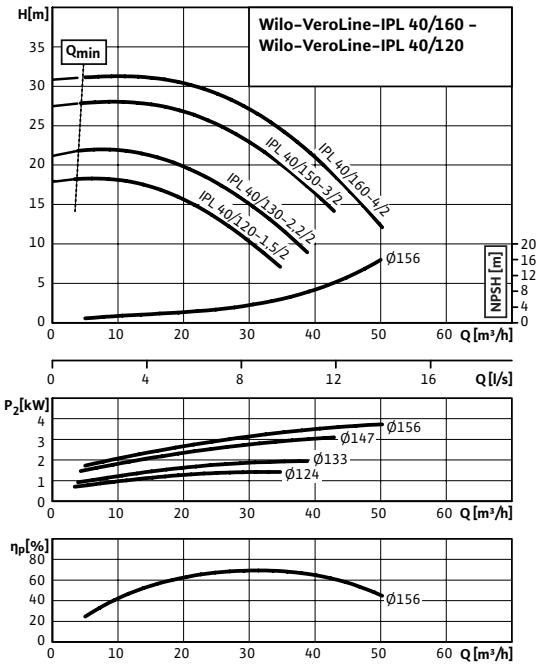
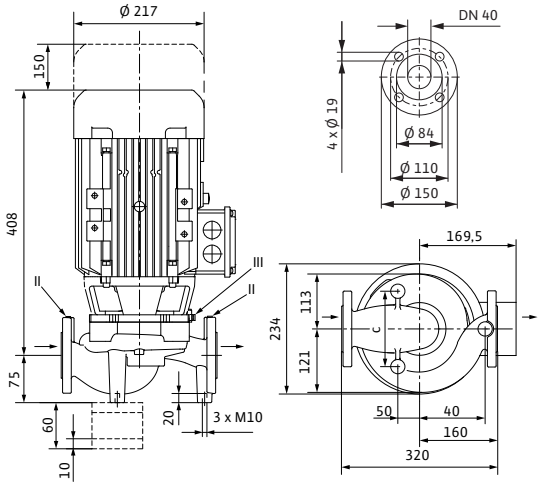
Data sheet: Wilo-VeroLine-IPL 40/150-3/2

Pump curves

2-pole, 50 Hz

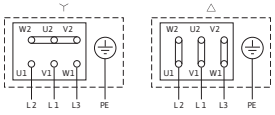


Dimension drawing



Note:
Housing with feet for installation on a base, brackets on request; II Pressure measuring connection R1/8; III Ventilation R1/8

Terminal diagram



Δ: Connection diagram delta connection
Y: Connection diagram star connection
Motor protection switch required on-site.
Check the direction of rotation! To change the direction of rotation, exchange any two phases.

$P_2 \leq 3$ kW	3~400 V Y
	3~230 V Δ
$P_2 \geq 4$ kW	3~690 V Y
	3~400 V Δ

After removing the bridges, Y-Δ start is

Approved fluids (other fluids on request)

Heating water (in accordance with VDI 2035)	•
Water-glycol mixtures (for 20-40 vol.% glycol and fluid temperature ≤ 40 °C)	•
Cooling and cold water	•
Heat transfer oil	Special version at additional charge

Permitted field of application

Standard version for operating pressure	p_{max}	10 bar
Special version for operating pressure	p_{max}	16 bar
Temperature range at max. ambient temperature +40 °C		-20...+120 °C (depending on the fluid)
Max. ambient temperature		+40 °C
Installation in closed buildings		•
Outdoor installation		Special version at additional charge

Pipe connections

Nominal flange diameter	DN 40
Flanges (according to EN 1092-2)	PN 10 (PN 16 on request)
Flange with pressure-measurement connections	R $^1/_8$

Materials

Pump housing	EN-GJL-250
Lantern	EN-GJL-250
Impeller	PPO-GF30
Impeller (special version)	–
Pump shaft	1.4021 [AISI420]
Mechanical seal	AQEGG
Other mechanical seals	On request

Electrical connection

Mains connection		3~400 V, 50 Hz
Nominal speed	n	2900 rpm

Minimum Efficiency Index (MEI)

Minimum Efficiency Index (MEI)	≥ 0.40
Pump with max. impeller diameter for determining the MEI	IPL40/160-4/2

Data sheet: Wilo-VeroLine-IPL 40/150-3/2

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Motor/electronics

Integrated full motor protection		Special version with PTC thermistor sensor (KLF) at additional charge
Protection class		IP 55
Insulation class		F
Rated current (approx.)	I_N 3~400 V	6.17 A
Motor efficiency level		IE2
Motor efficiency	η_m 50%/η_m 75%/η_m 100%	82.5/84.6/84.6 %
Power factor	cos φ	0.81
Nominal motor power	P_2	3.0 kW
Motor winding up to 3 kW		230 V Δ/400 V Y, 50 Hz
Motor winding from 4 kW		400 V Δ/690 V Y, 50 Hz

