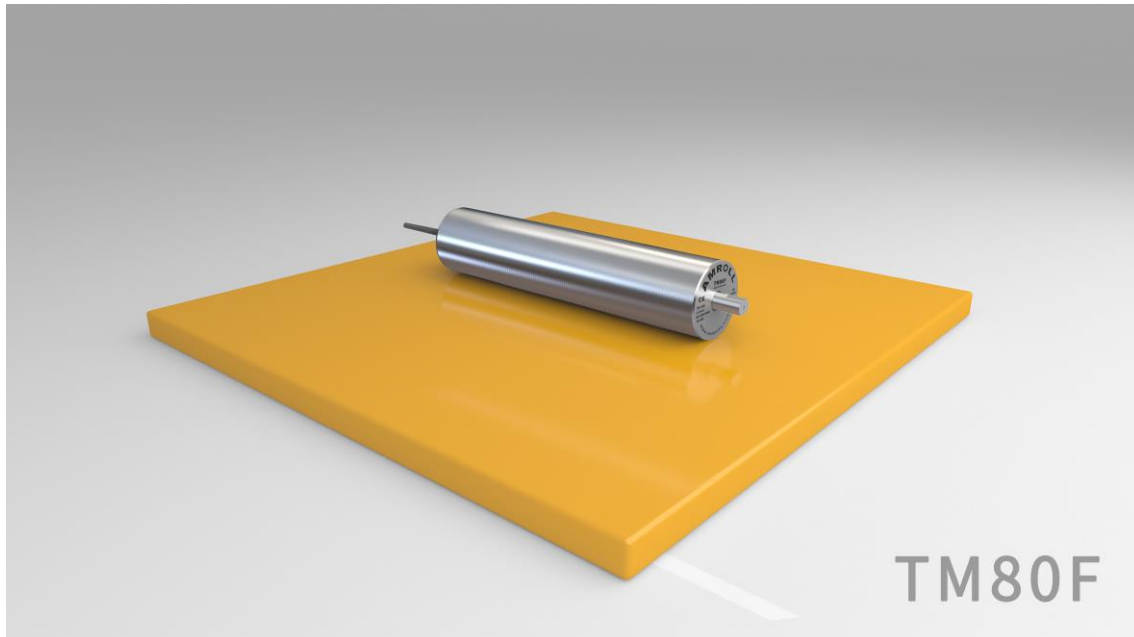




AMROLL DRUM MOTOR--TM80F

TM80F asynchronous oil immersed drum motor, The design is based on the space limitation requirement of conveying equipment and the high efficiency application of transmission system. All stainless steel material can meet the strict requirements of sanitary and humid environment. This kind of drum motor is typically used in:

- Food processing conveyor
- Pharmaceutical packaging
- Belt conveyors

TM80F drum motors have the following characters:

Drum motor shell

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

Gear transmission

- Gears machined and honed to AGMA/DIN 6 standards to ensure low noise

Motor

- Common global voltages at 50 Hz or 60 Hz
- AC asynchronous motor
- 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 TM80F-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	74.79	0.08	16.41	400	0.48	320	6
			55.11	0.10	13.11	320			
			37.89	0.15	8.73	214			
		2	28.95	0.20	6.55	160			
			21.33	0.27	4.85	118			
			14.67	0.40	3.28	80			
			11.81	0.50	2.62	64			
0.06/ 0.08	2	3	74.79	0.15	15.42	391	0.57	320	5
			55.11	0.20	11.01	269			
			37.89	0.30	7.71	188			
		2	28.95	0.39	5.91	142			
			21.33	0.52	4.37	104			
			14.67	0.76	2.95	71			
			11.81	0.95	2.36	56			
0.085/ 0.115	2	3	74.79	0.16	19.28	489	0.66	350	6
			55.11	0.22	13.77	336			
			37.89	0.32	9.63	236			
		2	28.95	0.41	7.38	177			
			21.33	0.56	5.46	131			
			14.67	0.81	3.69	89			
			11.81	1.01	2.96	71			
0.11/ 0.15	2	3	55.11	0.22	22.02	538	0.99	350	6
			37.89	0.32	15.42	376			
		2	28.95	0.42	11.82	284			
			21.33	0.56	8.74	208			
			14.67	0.82	5.90	142			
			11.81	1.02	4.72	112			

At the min. face width (L), the total weight of a drum motor grows approx.1.2 kg per 100 mm.

AMROLL Drum Motor TM80F-3 *400V/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]
0.04/ 0.05	4	3	74.79	0.08	18.00	450	0.43	310	6
			55.11	0.10	14.40	360			
			37.89	0.15	9.60	240			
0.06/ 0.08	2	3	74.79	0.15	19.28	489	0.30	310	5
			55.11	0.20	13.77	336			
			37.89	0.30	9.63	236			
		2	28.95	0.39	7.38	177			
			21.33	0.52	5.46	131			
			14.67	0.76	3.69	89			
			11.81	0.95	2.96	71			
	4	3	55.11	0.10	28.91	705	0.36	320	6
			37.89	0.15	19.27	470			
0.09/ 0.12	2	3	74.79	0.16	23.13	587	0.43	350	6
			55.11	0.22	16.52	403			
			37.89	0.32	11.56	283			
		2	28.95	0.41	8.86	212			
			21.33	0.56	6.55	157			
			14.67	0.82	4.43	106			
			11.81	1.01	3.55	85			
0.12/ 0.16	2	3	55.11	0.22	22.02	538	0.53	350	6
			37.89	0.32	15.42	376			
		2	28.95	0.42	11.82	284			
			21.33	0.56	8.74	208			
			14.67	0.82	5.90	142			
			11.81	1.02	4.72	112			

At the min. face width (L), the total weight of a drum motor grows approx.1.2 kg per 100 mm.

TM80F optional list-drum motor/idler pulley

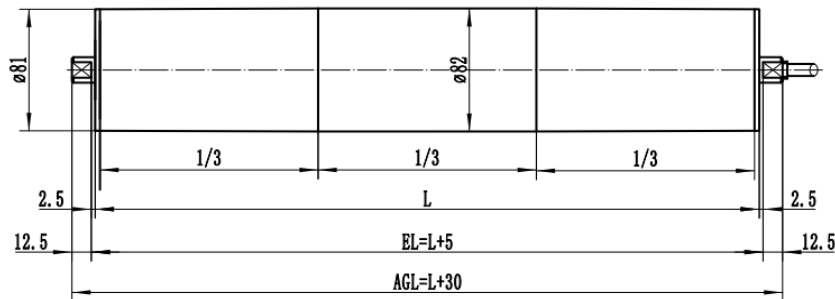
Specifications	Drum motor	Idler pulley
Shell		
Stainless steel(std. 304) crowned	1	1
Stainless steel(std. 304) cylindrical	2	2
Stainless steel(std. 304) cylindrical+ key	2	2
End housing (front & rear)		
Cast stainless steel(std. 304)	1	1
Shaft (front & rear)		
Stainless steel(std. 304)	1	1
Electrical motors		
1 or 3-phase asynchronous motor	1	
Voltage 1*230V/50Hz or 3*400v/50Hz	1	
Most common global voltages at 50 or 60 Hz	1	
Thermal protection	2	
Lubricating oil		
Food grade oil (FDA and USDA)	2	
Electrical connection		
Straight cable connector	1	
Elbow stainless steel cable connector	2	
Oil resistant PVC cable	1	
LS halogen-free cable	2	
Other options		
Mechanical backstop	2	
Operation with VFD	2	

Note:

