

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			
	4	3	11.81	0.95	2.96	71			
			55.11	0.10	28.91	705	0.36	320	6
			37.89	0.15	19.27	470			
74.79	0.16	23.13	587						
0.09/0.12	2	3	55.11	0.22	16.52	403	0.43	350	6
			37.89	0.32	11.56	283			
			28.95	0.41	8.86	212			
		2	21.33	0.56	6.55	157			
			14.67	0.82	4.43	106			
			11.81	1.01	3.55	85			
			55.11	0.22	22.02	538			
0.12/0.16	2	3	37.89	0.32	15.42	376	0.53	350	6
			28.95	0.42	11.82	284			
		2	21.33	0.56	8.74	208			
			14.67	0.82	5.90	142			
			11.81	1.02	4.72	112			
			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

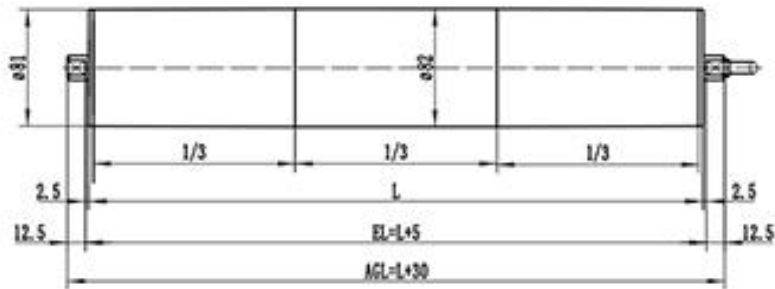
Specifications	Drum motor	Idler pulley
Shell		
Stainless steel(std. 304) crowned	1	1
Stainless steel(std. 304) cylindrical	2	2
Stainless steel(std. 304) cylindrical+ key	2	2
End housing (front & rear)		
Cast stainless steel(std. 304)	1	1
Shaft (front & rear)		
Stainless steel(std. 304)	1	1
Electrical 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	1	
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

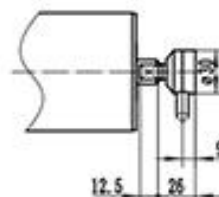
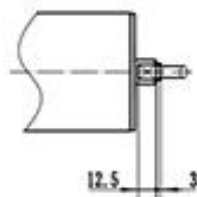
Standard Dimension

