

Datasheet 2SIE 160L6 B3

General data

Article no.:	1316L006035IE2B
3-Phase motor type:	2SIE 160L6 B3
Output:	11 kW
Manufacturer:	Cantoni Motor
Frame size:	160
Number of poles:	6
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:	125 kg

Electrical data (calculated values)

Rated Voltage (U_N):	400	690	V
Rated frequency (F_N):	50	50	Hz
Connection:	Δ	Y	
Rated output:	11	11	kW
Rated speed:	960	960	rpm
Efficiency:	88,7	88,7	%
Power factor:	0,82	0,82	
Rated current:	21,8	12,6	A
Starting current:	152,6	88,1	A
Factor starting current:	7,0	7,0	
Nominal torque:	109,40	109,40	Nm
Starting torque:	273,5	273,5	Nm
Factor starting torque:	2,5	2,5	
Breakdown torque:	339,1	339,1	Nm
Factor breakdown torque:	3,1	3,1	

Load characteristics

Load:	0	25	50	75	100	125	%
Efficiency at 50Hz:			89,3	89,6	88,7		%
Efficiency at 60Hz:			90,4	89,9	88,3		%

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Mechanical data

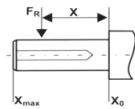
Moment of inertia:	0,096 kgm ²	Painting:	RAL 5010 (Gentian Blue)
Sound pressure level:	60 dB(A)	Frame material:	Cast Iron
Bearing DE:	6309 2Z C3	Shields material:	Cast Iron
Bearing NDE:	6309 2Z C3	Feet material:	Cast iron - integrated
Bearing system:	Service life lubrication	Terminal box position:	Top
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

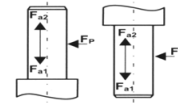
Horizontal operation:

$F_R (X=0)$	2,85 kN
$F_R (X=\max)$	1,1 kN



Vertical operation:

F_p	2,9 kN
F_{a1}	0,98 kN
F_{a2}	1 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