

THREE-PHASE-ASYNCHRONOUS-MOTOR FCPA 71 B 4 /HE

IE2AC07B4005

General data

Type of motor	3~
Type designation	FCPA
Frame size	71
Mounting	B35
Frame material	Aluminium
Insulationclass	F/B
Terminal box location	top DE
Terminal box orientation	cable gland to the right side
Weight (kg)	5.5
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)	0.37
Power 1 60Hz (kW)	0.37
Frequency (Hz)	50/60
Voltage 50Hz (V)	230/400
Voltage 60Hz (V)	265/460
Voltage tolerance	+/-10%
Connection	Δ/Y
Poles	4
Efficiency 100% 50Hz (%)	72,7
Efficiency 75% 50Hz (%)	72,7
Efficiency 50% 50Hz (%)	71,2
Efficiency 100% 60Hz (%)	72
Power factor	0,75
Starting current factor (Ia/In)	5,2
Starting torque factor (Ma/Mn)	2,1
Breakdown torque (Mk/Mn)	2,2
Rated current 50Hz (A)	1,70/0,98
Rated current 60Hz (A)	1,50/0,87
Eff.Cl.50Hz	IE2
Eff.Cl.60Hz	IE2

Mechanical data

Torque (Nm)	2,65/2,21
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Mechanical data

Rotation speed (1/min)	1335/1602
Bearing DE	6202.ZZ.C3
Bearing NDE	6202.ZZ.C3
Mounting of bearing DE	loose bearing
Mounting of bearing NDE	loose bearing
Bearing lifetime (h)	20000
allow. Radial load (X/2)	412,5
allow. Radial load (X0)	450
allow. Radial load (Xmax)	375
allow. Axial load	400
allow. Axial load (V1)	380
Moment of inertia (kgm ²)	0,00075

Motor properties

Color	RAL7030
Paint surface	shiny
Protection class	IP55
Cable gland size (cable connection)	1xM20x1,5 1xblind plug
Cable gland type	Standard
Shaft end (mm)	14 x 30
Shaft material	C45
Specification NDE	Plastic fan
Flange	160

