

## THREE-PHASE-ASYNCHRONOUS-MOTOR ACA 80 A 4 /HE

IE2AC08A4002

### General data

Type of motor	3~
Type designation	ACA
Frame size	80
Mounting	B3
Frame material	Aluminium
Insulationclass	F/B
Terminal box location	top DE
Terminal box orientation	cable gland to the right side
Weight (kg)	9
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)	0.55
Power 1 60Hz (kW)	0.55
Frequency (Hz)	50/60
Voltage 50Hz (V)	230/400
Voltage 60Hz (V)	265/460
Voltage/Frequency tolerance (not valid for range voltage)	+/-10%
Connection	$\Delta/Y$
Poles	4
Efficiency 100% 50Hz (%)	77,1
Efficiency 75% 50Hz (%)	77,1
Efficiency 50% 50Hz (%)	75,6
Efficiency 100% 60Hz (%)	75,5
Power factor	0,75
Starting current factor	5,2
Starting torque factor	2,3
Tilting moment factor	2,3
Rated current 50Hz (A)	2,39/1,37
Rated current 60Hz (A)	2,12/1,23
Eff.Cl.50Hz	IE2
Eff.Cl.60Hz	IE2

### Mechanical data

Torque (Nm)	3,75/3,13
Rotation speed (1/min)	1400/1680
Bearing DE	6204.ZZ.C3
Bearing NDE	6204.ZZ.C3
Mounting of bearing DE	loose bearing
Mounting of bearing NDE	loose bearing
Bearing lifetime	20000
allow. Radial load (X/2)	700
allow. Radial load (X0)	775
allow. Radial load (Xmax)	625
allow. Axial load B3,B5,B35,B14,B34	625
allow. Axial load V1,V3,V19,V18	595
Moment of inertia	0,0019

### Motor properties

Color	RAL7030
Paint surface	shiny
Protection class	IP55
Cable gland size (cable connection)	1xM20x1,5 1xblind plug
Cable gland size (option)	M16x1,5
Cable gland type	Standard
Shaft end	19 x 40
Shaft material	C45
Specification NDE	Plastic fan

### Additional option

Protection winding	PTC 150°C
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