

## AMROLL DRUM MOTOR--TM80M

TM80M features a planetary transmission system with polymer gears, significantly reducing operational noise while enhancing performance reliability. Designed for free maintenance and compact installation spaces, it also incorporates specially engineered transmission components that help lower overall purchase costs for customers.

This drum motor is ideally suited for supermarket checkout conveyors, making it a perfect fit for applications involving light loads and frequent start-stop cycles.

## TM80M drum motors have the following characters:

### Drum motor shell

- Mild steel crowned shell treated with anti-rust oil
- The standard shell is coronal and the surface is machined with non-slip threads

### Gear transmission

- High polymer gear to ensure ultra-low noise during transmission
- Planetary gear structure

### Motor

- Common global voltages at 50 Hz or 60 Hz
- AC asynchronous motor, S3
- Motor windings insulation class F
- All motors with thermal protection
- Oil cooled electrical motor
- Cable length minimum 1.2 meters outside shaft

### Sealing system

- Double shaft sealing system
- Sealing system-degree of protection IP 66/67

### Oil

- Pre lubricated with oil
- Oil change recommended every 50,000 hours of operation

### Other items

- Electromagnetic brakes are optional, but the length of the shell will be lengthened accordingly
- Belt speed and face width (L) on request
- International authority CE and UL safety certification
- Non-standard drum motors are available on request.

### AMROLL Drum Motor TM80M-1\*230V/50Hz

Power [kW/hp]	No.of poles	Gear stages	Gear ratio	Nominal belt speed [m/s]	Full load torque [Nm]	Full load belt pull [N]	Full load current [A]	Min. face width (L) [mm]	Min.L Weight [kg]
0.034/0.045	4	3	106.90	0.05	19.88	485	0.48	280	5
			77.70	0.08	14.92	364			
			56.50	0.10	10.87	265			
		2	19.40	0.30	3.73	91			
			14.10	0.40	2.71	66			
0.06/0.08	2	3	106.90	0.10	17.88	436	0.57	260	5
			77.70	0.14	12.90	315			
			56.50	0.20	9.41	230			
0.085/0.115	2	3	77.70	0.15	19.40	473	0.66	270	5
			56.50	0.21	14.10	344			
		2	19.40	0.62	4.85	118			
			14.10	0.85	3.52	86			
0.11/0.15	2	3	77.70	0.15	25.90	630	0.99	280	5
			56.50	0.21	18.80	459			
		2	19.40	0.61	5.91	144			
			14.10	0.84	4.24	103			

At the min. face width (L), the total weight of a drum motor grows approx.0.9kg per 100 mm.

## TM80M optional list-drum motor/idler pulley

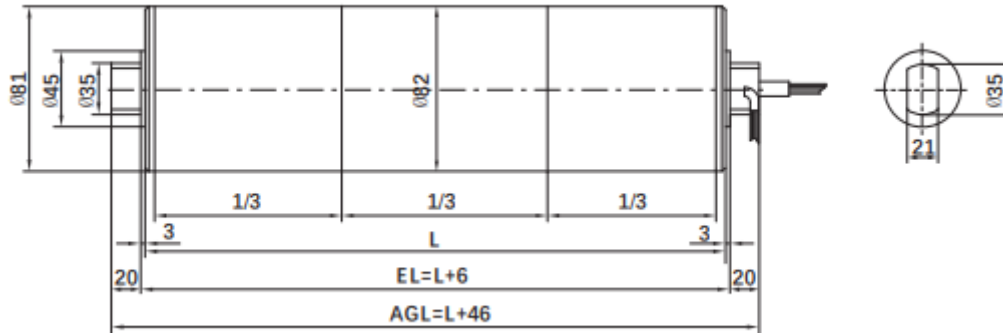
Specifications	Drum motor	Idler pulley
<b>Shell</b>		
Mild steel crowned	1	1
Mild steel cylindrical	2	2
<b>End housing (front &amp; rear)</b>		
Cast aluminium	1	1
<b>Electrical motors</b>		
1-phase asynchronous motor	1	
Voltage 1*230V/50Hz	1	
Most common global voltages at 50 or 60 Hz	1	
Thermal protection	2	
<b>Lubricating oil</b>		
NO.32 hydraulic oil	1	
Low temperature oil	2	
<b>Electrical connection</b>		
Straight/elbow cable connector	1	
Oil resistant PVC cable	1	