TM80F Drum motor

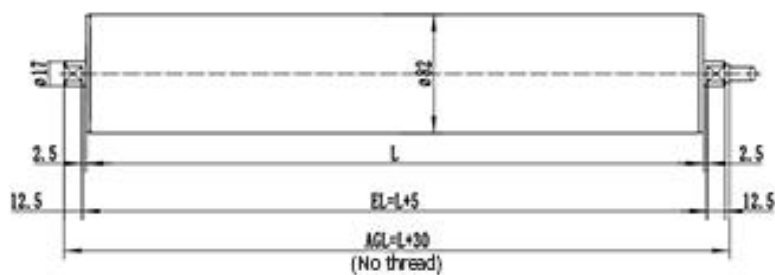


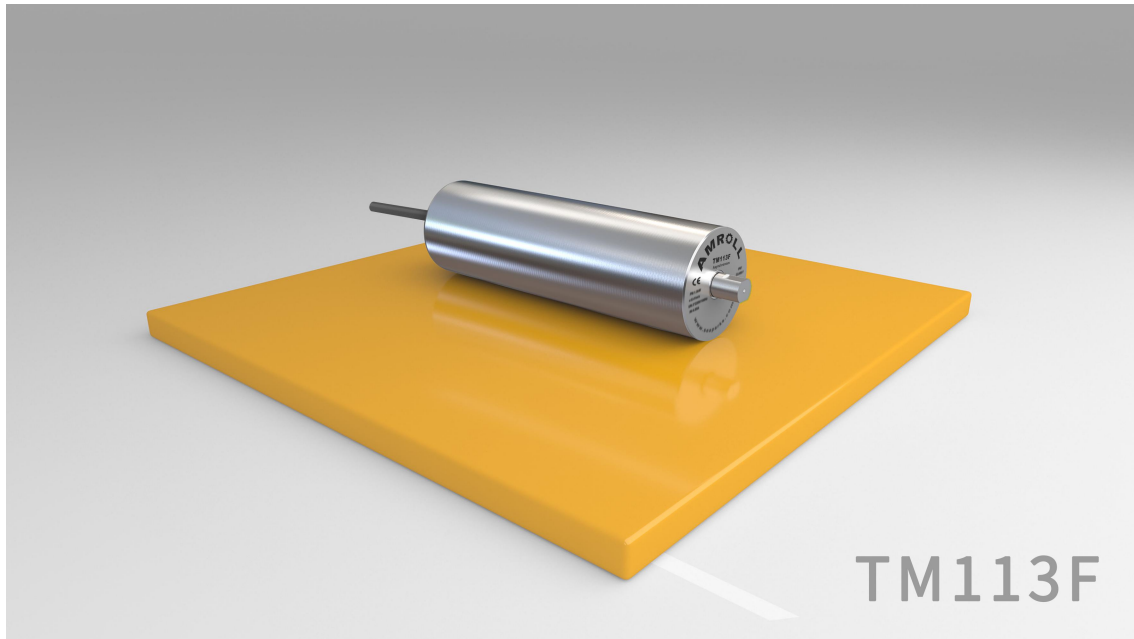
Straight cable connector

Elbow stainless steel cable connector



TM80F Idler roller





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	3	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	3	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]	
			41.07	0.21	53.11	940				
			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					
			2	15.71	0.53	24.97				442
				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
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			

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	60.66	0.14	73.56	1302	0.57	340	13
			49.36	0.17	59.78	1058			
			41.07	0.20	53.11	940			
			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			
0.37/0.50	4	3	31.59	0.26	78.60	1391	1.13	370	15
			25.70	0.32	65.50	1159			
			21.38	0.38	54.59	966			
			19.63	0.42	49.13	870			
		2	15.71	0.52	40.14	710			
			13.07	0.62	33.45	592			

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]
			12.00	0.68	31.86	564			
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	1	
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	

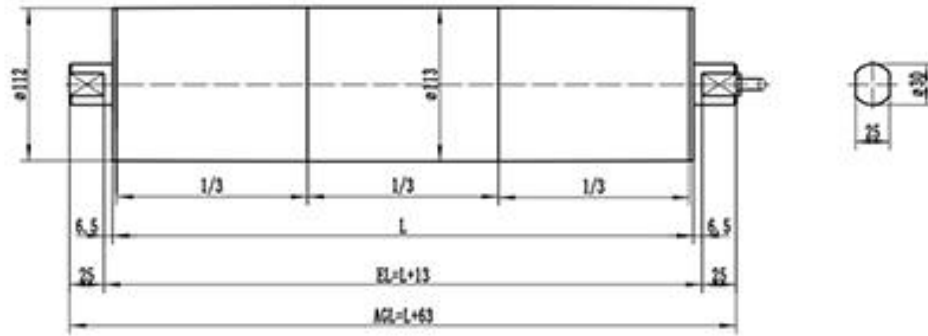
Note:

