

TM138H

AMROLL DRUM MOTOR--TM138H

TM138H asynchronous oil immersed drum motor. It is mainly used for belt conveying equipment with medium load, the effective power of its motor is up to 1.10kW. The heavy design makes TM138H more suitable for the belt conveying industry with harsh operating conditions. This kind of drum motor is typically used in:

- E-commerce express
- Belt conveyor for agricultural products
- Belt conveyors
- X-ray machines
- Airport

TM138H 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

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

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 TM138H-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	149.09	2161	0.99	390	24	
			53.21	0.13	135.10	1958				
			48.36	0.14	122.47	1775				
0.37/ 0.50	2	2	16.87	1.19	21.87	317	0.92	330	22	
			15.33	1.32	19.46	282				
	4	3	58.87	0.17	143.38	2078	1.05	330	22	
			53.21	0.19	129.59	1878				
			48.36	0.21	119.99	1739				
			37.23	0.28	90.67	1314				
			29.33	0.35	71.44	1035				
			26.51	0.39	64.57	936				
			24.10	0.42	60.03	870				
	6	2	18.55	0.55	45.18	655	1.05	330	22	
			16.87	0.60	41.51	602				
			15.33	0.67	38.92	564				
	6	3	3	11.80	0.87	30.64	444	1.50	390	24
				58.87	0.11	219.92	3187			
				53.21	0.13	199.96	2898			
0.55/0.75	2	3	48.36	0.14	180.65	2618	1.28	330	22	
			58.87	0.34	107.96	1565				
			53.21	0.38	99.08	1436				
			48.36	0.42	89.22	1293				
			37.23	0.54	68.27	989				
			29.33	0.69	55.75	808				
26.51	0.76	49.54	718							

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	24.10	0.84	44.57	646	1.28	330	22
			18.55	1.10	35.67	517			
		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	217.07	3146	1.57	390	24
			53.21	0.19	198.17	2872			
			48.36	0.21	178.37	2585			
			37.23	0.27	137.26	1989			
			29.33	0.34	108.16	1567			
			26.51	0.38	99.08	1436			
		2	24.10	0.42	89.22	1293			
			18.55	0.54	68.39	991			
			16.87	0.60	62.84	911			
0.75/1.02	2	3	58.87	0.34	149.09	2161	1.63	390	24
			53.21	0.38	135.10	1958			
			48.36	0.41	121.65	1763			
			37.23	0.54	94.28	1366			
			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	2.11	390	24
			37.23	0.27	188.56	2733			
			29.33	0.34	148.57	2153			
			26.51	0.38	135.10	1958			
			24.10	0.42	121.65	1763			
			18.55	0.54	93.95	1362			
		2	16.87	0.60	86.32	1251			
			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	390	24
			37.23	0.54	137.63	1995			
			29.33	0.68	108.44	1572			
			26.51	0.75	99.08	1436			
			24.10	0.83	89.22	1293			
			18.55	1.08	68.57	994			
		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.3.25kg per 100 mm.

