

THREE-PHASE-ASYNCHRONOUS-MOTOR FCPA 112 MD 6 /PHE

IE3AC11MD602

General data

Type of motor	3~ progressiv
Type designation	FCPA
Frame size	112
Mounting	B35
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)	54.1
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)	400/690
Voltage 60Hz (V)	460/795
Voltage tolerance	+/-10%
Connection	Δ/Y
Poles	6
Efficiency 100% 50Hz (%)	86,8
Efficiency 75% 50Hz (%)	86,8
Efficiency 50% 50Hz (%)	85,1
Efficiency 100% 60Hz (%)	91,0
Power factor	0,71
Starting current factor (I_a/I_n)	6,8
Starting torque factor (M_a/M_n)	2
Breakdown torque (M_k/M_n)	2,1
Rated current 50Hz (A)	9,37/5,43
Rated current 60Hz (A)	7,71/4,47
Eff.Cl.50Hz	IE3
Eff.Cl.60Hz	IE3

Mechanical data

Torque (Nm)	39,59/32,99
Rotation speed (1/min)	965/1158
Bearing DE	6306.ZZ.C3
Bearing NDE	6306.ZZ.C3
Mounting of bearing DE	loose bearing
Mounting of bearing NDE	loose bearing
Bearing lifetime (h)	20000
allow. Radial load (X/2)	1262
allow. Radial load (X0)	1400
allow. Radial load (Xmax)	1125
allow. Axial load	1125
allow. Axial load (V1)	1080
Moment of inertia (kgm^2)	0,025

Motor properties

Color	RAL7030
Paint surface	shiny
Protection class	IP55
Cable gland size (cable connection)	1xM32x1,5 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	460/795
Power operating point 2 (kW)	4.8
Connection operating point 2	Δ/Y
Frequency operating point 2	60
Efficiency class operating point 2	IE2

