

THREE-PHASE-ASYNCHRONOUS-MOTOR E3-ASA 90 LA 2

IE3UM09L2101

General data

Type of motor	3~ explosion proof
Type designation	E3-ASA
Frame size	90
Mounting	B14a
Frame execution	LA
Frame material	Grauguß
Insulationclass	F/F
Terminal box location	top DE
Terminal box orientation	cable gland to the right side
Weight (kg)	35
Rotation Direction	right /left
Vibration level	A
Balancing method	half key
cooling type	IC411
Executed acc. to	IEC 60034 -1, EN 60079-0/-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)	2.2
Power 1 60Hz (kW)	2.53
Frequency (Hz)	50/60
Voltage 50Hz (V)	230/400
Voltage 60Hz (V)	-/460
Voltage/Frequency tolerance (not valid for range voltage)	+/-5%
Connection	Δ/Y
Poles	2
Efficiency 100% 50Hz (%)	85,9
Efficiency 75% 50Hz (%)	85,6
Efficiency 50% 50Hz (%)	78,0
Efficiency 100% 60Hz (%)	86,5
Efficiency 75% 60Hz (%)	85,6
Efficiency 50% 60Hz (%)	78,0
Power factor	0,90
Starting current factor	6,5
Starting torque factor	2,8
Tilting moment factor	3,0
Rated current 50Hz (A)	7,14/4,11
Rated current 60Hz (A)	4,08
Eff.Cl.50Hz	IE3

Electrical specification

Eff.Cl.60Hz	IE3
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Mechanical data

Torque (Nm)	7,34/8,81
Rotation speed (1/min)	2864/3437
Bearing DE	
Bearing NDE	
Mounting of bearing DE	fixed bearing
Mounting of bearing NDE	loose bearing
Bearing lifetime	20000
allow. Radial load (X/2)	625
allow. Radial load (X0)	700
allow. Radial load (Xmax)	550
allow. Axial load B3,B5,B35,B14,B34	500
allow. Axial load V1,V3,V19,V18	460
Moment of inertia	0,003181

Motor properties

Color	RAL7030
Paint surface	matt
Protection class	IP55
Cable gland size (cable connection)	M25x1,5
Cable gland size (option)	M20x1,5
Cable gland type	Atex
Shaft end	24 x 50
Shaft material	C45
Specification NDE	Plastic fan
Flange	140

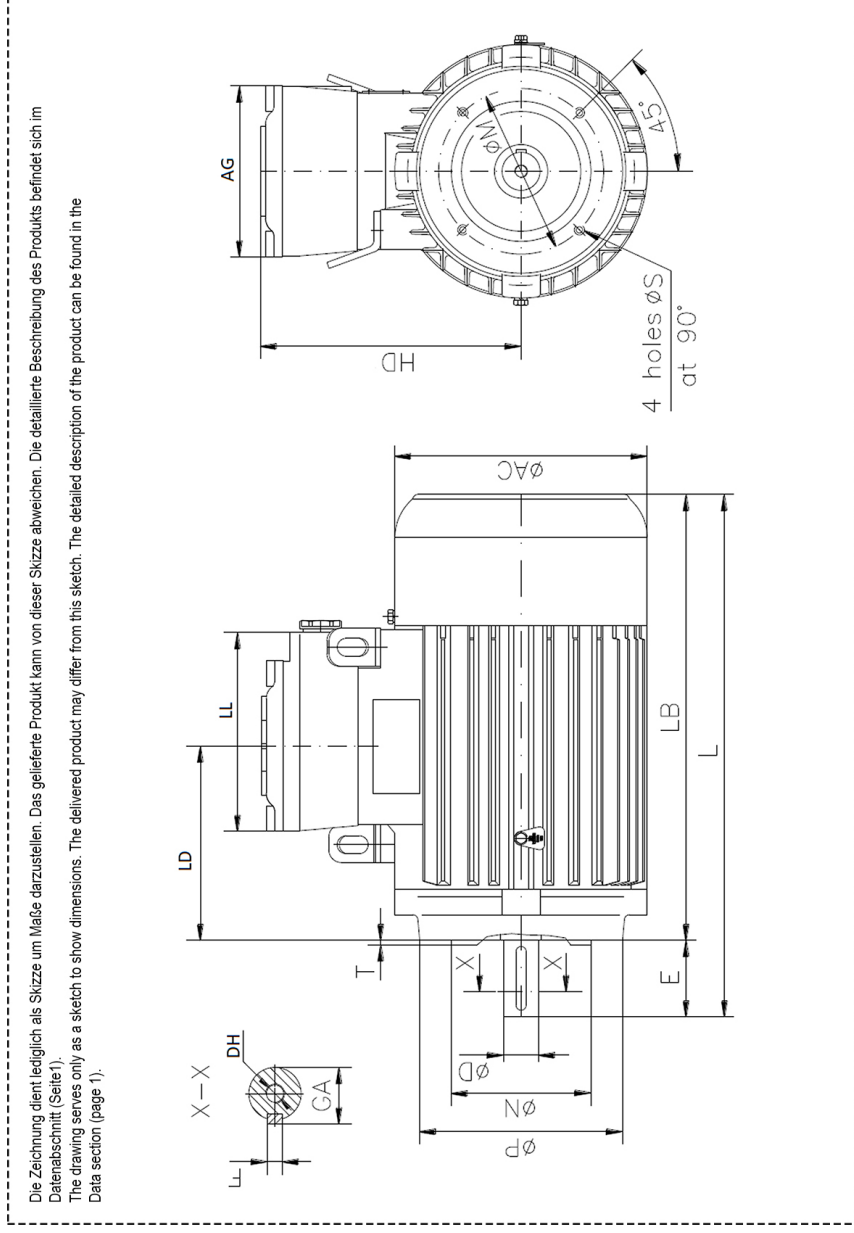
Additional option

Protection winding	PTC 130°C
Atex	II 2G Ex db eb IIC T4 Gb

Three-Phase-Asynchronous-

Motor E3-ASA 90 LA 2

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AC	AG	D	E	H	HD	L	LM	LD	LL	M	N	P	S	T	F	G	DH
177	120	24	50	90	182	413	443	140	125	115	95	140	M8	3	8	27	M8