

THREE-PHASE-ASYNCHRONOUS-MOTOR E3-ASA 80 A 2

IE3UM08A2100

General data

Type of motor	3~ explosion proof
Type designation	E3-ASA
Frame size	80
Mounting	B3
Frame material	Grauguß
Insulationclass	F/F
Terminal box location	top DE
Terminal box orientation	cable gland to the right side
Weight (kg)	24
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)	0.75
Power 1 60Hz (kW)	0.86
Frequency (Hz)	50/60
Voltage 50Hz (V)	230/400
Voltage 60Hz (V)	-/460
Voltage tolerance	+/-5%
Connection	Δ/Y
Poles	2
Efficiency 100% 50Hz (%)	80,7
Efficiency 75% 50Hz (%)	79,9
Efficiency 50% 50Hz (%)	76,5
Efficiency 100% 60Hz (%)	77,0
Efficiency 75% 60Hz (%)	79,9
Efficiency 50% 60Hz (%)	76,5
Power factor	0,90
Starting current factor (Ia/In)	6,1
Starting torque factor (Ma/Mn)	2,0
Breakdown torque (Mk/Mn)	2,2
Rated current 50Hz (A)	2,80/1,60
Rated current 60Hz (A)	1,60
Eff.Cl.50Hz	IE3
Eff.Cl.60Hz	IE3

Mechanical data

Torque (Nm)	2,55/3,06
Rotation speed (1/min)	2805/3366
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)	562
allow. Radial load (X0)	625
allow. Radial load (Xmax)	500
allow. Axial load	475
allow. Axial load (V1)	445
Moment of inertia (kgm ²)	0,001251

Motor properties

Color	RAL7030
Paint surface	matt
Protection class	IP55
Cable gland size (cable connection)	M20x1,5
Cable gland size (option)	M20x1,5
Cable gland type	Atex
Shaft end (mm)	19 x 40
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 80 A 2
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