Installation options

Pipe installation (≤ 15 kW motor power)	•
Support-bracket mounting	•

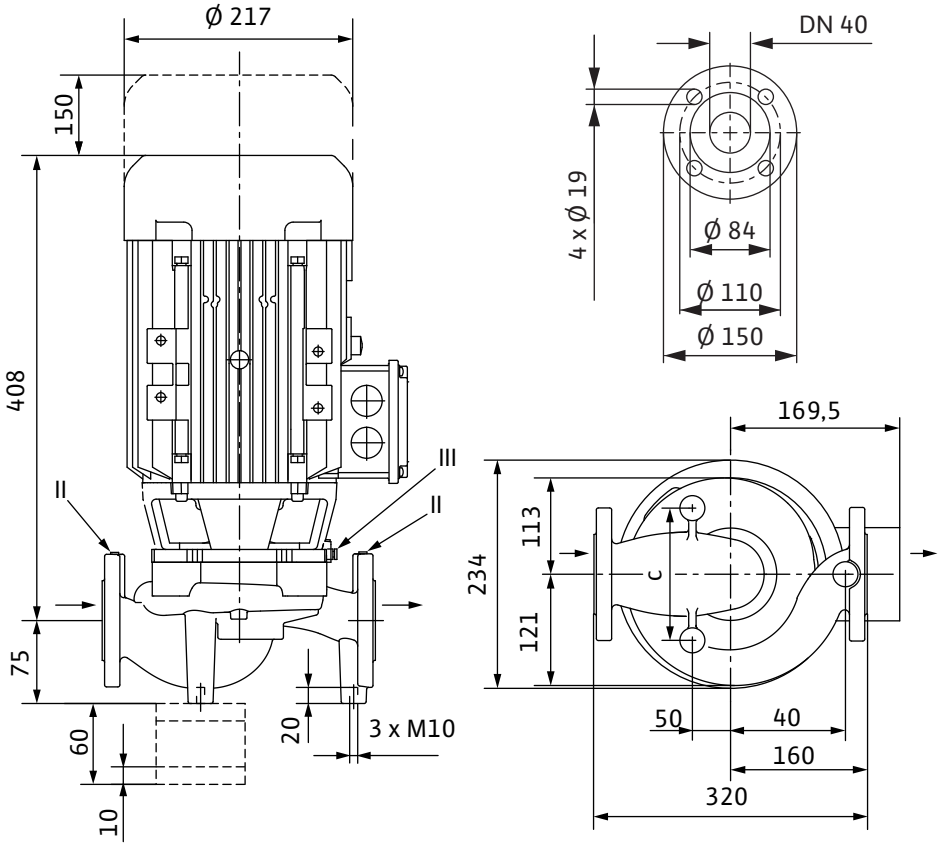
Information for order placements

Weight approx.	m	38 kg
Make		Wilo
Type		VeroLine-IPL 40/150-3/2
Art no.		2089588

Observe motor name plate data

Dimensions and dimension drawings: Wilo-VeroLine-IPL 40/150-3/2

Dimension drawing



Note:
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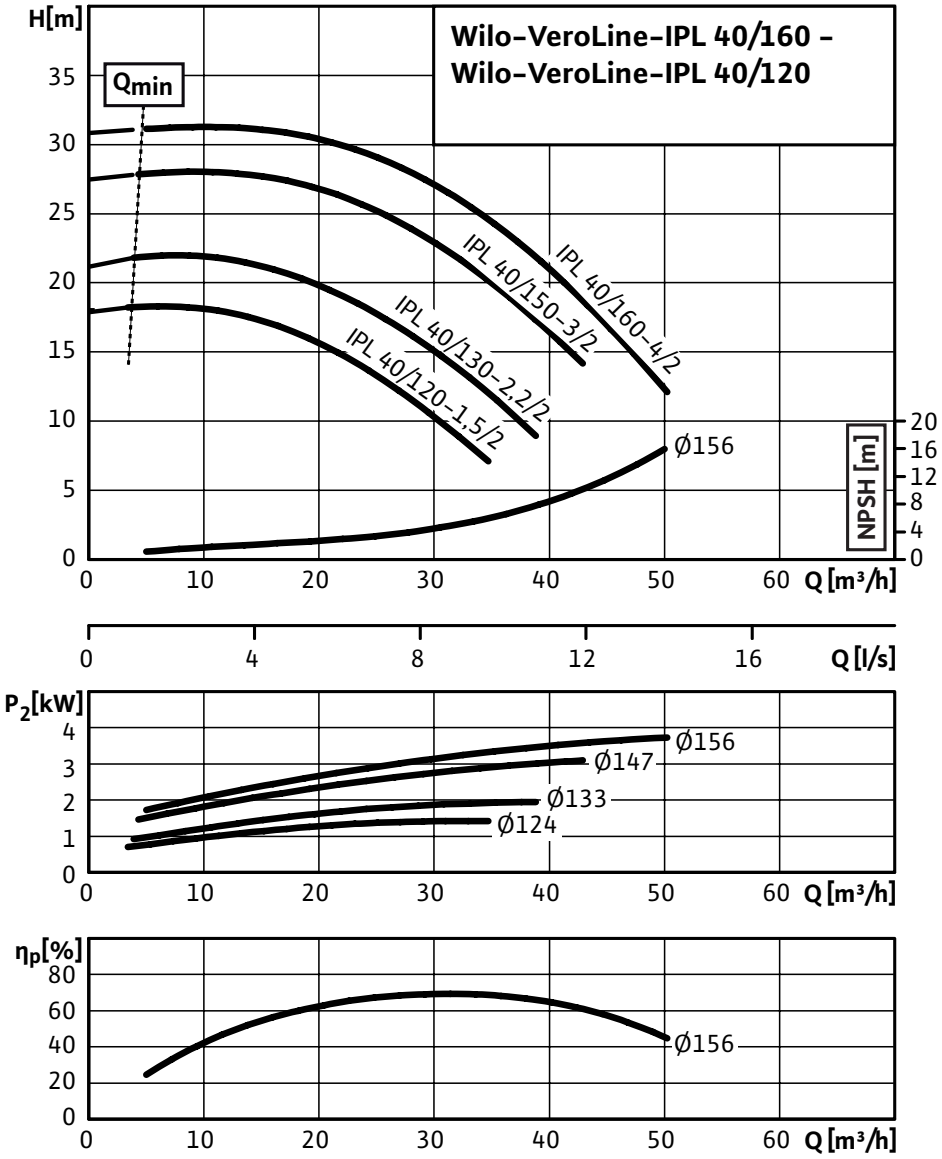
Pump curves: Wilo-VeroLine-IPL 40/150-3/2

