

THREE-PHASE-ASYNCHRONOUS-MOTOR E3-ASA 160 MA 2

IE3UM16M2100

General data

Type of motor	3~ explosion proof
Type designation	E3-ASA
Frame size	160
Mounting	B3
Frame execution	MA
Frame material	Grauguß
Insulationclass	F/F
Terminal box location	top DE
Terminal box orientation	cable gland to the right side
Weight (kg)	153
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)	11
Power 1 60Hz (kW)	12.65
Frequency (Hz)	50/60
Voltage 50Hz (V)	400/690
Voltage 60Hz (V)	460/-
Voltage tolerance	+/-5%
Connection	Δ/Y
Poles	2
Efficiency 100% 50Hz (%)	91,9
Efficiency 75% 50Hz (%)	91,5
Efficiency 50% 50Hz (%)	90,7
Efficiency 100% 60Hz (%)	91,0
Efficiency 75% 60Hz (%)	91,5
Efficiency 50% 60Hz (%)	90,7
Power factor	0,95
Starting current factor (Ia/In)	7,5
Starting torque factor (Ma/Mn)	2,6
Breakdown torque (Mk/Mn)	3,1
Rated current 50Hz (A)	18,19/10,54
Rated current 60Hz (A)	18,37
Eff.Cl.50Hz	IE3
Eff.Cl.60Hz	IE3

Mechanical data

Torque (Nm)	35,84/43,01
Rotation speed (1/min)	2931/3517
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)	2300
allow. Radial load (X0)	2600
allow. Radial load (Xmax)	2000
allow. Axial load	2150
allow. Axial load (V1)	2070
Moment of inertia (kgm ²)	0,032672

Motor properties

Color	RAL7030
Paint surface	matt
Protection class	IP55
Cable gland size (cable connection)	M40x1,5
Cable gland size (option)	M20x1,5
Cable gland type	Atex
Shaft end (mm)	42 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
Three-Phase-Asynchronous-
Motor E3-ASA 160 MA 2
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