Standard heating circulation pumps, speed step switch (3-step)

HLPA series, H4 product group





TECHNICAL DATA

Rate of flow: up to 7 m³/h
Pressure head: up to 7 m
Media temperature: -10 °C to +110 °C
Installation lenght: 180 mm
Threaded connection: 1½" und 2"

Protection class: IP 42 Insulation class: H Nominal pressure: PN 10

Control: 3-step switch with manual speed selection

PRODUCT FEATURES

- manual start-up feature
- smooth running
- convenient operation
- space-saving axially integrated terminal box
- compact design

USE

The HLPA series circulation pumps are specially designed for heating systems in which large pressure heads and capacities are equally required. These circulation pumps are designed for use in heating systems with variable or constant flow rates. The HLPA circulation pumps meet the energy efficiency standard class D.

MAIN AREAS OF USE

Heating, air-conditioning and industry systems as

- dual pipe system
- boiler/primary circuit
- storage charging circuit

MATERIALS

Component	Material	Material no.
Pump housing	Grey-cast iron	0.6020
Impeller	Polyamide (PA - GF 35)	
Shaft	Ceramic	
Bearing	Ceramic	
Bearing plate	Stainless steel	1.4301
Can	Stainless steel	1.4301

FLOW MEDIA

- heating water
- pure, thin, non-aggressive and non-explosive, mineral oil-free media without solid particles or fibres
- media with a max. viscosity of 10 mm²/s
- operating data must be checked above 20 % glycol

TEMPERATURE RANGE

Ambient temperature: $0 \, ^{\circ}\text{C}$ to +40 $^{\circ}\text{C}$ Temperature class: TF 110

Media temperature: -10 °C to +110 °C

AMBIENT TEMPERATURE

To avoid condensation forming in the terminal box and stator, the media temperature must always be the same or higher than the ambient temperature.

Ambient temp.	Media temp. min.	Media temp. max.		
0	2	110		
10	10	110		
20	20	110		
30	30	110		
35	35	110		
40	40	110		

MOTOR PROTECTION

External motor protection is not required.

SPEED SWITCHING

Three speed, with manual selector. The respective speed is set via rotary switch inte- grated in the terminal board.

MINIMUM INFLOW PRESSURE

Please determine the minimum inflow pressure for corresponding temperature from the following table.

Media temperature	< 85 °C	90 °C	110 °C	
Minimum inflow pressure	0.05 bar	0.3 bar	1.10 bar	

SOUND PRESSURE LEVEL

The sound pressure level is < 45 dB (A).

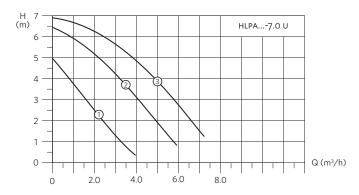
Standard heating circulation pumps, speed step switch (3-step)

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TECHNICAL DATA

ТҮРЕ	CONNECTION PIPE	THREADED CONNECTION	INSTALLATION LENGTH (MM)	VOLTAGE / FREQUENCY	P1 (W)	I _{MAX} (A)	NET-WEIGHT (KG)	PRODUCT NO.
HLPA 25-7.0 U 180	1"	1½"	180	230	95190	0.42 0.85	4.5	0323-63207-71
HLPA 30-7.0 U 180	11/4"	2"	180	230	95190	0.42 0.85	4.5	0324-63207-71

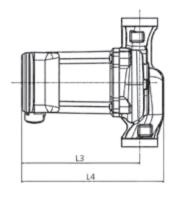
PERFORMANCE CURVES

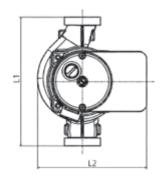


DIMENSIONS

TYPE	L1 (MM)	L2 (MM)	L3 (MM)	L4 (MM)	
HLPA	180	153	165	199	

DIMENSION ILLUSTRATION







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FILE NO.: 11.280MEA SUPERSEDES: NEW DATE: DEC. 09, 2018 DATE: NEW