

SUPPLEMENTARY INFORMATION

EN

Translation of the Original

OKTALINE

Roots pumps without motor | Requirements for customer-supplied motors





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1 About this manual



IMPORTANT

Read carefully before use.
Keep the manual for future consultation.

1.1 Validity

This document applies only to units with the following part numbers:

- Okta 250
 - Pfeiffer Vacuum part number **PP W21 001**
- Okta 300
 - Pfeiffer Vacuum part number **PP W24 001**
- Okta 500
 - Pfeiffer Vacuum part number **PP W31 001**
- Okta 600
 - Pfeiffer Vacuum part number **PP W34 001**
- Okta 1000
 - Pfeiffer Vacuum part number **PP W41 001**
- Okta 2000
 - Pfeiffer Vacuum part number **PP W61 001**
- Okta 4000
 - Pfeiffer Vacuum part number **PP W71 001**
- Okta 6000
 - Pfeiffer Vacuum part number **PP W76 001**
- Okta 8000
 - Pfeiffer Vacuum part number **PP W80 001**

This supplementary information describes important deviations from the standard product and is valid only in conjunction with the valid operating instructions.

The current Pfeiffer Vacuum Roots pump version is designed for use only with the motor types described below.

1.2 Related documents

Document	Number
Operating instructions for "standard pump" Okta 250 Okta 500	PP 0071 BN
Operating instructions for "standard pump" Okta 300 Okta 600	PW 0316 BN
Operating instructions for "standard pump" Okta 1000	PP 0950 BN
Operating instructions for "standard pump" Okta 2000	PP 1011 BN
Operating instructions for "standard pump" Okta 4000 Okta 6000	PP 0985 BN
Operating instructions for "standard pump" Okta 8000	PP 0074 BN

Current documents are available from the [Pfeiffer Vacuum Download Center](#).

2 Safety

2.1 Safety precautions



Notes on warranty and liability

Operation with motors that do not correspond to the attached data sheets or that Pfeiffer Vacuum have not explicitly approved for use in the vacuum pumps listed (third-party motors) is at your own risk. Pfeiffer Vacuum assumes no guarantee or liability for damages caused by the use of such third-party motors.



Duty to provide information on potential dangers

The product holder or user is obliged to make all operating personnel aware of dangers posed by this product.

Every person who is involved in the installation, operation or maintenance of the product must read, understand, and adhere to the safety-related parts of this document.

2.2 Proper use

- ▶ Operate the vacuum pump only in conjunction with motors that meet this specification, or that have been granted specific approval from Pfeiffer Vacuum.

2.3 Foreseeable misuse

Misuse of the product automatically invalidates all warranty and liability claims. Any use that is counter to the purpose of the product, whether intentional or unintentional, is regarded as misuse, in particular:

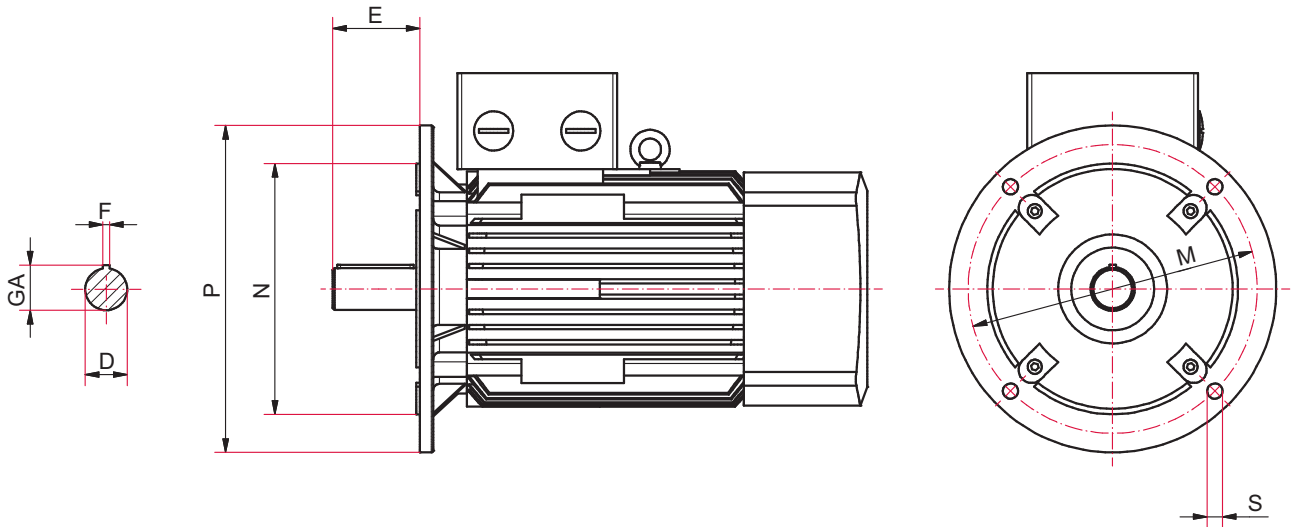
- Operating the vacuum pump with non-specified third-party motors.
- Operating the vacuum pump with motors that do not meet the requirements of EN 60034-1 or IEC 60034-1.