1-fitted as standard 2-optional extras

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

Standard Dimension

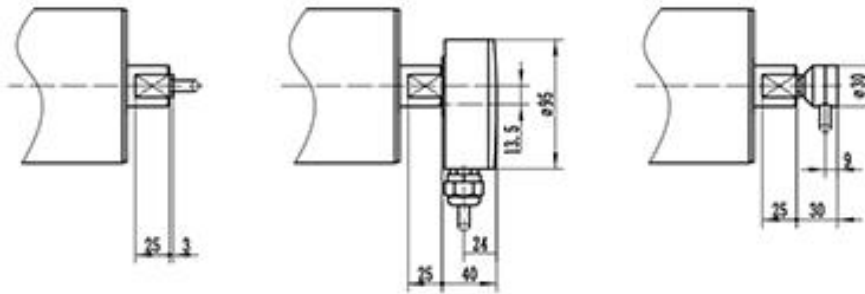
TM113F Drum motor



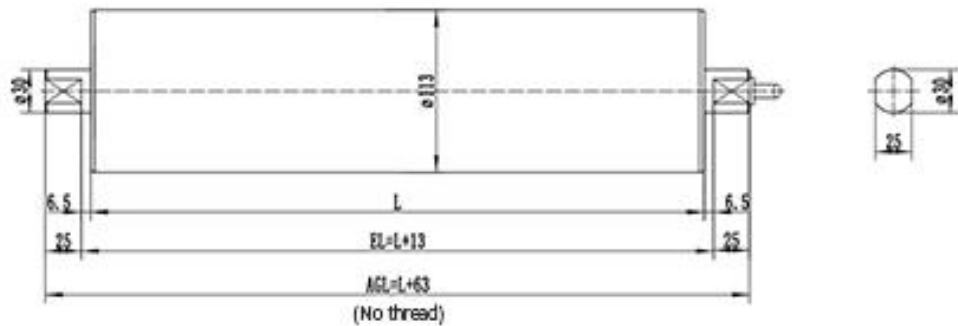
Straight cable connector

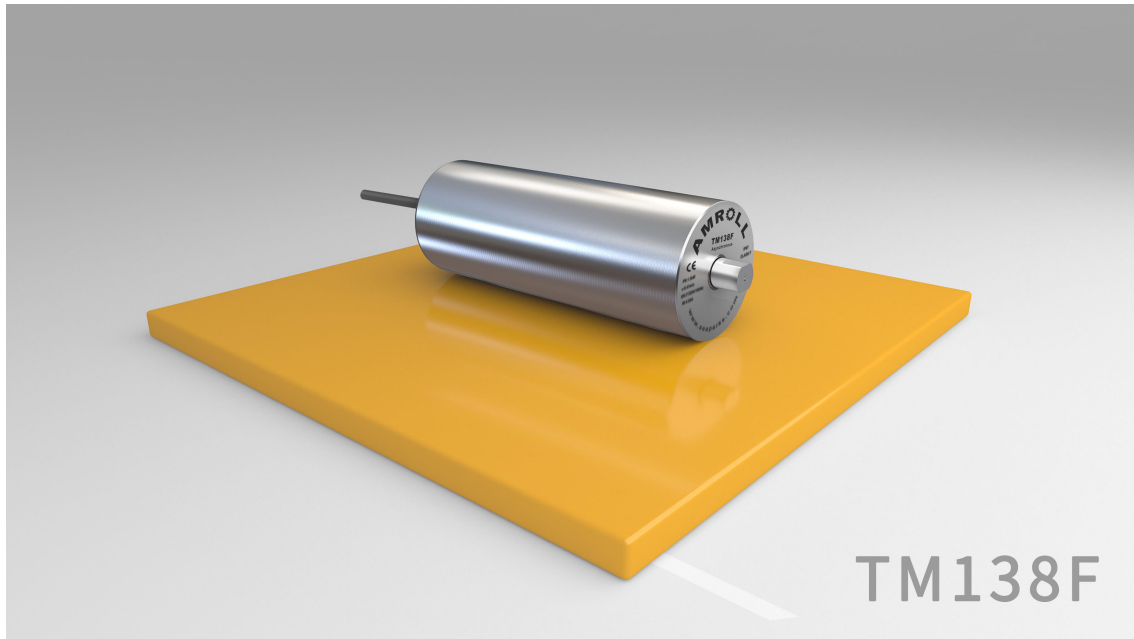
Terminal box connector

Elbow stainless steel cable connector



TM113F 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 conveyer
- Meat processing conveyer
- Food processing conveyer
- Packaging machine
- Belt sorting conveyer
- Assembly line
- Belt conveyer 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	2	16.87	0.60			
	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]	
			18.55	1.10	35.67	517				
		2	16.87	1.20	32.45	471				
