

THREE-PHASE-ASYNCHRONOUS-MOTOR FCPA 100 LC 4 /PHE

IE3AC10LC403

General data

Type of motor	3~ progressiv
Type designation	FCPA
Frame size	100
Mounting	B35
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)	31.3
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)	4
Power 1 60Hz (kW)	4
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 (%)	88,6
Efficiency 75% 50Hz (%)	88,6
Efficiency 50% 50Hz (%)	86,8
Efficiency 100% 60Hz (%)	89,5
Power factor	0,8
Starting current factor (I_a/I_n)	7,6
Starting torque factor (M_a/M_n)	2,3
Breakdown torque (M_k/M_n)	2,3
Rated current 50Hz (A)	14,17/8,15
Rated current 60Hz (A)	12,20/7,07
Eff.Cl.50Hz	IE3
Eff.Cl.60Hz	IE3

Mechanical data

Torque (Nm)	26,62/22,19
Rotation speed (1/min)	1435/1722
Bearing DE	6206.ZZ.C3
Bearing NDE	6206.ZZ.C3
Mounting of bearing DE	loose bearing
Mounting of bearing NDE	loose bearing
Bearing lifetime (h)	20000
allow. Radial load (X/2)	1125
allow. Radial load (X0)	1250
allow. Radial load (Xmax)	1000
allow. Axial load	950
allow. Axial load (V1)	905
Moment of inertia (kgm ²)	0,0095

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)	28 x 60
Shaft material	C45
Specification NDE	Plastic fan
Flange	250

Additional operating points

Voltage operating point 2	265/460
Power operating point 2 (kW)	4.8
Connection operating point 2	Δ/Y
Frequency operating point 2	60
Efficiency class operating point 2	IE2

