

## THREE-PHASE-ASYNCHRONOUS-MOTOR E3-ASA 180 L 4

IE3UM18L4200

### General data

Type of motor	3~ explosion proof
Type designation	E3-ASA
Frame size	180
Mounting	B3
Frame execution	L
Frame material	Grauguß
Insulationclass	F/F
Terminal box location	top DE
Terminal box orientation	cable gland to the right side
Weight (kg)	265
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)	22
Power 1 60Hz (kW)	25.3
Frequency (Hz)	50/60
Voltage 50Hz (V)	400/690
Voltage 60Hz (V)	460/-
Voltage tolerance	+/-5%
Connection	$\Delta/Y$
Poles	4
Efficiency 100% 50Hz (%)	93,2
Efficiency 75% 50Hz (%)	93,1
Efficiency 50% 50Hz (%)	91,4
Efficiency 100% 60Hz (%)	93,6
Efficiency 75% 60Hz (%)	93,1
Efficiency 50% 60Hz (%)	91,4
Power factor	0,86
Starting current factor (Ia/In)	7,8
Starting torque factor (Ma/Mn)	2,3
Breakdown torque (Mk/Mn)	2,8
Rated current 50Hz (A)	39,62/22,97
Rated current 60Hz (A)	39,45
Eff.Cl.50Hz	IE3
Eff.Cl.60Hz	IE3

### Mechanical data

Torque (Nm)	142,93/171,52
Rotation speed (1/min)	1470/1764
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)	4862
allow. Radial load (X0)	5375
allow. Radial load (Xmax)	4350
allow. Axial load	4525
allow. Axial load (V1)	4425
Moment of inertia (kgm <sup>2</sup> )	0,166755

### Motor properties

Color	RAL7030
Paint surface	matt
Protection class	IP55
Cable gland size (cable connection)	2xM40x1,5
Cable gland size (option)	M20x1,5
Cable gland type	Atex
Shaft end (mm)	48 x 110
Shaft material	C45
Specification NDE	Metal fan

### Additional option

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

Dimension drawings  
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**ac motoren**