

Datasheet 3SIEL 80-4B2 B3/B14A

General data

Article no.:	1108B004225IE3B
3-phase motor type:	3SIEL 80-4B2
Output:	0,75 kW
Manufacturer:	Cantoni Motor
Frame size:	80
Number of poles:	4
Efficiency class:	IE3 Premium Efficiency
Flange/feet:	Feet and B14A flange
Mounting:	B34 (IM 2101) or derivatives
Isolation class:	F (155°C) temperature rise-class B (max. 80K)
Duty type:	S1 (continuous)
Ambient temperature:	-20 to +40°C
Altitude:	≤ 1000 m.a.s.l.
Service factor:	1
Cooling method:	IC411 (TEFC)
Protection:	IP55
Tropicalisation:	No
Motor weight:	11 kg

Electrical data (calculated values)

Rated Voltage (U_N):	230	400	V
Rated frequency (F_N):	50	50	Hz
Connection:	Δ	Y	
Rated output:	0,75	0,75	kW
Rated speed:	1430	1430	rpm
Efficiency:	82,5	82,5	%
Power factor:	0,64	0,64	
Rated current:	3,6	2,1	A
Starting current:	20,5	12,0	A
Factor starting current:	5,7	5,7	
Nominal torque:	5,0	5,0	Nm
Starting torque:	19,0	19,0	Nm
Factor starting torque:	3,8	3,8	
Breakdown torque:	19,0	19,0	Nm
Factor breakdown torque:	3,8	3,8	

Load characteristics

Load:	0	25	50	75	100	125	%
Efficiency at 50Hz:			81,5	82,0	82,5		%
Efficiency at 60Hz:							%

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Mechanical data

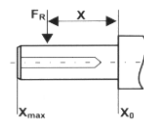
Moment of inertia (J):	0,00265 kgm ²	Painting:	RAL 5010 (Gentian Blue)
Sound pressure @50Hz:		Frame material:	Aluminium
Bearing DE:	6204 2Z C3	Shields material:	Aluminium
Bearing NDE:	6204 2Z C3	Feet material:	Aluminium (screwed)
Bearing system:	Service life lubrication	Terminal box position:	Top
Bearing fixation:	Drive-End	Cable glands size:	M20 (1x)
Balancing vibration class:	A (half-key)	Cable glands direction:	To right
Direction of rotation:	CW or CCW		

Shaft

Shaft dimensions:	Ø19 x 40 mm
Key dimensions:	6 x 6 x 32 mm
Thread of center hole:	M6

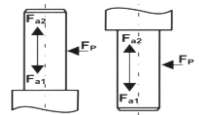
Horizontal operation:

$F_R (X=0)$	0,44 kN
$F_R (X=\max)$	0,37 kN



Vertical operation:

F_p	0,12 kN
F_{a1}	0,09 kN
F_{a2}	0,15 kN



Standards

Rating and performance:	IEC 60034-1
Methods for determining losses and efficiency:	IEC 60034-2-1
Classification of degrees of protection:	IEC 60034-5
Methods of cooling:	IEC 60034-6
Symbols of construction and mounting arrangements:	IEC 60034-7
Terminal markings and direction of rotation:	IEC 60034-8
Noise limits:	IEC 60034-9
Dimensions and output of electric machines:	IEC 60072-1
Vibration limits:	IEC 60034-14

Special remarks

Inclusive PTC 140°C