

THREE-PHASE-ASYNCHRONOUS-MOTOR FOA 90 S 4 /PHE

IE3OG09S4050

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)	14
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)	1.1
Power 1 60Hz (kW)	1.1
Frequency (Hz)	50/60
Voltage 50Hz (V)	230/400
Voltage 60Hz (V)	-/460
Voltage/Frequency tolerance (not valid for range voltage)	+/-10%
Connection	Δ/Y
Poles	4
Efficiency 100% 50Hz (%)	84,1
Efficiency 75% 50Hz (%)	83,9
Efficiency 50% 50Hz (%)	81,2
Efficiency 100% 60Hz (%)	86,5
Efficiency 75% 60Hz (%)	86,3
Efficiency 50% 60Hz (%)	83,7
Power factor	0,72
Starting current factor	6,6
Starting torque factor	3,3
Tilting moment factor	3,7
Rated current 50Hz (A)	4,56/2,62
Rated current 60Hz (A)	0,00/2,22
Eff.Cl.50Hz	IE3

Electrical specification

Eff.Cl.60Hz	IE3
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Mechanical data

Torque (Nm)	7,30/6,11
Rotation speed (1/min)	1440/1725
Bearing DE	6205.ZZ.CM
Bearing NDE	6205.ZZ.CM
Mounting of bearing DE	loose bearing
Mounting of bearing NDE	loose bearing
Bearing lifetime	20000
allow. Radial load (X0)	996
allow. Radial load (Xmax)	816
Moment of inertia	0,0035

Motor properties

Color	RAL7030
Paint surface	shiny
Protection class	IP55
Cable gland size (cable connection)	M25x1,5
Cable gland size (option)	M20x1,5
Cable gland type	Standard
Shaft end	24 x 50
Shaft material	C40
Specification NDE	Plastic fan
Flange	200

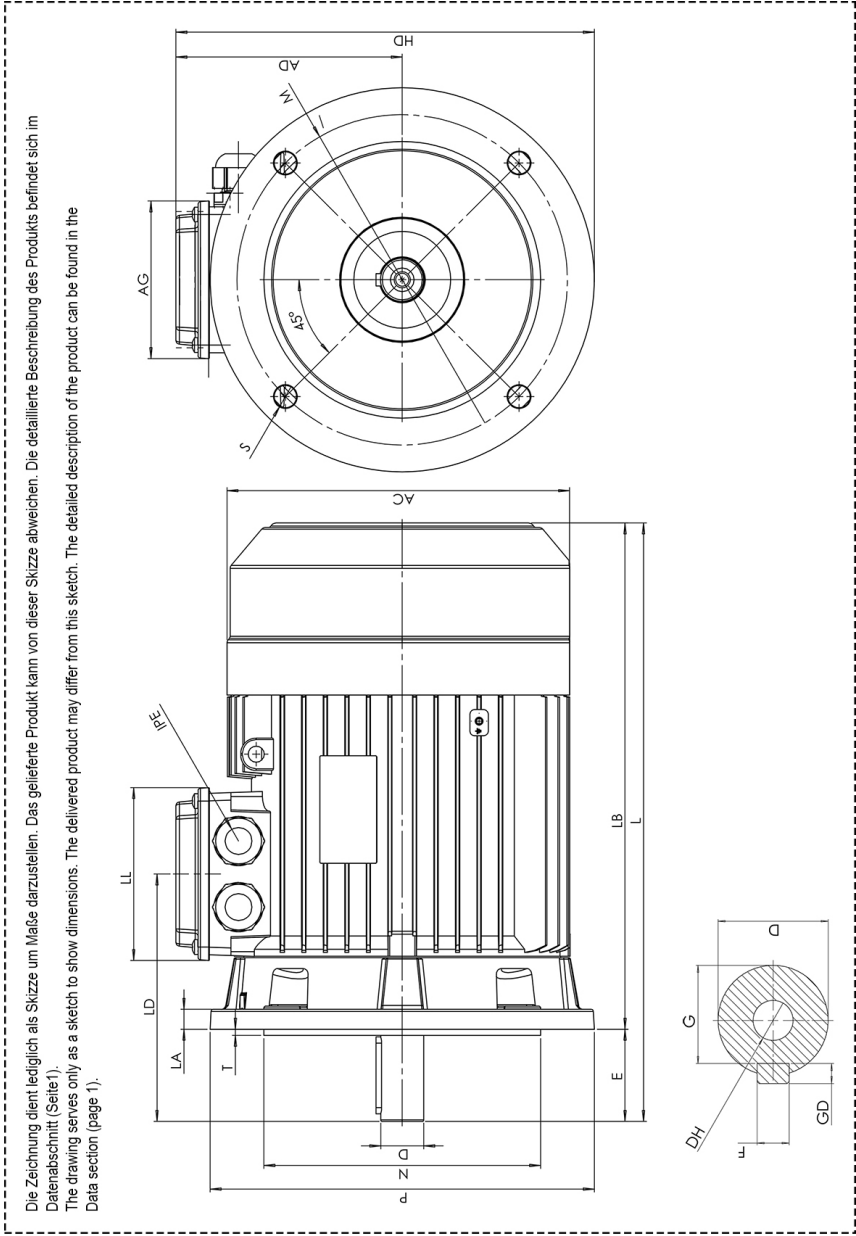
Additional option

Protection winding	PTC 150°C
Condensate draining hole	✓
Condensate draining hole sealing screw	✓

Dimension drawings

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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