

LOGI INTERNAL SYSTEMS **STIC**



Drum Motors - Asynchronous Motors

Drum Motor

asynchronous Motor

GENERAL TECHNICAL INFORMATION

PRODUCT DESCRIPTION

The Drum Motor is a totally enclosed electric driven pulley and replaces external components such as gear-motors and gearboxes that require frequent maintenance.

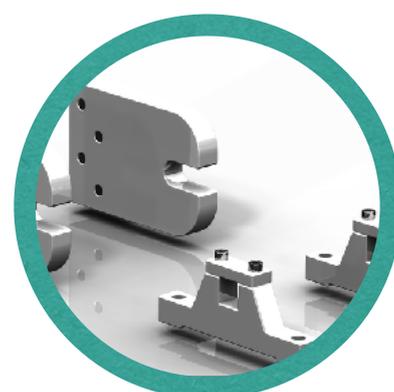
The Drum Motor can operate in high concentrations of dust or grit and can be subjected to water jets or spray and will withstands most aggressive environments. Due to its IP66 protection class and its stainless steel finish (when specified) it can also be used for food processing, hygienic or pharmaceutical applications. The Drum Motor can be used with a rubber lagging for increasing friction between the Drum Motor and conveyor belt or provided with a profiled lagging for driving modular or profiled belts or without any covering.

Drum Motors are powered by an asynchronous AC induction motor which is available in different power levels and in accordance to most international voltages.

SN-series Drum Motors are powered by a synchronous motor and must be connected to a suitable drive controller. For information on the drive controller see the respective manual.

The Drum Motor contains oil that serves as lubricant and coolant by dissipating heat through the drum shell and conveyor belt.

If the Drum Motor is used without a belt or with modular belt it can be provided in a special design to ensure cooling.



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OPTIONAL FEATURES

Integral Thermal Control/Thermal Winding Protection:

An Integral Thermal Control switch is fitted in the winding head to prevent overheating. The switch will open if the motor overheats. However, it must be connected to a suitable external control device which will interrupt the power supply to the motor in case of overheating

Integral Electromagnetic Brake:

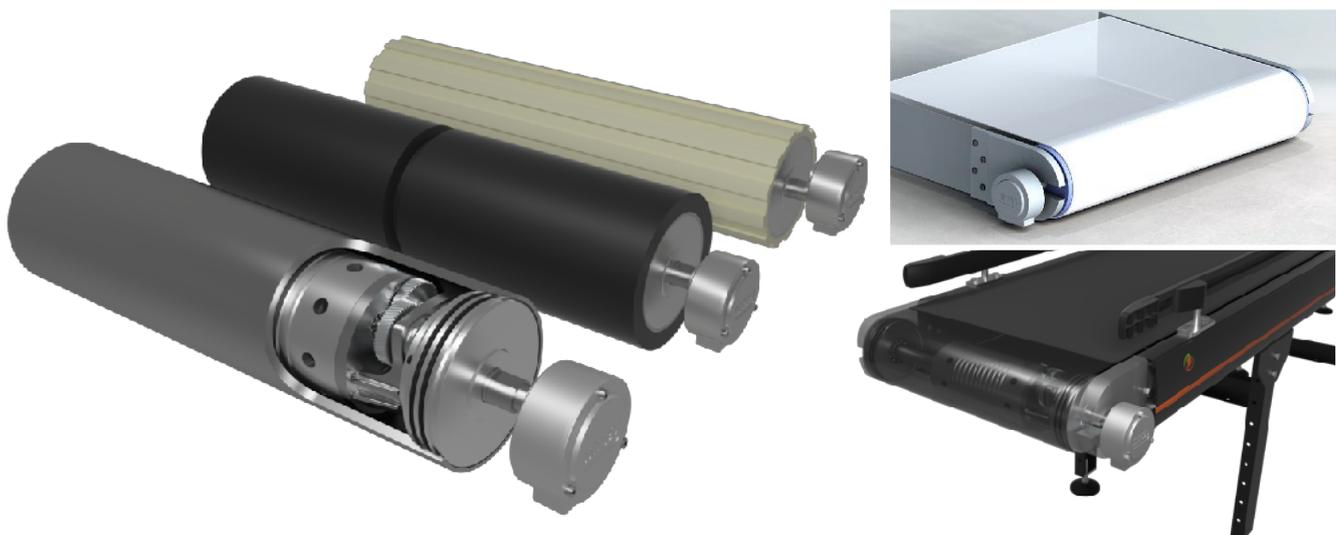
The Integral Electromagnetic Brake is able to brake and hold a load according to the stated belt pull. It is applied directly to the Drum Motor's rotor shaft and supplied with a DC rectifier. The Electromagnetic Brake is available for all Drum Motor models except 80s and 113s

