

Datasheet 2SIEK 90S4 B5

General data	
Article no.:	1309S004425IE2
3-Phase motor type:	2SIEK 90S4 B5
Output:	1,1 kW
Manufacturer:	Cantoni Motor
Frame size:	90
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:	16,3 kg

Electrical data (calculated values)			
Rated Voltage (U_N):	230	400	V
Rated frequency (F_N):	50	50	Hz
Connection:	Δ	Y	
Rated output:	1,1	1,1	kW
Rated speed:	1425	1425	rpm
Efficiency:	81,4	81,4	%
Power factor:	0,76	0,76	
Rated current:	4,5	2,6	A
Starting current:	27,5	15,9	A
Factor starting current:	6,1	6,1	
Nominal torque:	7,40	7,40	Nm
Starting torque:	20,0	20,0	Nm
Factor starting torque:	2,7	2,7	
Breakdown torque:	23,7	23,7	Nm
Factor breakdown torque:	3,2	3,2	

Load characteristics							
Load:	0	25	50	75	100	125	%
Efficiency at 50Hz:			79,1	81,3	81,4		%
Efficiency at 60Hz:			82,8	84,6	84		%

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Mechanical data

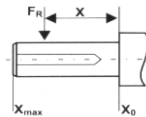
Moment of inertia:	0,0031 kgm ²	Painting:	RAL 5010 (Gentian Blue)
Sound pressure level:	54 dB(A)	Frame material:	Aluminium
Bearing DE:	6205 2Z C3	Shields material:	Cast Iron
Bearing NDE:	6205 2Z C3	Feet material:	
Bearing system:	Service life lubrication	Terminal box position:	
Bearing fixation:	Drive-End	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:	Ø24 x 50 mm
Key dimensions:	40 x 8 x 7 mm
Thread of center hole:	M8

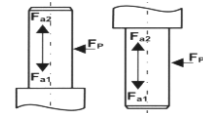
Horizontal operation:

$F_R (X=0)$	0,78 kN
$F_R (X=\max)$	0,44 kN



Vertical operation:

F_p	0,78 kN
F_{a1}	0,35 kN
F_{a2}	0,38 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