUBCAB® 7G2,5+2x1,5 mm²
 7G2,5 mm²

Monitoring equipment

Thermal contacts opening temperature 125 °C

Material

Impeller Cast iron
 Diffusor Cast iron
 Stator housing Cast iron
 Shaft Stainless steel
 O-rings Nitrile rubber

Mechanical face seals

Alternative	Inner seal	Outer seal
1	Aluminium oxide/ Corrosion resistant cemented carbide	Aluminium oxide/ Corrosion resistant cemented carbide
2	Aluminium oxide/ Corrosion resistant cemented carbide	Corrosion resistant cemented carbide/ Corrosion resistant cemented carbide
3	Corrosion resistant cemented carbide/ Corrosion resistant cemented carbide	Aluminium oxide/ Corrosion resistant cemented carbide
4	Corrosion resistant cemented carbide/ Corrosion resistant cemented carbide	Corrosion resistant cemented carbide/ Corrosion resistant cemented carbide

Surface Treatment

All cast parts are primed with a water-borne primer. The finishing coat is a high-solid two pack paint.

Weight

See dimensional drawing.

Option

3102.090 Ex. proof version
 Warm liquid version on request
 Leakage sensor in stator housing FLS
 Leakage sensor in oil housing CLS
 Other cables
 Surface treatment Epoxy treatment
 Zinc anodes

Accessories

Electrical accessories such as pump controller, control panels, starters, monitoring relays.

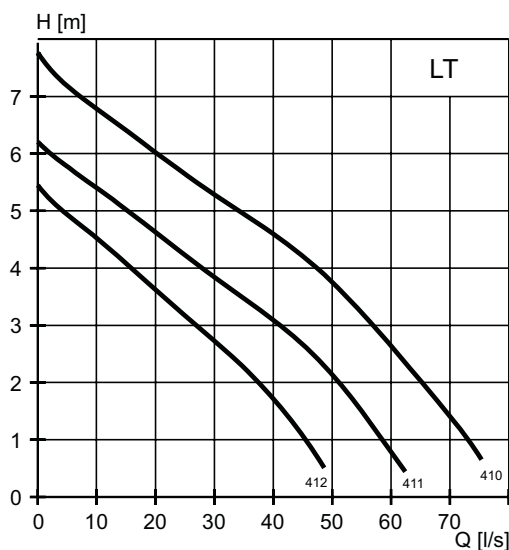
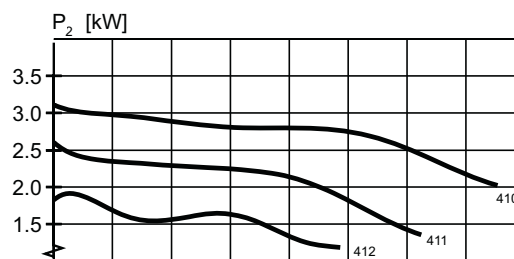
See separate booklet or www.flygt.com, for further information.

LT - Motor rating and performance curve

Impeller L

Curve/Impeller No	Rated power, kW	Rated current, A	Starting current, A	Power factor cos ϕ	Impeller thoughtlet, mm	Ex proof version available
400 V, 50 Hz, 3 ~, 1435 r/min						
410	3,1	6,9	39	0,77	55	•
411	3,1	6,9	39	0,77	52	•
412	3,1	6,9	39	0,77	54	•

Y/D starting current is approximately 1/3 of D starting current.

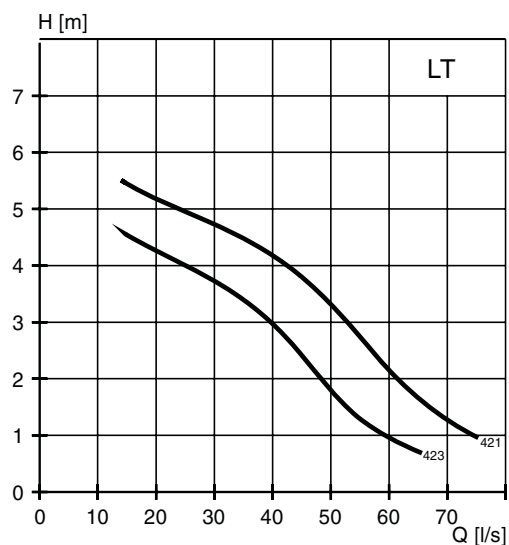
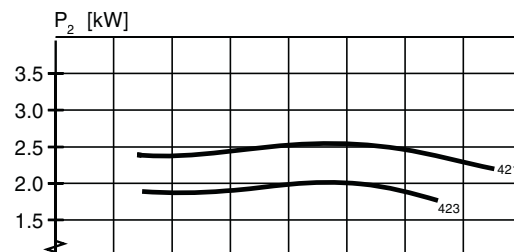


LT - Motor rating and performance curve

Impeller NL

Curve/Impeller No	Rated power, kW	Rated current, A	Starting current, A	Power factor cos ϕ	Impeller thoughtlet, mm	Ex proof version available
400 V, 50 Hz, 3 ~, 1435 r/min						
421	3,1	6,9	39	0,77	54	•
423	3,1	6,9	39	0,77	54	•

Y/D starting current is approximately 1/3 of D starting current.

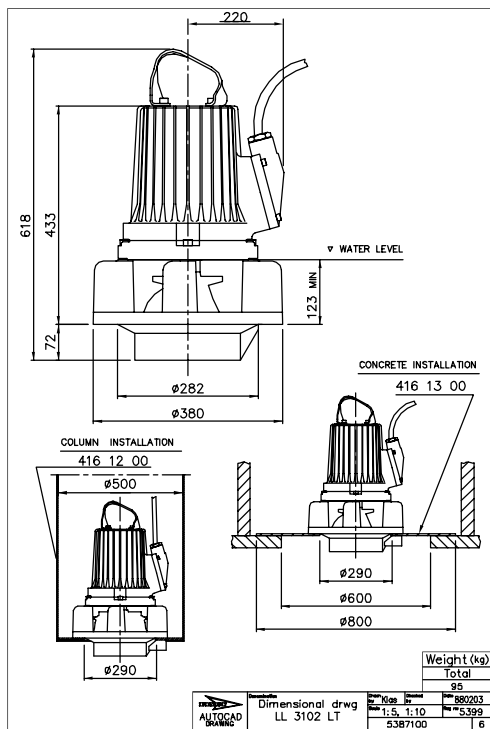


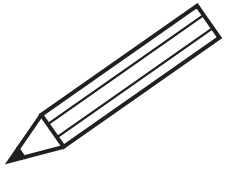
Dimensional drawing

All drawings are available as Acrobat documents (.pdf) and AutoCad drawings (.dwg). Download the drawings from www.flygt.com or contact your ITT Flygt representative for more information.

All dimensions are in mm.

LT, L-installation





Handwriting practice area with 20 horizontal dashed lines.



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