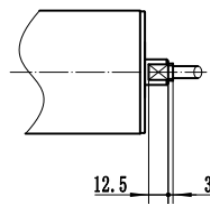
1-fitted as standard 2-optional extras

Standard Dimension

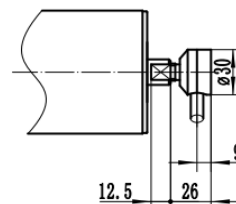
TM80F Drum motor



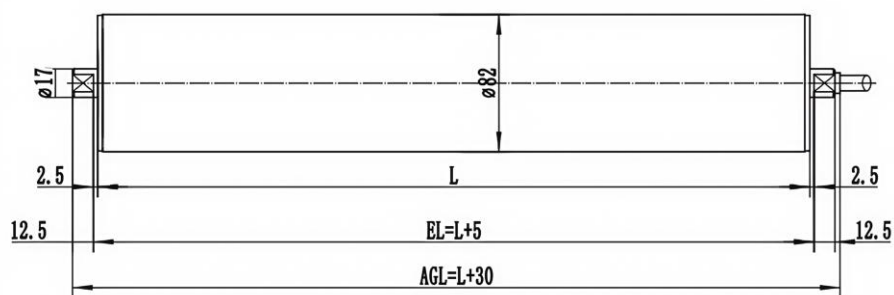
Straight cable connector



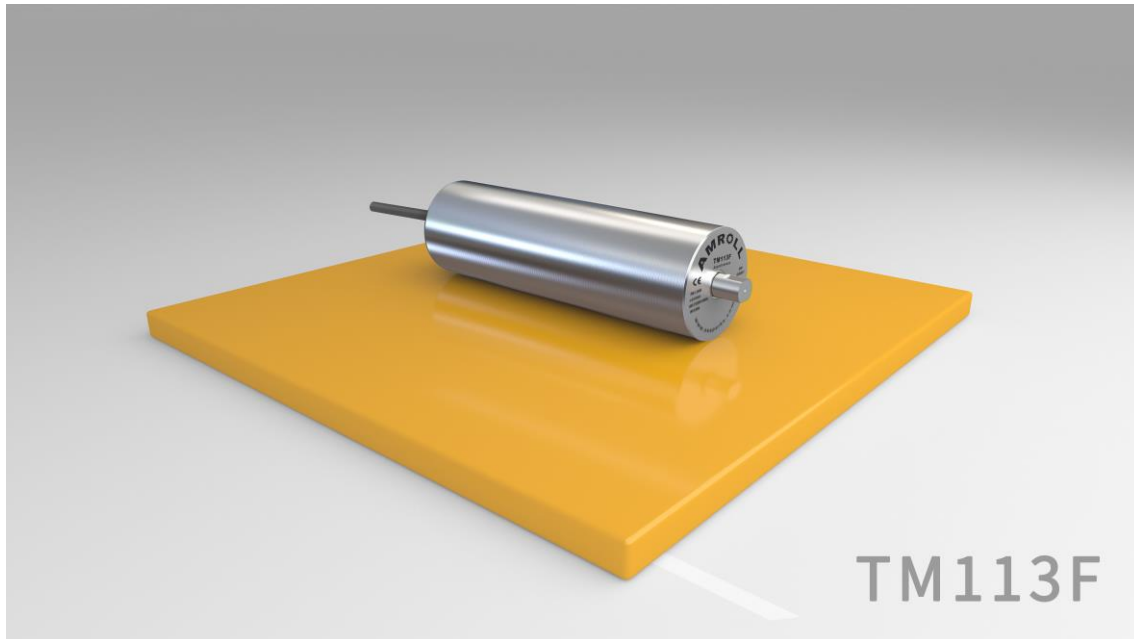
Elbow stainless steel cable connector



UT80F Idler roller



unthreaded



AMROLL DRUM MOTOR--TM113F

TM113F asynchronous oil immersed drum motor, all stainless steel material can meet the strict requirements of sanitary and humid environment. This product meets the requirements of high power operation and low noise in the limited transmission system space. This kind of drum motor is typically used in:

- Food processing conveyor
- Pharmaceutical packaging
- Belt conveyors

TM113F drum motors have the following characters:

Drum motor shell

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

Gear transmission

- Gears machined and honed to AGMA/DIN 6 standards to ensure low noise

Motor

- Common global voltages at 50 Hz or 60 Hz
- AC asynchronous motor
- 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 TM113F-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]
0.12/0.16	4	3	60.66	0.15	49.04	868	0.84	340	13
			49.36	0.18	39.83	705			
			41.07	0.21	35.41	627			
			37.70	0.23	31.87	564			
			31.59	0.27	25.49	451			
			25.70	0.34	21.24	376			
			21.38	0.40	17.68	313			
			19.63	0.44	15.93	282			
		2	15.71	0.55	12.88	230			
			13.07	0.65	10.85	192			
			12.00	0.71	10.34	183			
	6	3	60.66	0.08	79.67	1410	1.00	340	15
			49.36	0.10	63.73	1128			
0.15/0.20	4	3	60.66	0.14	61.30	1085	1.24	340	13
			49.36	0.17	49.78	881			
			41.07	0.21	44.24	783			
			37.70	0.22	39.83	705			
			31.59	0.26	31.87	564			
			25.70	0.33	26.56	470			
			21.38	0.39	22.15	392			
			19.63	0.43	19.94	353			
		2	15.71	0.54	16.27	288			
			13.07	0.64	13.56	240			
			12.00	0.70	12.94	229			
0.18/0.24	4	3	60.66	0.14	73.56	1302	1.40	355	14
			49.36	0.17	59.78	1058			

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]
0.18/0.24	4	3	41.07	0.21	53.11	940	1.40	355	14
			37.70	0.22	47.80	846			
			31.59	0.26	38.25	677			
			25.70	0.33	31.87	564			
			21.38	0.39	26.56	470			
			19.63	0.43	23.90	423			
		2	15.71	0.54	19.49	345			
			13.07	0.64	16.27	288			
			12.00	0.70	15.48	274			
0.23/0.31	4	3	49.36	0.17	76.33	1351	1.67	370	15
			41.07	0.20	67.86	1201			
			37.70	0.22	61.08	1081			
			31.59	0.26	48.87	865			
			25.70	0.32	40.74	721			
			21.38	0.38	33.96	601			
			19.63	0.42	30.57	541			
			15.71	0.53	24.97	442			
		2	13.07	0.63	20.79	368			
			12.00	0.68	19.78	350			

At the min. face width (L), the total weight of a drum motor grows approx.2kg per 100 mm.

AMROLL Drum Motor TM113F-3 *400V/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]
0.12/0.16	4	3	60.66	0.14	49.04	868	0.42	340	10
			49.36	0.17	39.83	705			
			41.07	0.20	35.41	627			
			37.70	0.22	31.87	564			
			31.59	0.27	25.49	451			
			25.70	0.33	21.24	376			
			21.38	0.39	17.68	313			
			19.63	0.43	15.93	282			
		2	15.71	0.54	12.88	230			
			13.07	0.64	10.85	192			
			12.00	0.70	10.34	183			
	6	3	60.66	0.09	79.67	1410	0.67	340	13
			49.36	0.11	63.73	1128			
0.15/0.20	4	3	60.66	0.14	61.30	1085	0.47	340	13
			49.36	0.17	49.78	881			
			41.07	0.20	44.24	783			
			37.70	0.22	39.83	705			
			31.59	0.26	31.87	564			
			25.70	0.32	26.56	470			
			21.38	0.39	22.15	392			
			19.63	0.42	19.94	353			
		2	15.71	0.53	16.27	288			
			13.07	0.64	13.56	240			
			12.00	0.69	12.94	229			
	6	3	49.36	0.11	79.67	1410	0.82	340	15
0.18/0.24	4	3	60.66	0.14	73.56	1302	0.57	340	13
			49.36	0.17	59.78	1058			

