

Datasheet 2SIEK 160L4 B5

General data	
Article no.:	1316L004435IE2
3-Phase motor type:	2SIEK 160L4 B5
Output:	15 kW
Manufacturer:	Cantoni Motor
Frame size:	160
Number of poles:	4
Efficiency class:	IE2 High Efficiency
Flange/feet:	B5 flange
Mounting:	B5 (IM 3001) 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:	126 kg

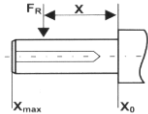
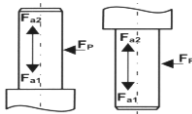
Electrical data (calculated values)			
Rated Voltage (U_N):	400	690	V
Rated frequency (F_N):	50	50	Hz
Connection:	Δ	Y	
Rated output:	15	15	kW
Rated speed:	1470	1470	rpm
Efficiency:	90,6	90,6	%
Power factor:	0,81	0,81	
Rated current:	29,5	17,0	A
Starting current:	215,4	124,3	A
Factor starting current:	7,3	7,3	
Nominal torque:	97,40	97,40	Nm
Starting torque:	204,5	204,5	Nm
Factor starting torque:	2,1	2,1	
Breakdown torque:	292,2	292,2	Nm
Factor breakdown torque:	3,0	3,0	

Load characteristics							
Load:	0	25	50	75	100	125	%
Efficiency at 50Hz:			90,7	91,3	90,6		%
Efficiency at 60Hz:			91,5	91,8	91		%

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Mechanical data				
Moment of inertia:	0,07	kgm ²	Painting:	RAL 5010 (Gentian Blue)
Sound pressure level:	61	dB(A)	Frame material:	Cast Iron
Bearing DE:	6309 2Z C3 C3		Shields material:	Cast Iron
Bearing NDE:	6309 2Z C3 C3		Feet material:	
Bearing system:	Service life lubrication		Terminal box position:	
Bearing fixation:	Drive-End		Cable glands size:	M40 (2x)
Balancing vibration class:	A (half-key)		Cable glands direction:	To right
Direction of rotation:	CW or CCW			

Shaft			
Shaft dimensions:	Ø42 x 110 mm		
Key dimensions:	100 x 12 x 8 mm		
Thread of center hole:	M16		
Horizontal operation:		Vertical operation:	
$F_R (X=0)$	2,4 kN	F_p	2,4 kN
$F_R (X=max)$	0,98 kN	F_{a1}	0,92 kN
		F_{a2}	0,95 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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