

Datasheet 2SIEK 80-4B1 B14B

General data

Article no.:	1108B004825IE2
3-Phase motor type:	2SIEK 80-4B1 B14B
Output:	0,75 kW
Manufacturer:	Cantoni Motor
Frame size:	80
Number of poles:	4
Efficiency class:	IE2 High Efficiency
Flange/feet:	B14B flange
Mounting:	B14 (IM 3601) or derivatives
Isolation class:	F (155°C) temperature rise-class B (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:	9,6 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:	1400	1400	rpm
Efficiency:	80,0	80,0	%
Power factor:	0,65	0,65	
Rated current:	3,7	2,2	A
Starting current:	15,5	9,2	A
Factor starting current:	4,2	4,2	
Nominal torque:	5,12	5,12	Nm
Starting torque:	15,9	15,9	Nm
Factor starting torque:	3,1	3,1	
Breakdown torque:	16,4	16,4	Nm
Factor breakdown torque:	3,2	3,2	

Load characteristics

Load:	0	25	50	75	100	125	%
Efficiency at 50Hz:			70,0	77,0	80,0		%
Efficiency at 60Hz:					80,2		%

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Mechanical data

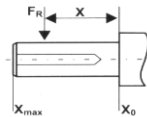
Moment of inertia:	0,00209 kgm ²	Painting:	RAL 5010 (Gentian Blue)
Sound pressure level:	According IEC 60034-9	Frame material:	Aluminium
Bearing DE:	6204 2Z	Shields material:	Aluminium
Bearing NDE:	6204 2Z	Feet material:	
Bearing system:	Service life lubrication	Terminal box position:	
Bearing fixation:	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:	32 x 6 x 6 mm
Thread of center hole:	M6

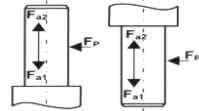
Horizontal operation:

$F_R (X=0)$	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

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