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]
0.18/0.24	4	3	41.07	0.20	53.11	940	0.57	340	13
			37.70	0.22	47.80	846			
			31.59	0.26	38.25	677			
			25.70	0.32	31.87	564			
			21.38	0.39	26.56	470			
			19.63	0.42	23.90	423			
		2	15.71	0.53	19.49	345			
			13.07	0.64	16.27	288			
			12.00	0.69	15.48	274			
0.25/0.34	4	3	49.36	0.16	82.99	1469	0.84	355	15
			41.07	0.20	73.73	1305			
			37.70	0.22	66.39	1175			
			31.59	0.26	53.11	940			
			25.70	0.32	44.29	784			
			21.38	0.38	36.89	653			
			19.63	0.42	33.22	588			
		2	15.71	0.52	27.12	480			
			13.07	0.62	22.60	400			
			12.00	0.68	21.47	380			
		3	31.59	0.26	78.60	1391			
			25.70	0.32	65.50	1159			
			21.38	0.38	54.59	966			
			19.63	0.42	49.13	870			
0.37/0.50	4	2	15.71	0.52	40.14	710	1.13	370	15
			13.07	0.62	33.45	592			
			12.00	0.68	31.86	564			

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]
0.55/0.75	2	3	41.07	0.40	81.14	1436	1.24	370	15
			38.50	0.44	73.03	1293			
			31.59	0.53	59.66	1056			
			25.70	0.65	49.72	880			
			21.38	0.79	40.57	718			
			19.63	0.85	36.51	646			
		2	15.71	1.10	29.83	528			
			13.07	1.30	24.86	440			
			12.00	1.40	23.68	419			

At the min. face width (L), the total weight of a drum motor grows approx.2 kg per 100 mm.

TM113F optional list-drum motor/idler pulley

Specifications	Drum motor	Idler pulley
Shell		
Stainless steel(std. 304) crowned	1	1
Stainless steel(std. 304) cylindrical	2	2
Stainless steel(std. 304) cylindrical+ key	2	2
End housing (front & rear)		
Cast stainless steel(std. 304)	1	1
Shaft (front & rear)		
Stainless steel(std. 304)	1	1
Rubber lagging		
Hot vulcanized black smooth rubber lagging	2	2
White and blue rubber lagging in food quality	2	2
Urethane lagging	2	2
Sprockets for modular belting	2	2
V-grooves in the rubber lagging	3	3
Electrical motors		
1 or 3-phase asynchronous motor	1	
Voltage 1*230V/50Hz or 3*400v/50Hz	1	
Dual voltage motor	2	
Most common global voltages at 50 or 60 Hz	1	
Thermal protection	2	
Lubricating oil		
Food grade oil (FDA and USDA)	2	
Electrical connection		
Straight cable connector	1	
Elbow stainless steel cable connector	2	
Terminal box connector	3	
Oil resistant PVC cable	1	
LS halogen-free cable	2	
Screened cable (for VFD and brakes)	3	
Other options		
Mechanical backstop	2	
Electromagnetic brake	2	

Specifications	Drum motor	Idler pulley
Modified for vertical or angled mounting	3	
Operation with VFD	2	

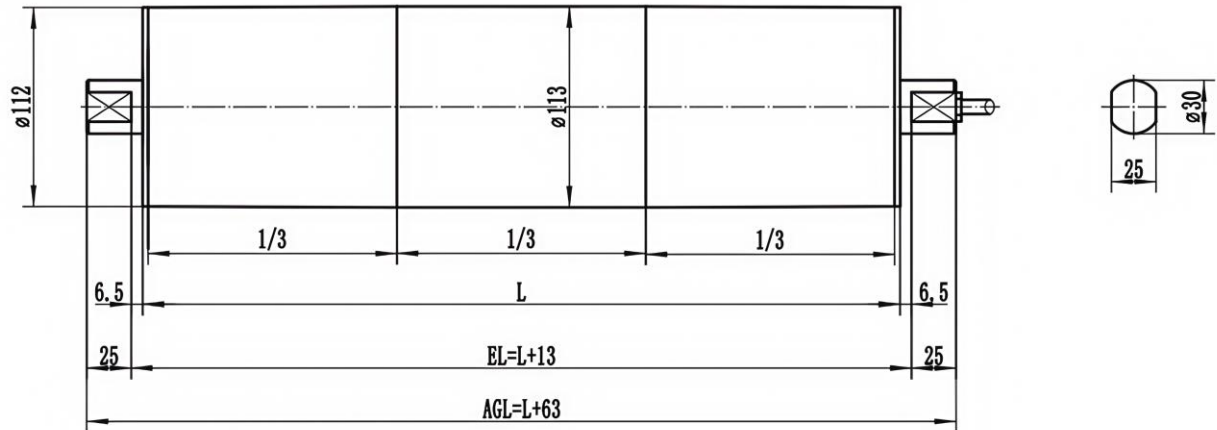
Note:

1-fitted as standard 2-optional extras

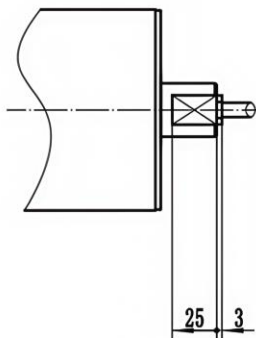
3-available as limited option but need to confirm with manufacturer

