

## THREE-PHASE-ASYNCHRONOUS-MOTOR E3-ASA 100 LA 2

IE3UM10L2104

### General data

Type of motor	3~ explosion proof
Type designation	E3-ASA
Frame size	100
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)	47
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)	3
Power 1 60Hz (kW)	3.45
Frequency (Hz)	50/60
Voltage 50Hz (V)	400/690
Voltage 60Hz (V)	460/-
Voltage/Frequency tolerance (not valid for range voltage)	+/-5%
Connection	Δ/Y
Poles	2
Efficiency 100% 50Hz (%)	87,1
Efficiency 75% 50Hz (%)	88,4
Efficiency 50% 50Hz (%)	85,1
Efficiency 100% 60Hz (%)	88,5
Efficiency 75% 60Hz (%)	88,4
Efficiency 50% 60Hz (%)	85,1
Power factor	0,92
Starting current factor	8,0
Starting torque factor	2,7
Tilting moment factor	2,8
Rated current 50Hz (A)	5,35/3,10
Rated current 60Hz (A)	5,35
Eff.Cl.50Hz	IE3

### Electrical specification

Eff.Cl.60Hz	IE3
-------------	-----

### Mechanical data

Torque (Nm)	9,87/9,38
Rotation speed (1/min)	2900/3480
Bearing DE	
Bearing NDE	
Mounting of bearing DE	fixed bearing
Mounting of bearing NDE	loose bearing
Bearing lifetime	20000
allow. Radial load (X/2)	887
allow. Radial load (X0)	1000
allow. Radial load (Xmax)	775
allow. Axial load B3,B5,B35,B14,B34	700
allow. Axial load V1,V3,V19,V18	655
Moment of inertia	0,0069

### 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	28 x 60
Shaft material	C45
Specification NDE	Plastic fan
Flange	160

### Additional option

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

Dimension drawings  
Three-Phase-Asynchronous-  
Motor E3-ASA 100 LA 2  
IE3UM10L2104

**ac motoren**