			15.33	1.30	28.91	419				
		2	11.80	1.70	22.77	330				
			58.87	0.17	222.94	3231				
	4	3	53.21	0.19	198.17	2872	1.57	400	17	
			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				
			4	3	48.36	0.21				243.23

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]
			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			
			16.87	0.60	88.73	1286			
		2	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	1	
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	

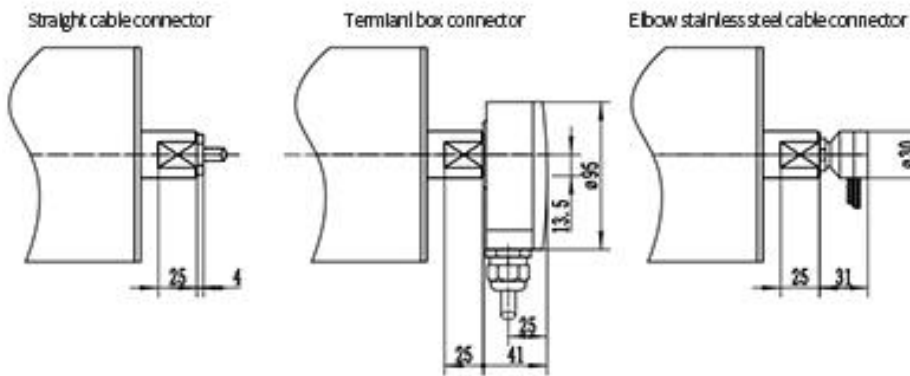
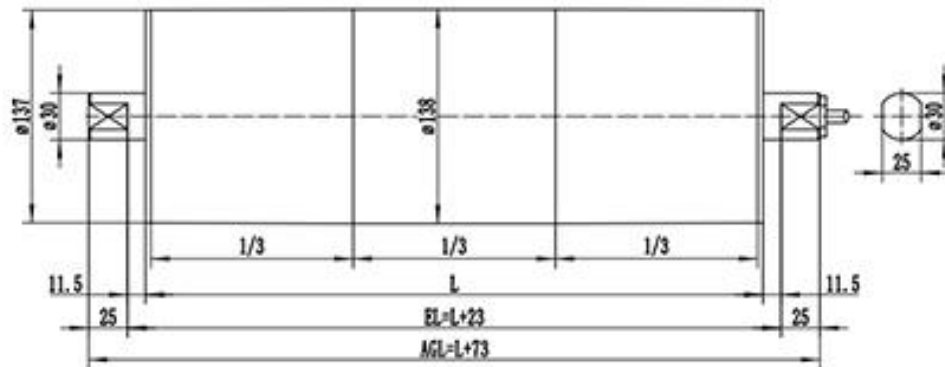
Note:

1-fitted as standard 2-optional extras

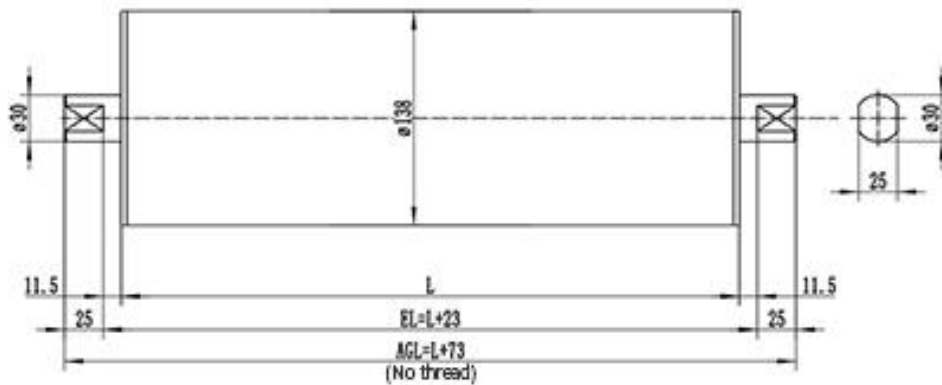
3-available as limited option but need to confirm with manufacturer