TM138H optional list-drum motor/idler pulley

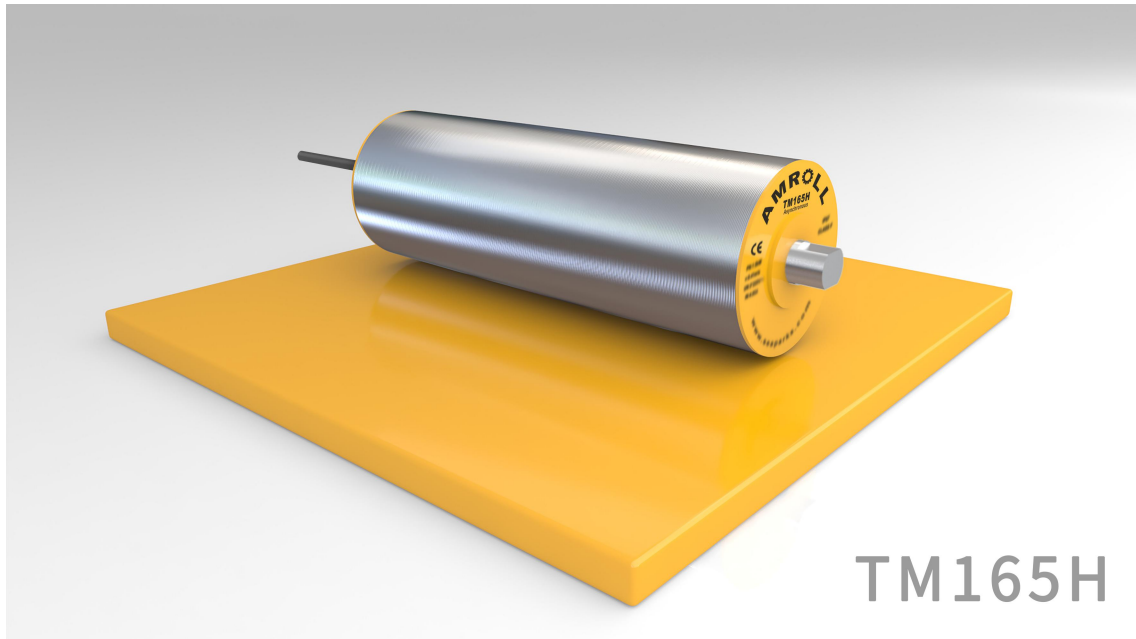
Specifications	Drum motor	Idler pulley
Shell		
Mild steel crowned	1	1
Mild steel cylindrical	2	2
Stainless steel(std. 304) crowned	2	2
Stainless steel(std. 304) cylindrical	2	2
End housing (front & rear)		
Cast iron	1	1
Cast stainless steel	2	2
Shaft (front & rear)		
Mild steel	1	1
Stainless steel(std. 304)	2	2
Gear box & rear flange		
Cast iron	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		
No.150 gear oil	1	
Low temperature oil	2	
Food grade oil & grease (FDA and USDA)	2	
Electrical connection		
Straight cable connector	1	
Elbow stainless steel cable connector	2	
Terminal box connector	2	

Specifications	Drum motor	Idler pulley
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	
Operation with VFD	2	

Note:

1-fitted as standard 2-optional extras

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



TM165H

AMROLL DRUM MOTOR--TM165H

TM165H drum motor uses three-phase asynchronous motor. It is mainly used for belt conveying equipment with heavy load. With characteristics of strong shape, impact resistance and strong torque, it is the best choice of large load conveying equipment. This kind of drum motor is typically used in:

- Baggage check-in counters at airports
- Package machines
- Postal sorter
- Warehousing and vehicle loading
- Assembly line
- Belt conveyor for agricultural products
- Belt conveyors

TM165H 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

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

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 TM165H-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	470	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	420	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	230.59	2795	1.25	420	36
			46.56	0.17	168.79	2046			
	8	3	62.37	0.10	308.06	3734	1.58	470	43
			46.56	0.13	229.94	2787			
			39.31	0.16	194.14	2353			
			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	229.38	2780	1.45	420	49
			46.56	0.26	170.61	2068			
			39.31	0.31	144.56	1752			
			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	470	51
			46.56	0.17	250.90	3041			
0.75/1.02	4	3	62.37	0.20	290.81	3525	2.00	420	49
			46.56	0.27	232.65	2820			
			39.31	0.32	192.23	2330			
			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	353.72	4288	2.23	470	51
	1.10/1.50	2	3	62.37	0.40	213.26	2585	2.24	420
46.56				0.54	170.61	2068			
39.31				0.63	133.29	1616			
28.71				0.87	106.63	1293			
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	470	51
			39.31	0.31	285.30	3458			
			28.71	0.43	213.26	2585			
		24.23	0.50	170.61	2068				
		2	19.64	0.62	143.96	1745			
			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	280.74	3403	3.95	470	51
			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	1482			
12.38			2.00	87.12	1056				
2.20/ 3.00	2	3	46.56	0.53	341.22	4136	4.33	470	51
			39.31	0.62	283.39	3435			
			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.4.0kg per 100 mm.

