

## THREE-PHASE-ASYNCHRONOUS-MOTOR E3-ASA 90 SB 4

IE3UM09S4200

### General data

Type of motor	3~ explosion proof
Type designation	E3-ASA
Frame size	90
Mounting	B3
Frame execution	SB
Frame material	Grauguß
Insulationclass	F/F
Terminal box location	top DE
Terminal box orientation	cable gland to the right side
Weight (kg)	34
Rotation Direction	right /left
Vibration level	A
Balancing method	half key
cooling type	IC411
Executed acc. to noise level	IEC 60034 -1, EN 60079-0/-1 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)	1.27
Frequency (Hz)	50/60
Voltage 50Hz (V)	230/400
Voltage 60Hz (V)	-/460
Voltage tolerance	+/-5%
Connection	$\Delta/Y$
Poles	4
Efficiency 100% 50Hz (%)	84,2
Efficiency 75% 50Hz (%)	82,4
Efficiency 50% 50Hz (%)	78,5
Efficiency 100% 60Hz (%)	86,5
Efficiency 75% 60Hz (%)	82,4
Efficiency 50% 60Hz (%)	78,5
Power factor	0,73
Starting current factor (Ia/In)	8,3
Starting torque factor (Ma/Mn)	3,3
Breakdown torque (Mk/Mn)	3,4
Rated current 50Hz (A)	4,49/2,58
Rated current 60Hz (A)	2,52
Eff.Cl.50Hz	IE3
Eff.Cl.60Hz	IE3

### Mechanical data

Torque (Nm)	7,22/8,66
Rotation speed (1/min)	1454/1745
Bearing DE	
Bearing NDE	
Mounting of bearing DE	fixed bearing
Mounting of bearing NDE	loose bearing
Bearing lifetime (h)	20000
allow. Radial load (X/2)	775
allow. Radial load (X0)	875
allow. Radial load (Xmax)	675
allow. Axial load	675
allow. Axial load (V1)	635
Moment of inertia (kgm <sup>2</sup> )	0,003833

### 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 (mm)	24 x 50
Shaft material	C45
Specification NDE	Plastic fan

### Additional option

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

Dimension drawings  
Three-Phase-Asynchronous-  
Motor E3-ASA 90 SB 4  
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**ac motoren**