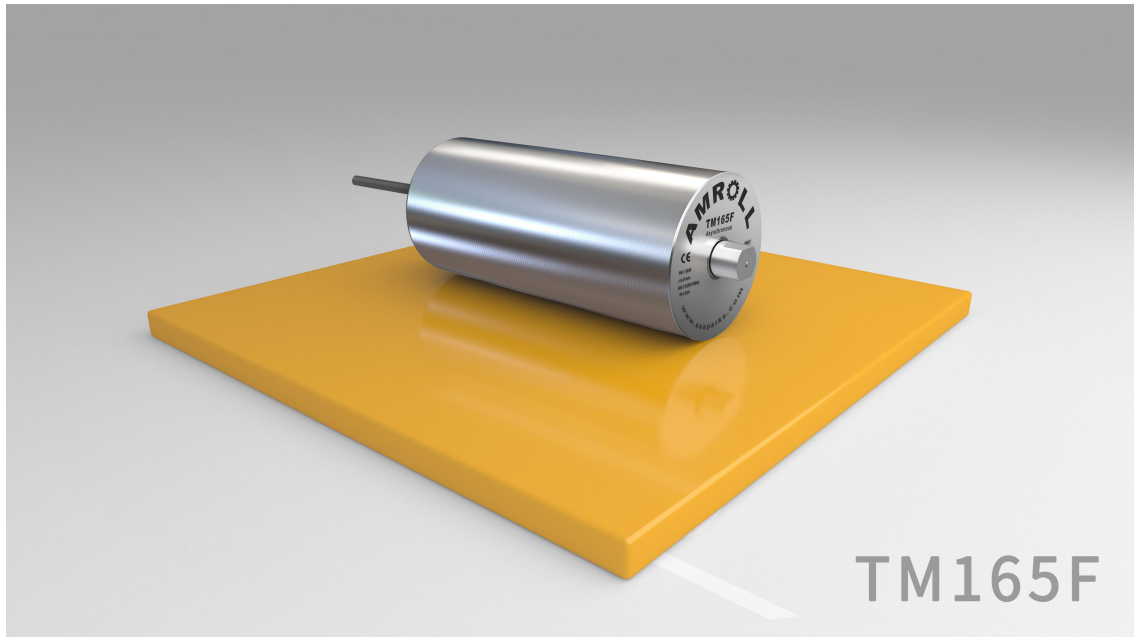
Standard Dimension

TM138F Drum motor



TM138F Idler roller





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							
		6	3	62.37	0.13	220.72				2675	1.25	400	36
				46.56	0.17	168.79				2046			
	8		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						
			2	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
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]
	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			
		2	24.23	0.50	170.61	2068			
			19.64	0.62	133.29	1616			
			14.66	0.83	106.63	1293			
12.38	1.00	85.31	1034						
1.50/ 2.04	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			
			46.56	0.53	341.22	4136			
2.20/ 3.00	2	3	39.31	0.62	266.58	3231	4.33	450	43
			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	1	
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	