Standard Dimension

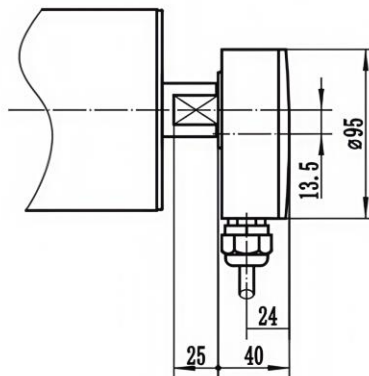
TM113F Drum motor



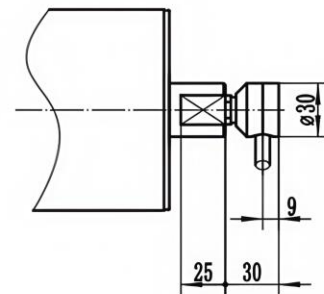
Straight cable connector



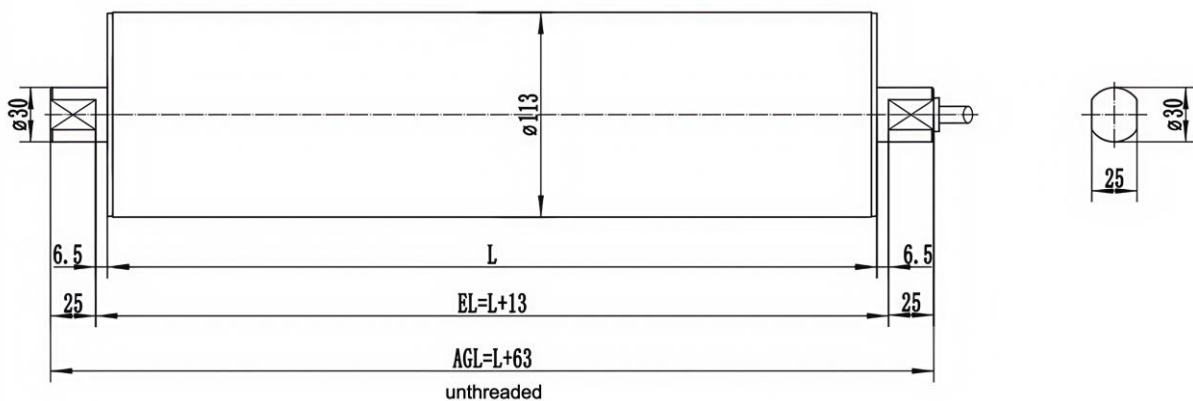
Terminal box connector

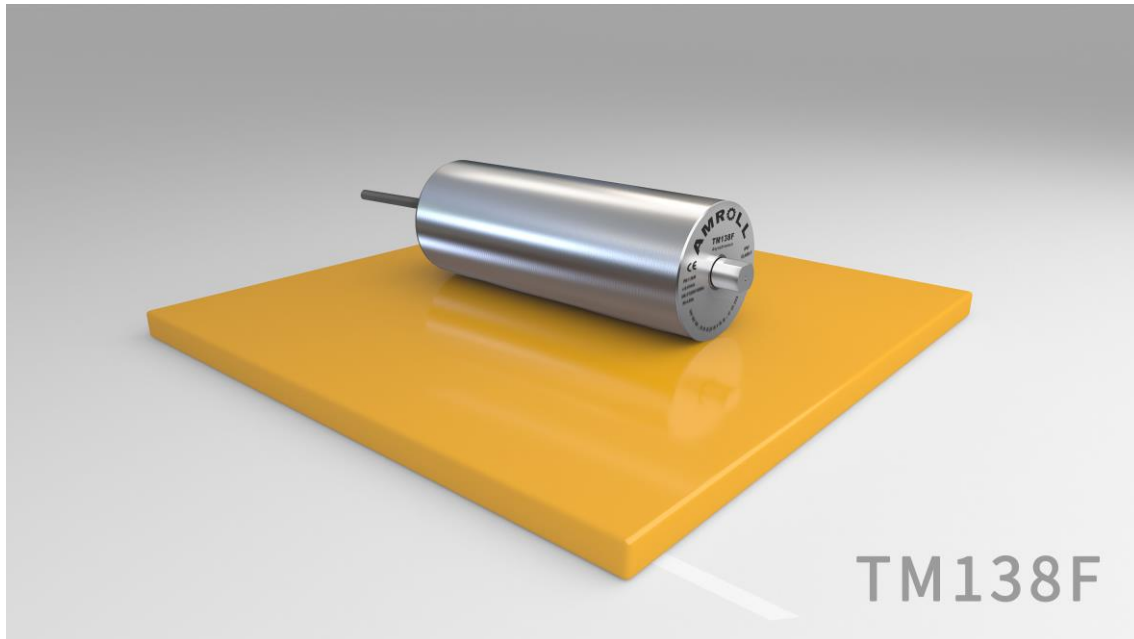


Elbow stainless steel cable connector



UT113F Idler roller





AMROLL DRUM MOTOR--TM138F

TM138F asynchronous oil immersed drum motor, the effective power of the motor is up to 1.10kW. All stainless steel material can meet the strict requirements of sanitary and humid environment. This kind of drum motor is typically used in:

- Medium load belt conveyor
- Meat processing conveyor
- Food processing conveyor
- Packaging machine
- Belt sorting conveyor
- Assembly line
- Belt conveyor for agricultural products
- Warehousing and vehicle loading

TM138F drum motors have the following characters:

Drum motor shell

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

Gear transmission

- Gears machined and honed to AGMA/DIN 6 standards to ensure low noise

Motor

- Common global voltages at 50 Hz or 60 Hz
- AC asynchronous motor
- 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 TM138F-3 *400V/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]
0.25/0.34	6	3	58.87	0.11	162.15	2350	0.99	350	14
			53.21	0.13	135.10	1958			
			48.36	0.14	115.85	1679			
0.37/0.50	2	3	16.87	1.19	21.87	317	0.92	350	14
			15.33	1.32	19.46	282			
	4	3	58.87	0.17	150.01	2174	1.05	350	14
			53.21	0.19	133.31	1932			
			48.36	0.21	119.99	1739			
			37.23	0.28	95.98	1391			
			29.33	0.35	75.00	1087			
			26.51	0.39	66.65	966			
			24.10	0.42	60.03	870			
			18.55	0.55	48.02	696			
		2	16.87	0.60	43.75	634			
			15.33	0.67	38.92	564			
			11.80	0.87	30.64	444			
	6	3	58.87	0.11	239.98	3478	1.50	350	14
			53.21	0.13	199.96	2898			
			48.36	0.14	171.40	2484			
0.55/0.75	2	3	58.87	0.34	111.51	1616	1.28	350	14
			53.21	0.38	99.08	1436			
			48.36	0.42	89.22	1293			
			37.23	0.54	71.35	1034			
			29.33	0.69	55.75	808			
			26.51	0.76	49.54	718			
			24.10	0.84	44.57	646			

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]
0.55/0.75	2	3	18.55	1.10	35.67	517	1.28	350	14
		2	16.87	1.20	32.45	471			
			15.33	1.30	28.91	419			
			11.80	1.70	22.77	330			
	4	3	58.87	0.17	222.94	3231	1.57	400	17
			53.21	0.19	198.17	2872			
			48.36	0.21	178.37	2585			
			37.23	0.27	142.69	2068			
			29.33	0.34	111.51	1616			
			26.51	0.38	99.08	1436			
			24.10	0.42	89.22	1293			
			18.55	0.54	71.35	1034			
		2	16.87	0.60	65.07	943			
			15.33	0.65	57.82	838			
			11.80	0.85	45.54	660			
0.75//1.02	2	3	58.87	0.34	152.01	2203	1.63	400	17
			53.21	0.38	135.10	1958			
			48.36	0.41	121.65	1763			
			37.23	0.54	97.29	1410			
			29.33	0.68	76.04	1102			
			26.51	0.75	67.55	979			
			24.10	0.83	60.79	881			
			18.55	1.08	48.65	705			
		2	16.87	1.18	44.37	643			
			15.33	1.30	39.40	571			
			11.80	1.68	31.05	450			

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]
0.75//1.02	4	3	48.36	0.21	243.23	3525	2.00	400	18
			37.23	0.27	194.58	2820			
			29.33	0.34	152.01	2203			
			26.51	0.38	135.10	1958			
			24.10	0.42	121.65	1763			
			18.55	0.54	97.29	1410			
		2	16.87	0.60	88.73	1286			
			15.33	0.66	78.87	1143			
			11.80	0.85	62.10	900			
1.10/1.50	2	3	48.36	0.41	178.37	2585	2.62	400	18
			37.23	0.54	142.69	2068			
			29.33	0.68	111.50	1616			
			26.51	0.75	99.08	1436			
			24.10	0.83	89.22	1293			
			18.55	1.08	71.35	1034			
		2	16.87	1.18	63.69	923			
			15.33	1.30	57.82	838			
			11.80	1.69	45.54	660			

At the min. face width (L), the total weight of a drum motor grows approx.2.5kg per 100 mm.

TM138F optional list-drum motor/idler pulley

Specifications	Drum motor	Idler pulley
Shell		
Stainless steel(std. 304) crowned	1	1
Stainless steel(std. 304) cylindrical	2	2
Stainless steel(std. 304) cylindrical+ key	2	2
End housing (front & rear)		
Cast stainless steel(std. 304)	1	1
Shaft (front & rear)		
Stainless steel(std. 304)	1	1
Rubber lagging		
Hot vulcanized black smooth rubber lagging	2	2
White and blue rubber lagging in food quality	2	2
Urethane lagging	2	2
Sprockets for modular belting	2	2
V-grooves in the rubber lagging	3	3
Electrical motors		
3-phase asynchronous motor	1	
3*400V/50Hz	1	
Dual voltage motor	2	
Most common global voltages at 50 or 60 Hz	1	
Thermal protection	2	
Lubricating oil		
Food grade oil (FDA and USDA)	2	
Electrical connection		
Straight cable connector	1	
Elbow stainless steel cable connector	2	
Terminal box connector	3	
Oil resistant PVC cable	1	
LS halogen-free cable	2	
Screened cable (for VFD and brakes)	3	
Other options		
Mechanical backstop	2	
Electromagnetic brake	2	

Specifications	Drum motor	Idler pulley
Modified for vertical or angled mounting	3	
Operation with VFD	2	