Note:

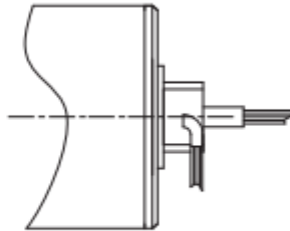
1-fitted as standard 2-optional extras

## Standard Dimension

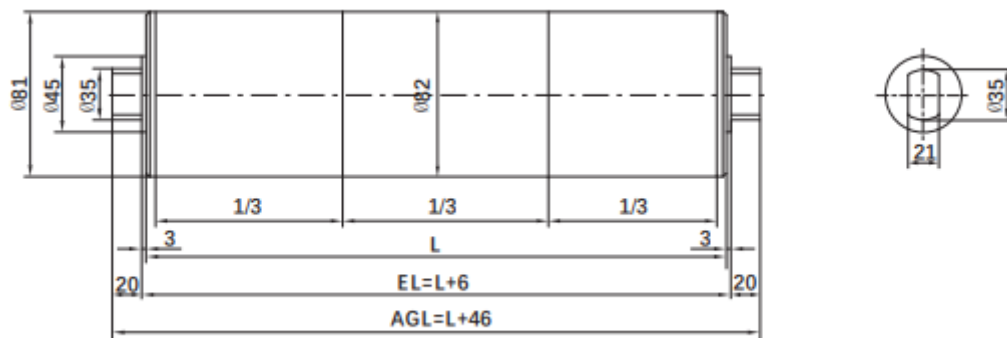
### TM80M Drum motor

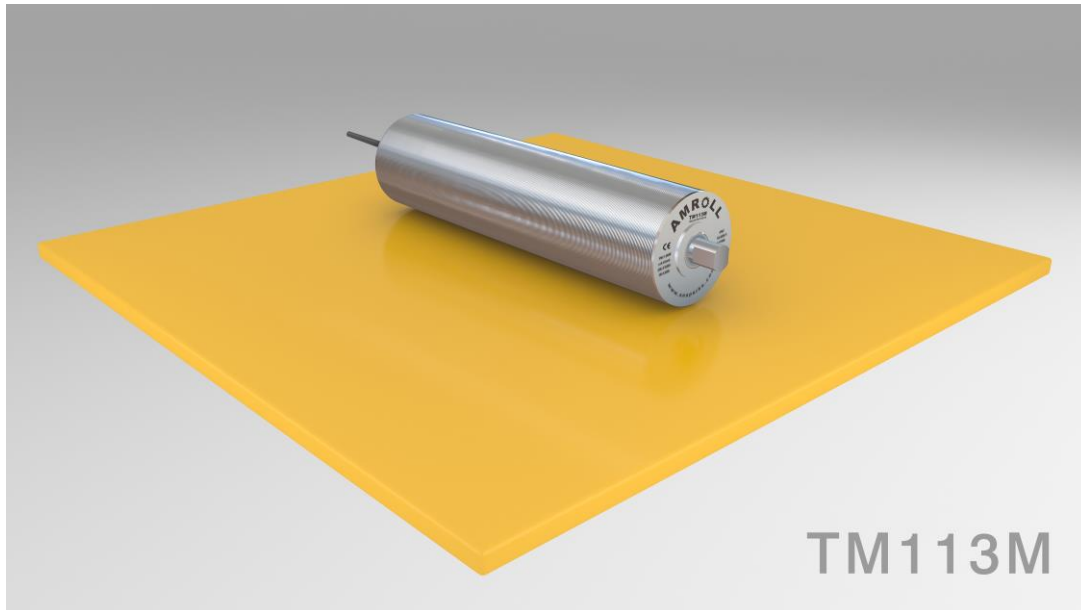


### Straight/Elbow cable connector



### UT80M Idler roller





## AMROLL DRUM MOTOR--TM113M

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This drum motor is ideally suited for supermarket checkout conveyors, making it a perfect fit for applications involving light loads and frequent start-stop cycles.