TM165H optional list-drum motor/idler pulley

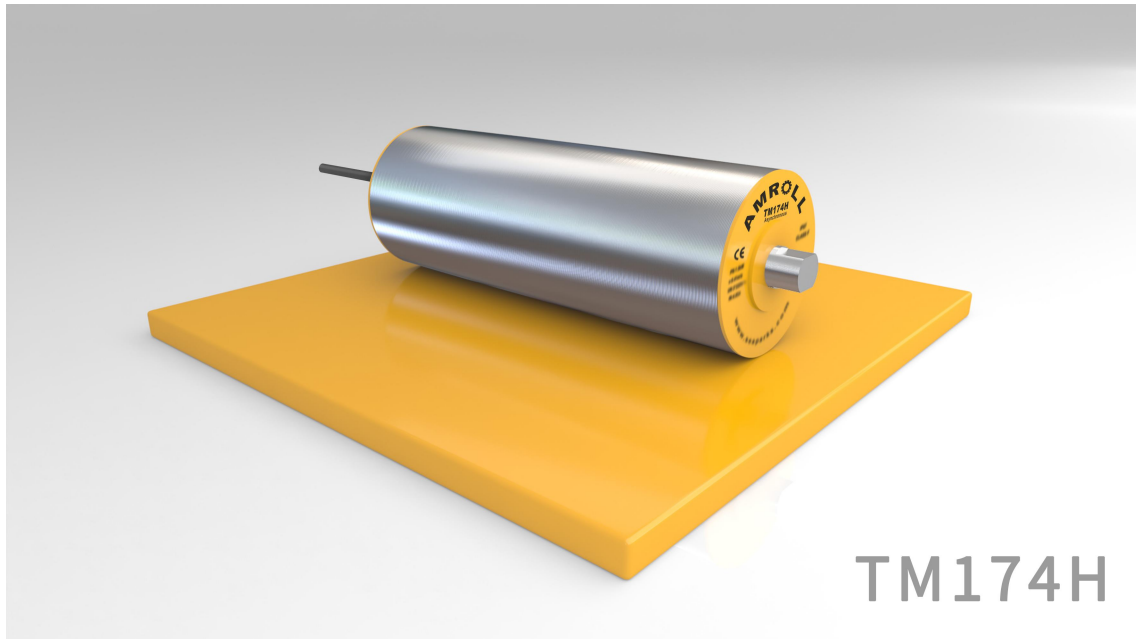
Specifications	Drum motor	Idler pulley
Shell		
Mild steel crowned	1	1
Mild steel cylindrical	2	2
Stainless steel(std. 304) crowned	2	2
Stainless steel(std. 304) cylindrical	2	2
End housing (front & rear)		
Cast iron	1	1
Cast stainless steel	2	2
Shaft (front & rear)		
Mild steel	1	1
Stainless steel(std. 304)	2	2
Gear box & rear flange		
Cast iron	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		
No.150 gear oil	1	
Low temperature oil	2	
Food grade oil & grease (FDA and USDA)	2	
Electrical connection		
Straight cable connector	1	
Elbow stainless steel cable connector	2	

Specifications	Drum motor	Idler pulley
Terminal box connector	2	
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	
Operation with VFD	2	

Note:

1-fitted as standard 2-optional extras

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



AMROLL DRUM MOTOR--TM174H

TM174H drum motor uses three-phase asynchronous motor. It is mainly used for belt conveying equipment with heavy load. The effective power of the motor is up to 3.0kW, The power gap between TM165H and TM216H is filled. It is suitable for the application where the power requirement is higher than TM165H and the capacity space is lower than TM216. This kind of drum motor is typically used in:

- Warehousing and vehicle loading
- Baggage check-in counters at airports
- Packaging machine
- Postal sorter
- Assembly line
- Belt conveyor for agricultural products
- Belt conveyors

TM174H 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

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

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 TM174H-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]
3.00/4.00	2	3	36.62	0.73	353.55	3995	6.10	570	65
			29.08	0.92	280.82	3173			
			21.57	1.24	208.30	2354			
		2	17.14	1.56	165.45	1869			
			15.20	1.76	148.24	1675			
			12.07	2.21	117.74	1330			

At the min. face width (L), the total weight of a drum motor grows approx.5.35kg per 100 mm.