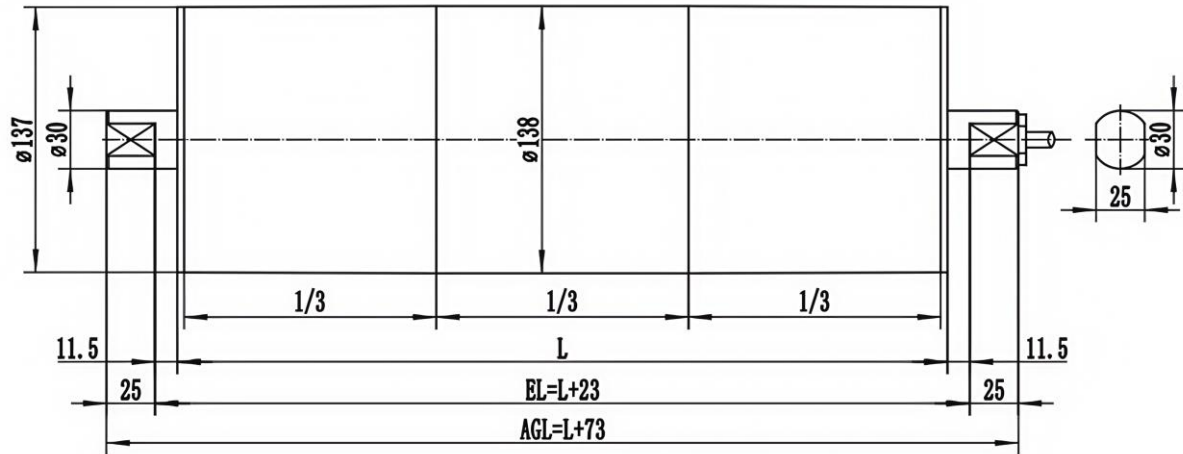
Note:

1-fitted as standard 2-optional extras

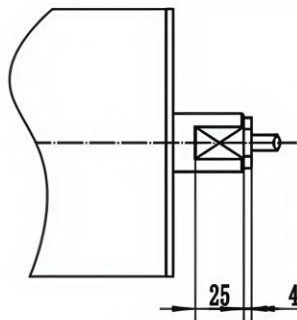
3-available as limited option but need to confirm with manufacturer

Standard Dimension

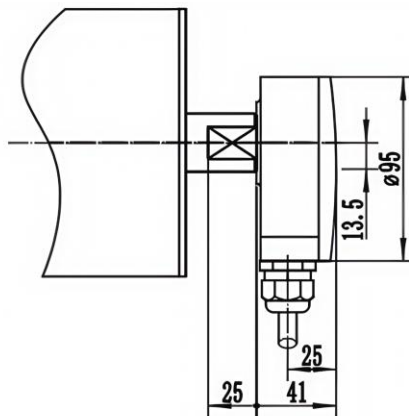
TM138F Drum motor



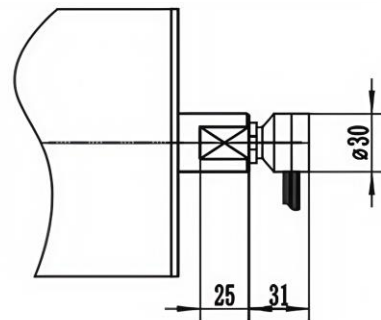
Straight cable connector



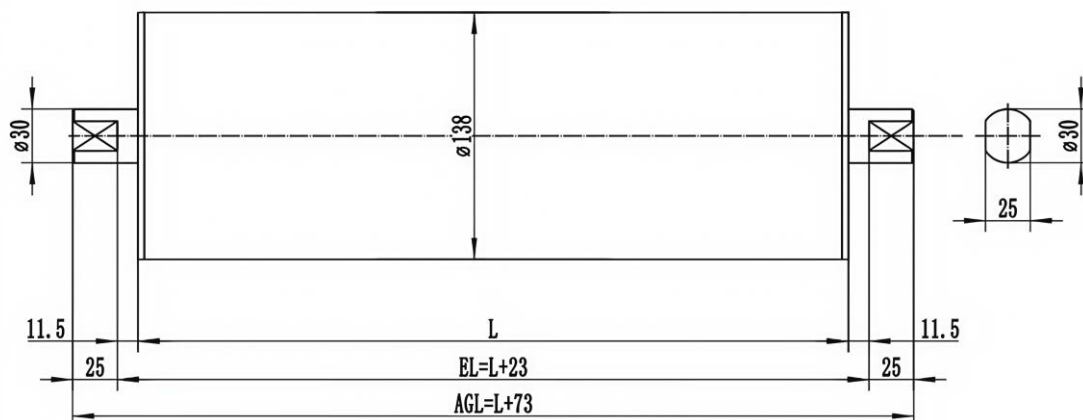
Terminal box connector

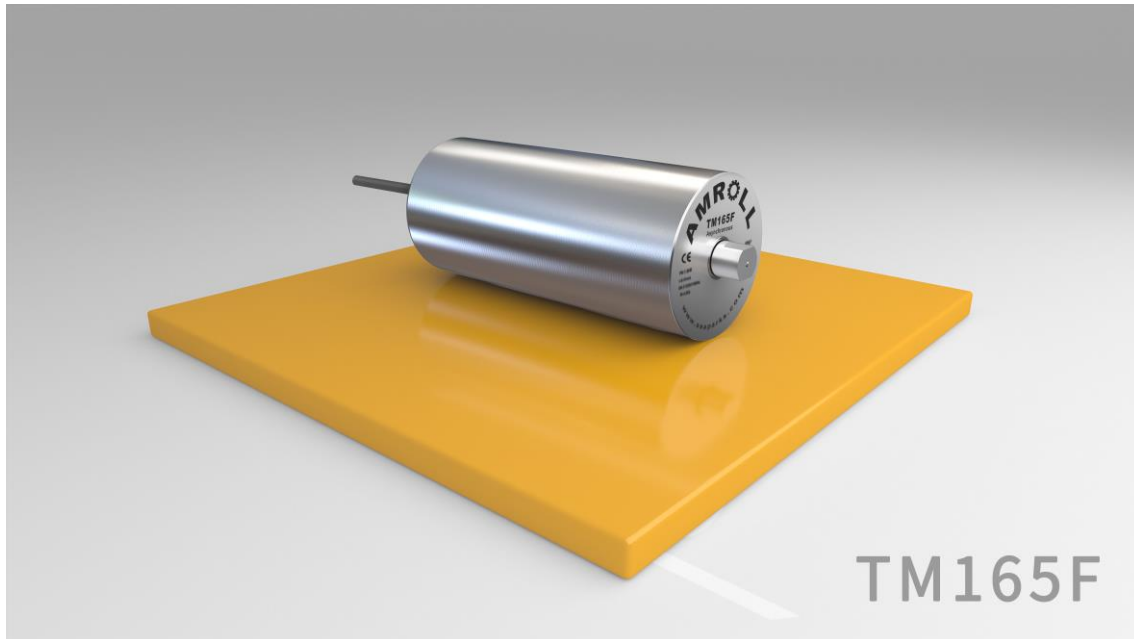


Elbow stainless steel cable connector



UT138F Idler roller

**unthreaded**



AMROLL DRUM MOTOR--TM165F

TM165F asynchronous oil immersed drum motor, It is mainly used for belt conveying equipment with heavy load. With characteristics of strong shape, impact resistance and strong torque, is the best choice of large load conveying equipment. All stainless steel material can meet the strict requirements of sanitary and humid environment. This kind of drum motor is typically used in:

- Meat processing conveyor
- Food processing conveyor
- Packaging machine
- Belt sorting conveyor
- Assembly line
- Belt conveyor for agricultural products
- Warehousing and vehicle loading