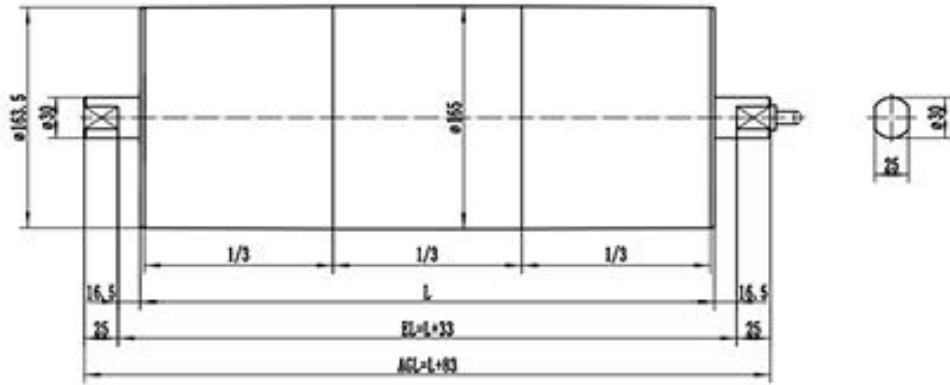
Note:

1-fitted as standard 2-optional extras

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

Standard Dimension

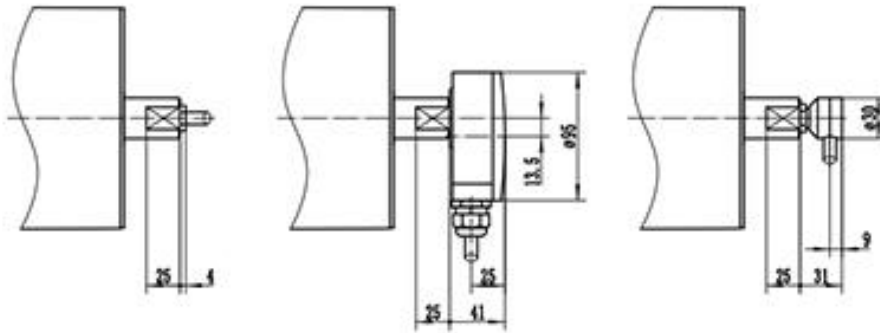
TM165F Drum motor



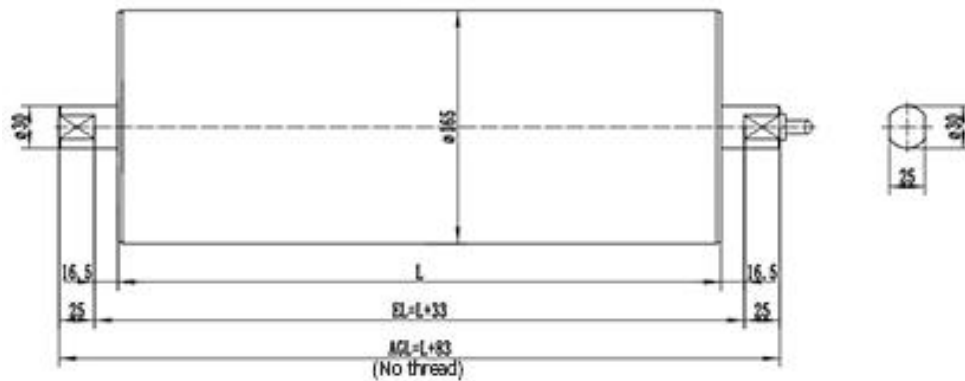
Straight cable connector

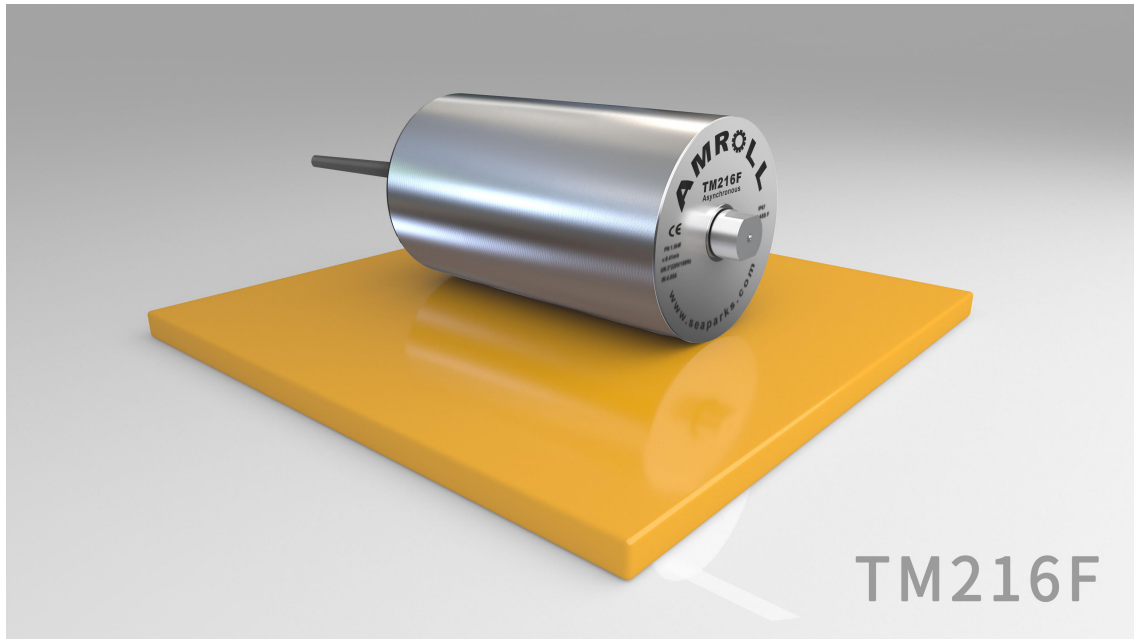
Terminal box connector

Elbow stainless steel cable connector



TM165F Idler roller





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]
			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			
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]
