

3.1 Manufacturer Inspection Certificate

Delivery address

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

Sales order

SODK-210029

Order account

CDK-001387

Date

22-04-2025

Ref. no.

Z20252047

Main Poland			
Serial number	DK1236600065	Classing society	,
Line no.	4.1	Headline 1	
Ext. item no.	ESI0603	Industrial certification	CE, UKCA

Motor specification			
Type name	HMA3 132M2-2	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)	11	11				
Frequency (Hz)	50	60				
Voltage - VD / VY	400 / 690	480 / 830				
Full load current - VD / VY (A)	19 / 11	16 / 9.28				
Speed (rpm)	2935	3522				
Power factor (100%)	0.92	0.92				
Efficiency 50% / 75% / 100%	90.3 / 91.1 / 91.2	89.4 / 90.1 / 91				
Ist/In	9.57	11.3				
Full load torque (Nm)	35.8	29.8				
Tst/Tn	2.97	3.56				
Tmax/Tn	3.3	3.96				
Duty	S1	S1				
Ambient temp. (°C)	40	40				
Rotor inertia	0.028	0				
Sound pressure level (dBA)	75	80				
Winding resist. (ohm)	0.709	0.7094				
Temp. rise winding (K)	64.4	0				
Temp. rise surface (K)	50.8	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