TM165F drum motors have the following characters:

Drum motor shell

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

Gear transmission

- Gears machined and honed to AGMA/DIN 6 standards to ensure low noise

Motor

- Common global voltages at 50 Hz or 60 Hz
- AC asynchronous motor
- Motor windings insulation class F
- 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 TM165F-3 *400V/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]
0.25/ 0.34	8	3	62.37	0.10	193.88	2350	1.32	400	36
			46.56	0.13	149.13	1808			
			39.31	0.16	121.17	1469			
			28.71	0.21	96.94	1175			
			24.23	0.25	77.55	940			
		2	19.64	0.31	61.88	750			
			14.66	0.42	49.50	600			
			12.38	0.50	39.60	480			
0.37/ 0.50	4	3	62.37	0.20	143.47	1739	0.98	400	36
			46.56	0.26	114.77	1391			
			39.31	0.31	89.67	1087			
			28.71	0.42	71.73	870			
			24.23	0.50	57.39	696			
		2	19.64	0.62	46.51	564			
			14.66	0.82	36.63	444			
			12.38	1.00	29.30	355			
			12.38	1.00	29.30	355			
	6	3	62.37	0.13	220.72	2675	1.25	400	36
			46.56	0.17	168.79	2046			
		3	62.37	0.10	286.94	3478	1.58	450	43
			46.56	0.13	220.72	2675			
			39.31	0.16	179.33	2174			
			28.71	0.21	143.47	1739			
			24.23	0.25	114.77	1391			
			19.64	0.31	91.58	1110			
			14.66	0.41	73.26	888			
			12.38	0.50	58.61	710			

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]
0.55/ 0.75	4	3	62.37	0.19	213.26	2585	1.45	400	36
			46.56	0.26	170.61	2068			
			39.31	0.31	133.29	1616			
			28.71	0.42	106.63	1293			
			24.23	0.50	85.31	1034			
		2	19.64	0.61	69.14	838			
			14.66	0.82	54.45	660			
			12.38	1.00	43.56	528			
	6	3	62.37	0.13	328.10	3977	1.76	450	43
			46.56	0.17	250.90	3041			
0.75/ 1.02	4	3	62.37	0.20	290.81	3525	2.00	400	36
			46.56	0.27	232.65	2820			
			39.31	0.32	181.76	2203			
			28.71	0.43	145.41	1763			
			24.23	0.51	116.33	1410			
		2	19.64	0.63	94.29	1143			
			14.66	0.84	74.25	900			
			12.38	1.00	59.40	720			
	6	3	46.56	0.17	342.13	4147	2.23	450	43
1.10/ 1.50	2	3	62.37	0.40	133.29	1616	2.24	400	36
			46.56	0.54	106.63	1293			
			39.31	0.63	213.26	2585			
			28.71	0.87	170.61	2068			
			24.23	1.03	85.31	1034			
		2	19.64	1.26	69.14	838			
			14.66	1.70	54.45	660			
			12.38	2.00	43.56	528			

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]
1.10/ 1.50	4	3	46.56	0.26	341.22	4136	2.83	450	43
			39.31	0.31	266.58	3232			
			28.71	0.43	213.26	2585			
			24.23	0.50	170.61	2068			
		2	19.64	0.62	133.29	1616			
			14.66	0.83	106.63	1293			
			12.38	1.00	85.31	1034			
1.50/ 2.00	2	3	46.56	0.53	220.25	2670	3.55	470	51
			39.31	0.62	197.58	2395			
			28.71	0.85	144.27	1749			
			24.23	1.00	121.81	1476			
		2	19.64	1.25	94.79	1149			
			14.66	1.68	73.67	893			
			12.38	2.00	62.20	754			
	4	3	28.71	0.43	290.81	3525	3.55	450	43
			24.23	0.51	232.65	2820			
		2	19.64	0.63	188.57	2286			
			14.66	0.84	148.50	1800			
			12.38	1.00	118.80	1440			
2.20/ 3.00	2	3	46.56	0.53	341.22	4136	4.33	450	43
			39.31	0.62	266.58	3231			
			28.71	0.85	213.26	2585			
			24.23	1.00	170.61	2068			
		2	19.64	1.25	138.29	1676			
			14.66	1.68	108.90	1320			
			12.38	2.00	87.12	1056			

At the min. face width (L), the total weight of a drum motor grows approx.3.8kg per 100 mm.

TM165F optional list-drum motor/idler pulley

Specifications	Drum motor	Idler pulley
Shell		
Stainless steel(std. 304) crowned	1	1
Stainless steel(std. 304) cylindrical	2	2
Stainless steel(std. 304) cylindrical+ key	2	2
End housing (front & rear)		
Cast stainless steel(std. 304)	1	1
Shaft (front & rear)		
Stainless steel(std. 304)	1	1
Rubber lagging		
Hot vulcanized black smooth rubber lagging	2	2
White and blue rubber lagging in food quality	2	2
Urethane lagging	2	2
Sprockets for modular belting	2	2
V-grooves in the rubber lagging	3	3
Electrical motors		
3-phase asynchronous motor	1	
3*400V/50Hz	1	
Dual voltage motor	2	
Most common global voltages at 50 or 60 Hz	1	
Thermal protection	2	
Lubricating oil		
Food grade oil (FDA and USDA)	2	
Electrical connection		
Straight cable connector	1	
Elbow stainless steel cable connector	2	
Terminal box connector	3	
Oil resistant PVC cable	1	
LS halogen-free cable	2	
Screened cable (for VFD and brakes)	3	
Other options		
Mechanical backstop	2	
Electromagnetic brake	2	
Modified for vertical or angled mounting	3	

Specifications	Drum motor	Idler pulley
Operation with VFD	2	

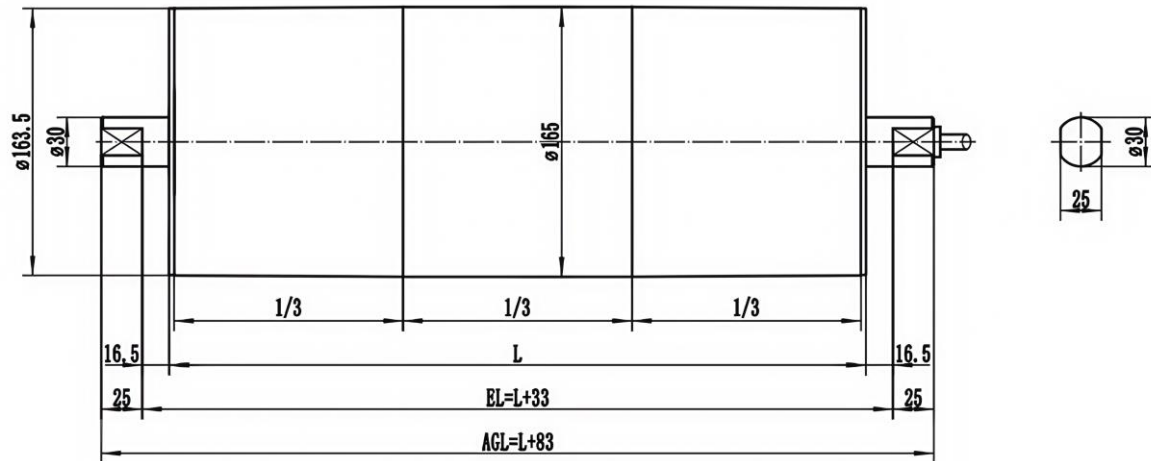
Note:

