

Datasheet 3SIE 250M4 B3

General data

Article no.:	1425M004035IE3B
3-phase motor type:	3SIE 250M4
Output:	55 kW
Manufacturer:	Cantoni Motor
Frame size:	250
Number of poles:	4
Efficiency class:	IE3 Premium Efficiency
Flange/feet:	Feet
Mounting:	B3 (IM 1001) or derivatives
Isolation class:	F (155°C) temperature rise-class B (max. 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:	520 kg

Electrical data (calculated values)

Rated Voltage (U_N):	400	690	V
Rated frequency (F_N):	50	50	Hz
Connection:	Δ	Y	
Rated output:	55,00	55,00	kW
Rated speed:	1487	1487	rpm
Efficiency:	94,7	94,7	%
Power factor:	0,90	0,90	
Rated current:	93,0	54,0	A
Starting current:	706,8	410,4	A
Factor starting current:	7,6	7,6	
Nominal torque:	353,0	353,0	Nm
Starting torque:	882,5	882,5	Nm
Factor starting torque:	2,5	2,5	
Breakdown torque:	1023,7	1023,7	Nm
Factor breakdown torque:	2,9	2,9	

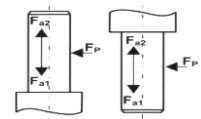
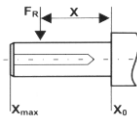
Load characteristics

Load:	0	25	50	75	100	125	%
Efficiency at 50Hz:			94,0	94,8	94,7		%
Efficiency at 60Hz:							%

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Mechanical data			
Moment of inertia (J):	1 kgm ²	Painting:	RAL 5010 (Gentian Blue)
Sound pressure @50Hz:	75 dB(A)	Frame material:	Cast iron
Bearing DE:	6315 C3	Shields material:	Cast iron
Bearing NDE:	6315 C3	Feet material:	Cast iron
Bearing system:	Regreaseable	Terminal box position:	Top
Bearing fixation:	Drive-End	Cable glands size:	M63 (2x), M16 (1x)
Balancing vibration class:	A (half-key)	Cable glands direction:	To right
Direction of rotation:	CW or CCW		

Shaft			
Shaft dimensions:	Ø65 x 140 mm		
Key dimensions:	18 x 11 x 125 mm		
Thread of center hole:	M20		
Horizontal operation:		Vertical operation:	
$F_R (X=0)$	4,9 kN	F_p	3,9 kN
$F_R (X=max)$	4,1 kN	F_{a1}	2,7 kN
		F_{a2}	5,4 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
Inclusive PTC