TM174H optional list-drum motor/idler pulley

Specifications	Drum motor	Idler pulley
Shell		
Mild steel crowned	1	1
Mild steel cylindrical	2	2
Stainless steel(std. 304) crowned	2	2
Stainless steel(std. 304) cylindrical	2	2
End housing (front & rear)		
Cast iron	1	1
Cast stainless steel	2	2
Shaft (front & rear)		
Mild steel	1	1
Stainless steel(std. 304)	2	2
Gear box & rear flange		
Cast iron	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		
No.150 gear oil	1	
Low temperature oil	2	
Food grade oil & grease (FDA and USDA)	2	
Electrical connection		
Straight cable connector	1	
Elbow stainless steel cable connector	2	

Specifications	Drum motor	Idler pulley
Terminal box connector	2	
Oil resistant PVC cable	1	
LS halogen-free cable	2	
Screened cable (for VFD and brakes)	3	

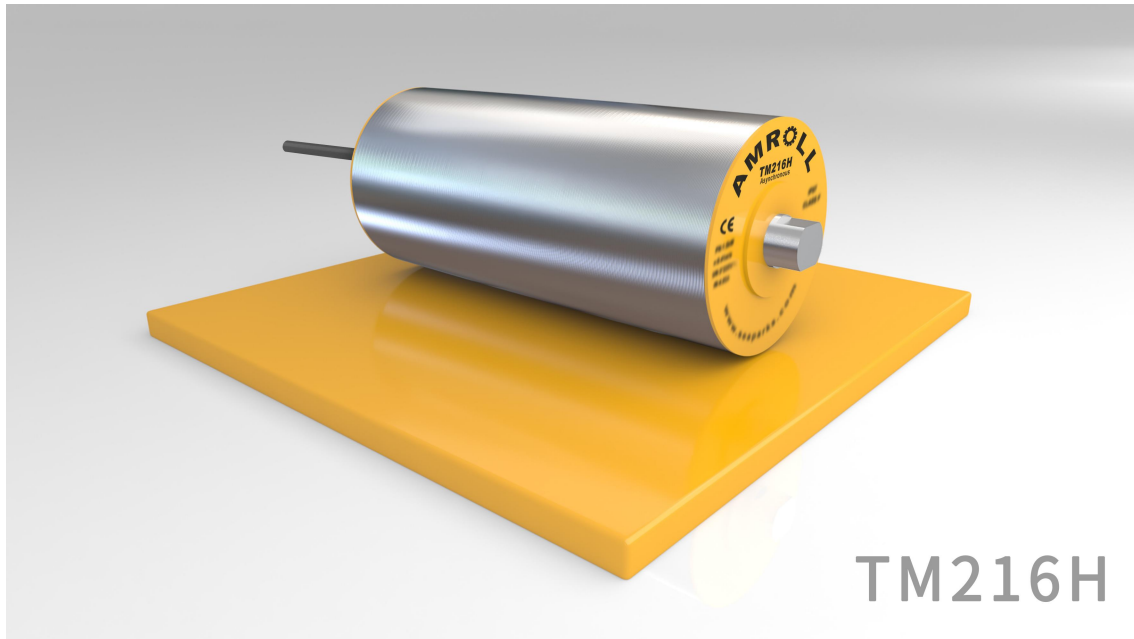
Other options

Mechanical backstop	2	
Electromagnetic brake	2	
Modified for vertical or angled mounting	3	
Operation with VFD	2	

Note:

1-fitted as standard 2-optional extras

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



TM216H

AMROLL DRUM MOTOR--TM216H

TM216H 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. This kind of drum motor is typically used in:

- Packaging machine
- Dynamic weighing equipment
- Postal sorter
- Warehousing and vehicle loading
- Belt conveyor for agricultural products
- Bulk handing conveyors
- Brick and wooden making conveyors
- Steep incline conveyors
- Belt conveyors

TM216H 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

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

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 TM216H-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			

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	48.58	0.34	348.98	3231	2.27	510	58
			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			
		2	31.73	0.34	348.98	3231			
			24.61	0.44	279.18	2585			
			20.11	0.54	228.10	2112			
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			
		2	31.73	0.52	304.56	2820			
			24.61	0.66	246.86	2285			
			20.11	0.81	194.40	1800			
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			

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	3	31.73	0.52	609.12	5640	7.69	510	73
		2	24.61	0.67	475.88	4406			
			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.

