



## MOTORIZED DRUM Ø72



*Diameter : 72 mm*  
*Speed : 2.6 to 46.9 m/min*  
*Length : 250 to 1000 mm*

**FOR A MAXIMUM LOAD OF 120 KG/M**  
**INTENSIVE USE : COMPACT STEEL GEAR UNIT**  
**3 RANGES FITTED TO YOUR NEEDS**

### APPLICATIONS :

- CONVEYORS
- CHECKOUT COUNTERS
- SPECIFIC MACHINES

### TECHNICAL FEATURES :

- ASYNCHRONOUS MOTOR
- PERMANENTLY LUBRICATED
- THERMAL CUT-OUT
- ALUMINIUM END FITTINGS
- STEEL TUBE
- CLASSE F INSULATION
- IP44 OR IP66 PROTECTION
- WORKING TEMPERATURE :  
-10°C TO +40°C
- RELATIVE HYGROMETRY UNTIL 95%

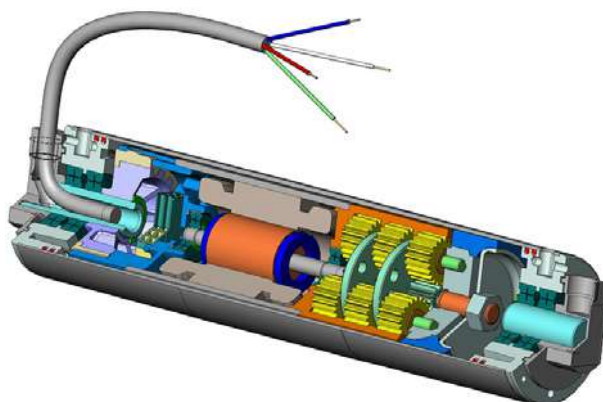
### OPTIONS AVAILABLE ON DEMAND :

- STAINLESS STEEL TUBE, ZINC PLATED TUBE
- SPECIFIC COATING
- GEOMETRY OF THE TUBE :  
CYLINDRICAL, BI CONIC SECTION,  
BI TAPERED
- DRUM LENGTH
- CABLE LENGTH
- SPECIFIC VOLTAGES AND FREQUENCIES
- BRAKE
- SPECIFIC WIRES AND END FITTINGS
- ABSORBING SPACERS

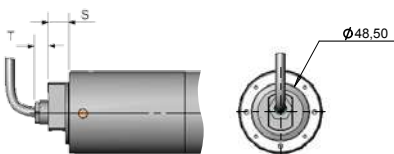
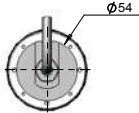
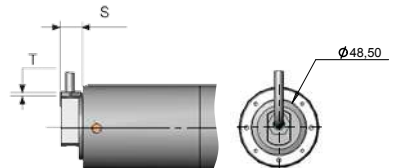
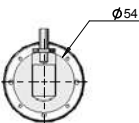
### COMPLIES WITH THE STANDARDS :

- EN 60034-1
- CE

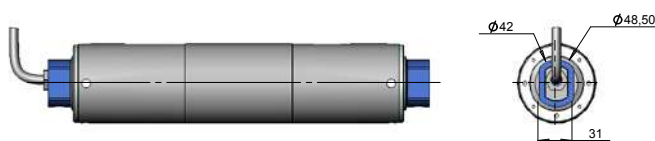
## MOTORIZED DRUM Ø72



### AVAILABLE END FITTINGS

	ALUMINIUM END FITTINGS S = 20 MM T = 6 MM MAXI	PLASTIC END FITTINGS (IN OPTION) S = 15 MM T = 6 MM MAXI
AXIAL OUTPUT		
RADIAL OUTPUT		
<b>S : END FITTING WIDTH T: NUT WITH + TIGHTENING LOOSENESS</b>		

