

THREE-PHASE-ASYNCHRONOUS-MOTOR AOA 180 M 4 /SPE

IE4OG18M4004

General data

Type of motor	3~
Type designation	AOA
Frame size	180
Mounting	B3
Frame execution	M
Frame material	Aluminium
Insulationclass	F/B
Terminal box location	top DE
Terminal box orientation	cable gland to the right side
Weight (kg)	167
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)	18.5
Power 1 60Hz (kW)	18.5
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 (%)	92,6
Efficiency 75% 50Hz (%)	93,5
Efficiency 50% 50Hz (%)	93,6
Efficiency 100% 60Hz (%)	93,6
Efficiency 75% 60Hz (%)	94,5
Efficiency 50% 60Hz (%)	94,6
Power factor	0,80
Starting current factor	8,0
Starting torque factor	3,3
Tilting moment factor	3,7
Rated current 50Hz (A)	36,00/20,90
Rated current 60Hz (A)	31,00/0,00
Eff.Cl.50Hz	IE3

Electrical specification

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

Mechanical data

Torque (Nm)	120,00/99,83
Rotation speed (1/min)	1475/1770
Bearing DE	6310.ZZ.C3
Bearing NDE	6210.ZZ.C3
Mounting of bearing DE	loose bearing
Mounting of bearing NDE	fixed bearing
Bearing lifetime	20000
allow. Radial load (X0)	4370
allow. Radial load (Xmax)	3540
Moment of inertia	0,204

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	48 x 110
Shaft material	C45
Specification NDE	Plastic fan

Additional option

Protection winding	PTC 150°C
--------------------	-----------

Dimension drawings

Three-Phase-Asynchronous-

Motor AOA 180 M 4 /SPE

IE40G18M4004



Die Zeichnung dient lediglich als Skizze um Maße darzustellen. Das gelieferte Produkt kann von dieser Skizze abweichen. Die detaillierte Beschreibung des Produkts befindet sich im Datenabschnitt (Seite 1).
The drawing serves only as a sketch to show dimensions. The delivered product may differ from this sketch. The detailed description of the product can be found in the Data section (page 1).

