

## THREE-PHASE-ASYNCHRONOUS-MOTOR FOA 90 S 2 /PHE

IE3OG09S2003

### General data

Type of motor	3~
Type designation	FOA
Frame size	90
Mounting	B5
Frame execution	S
Frame material	Aluminium
Insulationclass	F/B
Terminal box location	top DE
Terminal box orientation	cable gland to the right side
Weight (kg)	13
Rotation Direction	right /left
Vibration level	A
Balancing method	half key
cooling type	IC411
Executed acc. to	IEC 60034-1
noise level	IEC 60034-9

### Influential factors

Duty	S1
Ambient temperature (°C)	-20 up to +40
Height of location (m)	1000

### Electrical specification

Power 1 50Hz (kW)	1,5
Power 1 60Hz (kW)	1,5
Frequency (Hz)	50/60
Voltage 50Hz (V)	230/400
Voltage 60Hz (V)	-/460
Voltage tolerance	+/-10%
Connection	$\Delta/Y$
Poles	2
Efficiency 100% 50Hz (%)	84,2
Efficiency 75% 50Hz (%)	85
Efficiency 50% 50Hz (%)	84
Efficiency 100% 60Hz (%)	85,5
Efficiency 75% 60Hz (%)	86,3
Efficiency 50% 60Hz (%)	85,3
Power factor	0,81
Starting current factor (Ia/In)	6,2
Starting torque factor (Ma/Mn)	2,7
Breakdown torque (Mk/Mn)	3,4
Rated current 50Hz (A)	5,45/3,16
Rated current 60Hz (A)	0,00/2,72
Eff.Cl.50Hz	IE3
Eff.Cl.60Hz	IE3

### Mechanical data

Torque (Nm)	4,98/4,15
Rotation speed (1/min)	2875/3450
Bearing DE	6205.ZZ.CM
Bearing NDE	6205.ZZ.CM
Mounting of bearing DE	loose bearing
Mounting of bearing NDE	loose bearing
Bearing lifetime (h)	20000
allow. Radial load (X0)	792
allow. Radial load (Xmax)	648
Moment of inertia (kgm <sup>2</sup> )	0,0018

### Motor properties

Color	RAL7030
Paint surface	shiny
Protection class	IP55
Cable gland size (cable connection)	1xM25x1,5 1xblind plug
Cable gland type	Standard
Shaft end (mm)	24 x 50
Shaft material	C40
Specification NDE	Plastic fan
Flange	200

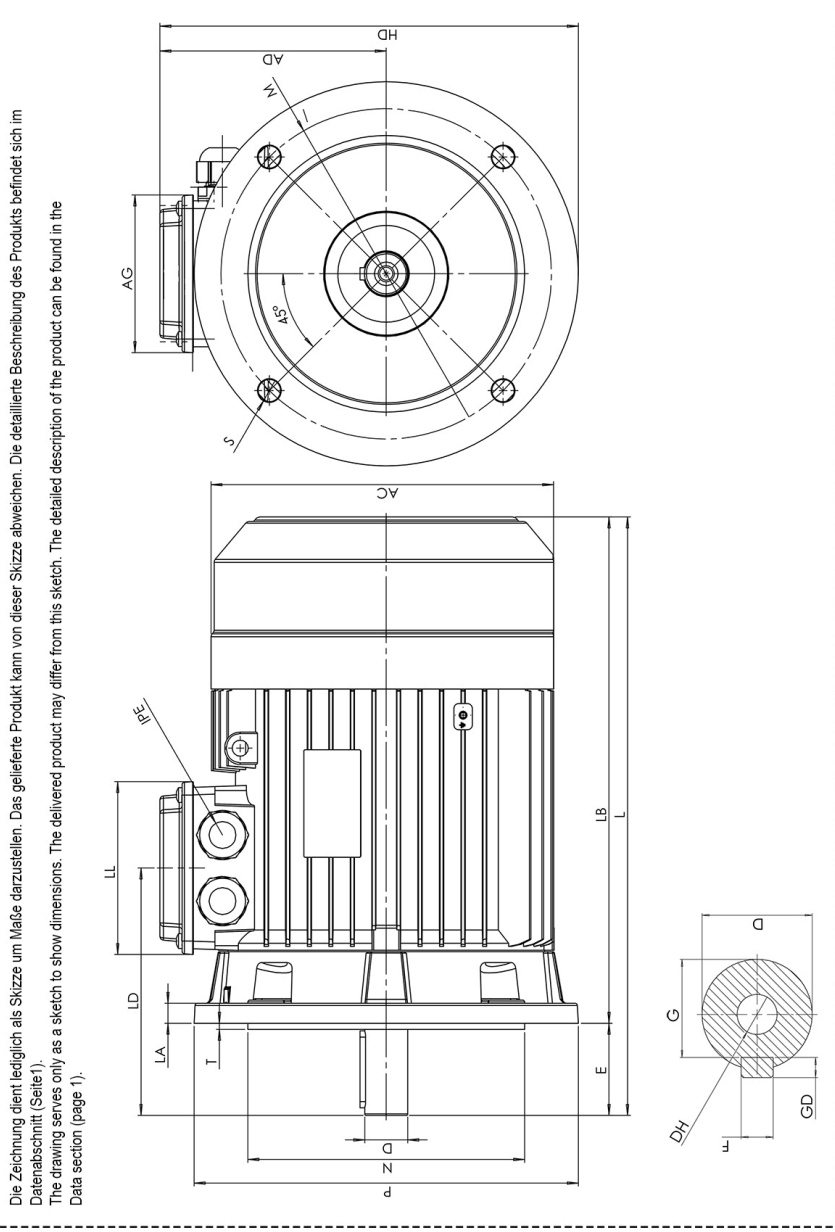
### Additional option

Condensate draining hole	✓
Condensate draining hole sealing screw	✓

# Dimension drawings

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### IE30G09S2003



AC	AD	AG	D	E	HD	L	LB	LD	LL	M	N	P	S	T	F	G	DH	GD
176	125	103	24	50	225	313	263	145	113	165	130	200	4x12	3,5	8	20	M8	7