			20.11	0.81	380.70	3525			
			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	1	
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	

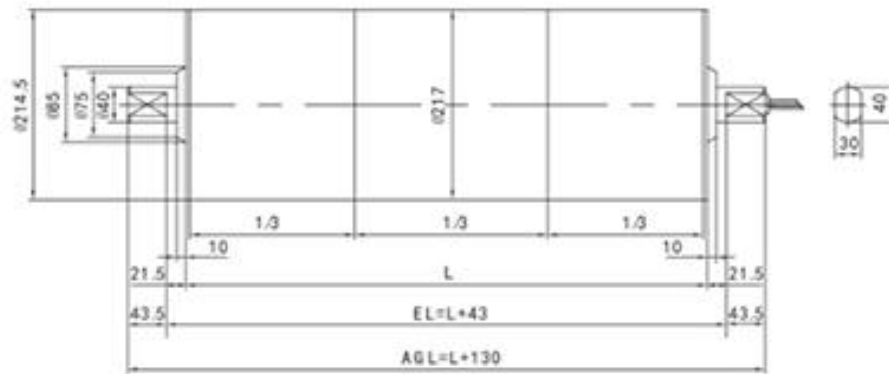
Note:

1-fitted as standard 2-optional extras

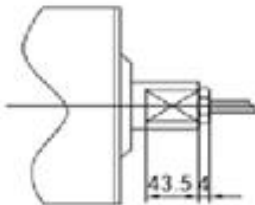
3-available as limited option but need to confirm with manufacturer

Standard Dimension

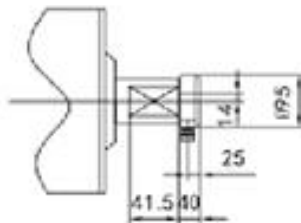
TM216F Drum motor



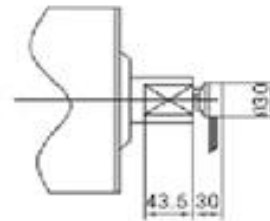
Straight cable connector



Temlani box connector



Elbow stainless steel cable connector



TM216F Idler roller

