KOLMER ELEKTROMOTOREN

Kolmer Elektromotoren B.V.
Industrieweg 16
NL-3881 LB Putten

Datasheet Sg 160L-8 B3

General data	
Article no.:	1316L008035G0
3-Phase motor type:	Sg 160L-8 B3
Output:	7,5 kW
Manufacturer:	Cantoni Motor
Frame size:	160
Number of poles:	8
Efficiency class:	IE1 Standard 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:	115 kg

Electrical data (calculated values)			
Rated Voltage (U_N):	**440**	**762**	V
Rated frequency (F_N):	**60**	**50**	Hz
Connection:	**Δ**	**Y**	
Rated output:	**9**	**9**	kW
Rated speed:	**850**	**850**	rpm
Efficiency:	**84,5**	**84,5**	%
Power factor:	**0,78**	**0,78**	
Rated current:	**14,4**	**8,4**	A
Starting current:	**83,5**	**48,7**	A
Factor starting current:	**5,8**	**5,8**	
Nominal torque:	**101,60**	**121,91**	Nm
Starting torque:	**274,3**	**329,2**	Nm
Factor starting torque:	**2,7**	**2,7**	
Breakdown torque:	**304,8**	**365,7**	Nm
Factor breakdown torque:	**3,0**	**3,0**	

Load characteristics							
Load:	0	25	50	75	100	125	%
Efficiency at 50Hz:			84,5	85,5	84,5		%
Efficiency at 60Hz:							%

KOLMER ELEKTROMOTOREN

Kolmer Elektromotoren B.V.
Industrieweg 16
NL-3881 LB Putten

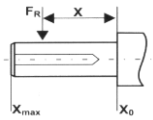
Datasheet Sg 160L-8 B3

Mechanical data					
Moment of inertia:	0,102	kgm^2	Painting:	RAL 5010 (Gentian Blue)
Sound pressure level:	62 dB(A)		Frame material:	Cast Iron
Bearing DE:	6309 2RS C3		Shields material:	Cast Iron
Bearing NDE:	6309 2RS C3		Feet material:	Cast Iron
Bearing system:	Service life lubrication		Terminal box position:	Top
Bearing fixation:	Drive-End		Cable glands size:	M40 (1x), blindstop M40 (1x)
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:	90 x 12 x 8 mm
Thread of center hole:	M16

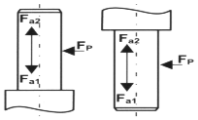
Horizontal operation:

$F_{R\ (X=0)}$	1,92	kN
$F_{R\ (X=max)}$	1,5	kN



Vertical operation:

F_p	1,8	kN
F_{a1}	1,47	kN
F_{a2}	1,8	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