



C 3085

Product

Submersible pump for pumping clean water, surface water and waste water containing solids or fibred material.

Denomination

Product code	3085.183
Installation	F, P, S, T, Z
Impeller characteristics	LT, MT, HT

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/m ³
Impeller throughlet	See Motor rating table

Motor data

Frequency	60 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®	4G1,5 mm ²
	4G1,5+2x1,5 mm ²
	4G2,5 mm ²
	4G2,5+2x1,5 mm ²

Y/D start

SUBCAB®	7G2,5 mm ²
---------	-----------------------

VFD Application

NSSHÖU../3E+St	3x2,5+3x2,5/3E+3x1,5 St
----------------	-------------------------

Monitoring equipment

Thermal contacts opening temperature	125 °C
--------------------------------------	--------

Material

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

Mechanical face seals

Alternative	Inner seal	Outer seal
1	Carbon/ Aluminium oxide	Corrosion resistant cemented carbide/ Corrosion resistant cemented carbide
2	Carbon/ Aluminium oxide	Silicon carbide/ Silicon 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

3085.092	Ex. proof design
3085.280	Stainless steel design
3085.290	Stainless steel/ex proof design
3085.980	Industrial design
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

Discharge connections, adapters, hose connections and other mechanical accessories.

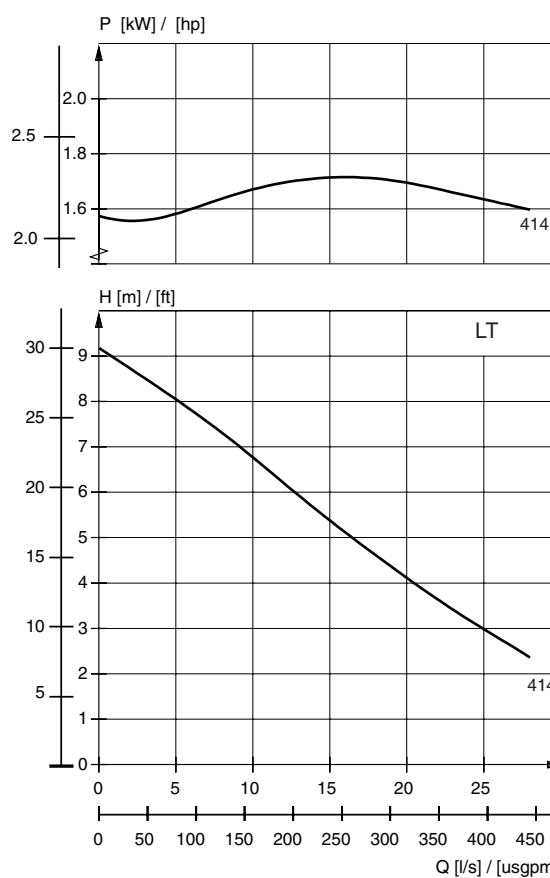
Electrical accessories such as pump controller, control panels, starters, monitoring relays, cables.

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

LT-Motor rating and performance curve

Curve/Impeller No	Rated power, kW	Rated current, A	Starting current, A	Power factor cos φ	Impeller throatlet, mm	Ex proof version available	Installation				
							P	S			
460 V, 60 Hz, 3 ~, 1710 r/min											
414	2,2	4,5	24,0	0,80	80	Yes	•	•			

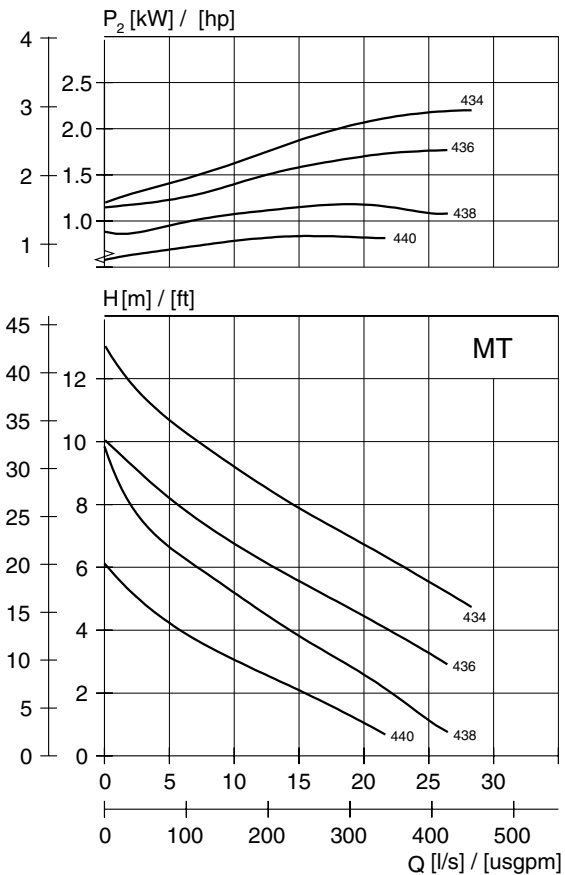
YID starting current is approximately 1/3 of D starting current.



MT-Motor rating and performance curve

Curve/Impeller No	Rated power, kW	Rated current, A	Starting current, A	Power factor cos ϕ	Impeller throatlet, mm	Ex proof version available	Installation				
							F	P	S	T	Z
460 V, 60 Hz, 3 ~, 1685 r/min											
436	1,6	3,4	15,0	0,82	76	Yes	•	•	•		
438	1,6	3,4	15,0	0,82	64	Yes	•	•	•		
440	1,6	3,4	15,0	0,82	64	Yes	•	•	•		
460 V, 60 Hz, 3 ~, 1710 r/min											
434	2,2	4,5	24,0	0,80	76	Yes	•	•	•		
436	2,2	4,5	24,0	0,80	2,2	Yes	•	•	•		
438	2,2	4,5	24,0	0,80	2,2	Yes	•	•	•		
440	2,2	4,5	24,0	0,80	2,2	Yes	•	•	•		
460 V, 60 Hz, 3 ~, 1720 r/min											
438	1,2	2,7	15,0	0,75	64	Yes				•	•
440	1,2	2,7	15,0	0,75	64	Yes				•	•
460 V, 60 Hz, 3 ~, 1735 r/min											
436	1,7	3,7	24,0	0,74	76	Yes				•	•
438	1,7	3,7	24,0	0,74	64	Yes				•	•
440	1,7	3,7	24,0	0,74	64	Yes				•	•
230 V, 60 Hz, 1 ~, 1705 r/min											
438	1,2	7,2	30,0	0,98	64	Yes	•	•	•		
440	1,2	7,2	30,0	0,98	64	Yes	•	•	•		
230 V, 60 Hz, 1 ~, 1710 r/min											
436	1,8	10,0	47,0	0,94	76	Yes	•	•	•		
438	1,8	10,0	47,0	0,94	64	Yes	•	•	•		
440	1,8	10,0	47,0	0,94	64	Yes	•	•	•		

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



HT-Motor rating and performance curve

Curve/Impeller No	Rated power, kW	Rated current, A	Starting current, A	Power factor cos ϕ	Impeller throatlet, mm	Ex proof version available	Installation				
							P	S			
460 V, 60 Hz, 3 ~, 3435 r/min											
252	30,	5,0	30,0	0,92	40	Yes	•	•			

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

