Specifications, Motor, Tonkaflo

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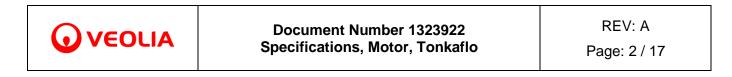


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1 Scope

This specification establishes the minimum requirements for the motors used for Tonkaflo Pumps. Motors are categorized based on type and location of use. Additional information can be found in Appendix1; Table A.

2 Motor Specifications

Minimum requirements shall be used:

2.1 100HP rated at 60Hz

2.1.1 404/405TSC

Standard Features:

NEMA MG-1 rated

Number of Poles:2, 3 Phase

Rated Voltage: 230/460V

Insulation Class: F

Temp Rise: 80C

Starting Method: Inverter Duty

Ambient Temperature: -20C to 40C

Ingress Protection rating: IP55

Enclosure: TEFC

Duty Cycle: Continuous

Winding Thermal Protection: Thermostat

These items are NOT included in the with the standard motor:

Factory Motor test reports

Space heaters

AEGIS shaft grounding rings

RTDs

Thermistors

Insulation class H

2.2 75HP rated at 60Hz

2.2.1 364/365TSC

Standard Features:

NEMA MG-1 rated

Number of Poles:2, 3 Phase

Rated Voltage: 230/460V

Insulation Class: F

Temp Rise: 80C

Starting Method: Inverter Duty

Ambient Temperature: -20C to 40C

Ingress Protection rating: IP55

Enclosure: TEFC

Duty Cycle: Continuous

Some common items NOT included in the standard features, but also not limited to:

Factory Motor test reports

Space heaters

AEGIS shaft grounding rings

RTDs

Thermistors

Insulation class H

2.3 60HP rated at 60Hz

2.3.1 364/365TSC

Standard Features:

NEMA MG-1 rated

Number of Poles:2, 3 Phase

Rated Voltage: 230/460V

Insulation Class: F

Temp Rise: 80C

Starting Method: Inverter Duty

Ambient Temperature: -20C to 40C

Ingress Protection rating: IP55

Enclosure: TEFC

Duty Cycle: Continuous

Some common items NOT included in the standard features, but also not limited to:

Factory Motor test reports

Space heaters

AEGIS shaft grounding rings

RTDs

Thermistors

Insulation class H

2.4 50 HP rated at 60Hz

2.4.1.1 324/326TSC

Standard Features:

NEMA MG-1 rated

Number of Poles:2, 3 Phase

Rated Voltage: 230/460V

Insulation Class: F

Temp Rise: 80C

Starting Method: Inverter Duty

Ambient Temperature: -20C to 40C

Ingress Protection rating: IP55

Enclosure: TEFC

Duty Cycle: Continuous

Some common items NOT included in the standard features, but also not limited to:

Factory Motor test reports

Space heaters

AEGIS shaft grounding rings

RTDs

Thermistors

Insulation class H

2.5 40HP rated at 60Hz

2.5.1 324/326TSC

Standard Features:

NEMA MG-1 rated

Number of Poles:2, 3 Phase

Rated Voltage: 230/460V

Insulation Class: F

Temp Rise: 80C

Starting Method: Inverter Duty

Ambient Temperature: -20C to 40C

Ingress Protection rating: IP55

Enclosure: TEFC

Duty Cycle: Continuous

Some common items NOT included in the standard features, but also not limited to:

Factory Motor test reports

Space heaters

AEGIS shaft grounding rings

RTDs

Thermistors

Insulation class H

2.6 30HP rated at 60Hz

2.6.1 284/286TSC

Standard Features:

NEMA MG-1 rated

Number of Poles:2, 3 Phase

Rated Voltage: 230/460V

Insulation Class: F

Temp Rise: 80C

Starting Method: Inverter Duty

Ambient Temperature: -20C to 40C

Ingress Protection rating: IP55

Enclosure: TEFC

Duty Cycle: Continuous

Some common items NOT included in the standard features, but also not limited to:

Factory Motor test reports

Space heaters

AEGIS shaft grounding rings

RTDs

Thermistors

Insulation class H

2.7 25HP rated at 60Hz

2.7.1 284/286TSC

Standard Features:

