THREE-PHASE-ASYNCHRONOUS-MOTOR AOA 160 L 4 /PHE

IE3OG16L4005

General data

Type of motor	3~
Type designation	AOA
Frame size	160
Mounting	B3
Frame execution	L
Frame material	Aluminium
Insulationclass	F/B
Terminal box location	top DE
Terminal box orientation	cable gland to the right side
Weight (kg)	111
Rotation Direction	right /left
Vibration level	A
Balancing method	half key
cooling type	IC411
Executed acc. to	IEC 60034-1
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)	15
Power 1 60Hz (kW)	15
Frequency (Hz)	50/60
Voltage 50Hz (V)	400/690
Voltage 60Hz (V)	460/-
Voltage/Frequency tolerance (not valid for range voltage)	+/-10%
Connection	Δ/Y
Poles	4
Efficiency 100% 50Hz (%)	92,1
Efficiency 75% 50Hz (%)	92,7
Efficiency 50% 50Hz (%)	92,4
Efficiency 100% 60Hz (%)	93
Efficiency 75% 60Hz (%)	93,6
Efficiency 50% 60Hz (%)	93,3
Power factor	0,80
Starting current factor	6,5
Starting torque factor	2,6
Tilting moment factor	2,8
Rated current 50Hz (A)	29,40/17,00
Rated current 60Hz (A)	25,30/0,00
Eff.Cl.50Hz	IE3

Electrical specification

Eff.Cl.60Hz	IE3

Mechanical data

Torque (Nm)	97,70/81,17
Rotation speed (1/min)	1470/1765
Bearing DE	6309.ZZ.C3
Bearing NDE	6209.ZZ.C3
Mounting of bearing DE	loose bearing
Mounting of bearing NDE	fixed bearing
Bearing lifetime	20000
allow. Radial load (X0)	3750
allow. Radial load (Xmax)	3000
Moment of inertia	0,0986

Motor properties

Color	RAL7030
Paint surface	shiny
Protection class	IP55
Cable gland size (cable connection)	2xM40x1,5
Cable gland size (option)	M20x1,5
Cable gland type	Standard
Shaft end	42 x 110
Shaft material	C45
Specification NDE	Plastic fan

Additional option

Protection winding	PTC 150°C
Condensate draining hole	✓
Condensate draining hole sealing screw	✓