Mechanical Backstop Function:

The Mechanical Backstop Function fitted to the rotor shaft can be used on inclined conveyors to prevent the belt from moving backwards when power supply is off. The Mechanical Backstop Function is available for all Drum Motor models except 113s and SN-series.

Encoder solution:

The pulses of the Encoder can be used for positioning, speed and rotational direction control.



Drum Motor

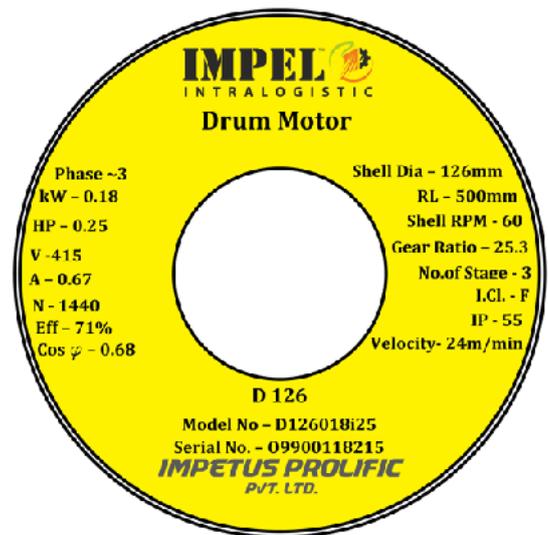
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Features

- ◆ Technopolymer Gearbox
- ◆ Light Weight
- ◆ Single rated Voltage
- ◆ 3 - phase or 1- phase induction motor
- ◆ Integral Motor Protection
- ◆ Maintenance Free
- ◆ Lifetime Lubricated
- ◆ Reversible

Application

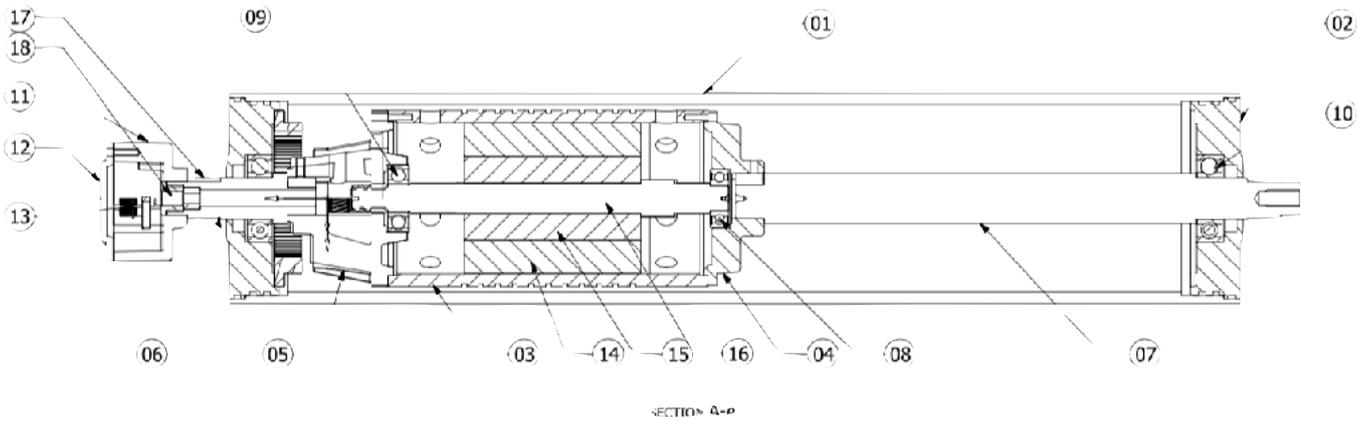
- ◆ Light duty Conveyors
- ◆ Packaging Equipment
- ◆ Bottle recycling
- ◆ X-ray, security scanning system
- ◆ Pharmaceutical handling
- ◆ Maintenance Free
- ◆ Lifetime Lubricated
- ◆ Reversible
- ◆ Low Noise