### ABSORBING SPACER WITH IN LINE WIRE OUTPUT S = 20 MM T = 6 MM MAXI



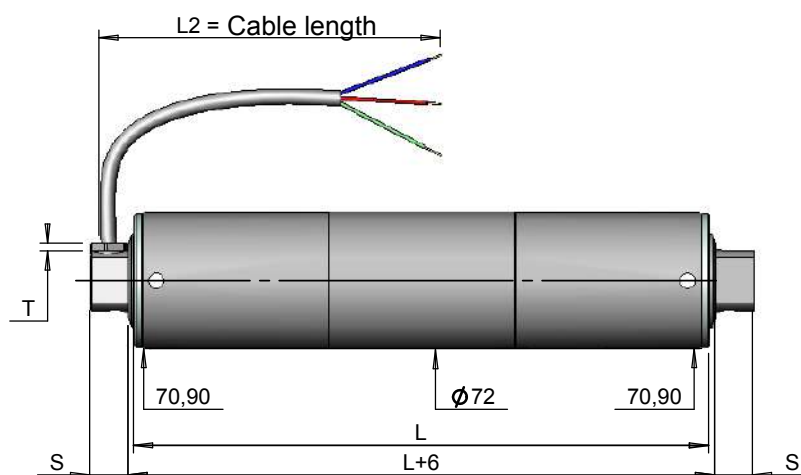
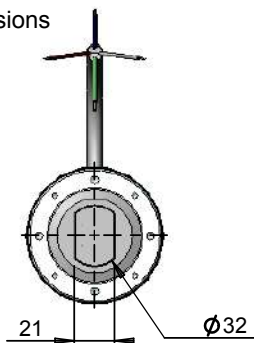
Ø72 High Industry	Diameter & Type		Output power		Linear speed		Reduction ratio		Torque		Maximum load		Tractive effort		Tube length		Service class*		Intensity & Capacitor		Intensity & Voltage														
	(mm)		(watts)		(m/s)	(m/min)			(Nm)	(kg)	(N)		(mm)																						
	Motors 25W - 230v 50Hz																Single Phase		Three Phase																
	25 W	0,04	2,6	1/216	17,7	114	491	250 mm	S3 50% of 6s	0,23 A 2 µF (Type CM2 High Industry)	0,18 A to 230 V 0,45 A to 400 V (Type CT2 High Industry)																								
		0,06	3,7	1/152	12,5	81	347																												
		0,07	4,2	1/135	11,1	71	307																												
		0,09	5,3	1/107	8,8	57	245																												
		0,10	5,9	1/95	7,8	50	217																												
		0,11	6,7	1/84	6,9	45	192																												
		0,12	7,4	1/76	6,2	40	173																												
		0,14	8,4	1/67	5,5	36	153																												
		0,16	9,5	1/60	4,9	31	135																												
		0,18	10,7	1/53	4,3	28	120																												
		0,26	15,7	1/36	3,1	20	86																												
		0,37	22,3	1/25	2,2	14	61																												
		0,52	31,4	1/18	1,6	11	45																												
		0,59	35,3	1/16	1,5	9	40																												
		0,67	40,4	1/14	1,3	8	35																												
	Motors 35W - 230v 50Hz																Single Phase																		
	35 W	0,09	5,3	1/107	12,3	80	343	300 mm	S3 50% of 6s	0,35 A 2 µF (Type BM2 High Industry)																									
		0,10	5,9	1/95	10,9	71	303	350 mm																											
		0,11	6,7	1/84	9,7	62	269	400 mm																											
		0,12	7,4	1/76	8,7	56	242	450 mm																											
		0,14	8,4	1/67	7,7	50	214	500 mm																											
		0,16	9,5	1/60	6,8	44	190	600 mm																											
		0,18	10,7	1/53	6,0	39	168	800 mm																											
		0,26	15,7	1/36	4,3	28	121	1000 mm																											
		0,37	22,3	1/25	3,1	20	85	>1000 mm : on demand																											
		0,52	31,4	1/18	2,3	15	64																												
		0,59	35,3	1/16	2,0	13	56																												
		0,67	40,4	1/14	1,8	11	49																												
	Motors 50W - 230v 50Hz																Single Phase		Three Phase																
	50 W	0,09	5,3	1/107	17,6	114	490	300 mm	S3 50% of 6s	0,4 A 3 µF (Type BM2 High Industry)	0,45 A to 230 V 0,26 A to 400 V (Type BT2 High Industry)																								
		0,10	5,9	1/95	15,6	101	433	350 mm																											
		0,11	6,7	1/84	13,8	89	384	400 mm																											
		0,12	7,4	1/76	12,4	80	346	450 mm																											
		0,14	8,4	1/67	11,0	71	306	500 mm																											
		0,16	9,5	1/60	9,8	63	271	600 mm																											
		0,18	10,7	1/53	8,6	56	240	800 mm																											
		0,26	15,7	1/36	6,2	40	172	1000 mm																											
		0,37	22,3	1/25	4,4	28	122	>1000 mm : on demand																											
		0,52	31,4	1/18	3,3	21	91																												
		0,59	35,3	1/16	2,9	19	81																												
		0,67	40,4	1/14	2,5	16	71																												