Pump curves

2-pole, 50 Hz



Ordering information: Wilo-VeroLine-IPL 40/150-3/2

Information for order placements

Make		Wilo
Type		VeroLine-IPL 40/150-3/2
Art no.		2089588
EAN number		4016322990581
Colour		Green
Minimum order quantity		1
Minimum order quantity unit		PCE
Weight (net)	*kg*	38
Length (net)	*mm*	483
Width (net)	*mm*	234
Height (net)	*mm*	320
Weight (gross)	*kg*	38.8
Length (gross)	*mm*	540
Width (gross)	*mm*	380
Height (gross)	*mm*	360
Packaging type		Cardboard box

Specification texts: Wilo-VeroLine-IPL 40/150-3/2

Single-stage glanded centrifugal pump with compact in-line design with directly flanged three-phase motor and one-piece shaft or with lantern and standard motor rigidly connected by coupling (N version). The IPL series is suitable for pipe installation or installation on a base. Mounting brackets are available as accessories. With forced-flow circulation, bidirectional bellows mechanical seal and cavitation-reducing plastic impeller.
Flange with R 1/8 pressure measuring connections. Pump housing and lantern are cataphoretic-coated.

Materials

Pump housing: EN-GJL-250

Lantern: EN-GJL-250

Impeller: PPO-GF30

Pump shaft: 1.4021 [AISI420]

Mechanical seal: AQEGG

Permitted field of application

Standard version for operating pressure: 10 bar

Temperature range at max. ambient temperature +40 °C: -20...+120 °C (depending on the fluid)

Max. ambient temperature: +40 °C

Pipe connections

Nominal flange diameter: DN 40

Flanges (according to EN 1092-2): PN 10 (PN 16 on request)

Flange with pressure-measurement connections: R $^{1}/_{8}$

Overall length: 320 mm

Minimum Efficiency Index (MEI)

Minimum Efficiency Index (MEI): ≥ 0.40

Pump with max. impeller diameter for determining the MEI: IPL40/160-4/2

Motor/electronics

Protection class: IP 55

Insulation class: F

Rated current (approx.): 6.17 A

Motor efficiency level: IE2

Motor efficiency: 82.5/84.6/84.6 %

Power factor: 0.81

Nominal motor power: 3.0 kW

Nominal speed: 2900 rpm

Weight

Weight approx.: 38 kg

Information for order placements

Art no.: 2089588

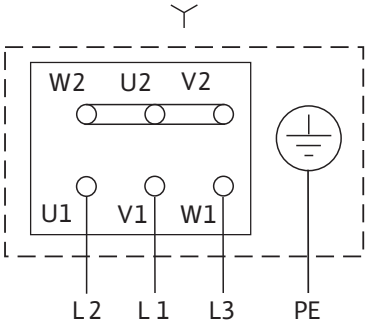
Type: VeroLine-IPL 40/150-3/2

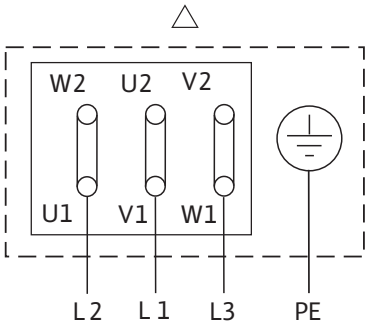
Specification texts: Wilo-VeroLine-IPL 40/150-3/2

Make: Wilo

Terminal diagram : Wilo-VeroLine-IPL 40/150-3/2

Terminal diagram





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	3~400 V Δ

After removing the bridges, Y-Δ start is possible.