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### Drum motor shell

- Mild steel crowned shell treated with anti-rust oil
- The standard shell is coronal and the surface is machined with non-slip threads

### Gear transmission

- High polymer gear to ensure ultra-low noise during transmission
- Planetary gear structure

### Motor

- Common global voltages at 50 Hz or 60 Hz
- AC asynchronous motor, S3
- Motor windings insulation class F
- All motors with thermal protection
- Oil cooled electrical motor
- Cable length minimum 1.2 meters outside shaft

### Sealing system

- Double shaft sealing system
- Sealing system-degree of protection IP 66/67

### Oil

- Pre lubricated with oil
- Oil change recommended every 50,000 hours of operation

### Other items

- Electromagnetic brakes are optional, but the length of the shell will be lengthened accordingly
- Belt speed and face width (L) on request
- International authority CE and UL safety certification
- Non-standard drum motors are available on request.

### AMROLL Drum Motor TM113M-1\*230V/50Hz

Power [kW/hp]	No. of poles	Gear stages	Gear ratio	Nominal belt speed [m/s]	Full load torque [Nm]	Full load belt pull [N]	Full load current [A]	Min. face width (L) [mm]	Min.L Weight [kg]
0.11/0.15	4	3	74.27	0.11	44.02	779	0.99	350	10
			56.59	0.15	35.22	623			
			43.07	0.19	27.80	492			
0.15/0.20	4	3	74.27	0.11	60.03	1062	1.55	350	10
			56.59	0.15	48.03	850			
			43.07	0.19	37.91	671			

At the min. face width (L), the total weight of a drum motor grows approx.1.4 kg per 100 mm.

### AMROLL Drum Motor TM113M-1\*115V/60Hz

Power [kW/hp]	No. of poles	Gear stages	Gear ratio	Nominal belt speed [m/s]	Full load torque [Nm]	Full load belt pull [N]	Full load current [A]	Min. face width (L) [mm]	Min.L Weight [kg]
0.11/0.15	4	3	74.27	0.11	44.02	779	1.60	350	10
			56.59	0.15	35.22	623			
			43.07	0.19	27.80	492			
0.15/0.20	4	3	74.27	0.11	60.03	1062	2.80	350	10
			56.59	0.15	48.03	850			
			43.07	0.19	37.91	671			

At the min. face width (L), the total weight of a drum motor grows approx.1.4 kg per 100 mm.

## TM113M optional list-drum motor/idler pulley

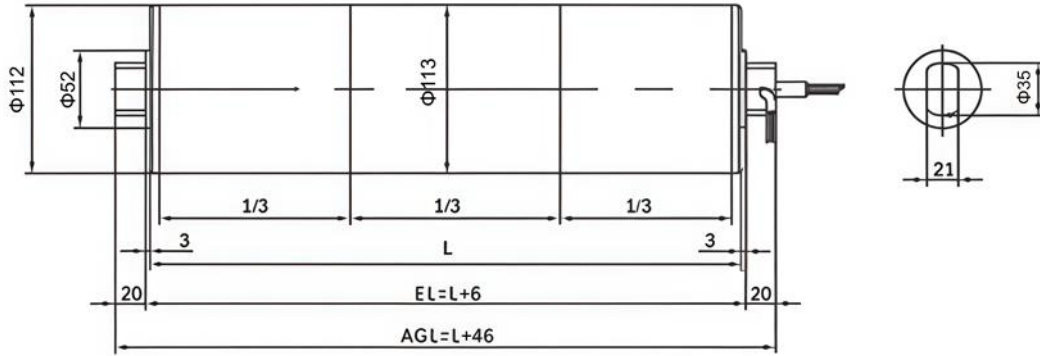
Specifications	Drum motor	Idler pulley
<b>Shell</b>		
Mild steel crowned	1	1
Mild steel cylindrical	2	2
<b>End housing (front &amp; rear)</b>		
Cast aluminium	1	1
<b>Electrical motors</b>		
1-phase asynchronous motor	1	
Voltage 1*230V/50Hz or 1*115V/60Hz	1	
Thermal protection	2	
<b>Lubricating oil</b>		
NO.32 hydraulic oil	1	
Low temperature oil	2	
<b>Electrical connection</b>		
Straight/elbow cable connector	1	
Oil resistant PVC cable	1	

Note:

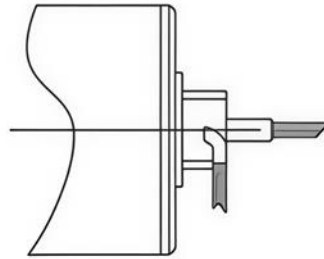
1-fitted as standard 2-optional extras

## Standard Dimension

### TM113M Drum motor



### Straight/Elbow cable connector



### UT50 Idler roller

