

Datasheet SKh 90L-8 B5

General data

Article no.:	1309L008425H0
3-Phase motor type:	SKh 90L-8 B5
Output:	0,55 kW
Manufacturer:	Cantoni Motor
Frame size:	90
Number of poles:	8
Efficiency class:	IE1 Standard 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:	15,3 kg

Electrical data (calculated values)

Rated Voltage (U_N):	230	400	V
Rated frequency (F_N):	50	50	Hz
Connection:	Δ	Y	
Rated output:	0,55	0,55	kW
Rated speed:	675	675	rpm
Efficiency:	65,0	65,0	%
Power factor:	0,64	0,64	
Rated current:	3,3	1,9	A
Starting current:	9,2	5,3	A
Factor starting current:	2,8	2,8	
Nominal torque:	7,78	7,78	Nm
Starting torque:	13,2	13,2	Nm
Factor starting torque:	1,7	1,7	
Breakdown torque:	14,8	14,8	Nm
Factor breakdown torque:	1,9	1,9	

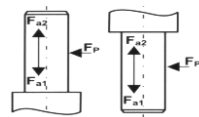
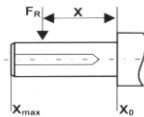
Load characteristics

Load:	0	25	50	75	100	125	%
Efficiency at 50Hz:			60,4	65,3	65,0		%
Efficiency at 60Hz:							%

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Mechanical data				
Moment of inertia:	0,0024	kgm ²	Painting:	RAL 5010 (Gentian Blue)
Sound pressure level:	52	dB(A)	Frame material:	Aluminium
Bearing DE:	6205	2Z	Shields material:	Cast Iron
Bearing NDE:	6205	2Z	Feet material:	
Bearing system:	Service life lubrication		Terminal box position:	
Bearing fixation:	Drive-End		Cable glands size:	M20 (1x), blindstop M25 (1x)
Balancing vibration class:	A (half-key)		Cable glands direction:	To right
Direction of rotation:	CW or CCW			

Shaft			
Shaft dimensions:	Ø24 x 50 mm		
Key dimensions:	40 x 8 x 7 mm		
Thread of center hole:	M8		
Horizontal operation:		Vertical operation:	
$F_R (X=0)$	0,82 kN	F_p	0,8 kN
$F_R (X=max)$	0,74 kN	F_{a1}	0,3 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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