Data sheet for three-phase Squirrel-Cage-Motors INNOMOTICS

Motor type:	7CV3162A	INNOMOTICS SD - 160M - IM B3 - 2 p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project
Remarks		

Electrical data   Safe Area

U [V]±10%	Δ / Y	f [Hz]±5%	P [kW]	P [hp]	I [A]	n [1/min]	M [kgf.m]	M [Nm]	η 3) 4/4	η 3/4	η 2/4	cosφ 3) 4/4	cosφ 3/4	cosφ 2/4	I_A/I_N	M_A/M_N	M_K/M_N	IE-CL
									Motordaten / Motor Data									
415	Δ	50	11.00	-/-	19.00	2947	4.0	36.0	91.5	91.5	90.5	0.88	0.85	0.76	7.2	2.8	3.5	IE3

IM B3 / IM 1001	FS 160M	120 kg	SF:1	IS 12615 / IEC 60034-1	-

Environmental conditions : -20 ℃ - +50 ℃ / 1,000 m	Locked rotor time (hot / cold) : 30 s | 40 s

Mechanical data

Sound pressure level 50Hz | 60Hz	74 dB(A)	79 dB(A)	External earthing terminal	Yes (standard)
Moment of inertia | Rotor GD²	0.0420 kg m² | 0.1681 kgf.m²		Vibration severity grade	A (Standard)
Bearing DE | NDE	6309 2Z C3	6309 2Z C3	Insulation	155(F) utilized to 130(B)
bearing lifetime			Duty type	S1
L₁₀ₘₕ F_Rad max according catalogue 50|60Hz 1)	20,000 h	16,000 h	Direction of rotation	Bidirectional
L₁₀ₘₕ F_Rad min for coupling operation 50|60Hz 1)	50,000 h	40,000 h	Frame material	Cast iron
Type of bearing	Locating (fixed) bearing, NDE		Forced ventilation motor details	- / -
Relubrication interval/quantity DE | NDE	-/- g | -/- g -/- h		Net weight of the motor (IM B3)	120 kg
Type of construction	IM B3 / IM 1001		Rotor weight	22 kg
Degree of protection	IP55		Data of anti condensation heating	-/- V, -/- W
Lubricants	Esso Unirex N3		Coating (paint finish)	Standard paint finish
Regreasing device	- / -		Color, paint shade	RAL7030
Grease nipple	-/-		Motor protection	(A) without
Condensate drainage holes	Yes		Method of cooling	IC411 - Self ventilated, surface cooled

Terminal box

Terminal box position	Top	Cable diameter from ... to ...	19.0 mm - 28.0 mm
Material of terminal box	Sheet Metal	Cable entry	2xM40x1.5
Type of terminal box	TB7 J03	Cable gland	2 Plugs
Contact screw thread	M5		
Max. cross-sectional area	25 mm²		

Notes:

I_A/I_N = locked rotor current / current nominal
M_A/M_N = locked rotor torque / torque nominal
M_K/M_N = break down torque / nominal torque
1) L₁₀ₘₕ according to DIN ISO 281 10/2010

3) Efficiency value is valid only for sinusoidal line supply operation.
Motor is Suitable for Impulse voltage insulation class of IVIC-C as per IEC 60034-18-41