Drum Motor

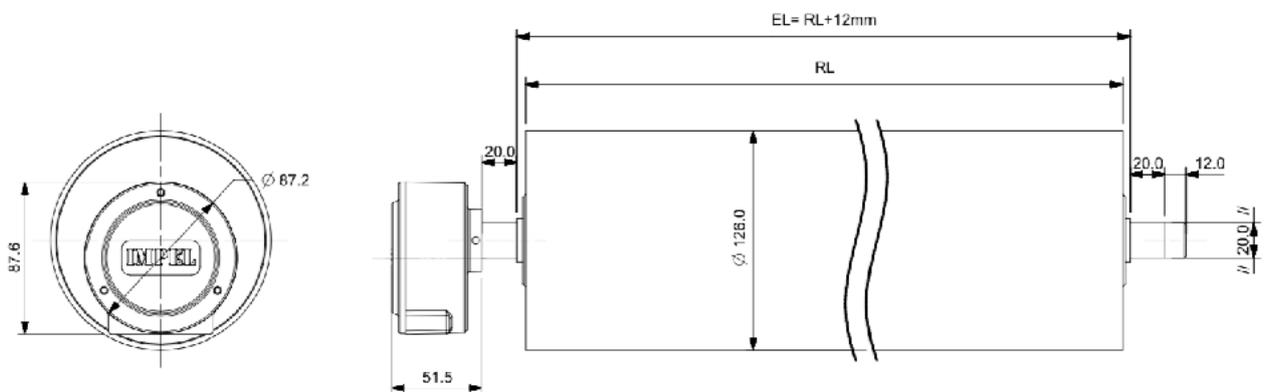
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Part List of Drum Motor



- | | | |
|---------------------|------------------------|--------------------|
| 1. Shell | 7. Mounting Shaft A | 13. Terminal Plate |
| 2. End cap | 8. Bearing 6203/2Z/C3 | 14. Stator |
| 3. Motor Body | 9. Bearing 6202/2Z/C3 | 15. Rotor |
| 4. End Shield | 10. Bearing 6205/2Z/C3 | 16. Rotor Shaft |
| 5. Gearbox | 11. Terminal Box | 17. Oil Seal |
| 6. Mounting Shaft B | 12. Terminal Cover | 18. Pressure Plug |

Dimensional Drawing



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Drum Motor 80mm Performance

Phase	Power	Belt Speed	Belt Pull (LBF)
3	0.024 HP	11 ft/min to 20 ft/min	65 to 37
3	0.054 HP	24 ft/min to 111 ft/min	68 to 15
3	0.094 HP	24 ft/min to 230 ft/min	122 to 13
3	0.16 HP	51 ft/min to 230 ft/min	99 to 22

Drum Motor 113mm Performance

Phase	Power	Belt Speed	Belt Pull (LBF)
3	0.20 HP	44 ft/min to 171 ft/min	146 to 37
3	0.24 HP	29 ft/min to 115 ft/min	255 to 67
3	0.30 HP	91 ft/min to 355 ft/min	102 to 27
3	0.50 HP	80 ft/min to 356 ft/min	194 to 44

Drum Motor 138mm Performance

Phase	Power	Belt Speed	Belt Pull (LBF)
3	0.25 HP	15 ft/min to 45 ft/min	452 to 163
3	0.34 HP	20 ft/min to 61 ft/min	465 to 167
3	0.50 HP	31 ft/min to 228 ft/min	473 to 69
3	0.75 HP	67 ft/min to 378 ft/min	340 to 61
3	1.00 HP	37 ft/min to 236 ft/min	446 to 134
3	1.34 HP	75 ft/min to 378 ft/min	541 to 113



MOD - APPROCH ULAR

www.impelintra.com

IMPETUS PROLIFIC PVT. LTD.

C-1/55, Road - D, Phase - 1, Aji GIDC, Rajkot 360003, Gujarat, INDIA

phone: +91 (281) 2384198 | direct no: +91 98795 99898 | email: info@impelintra.com

www.tes-india.com +91 281 2463346