1-fitted as standard 2-optional extras

3-available as limited option but need to confirm with manufacturer

Standard Dimension

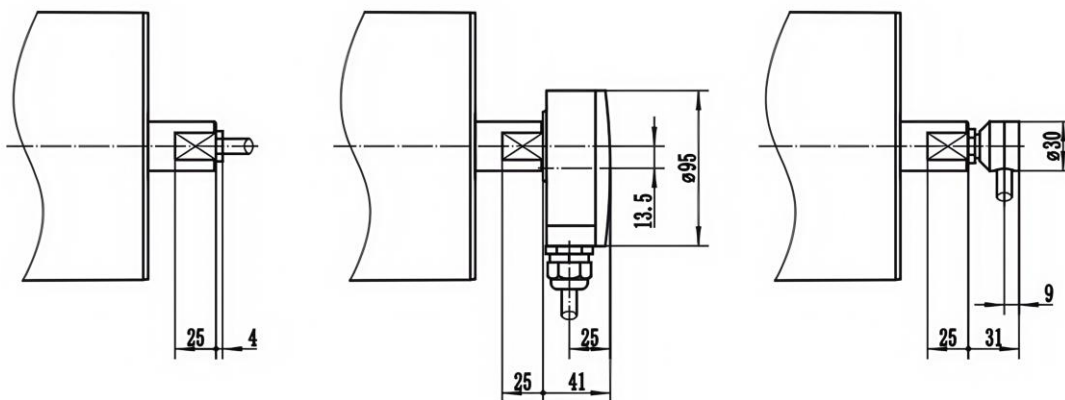
TM165F Drum motor



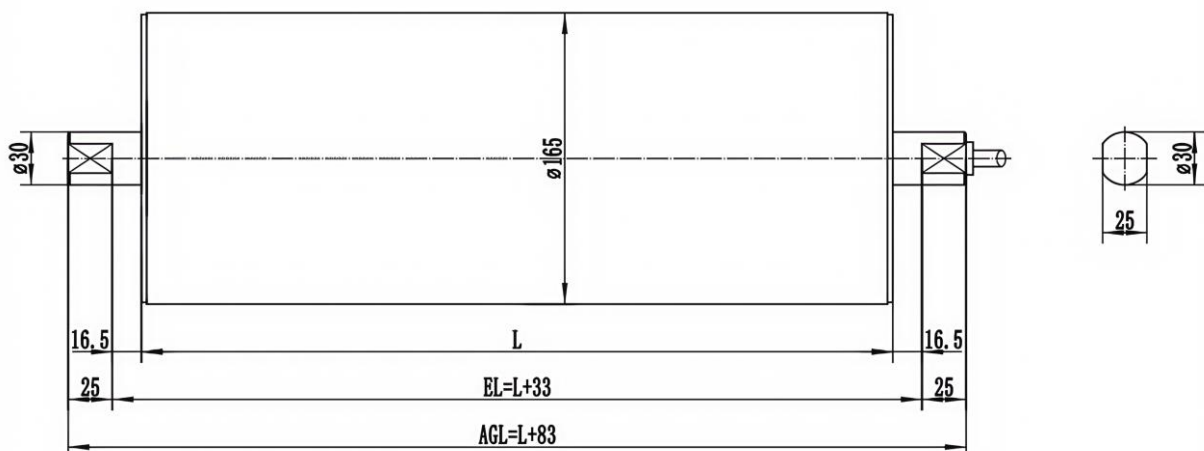
Straight cable connector

Terminal box connector

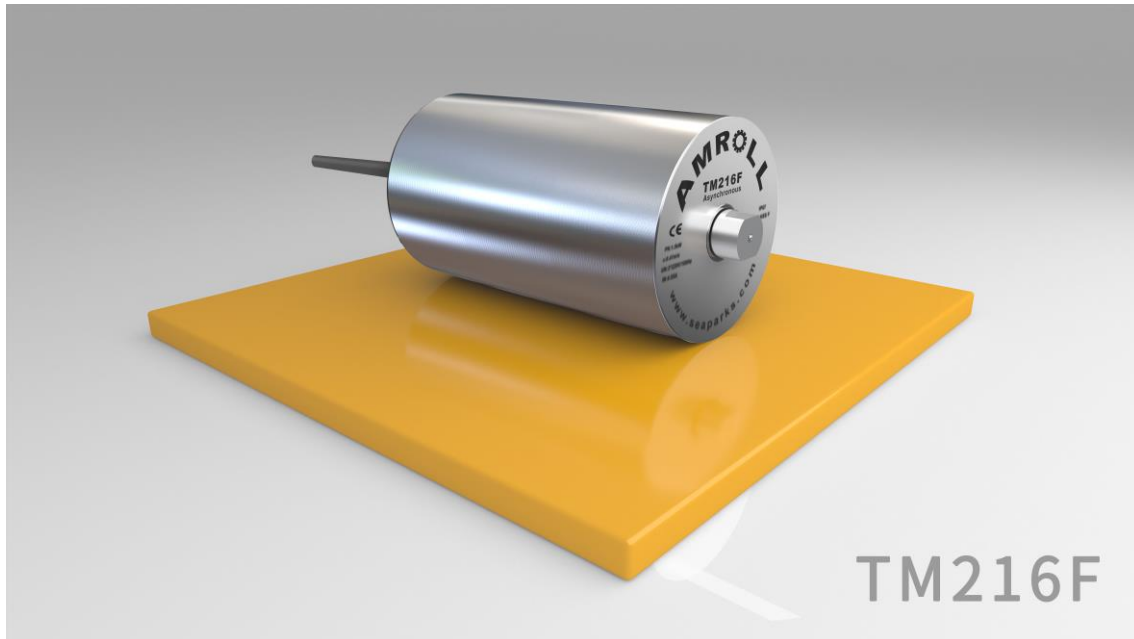
Elbow stainless steel cable connector



UT165F Idler roller



unthreaded



AMROLL DRUM MOTOR--TM216F

TM216F asynchronous oil immersed drum motor, It is a heavy roller designed for conveying single heavy items or bulk materials, Its power range is 0.37kw to 4.0kw, all stainless steel material can meet the strict requirements of sanitary and humid environment. This kind of drum motor is typically used in:

- Slaughter conveyors
- Food processing conveyor
- Belt conveyor for agricultural products
- Steep incline conveyors

TM216F drum motors have the following characters:

Drum motor shell

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

Gear transmission

- Gears machined and honed to AGMA/DIN 6 standards to ensure low noise

Motor

- Common global voltages at 50 Hz or 60 Hz
- AC asynchronous motor
- Motor windings insulation class F
- 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 TM216F-3 *400V/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]
0.37/0.50	8	3	77.33	0.11	375.62	3478	1.64	510	56
			63.18	0.13	288.94	2675			
			48.58	0.17	234.77	1274			
			41.26	0.20	187.81	1739			
			31.73	0.26	150.25	1391			
		2	24.61	0.34	119.88	1110			
			20.11	0.42	95.90	888			
			15.46	0.54	76.72	710			
0.55/0.75	8	3	77.33	0.10	558.36	5170	1.67	510	58
			63.18	0.13	429.51	3977			
			48.58	0.16	348.98	3231			
			41.26	0.19	279.18	2585			
			31.73	0.25	223.34	2068			
		2	24.61	0.32	178.20	1650			
			20.11	0.40	142.56	1320			
			15.46	0.51	114.05	1056			
0.75/1.02	8	3	63.18	0.13	585.69	5423	2.38	510	58
			48.58	0.16	475.88	4406			
			41.26	0.19	380.70	3525			
			31.73	0.25	304.56	2820			
		2	24.61	0.32	243.00	2250			
			20.11	0.40	194.40	1800			
			15.46	0.51	155.52	1440			
1.10/1.50	4	3	77.33	0.21	558.36	5179	2.27	510	58
			63.18	0.26	446.69	4136			
			48.58	0.34	348.98	3231			