3 Installation

Technical specifications of motors used for Pfeiffer Vacuum Roots pumps

- Surface cooled squirrel-cage induction motor with cage rotors and bearings according to DIN EN 60034-1 / IEC 60034
- Dimensions, tolerances, type according to DIN EN 50347
- Fixed bearing on side A
- Motors for OktaLine with half key balancing up to rotation speed 75 Hz

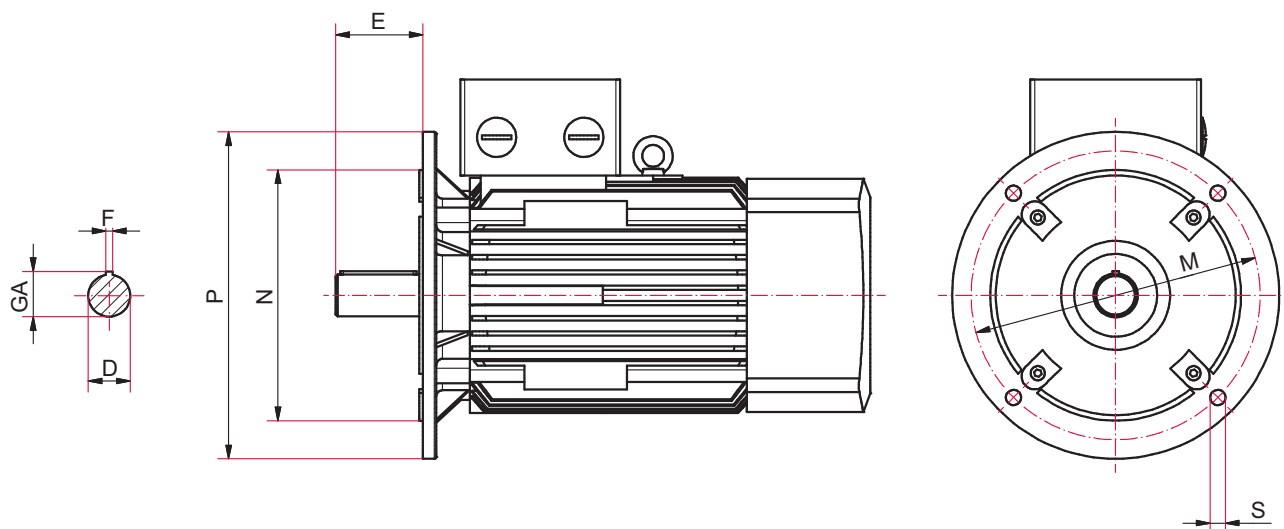
3.1 Motor specifications for Okta 250 | Okta 300 | Okta 500 | Okta 600



Parameter	Okta 250	Okta 300	Okta 500	Okta 600	
Part number	PP W21 001	PP W24 001	PP W31 001	PP W34 001	
Motor type	IM B5	IM B5	IM B5	IM B5	
Size	80	90	90	90	
Flange	FF 165	FF 165	FF 165	FF 165	
Rated power 50 Hz	0.75 kW	1.1 kW	1.5 kW	1.5 kW	
Rated power 60 Hz	0.9 kW	1.3 kW	1.8 kW	1.8 kW	
Synchronous speed 50 Hz	3000 rpm	1500 rpm	3000 rpm	3000 rpm	
Synchronous speed 60 Hz	3600 rpm	1800 rpm	3600 rpm	3600 rpm	
Dimensions	P	200 mm	200 mm	200 mm	200 mm
	M	165 mm	165 mm	165 mm	165 mm
	N	130 mm	130 mm	130 mm	130 mm
	S	12 mm	12 mm	12 mm	12 mm
	E	40 mm	50 mm	50 mm	50 mm
	GA	21.5 mm	27 mm	27 mm	27 mm
	D	19 mm	24 mm	24 mm	24 mm
	F	6 mm	8 mm	8 mm	8 mm
Weight	≤ 11 kg	≤ 17 kg	≤ 21 kg	≤ 21 kg	

Tbl. 1: IM B5 motors on Okta 250 | Okta 300 | Okta 500 | Okta 600

3.2 Motor specifications for Okta 1000 to Okta 8000



Parameter	Okta 1000	Okta 2000	Okta 4000	Okta 6000	Okta 8000	
Part number	PP W41 001	PP W61 001	PP W71 001	PP W76 001	PP W80 001	
Motor type	IM B5	IM B5	IM B5	IM B5	IM B5	
Size	100	132	160	160	180	
Flange	FF 215	FF 265	FF 300	FF 300	FF 300	
Rated power 50 Hz	3 kW	5.5 kW	11 kW	15 kW	22 kW	
Rated power 60 Hz	3.6 kW	6.3 kW	13.2 kW	18.5 kW	25 kW	
Synchronous speed 50 Hz	3000 rpm	3000 rpm	3000 rpm	3000 rpm	1500 rpm	
Synchronous speed 60 Hz	3600 rpm	3600 rpm	3600 rpm	3600 rpm	1800 rpm	
Dimensions	P	250 mm	300 mm	350 mm	350 mm	350 mm
	M	215 mm	265 mm	300 mm	300 mm	300 mm
	N	180 mm	230 mm	250 mm	250 mm	250 mm
	S	14.5 mm	14.5 mm	18.5 mm	18.5 mm	18.5 mm
	E	60 mm	80 mm	110 mm	110 mm	110 mm
	GA	31 mm	41 mm	45 mm	45 mm	51.5 mm
	D	28 mm	38 mm	42 mm	42 mm	48 mm
	F	8 mm	10 mm	12 mm	12 mm	14 mm
Weight	≤ 35 kg	≤ 54 kg	≤ 121 kg	≤ 153 kg	≤ 228 kg	

Tbl. 2: IM B5 motors on Okta 1000 to Okta 8000

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perfect vacuum solution?
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