NEMA MG-1 rated

Number of Poles:2, 3 Phase

Rated Voltage: 230/460V

Insulation Class: F

Temp Rise: 80C

Starting Method: Inverter Duty

Ambient Temperature: -20C to 40C

Ingress Protection rating: IP55

Enclosure: TEFC

Duty Cycle: Continuous

Some common items NOT included in the standard features, but also not limited to:

Factory Motor test reports

Space heaters

AEGIS shaft grounding rings

RTDs

Thermistors

Insulation class H

2.8 20HP rated at 60Hz

2.8.1 254/256TSC

Standard Features:

NEMA MG-1 rated Number of Poles:2 Rated Voltage: 230/460V Insulation Class: F Temp Rise: 80C Starting Method: Inverter Duty Ambient Temperature: -20C to 40C Ingress Protection rating: IP55 Enclosure: TEFC Duty Cycle: Continuous

Some common items NOT included in the standard features, but also not limited to:

- Factory Motor test reports
- Space heaters
- AEGIS shaft grounding rings
- RTDs
- Thermistors
- Insulation class H
- Winding Thermal Protection: Thermostat

2.9 15HP rated at 60Hz

2.9.1 213/215TSC

Standard Features:

NEMA MG-1 rated

Phase: 3

Number of Poles:2

Rated Voltage: 230/460V

Insulation Class: F

Max. Temp Rise: +40C

Starting Method: Inverter Duty

NEMA Design B at 60Hz

Ingress Protection rating: IP43

Enclosure: TEFC

Duty Cycle: Continuous

Altitude Limits: 3300 FASL

Some common items NOT included in the standard features, but also not limited to:

Factory Motor test reports

Space heaters

AEGIS shaft grounding rings

RTDs

Thermistors

Insulation class H

10HP rated at 60Hz

2.9.2 213/215TC

Standard Features:

NEMA MG-1 rated

Phase: 3

Number of Poles:2

Rated Voltage: 230/460V

Insulation Class: F

Max. Temp Rise: +80C

Starting Method: Inverter Duty

Ambient Temperature: -20C to 40C

Ingress Protection rating: IP55

Enclosure: TEFC

Duty Cycle: Continuous

Some common items NOT included in the standard features, but also not limited to:

Factory Motor test reports

Space heaters

AEGIS shaft grounding rings

RTDs

Thermistors

Insulation class H

2.10 7.5HP rated at 60Hz

2.10.1 182/184TC

Standard Features:

NEMA MG-1 rated

Phase: 3

Number of Poles:2

Rated Voltage: 230/460V

Insulation Class: F

Temp Rise: 80C

Starting Method: Inverter Duty

Ambient Temperature: -20C to 40C

Ingress Protection rating: IP55

Enclosure: TEFC

Duty Cycle: Continuous

Some common items NOT included in the standard features, but also not limited to:

Factory Motor test reports

Space heaters

AEGIS shaft grounding rings

RTDs

Thermistors

Insulation class H

2.11 5HP rated at 60Hz

2.11.1 182/184TC

Standard Features:

NEMA MG-1 rated

Phase: 3

Number of Poles:2

Rated Voltage: 230/460V

Insulation Class: F

Temp Rise: 80C

Starting Method: Inverter Duty

Ambient Temperature: -20C to 40C

Ingress Protection rating: IP55

Enclosure: TEFC

Duty Cycle: Continuous

Some common items NOT included in the standard features, but also not limited to:

Factory Motor test reports

Space heaters

AEGIS shaft grounding rings

RTDs

Thermistors

Insulation class H

2.12 3HP rated at 60Hz

2.12.1 56HJ

Minimum Requirements/Features:

NEMA MG-1 rated

Phase: 3

Number of Poles:2

Rated Voltage: 230/460V

Insulation Class: F

Temp Rise: 80C

Starting Method: Inverter Duty

Ambient Temperature: -20C to 40C

Ingress Protection rating: IP55

Enclosure: TEFC

Duty Cycle: Continuous

Some common items NOT included in the standard features, but also not limited to:

Factory Motor test reports

Space heaters

AEGIS shaft grounding rings

RTDs

Thermistors

Insulation class H

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3 Revision History

Revision	Description	Date	Revised By	Approved By
А	Initial Release.	04/17/24	JCG	SCF

4 Appendices

4.1 See Table A spreadsheet for Motor Interface Needs



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