

## THREE-PHASE-ASYNCHRONOUS-MOTOR ASA 80 D 4 /PHE

IE3UM08B4204

### General data

Type of motor	3~ explosion proof
Type designation	ASA
Frame size	80
Mounting	B3
Frame material	Grauguß
Insulationclass	F
Terminal box location	top DE
Terminal box orientation	cable gland to the right side
Weight (kg)	27
Rotation Direction	right /left
Vibration level	A
Balancing method	half key
cooling type	IC411
Executed acc. to noise level	IEC 60034 -1, EN 60079-0/-1 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)	0.75
Power 1 60Hz (kW)	0.86
Frequency (Hz)	50/60
Voltage 50Hz (V)	230/400
Voltage 60Hz (V)	-/460
Voltage/Frequency tolerance (not valid for range voltage)	+/-5%
Connection	$\Delta/Y$
Poles	4
Efficiency 100% 50Hz (%)	82,5
Efficiency 75% 50Hz (%)	81,2
Efficiency 50% 50Hz (%)	78,2
Efficiency 100% 60Hz (%)	83,5
Efficiency 75% 60Hz (%)	81,2
Efficiency 50% 60Hz (%)	78,2
Power factor	0,77
Starting current factor	5,6
Starting torque factor	2,5
Tilting moment factor	2,5
Rated current 50Hz (A)	2,96/1,70
Rated current 60Hz (A)	1,68
Eff.Cl.50Hz	IE3
Eff.Cl.60Hz	IE3

### Mechanical data

Torque (Nm)	5,00/6,00
Rotation speed (1/min)	1433/1720
Bearing DE	
Bearing NDE	
Mounting of bearing DE	fixed 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	0,002229

### Motor properties

Color	RAL7030
Paint surface	matt
Protection class	IP55
Cable gland size (cable connection)	M20x1,5
Cable gland size (option)	M20x1,5
Cable gland type	Atex
Shaft end	19 x 40
Shaft material	C45
Specification NDE	Plastic fan

### Additional option

Protection winding	PTC 130°C
Atex	II 2G Ex db eb IIC T4 Gb