TM216H optional list-drum motor/idler pulley

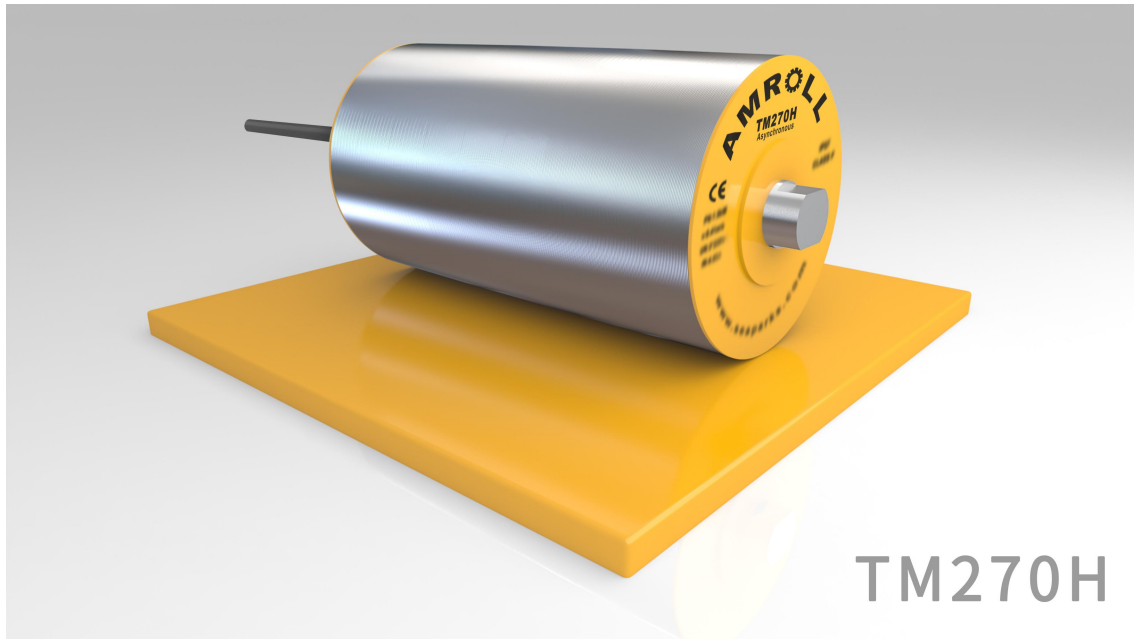
Specifications	Drum motor	Idler pulley
Shell		
Mild steel crowned	1	1
Mild steel cylindrical	2	2
Stainless steel(std. 304) crowned	2	2
Stainless steel(std. 304) cylindrical	2	2
End housing (front & rear)		
Cast iron	1	1
Cast stainless steel	2	2
Shaft (front & rear)		
Mild steel	1	1
Stainless steel(std. 304)	2	2
Gear box & rear flange		
Cast iron	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		
No.150 gear oil	1	
Low temperature oil	2	
Food grade oil & grease (FDA and USDA)	2	
Electrical connection		
Straight cable connector	1	
Elbow stainless steel cable connector	2	

Specifications	Drum motor	Idler pulley
Terminal box connector	2	
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	
Operation with VFD	2	

Note:

1-fitted as standard 2-optional extras

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



TM270H

AMROLL DRUM MOTOR--TM270H

TM270H drum motor is a heavy roller designed for conveying single heavy items or bulk materials. Its maximum power can reach 5.5kW and its speed can range from 0.62 to 3.37m/s. This kind of drum motor is typically used in:

- Postal sorter
- Belt conveyor for agricultural products
- Bulk handing conveyors
- Brick and wooden making conveyors
- Steep incline conveyors

TM270H 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

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

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 TM270H-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]
4.00/5.36	4	3	32.68	0.62	841.02	6230	8.80	700	129
			26.59	0.77	684.25	5069			
		2	19.78	1.03	514.20	3809			127
			16.17	1.26	420.34	3114			
			15.01	1.36	390.32	2891			
			12.21	1.67	317.56	2352			
5.50/7.38	2	3	50.99	0.81	893.00	6615	10.50	700	129
			38.52	1.07	674.64	4997			
			32.68	1.26	572.24	4239			
			26.59	1.55	465.57	3449			
		2	19.78	2.08	349.87	2592			127
			16.17	2.54	286.01	2119			
			15.01	2.74	265.58	1967			
			12.21	3.37	216.07	1601			

At the min. face width (L), the total weight of a drum motor grows approx.5.35kg per 100 mm.