\* : Reduce the load to 50% if the drum motor is used in Service Class S1 instead of S3

Ø72 Cold	Motors 30W - 230v 50Hz										Three Phase	
	30 W	0,04	2,6	1/216	21,2	137	589	300 mm 350 mm 400 mm 450 mm 500 mm 600 mm 800 mm 1000 mm  >1000 mm : on demand	S1	0,26 A to 230 V 0,15 A to 400 V (Type BT2 cold)		
		0,06	3,7	1/152	15,0	97	416					
		0,07	4,2	1/135	13,3	86	368					
		0,09	5,3	1/107	10,6	68	294					
		0,10	5,9	1/95	9,4	60	260					
		0,11	6,7	1/84	8,3	54	230					
		0,12	7,4	1/76	7,5	48	207					
		0,14	8,4	1/67	6,6	43	184					
		0,16	9,5	1/60	5,9	38	163					
		0,18	10,7	1/53	5,2	33	144					
		0,26	15,7	1/36	3,7	24	103					
		0,37	22,3	1/25	2,6	17	73					
		0,52	31,4	1/18	2,0	13	54					
		0,59	35,3	1/16	1,7	11	48					
		0,67	40,4	1/14	1,5	10	42					
	Motors 20W - 230v 50Hz										Single Phase	
	20 W	0,04	2,6	1/216	14,1	91	393	300 mm 350 mm 400 mm 450 mm 500 mm 600 mm 800 mm 1000 mm  >1000 mm : on demand	S1	0,25 A 2 µF (Type BM2 cold)		
		0,06	3,7	1/152	10,0	64	277					
		0,07	4,2	1/135	8,8	57	246					
		0,09	5,3	1/107	7,0	46	196					
		0,10	5,9	1/95	6,2	40	173					
		0,11	6,7	1/84	5,5	36	154					
		0,12	7,4	1/76	5,0	32	138					
		0,14	8,4	1/67	4,4	28	122					
0,16		9,5	1/60	3,9	25	108						
0,18		10,7	1/53	3,5	22	96						
0,26		15,7	1/36	2,5	16	69						
0,37		22,3	1/25	1,8	11	49						
0,52		31,4	1/18	1,3	8	36						
0,59		35,3	1/16	1,2	7	32						
0,67		40,4	1/14	1,0	7	28						

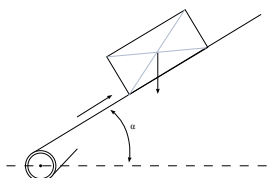
## BULK DIMENSIONS

Consult the table of end fittings to know the available dimensions



## INSTALLATION AND USING RECOMMENDATIONS

### Angle of the belt :



Angle in degree	0	5	10	20	30	45
% of the conveyed load	-	72	64	50	34	16

### To adjust the tension of the conveyor belt :

Switch on the conveyor with the maximum load on the belt. Tight the belt until the load moves. Finish the adjustment by the tightening of screws while keeping the belt centered.

Speed (m/min)	Tension of the belt for 10,000 hours of working (Newton)	
	L<800m	L>800mm
3 to 5	1200	2700
6 to 12	850	2000
18 to 47	700	1500