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]
1.10/1.50	4	3	41.26	0.40	279.18	2585			
			31.73	0.52	228.10	2112			
		2	24.61	0.67	181.03	1676			
			20.11	0.82	142.56	1320			
			15.46	1.10	114.05	1056			
	6	3	63.18	0.17	670.87	6212	2.86	510	61
			48.58	0.22	558.36	5179			
			41.26	0.26	446.69	4136			
			31.73	0.34	348.98	3231			
		2	24.61	0.44	279.18	2585			
			20.11	0.54	228.10	2112			
			15.46	0.70	181.03	1676			
1.50/2.04	4	3	63.18	0.26	609.12	5640	2.87	510	61
			48.58	0.34	475.88	4406			
			41.26	0.40	380.70	3525			
			31.73	0.52	304.56	2820			
		2	24.61	0.66	246.86	2285			
			20.11	0.81	194.40	1800			
			15.46	1.10	155.52	1440			
2.20/3.00	4	3	48.58	0.34	698.00	6463	4.86	510	62
			41.26	0.40	558.36	5170			
			31.73	0.52	446.69	4136			
		2	24.61	0.66	362.06	3352			
			20.11	0.81	285.12	2640			
			15.46	1.10	228.10	2112			
3.50/4.76	4	3	31.73	0.52	609.12	5640	7.69	510	73
		2	24.61	0.67	475.88	4406			

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]
3.50/4.76	4	2	20.11	0.81	380.70	3525	7.69	510	73
			15.46	1.10	304.56	2820			
4.00/5.44	2	3	41.26	0.80	507.60	4700	8.63	510	73
			31.73	1.00	406.08	3760			
		2	24.61	1.32	329.14	3048			
			20.11	1.60	259.20	2400			
			15.46	2.10	207.36	1920			

At the min. face width (L), the total weight of a drum motor grows approx.5kg per 100 mm.

TM216F optional list-drum motor/idler pulley

Specifications	Drum motor	Idler pulley
Shell		
Stainless steel(std. 304) crowned	1	1
Stainless steel(std. 304) cylindrical	2	2
Stainless steel(std. 304) cylindrical+ key	2	2
End housing (front & rear)		
Cast stainless steel(std. 304)	1	1
Shaft (front & rear)		
Stainless steel(std. 304)	1	1
Rubber lagging		
Hot vulcanized black smooth rubber lagging	2	2
White and blue rubber lagging in food quality	2	2
Urethane lagging	2	2
Sprockets for modular belting	2	2
V-grooves in the rubber lagging	3	3
Electrical motors		
3-phase asynchronous motor	1	
3*400V/50Hz	1	
Dual voltage motor	2	
Most common global voltages at 50 or 60 Hz	1	
Thermal protection	2	
Lubricating oil		
Food grade oil (FDA and USDA)	2	
Electrical connection		
Straight cable connector	1	
Elbow stainless steel cable connector	2	
Terminal box connector	3	
Oil resistant PVC cable	1	
LS halogen-free cable	2	
Screened cable (for VFD and brakes)	3	
Other options		
Mechanical backstop	2	
Electromagnetic brake	2	

Specifications	Drum motor	Idler pulley
Modified for vertical or angled mounting	3	
Operation with VFD	2	

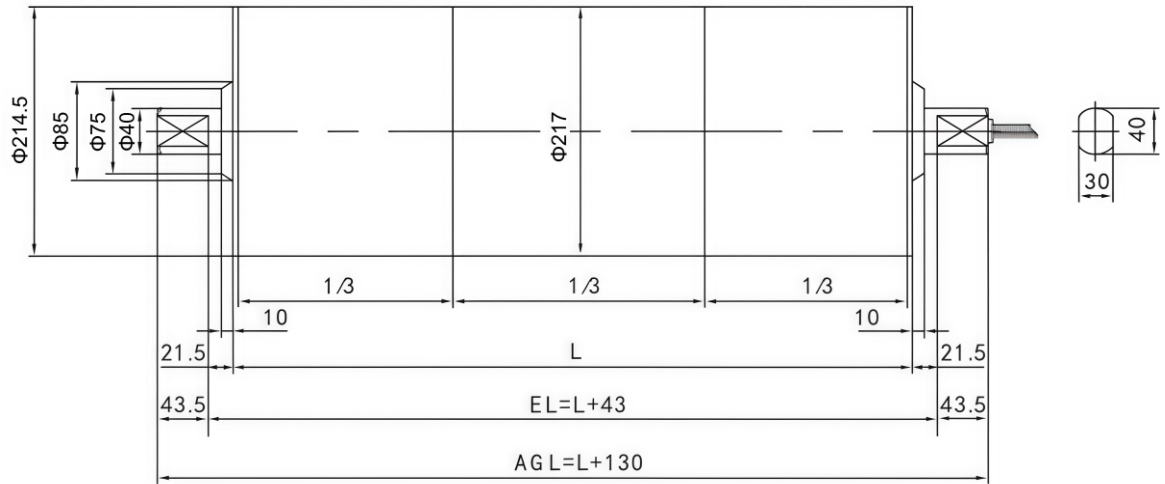
Note:

1-fitted as standard 2-optional extras

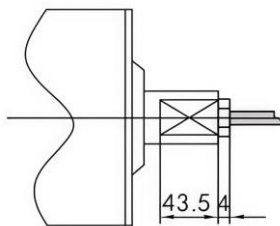
3-available as limited option but need to confirm with manufacturer

Standard Dimension

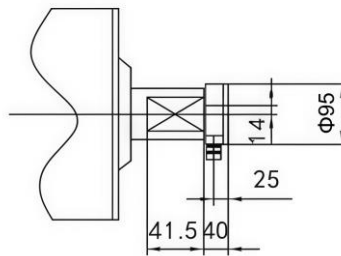
TM216F Drum motor



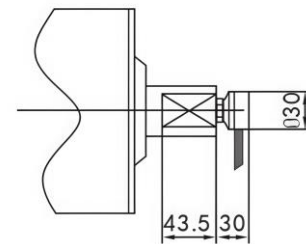
Straight cable connector



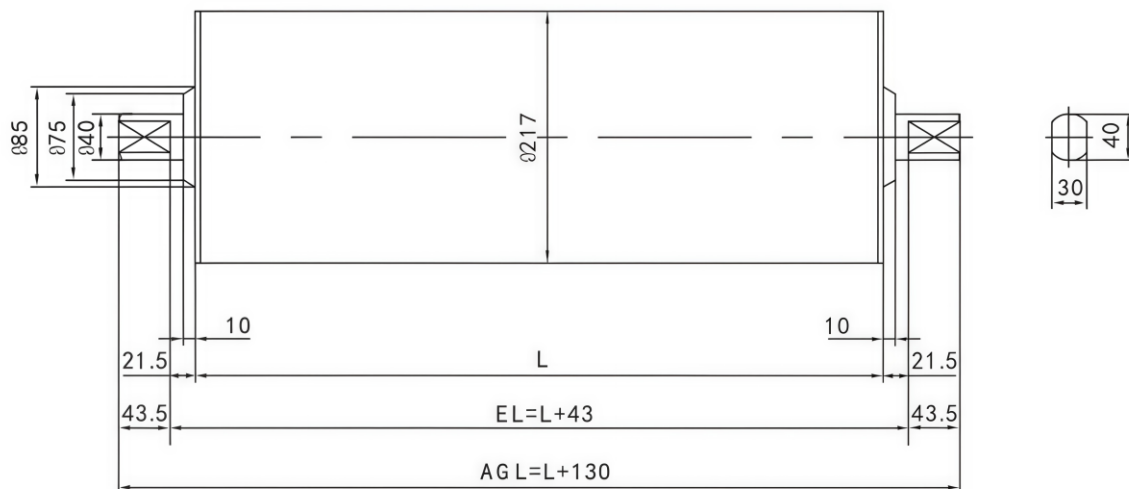
Terminal box connector



Elbow stainless steel cable connector



UT216F Idler roller



unthreaded