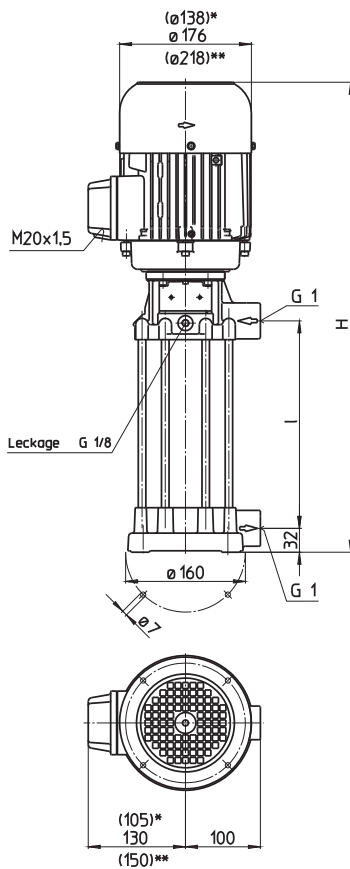


### FH403...435



\*) Dimensions for FH403...FH413

\*\*) Dimensions for FH432...FH435

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Length l mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quency Hz	Rated current A	Speed 1/min
<b>FH403A19</b>	40/18	488	197	16.9	0.45	220-240	50	1.9	2800
<b>FH404A19</b>	40/25			17.0		380-420	50	1.1	2800
<b>FH405A19</b>	40/30	488	197	17.4	0.54	220-240	50	2.42	2800
						380-420	50	1.40	2800
<b>FH406A29</b>	40/36	588	297	17.5					
<b>FH407A29</b>	40/42	606	297	20.3	0.75	220-240	50	3.8	2700
<b>FH408A29</b>	40/50			20.4		380-420	50	2.2	2700
<b>FH409A29</b>	40/56			20.5					
<b>FH410A29</b>	40/62	606	297	21.5	0.92	220-240	50	4.7	2700
						380-420	50	2.7	2700
<b>FH411A39</b>	40/68	706	397	22.0					
<b>FH412A39</b>	40/74	726	397	23.0	1.1	220-240	50	5.0	2700
<b>FH413A39</b>	40/80			23.1		380-420	50	2.9	2700
<b>FH414A39</b>	40/86	749	397	30.4	1.3	220-240	50	5.2	2850
						380-420	50	3.0	2850
<b>FH415A39</b>	40/95	749	397	31.0	1.5	220-240	50	6.6	2850
						380-420	50	3.8	2850
<b>FH416A49</b>	40/104	849	497	31.1					
<b>FH417A49</b>	40/112	849	497	31.6	1.7	220-240	50	7.1	2850
<b>FH418A49</b>	40/118			31.7		380-420	50	4.1	2850
<b>FH419A49</b>	40/125	873	497	35.8	1.9	220-240	50	8.5	2850
<b>FH420A49</b>	40/130			35.9		380-420	50	4.9	2850
<b>FH421A59</b>	40/136	973	597	36.9	2.2	220-240	50	9.2	2850
<b>FH422A59</b>	40/142			37.0		380-420	50	5.3	2850
<b>FH423A59</b>	40/150			37.1					
<b>FH424A59</b>	40/156			37.2					
<b>FH425A59</b>	40/162	983	597	37.8	2.6	220-240	50	10.9	2850
						380-420	50	6.3	2850
<b>FH426A69</b>	40/168	1083	697	38.4					
<b>FH427A69</b>	40/175			38.5					
<b>FH428A69</b>	40/182			38.6					
<b>FH429A69</b>	40/190			38.7					
<b>FH430A69</b>	40/198			38.8					
<b>FH431A79</b>	40/208	1183	797	39.3					
<b>FH432A79</b>	40/216	1238	797	49.5	3.3	220-240	50	13.8	2900
<b>FH433A79</b>	40/220			49.6		380-420	50	8.0	2900
<b>FH434A79</b>	40/230			49.7					
<b>FH435A79</b>	40/240			49.8					

# Pressure boosting pumps

## Closed impellers

# FH4 - 50 Hz

### Pressure Boosting Pumps

series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies. In addition, the TH series offers high pressures at short immersion depths.

Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

For alternating machining using **internally and externally cooled tools**, these models are available with YYY-configured **pole-changing motor** (Dahlander) for optional changeover to **half speed** operation.

**A frequency converter** can be supplied for **special applications** or for matching the pump characteristic to a specific duty point.

See page "Control/Regulation" in the Technical Information section of this catalog for further information.



### Applications

Types of fluid  
 water  
 coolants  
 cooling/cutting oils  
 Kinematic viscosity  
 ...25 mm<sup>2</sup>/s (25 cSt)  
 Pumping temperature  
 0...80° C

### Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton

Optional:

Pole-changing motor	4 - 2 poles
Pump body	bronze
Cover	bronze

Noise level

FH403...FH413	58 dBA
FH414...FH431	63 dBA
FH432...FH435	71 dBA

## 50 Hz

