

# 3.1 Manufacturer Inspection Certificate

**Delivery address**

PRZEDSIĘBIORSTWO PRODUKCJI SPRĘŻAREK  
"AIRPOL" SPÓŁKA Z OGRANICZONĄ  
ODPOWIEDZIALNOŚCIĄ  
ul. Nieszawska 15C  
61-021 Poznań

**Sales order**

SODK-206568

**Order account**

CDK-001387

**Date**

06-03-2025

**Ref. no.**

Z20251384

Main			
Serial number	DK1243910025	Classing society	
Line no.		Headline 1	
Ext. item no.	ESI0337	Industrial certification	CE, UKCA

Motor specification			
Type name	HMA3 132S2-2	Color	RAL 9005 / C3L
Mounting	B3	Explosion protection	No
Efficiency class	IE3	Rain cap	No
Poles	2	Cooling method	IC411
Ingress protection class	IP55	Thermal protection main	PTC 3 x 155°C
Thermal insulation class	F	Thermal protection secondary	None
Temperature rise	B	Anti-condensation heater	None
Electrical insulation	Standard (1350 V @ 0.8 μs)	Temperature detector (PT100)	No (windings)
Bearing type (DE)	DGBB / 6308 / C3 / Closed (2Z)	Temperature detector (PT100)	No (bearings)
Bearing type (NDE)	DGBB / 6308 / C3 / Closed (2Z)	Cable entry (main)	2x M25x1.5 N/A
IEC vibration class	A	Cable entry (accessory)	1x M20x1.5 N/A

Electrical data					
Rated power (kW)	7.5	7.5			
Frequency (Hz)	50	60			
Voltage - VD / VY	400 / 690	480 / 830			
Full load current - VD / VY (A)	13.7 / 7.9	11.6 / 6.68			
Speed (rpm)	2932	3519			
Power factor (100%)	0.88	0.88			
Efficiency 50% / 75% / 100%	89.1 / 90.3 / 90.1	87.8 / 88.9 / 90.2			
Ist/In	9.24	11			
Full load torque (Nm)	24.4	20.4			
Tst/Tn	2.78	3.33			
Tmax/Tn	3	3.6			
Duty	S1	S1			
Ambient temp. (°C)	40	40			
Rotor inertia	0.017	0			
Sound pressure level (dBA)	70	75			
Winding resist. (ohm)	1.138	1.138			
Temp. rise winding (K)	56.6	0			
Temp. rise surface (K)	45.5	0			

Based on the routine(RT) and type test report (TTR). Hoyer confirms that motors fulfills following requirements acc. To Standard IEC60034-1

High voltage dielectric test	Motor suitable to withstand (1000V + (2xUn)) for 60 seconds	RT
Insulation resistance measurement	Cold insulation of stator winding is above 30 Megaohm	RT
No load test	No load current value is within 10% of the mean value	RT
Winding resistance measurement	Difference between 3-phase resistance value is within 5% of mean values	RT
Over load test(160% for 120 seconds)	Motor suitable to withstand 1.6x rated torque running for 120 seconds	TTR
Over speed test(120% for 120 seconds)	Motor suitable to withstand 1,2x speed motor running for 120 seconds	TTR