KOLMER ELEKTROMOTOREN

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

Datasheet SKh 80x-4D2 B14A

General data	
Article no.:	1108XD04625H0
3-Phase motor type:	SKh 80x-4D2 B14A
Output:	1,5 kW
Manufacturer:	Cantoni Motor
Frame size:	80
Number of poles:	4
Efficiency class:	IE1 Standard Efficiency
Flange/feet:	B14A flange
Mounting:	B14 (IM 3601) 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:	13,3 kg

Electrical data (calculated values)			
Rated Voltage (U_N):	**230**	**400**	V
Rated frequency (F_N):	**50**	**50**	Hz
Connection:	**Δ**	**Y**	
Rated output:	**1,5**	**1,5**	kW
Rated speed:	**1380**	**1380**	rpm
Efficiency:	**71,0**	**71,0**	%
Power factor:	**0,72**	**0,72**	
Rated current:	**7,5**	**4,3**	A
Starting current:	**28,3**	**16,3**	A
Factor starting current:	**3,8**	**3,8**	
Nominal torque:	**10,40**	**10,40**	Nm
Starting torque:	**25,0**	**25,0**	Nm
Factor starting torque:	**2,4**	**2,4**	
Breakdown torque:	**22,9**	**22,9**	Nm
Factor breakdown torque:	**2,2**	**2,2**	

Load characteristics							
Load:	0	25	50	75	100	125	%
Efficiency at 50Hz:					71,0		%
Efficiency at 60Hz:							%

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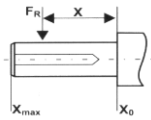
Mechanical data			
Moment of inertia:	0,003123 kgm²	Painting:	RAL 5010 (Gentian Blue)
Sound pressure level:	According IEC 60034-9	Frame material:	Aluminium
Bearing DE:	6204 2Z	Shields material:	Aluminium
Bearing NDE:	6204 2Z	Feet material:	
Bearing system:	Service life lubrication	Terminal box position:	
Bearing fixation:	Drive-End	Cable glands size:	M20 (1x)
Balancing vibration class:	A (half-key)	Cable glands direction:	To right
Direction of rotation:	CW or CCW		

Shaft	
Shaft dimensions:	Ø19 x 40 mm
Key dimensions:	6 x 6 x 32 mm
Thread of center hole:	M6

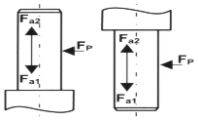
Horizontal operation:

$F_{R\ (X=0)}$	0,44	kN
$F_{R\ (X=max)}$	0,37	kN



Vertical operation:

F_p	0,12	kN
F_{a1}	0,09	kN
F_{a2}	0,15	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