

Datasheet 2SIE 100L2 B3

General data	
Article no.:	1310L002025IE2B
3-Phase motor type:	2SIE 100L2 B3
Output:	3 kW
Manufacturer:	Cantoni Motor
Frame size:	100
Number of poles:	2
Efficiency class:	IE2 High Efficiency
Flange/feet:	Feet
Mounting:	B3 (IM 1001) 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:	26,7 kg

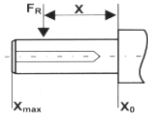
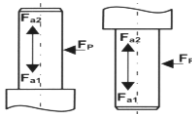
Electrical data (calculated values)			
Rated Voltage (U_N):	230	400	V
Rated frequency (F_N):	50	50	Hz
Connection:	Δ	Y	
Rated output:	3	3	kW
Rated speed:	2915	2915	rpm
Efficiency:	84,6	84,6	%
Power factor:	0,83	0,83	
Rated current:	10,7	6,2	A
Starting current:	88,8	51,5	A
Factor starting current:	8,3	8,3	
Nominal torque:	9,80	9,80	Nm
Starting torque:	30,4	30,4	Nm
Factor starting torque:	3,1	3,1	
Breakdown torque:	32,3	32,3	Nm
Factor breakdown torque:	3,3	3,3	

Load characteristics							
Load:	0	25	50	75	100	125	%
Efficiency at 50Hz:			82,8	84,7	84,6		%
Efficiency at 60Hz:			83,3	85,5	85,5		%

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Mechanical data				
Moment of inertia:	0,0039	kgm ²	Painting:	RAL 5010 (Gentian Blue)
Sound pressure level:	61	dB(A)	Frame material:	Aluminium
Bearing DE:	6206 2Z C3 C3		Shields material:	Cast Iron
Bearing NDE:	6206 2Z C3 C3		Feet material:	Aluminium - Screwed
Bearing system:	Service life lubrication		Terminal box position:	Top
Bearing fixation:	Drive-End		Cable glands size:	M20 (1x), M25 (1x)
Balancing vibration class:	A (half-key)		Cable glands direction:	To right
Direction of rotation:	CW or CCW			

Shaft			
Shaft dimensions:	Ø28 x 60 mm		
Key dimensions:	50 x 8 x 7 mm		
Thread of center hole:	M10		
Horizontal operation:		Vertical operation:	
$F_R (X=0)$	0,88 kN	F_p	0,9 kN
$F_R (X=max)$	0,46 kN	F_{a1}	0,28 kN
		F_{a2}	0,4 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

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