

THREE-PHASE-ASYNCHRONOUS-MOTOR FCPA 100 L 2 /PHE

IE3AC10LA210N

General data

Type of motor	3~
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)	23.2
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)	3
Power 1 60Hz (kW)	3
Frequency (Hz)	50/60
Voltage 50Hz (V)	400/690
Voltage 60Hz (V)	460/795
Voltage tolerance	+/-10%
Connection	Δ/Y
Poles	2
Efficiency 100% 50Hz (%)	87,1
Efficiency 75% 50Hz (%)	87,1
Efficiency 50% 50Hz (%)	85,4
Efficiency 100% 60Hz (%)	88,5
Efficiency 75% 60Hz (%)	88,5
Efficiency 50% 60Hz (%)	86,7
Power factor	0,87
Starting current factor (Ia/In)	8,1
Starting torque factor (Ma/Mn)	2,3
Breakdown torque (Mk/Mn)	2,3
Rated current 50Hz (A)	5,71/3,31
Rated current 60Hz (A)	4,89/2,84
Eff.Cl.50Hz	IE3
Eff.Cl.60Hz	IE3

Mechanical data

Torque (Nm)	9,90/8,25
Rotation speed (1/min)	2895/3474
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)	887
allow. Radial load (X0)	1000
allow. Radial load (Xmax)	775
allow. Axial load	700
allow. Axial load (V1)	655
Moment of inertia (kgm ²)	0,0033

Motor properties

Color	RAL7030
Paint surface	shiny
Protection class	IP55
Cable gland size (cable connection)	1xM25x1,5 1xblind plug
Cable gland size (option)	M16x1,5
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	460/795
Power operating point 2 (kW)	3.6
Connection operating point 2	Δ/Y
Frequency operating point 2	60
Efficiency class operating point 2	IE2

Additional option

Protection winding	PTC 150°C
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