TM270H optional list-drum motor/idler pulley

Specifications	Drum motor	Idler pulley
Shell		
Mild steel crowned	1	1
Mild steel cylindrical	2	2
Stainless steel(std. 304) crowned	2	2
Stainless steel(std. 304) cylindrical	2	2
End housing (front & rear)		
Cast iron	1	1
Cast stainless steel	2	2
Shaft (front & rear)		
Mild steel	1	1
Stainless steel(std. 304)	2	2
Gear box & rear flange		
Cast iron	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		
No.150 gear oil	1	
Low temperature oil	2	
Food grade oil & grease (FDA and USDA)	2	
Electrical connection		
Straight cable connector	1	
Elbow stainless steel cable connector	2	

Specifications	Drum motor	Idler pulley
Terminal box connector	2	
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	
Operation with VFD	2	

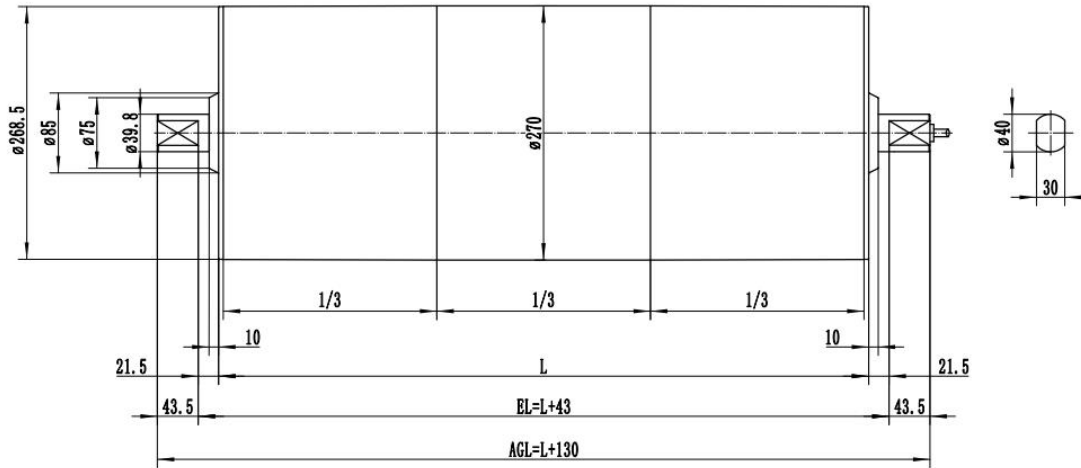
Note:

1-fitted as standard 2-optional extras

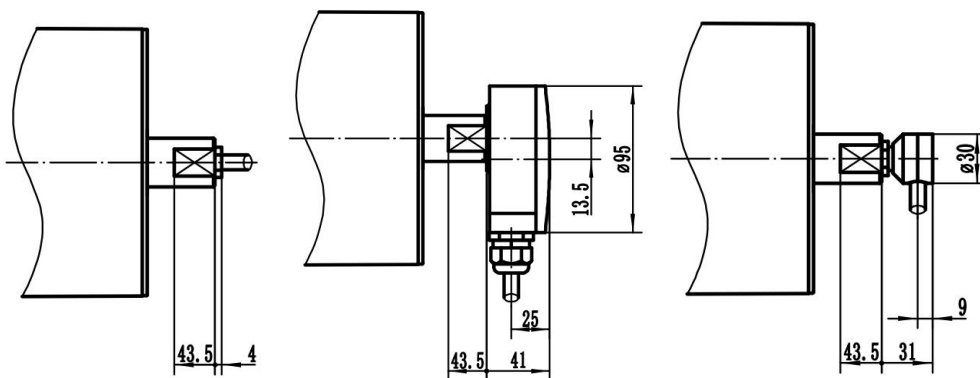
3-available as limited option but need to confirm with manufacturer

Standard Dimension

TM270H Drum motor



Straight cable connector Terminal box connector Elbow stainless steel cable connector



UT270H Idler roller

