

## THREE-PHASE-ASYNCHRONOUS-MOTOR FCPA 90 L 2 /PHE

IE3AC09L2011N

### General data

Type of motor	3~
Type designation	FCPA
Frame size	90
Mounting	B34a
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)	17
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)	2.2
Power 1 60Hz (kW)	2.2
Frequency (Hz)	50/60
Voltage 50Hz (V)	230/400
Voltage 60Hz (V)	265/460
Voltage tolerance	+/-10%
Connection	Δ/Y
Poles	2
Efficiency 100% 50Hz (%)	85,9
Efficiency 75% 50Hz (%)	85,9
Efficiency 50% 50Hz (%)	84,2
Efficiency 100% 60Hz (%)	86,5
Efficiency 75% 60Hz (%)	86,5
Efficiency 50% 60Hz (%)	84,8
Power factor	0,85
Starting current factor (Ia/In)	7,8
Starting torque factor (Ma/Mn)	2,3
Breakdown torque (Mk/Mn)	2,3
Rated current 50Hz (A)	7,56/4,35
Rated current 60Hz (A)	6,53/3,79
Eff.Cl.50Hz	IE3
Eff.Cl.60Hz	IE3

### Mechanical data

Torque (Nm)	7,26/6,05
Rotation speed (1/min)	2895/3474
Bearing DE	6205.ZZ.C3
Bearing NDE	6205.ZZ.C3
Mounting of bearing DE	loose bearing
Mounting of bearing NDE	loose bearing
Bearing lifetime (h)	20000
allow. Radial load (X/2)	625
allow. Radial load (X0)	700
allow. Radial load (Xmax)	550
allow. Axial load	500
allow. Axial load (V1)	460
Moment of inertia (kgm <sup>2</sup> )	0,0018

### Motor properties

Color	RAL7030
Paint surface	shiny
Protection class	IP55
Cable gland size (cable connection)	1xM25x1,5 1xblind plug
Cable gland type	Standard
Shaft end (mm)	24 x 50
Shaft material	C45
Specification NDE	Plastic fan
Flange	140

### Additional operating points

Voltage operating point 2	265/460
Power operating point 2 (kW)	2.64
Connection operating point 2	Δ/Y
Frequency operating point 2	60
Efficiency class operating point 2	IE2

