

3.1 Manufacturer Inspection Certificate

Delivery address

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

Sales order

Order account
Date
Ref. no.

SODK-189399

CDK-001387

28-01-2025

Z20245728

Main			
Serial number	DK1226460004	Classing society	
Line no.	Pos. 2.1	Headline 1	ESI0439
Ext. item no.	ESI0439	Industrial certification	CE, UKCA

Motor specification			
Type name	HMC3 200L1-2	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)	CRB / NU 312 ECP / C3 / Open	Temperature detector (PT100)	No (bearings)
Bearing type (NDE)	DGBB / 6312 / C3 / Open	Cable entry (main)	2x M50x1.5 N/A
IEC vibration class	A	Cable entry (accessory)	2x M20x1.5 N/A

Electrical data					
Rated power (kW)	30	30			
Frequency (Hz)	50	60			
Voltage - VD / VY	400 / 690	480 / 830			
Full load current - VD / VY (A)	50.7 / 29.3	43.5 / 25.1			
Speed (rpm)	2971	3565			
Power factor (100%)	0.91	0.91			
Efficiency 50% / 75% / 100%	93 / 94.5 / 94.3	90.1 / 91.5 / 91.3			
Ist/In	8.53	9.95			
Full load torque (Nm)	96.4	80.4			
Tst/Tn	2.9	3.48			
Tmax/Tn	3.03	3.63			
Duty	S1	S1			
Ambient temp. (°C)	40	40			
Rotor inertia	0.198	0			
Sound pressure level (dBA)	73.2	78			
Winding resist. (ohm)	0.192	0.1918			
Temp. rise winding (K)	51.3	0			
Temp. rise surface (K)	31.2	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