### Drum motors weight

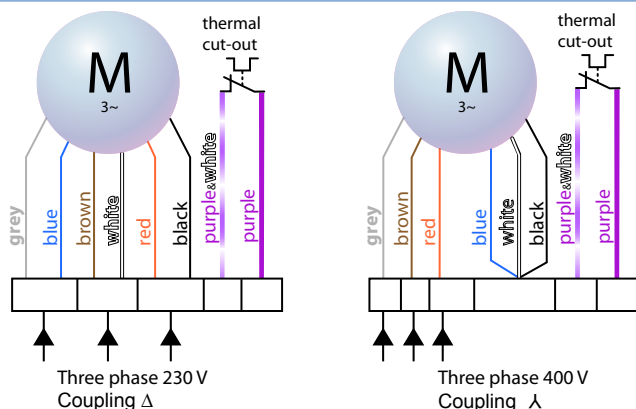
Tube length (mm)	250	300	350	400	450	500	600	800	1000	>1000
Weight (kg)	4	4,5	4,6	4,8	5	5,2	5,6	6,4	7,2	+0,1 kg by 50 mm



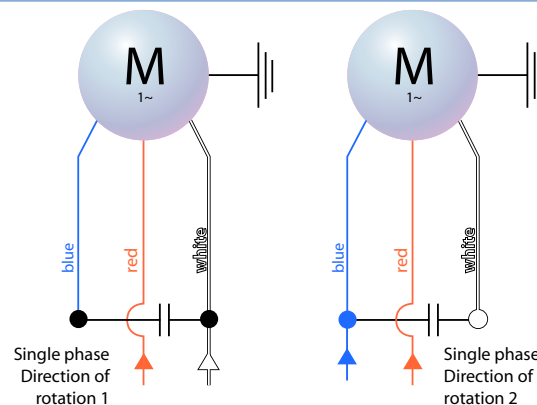
- Do not use the drum motor without belt (risk of overheat)
- Do not vulcanize the drum motor
- Connect the thermal switch in series with the supply of the coil from the motor contactor
- The conveyor length must not exceed 4 meters

## ELECTRICAL DIAGRAMS

### Three phase 230-400V



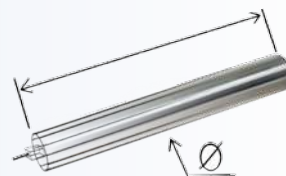
### Single phase 230V (integrated thermal cut-out)



**SIREM can make your drum according to your project requirements.**

**For a request of quotation fill the form below and fax it to +33 478.55.83.19**

**(also available on our website [www.sirem.fr](http://www.sirem.fr) to *Products/Drum motors*).**



DATE : \_\_\_\_\_ COMPANY : \_\_\_\_\_ TOWN/CITY : \_\_\_\_\_  
LAST NAME : \_\_\_\_\_ POSTCODE : \_\_\_\_\_  
REF : \_\_\_\_\_ FIRST NAME : \_\_\_\_\_ COUNTRY : \_\_\_\_\_  
POSITION : \_\_\_\_\_ ACTIVITY : \_\_\_\_\_  
EMAIL : \_\_\_\_\_ TEL : \_\_\_\_\_  
ADDRESS : \_\_\_\_\_ FAX : \_\_\_\_\_

**Your application :**

- Scrolling billboard ☐
- Supermarket check out ☐
- Belt conveyor ☐
- Others ☐

Describe your application : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Geometry :**

- Bi-tapered ☐ Cylindrical ☐
- Bi-conic section ☐ Indifferent ☐

**Tube finish :**

- Zinc plated ☐ Aluminium ☐
- Not galvanized steel ☐ Indifferent ☐
- Stainless steel ☐
- Specific coating ☐

Stipulate : \_\_\_\_\_

**Characteristics of the conveyor :**

- Length of the belt (mm) : \_\_\_\_\_
- Width of the belt (mm) : \_\_\_\_\_
- Weight to be drawn (kg) : \_\_\_\_\_
- Belt speed (m/s) : \_\_\_\_\_
- Usage continuous ☐
- Intermittent ☐ - Stipulate : \_\_\_\_\_

**Power supply :**

- Single phase ☐ 24 volts DC ☐ 50 Hz ☐
- Three phase ☐ 110 volts ☐ 60 Hz ☐
- 230 volts ☐
- 380 volts ☐
- Frequency inverter ☐

**Environment**

- Specific standards ☐
- Name the standards : \_\_\_\_\_
- Specific constraints ☐
- Stipulate the constraints : \_\_\_\_\_
- Protection index : IP \_\_\_\_\_
- Temperatures : Mini (°C) : \_\_\_\_\_
- Maxi (°C) : \_\_\_\_\_
- Dusty ☐
- Damp ☐

**Connector technology**

- Axial output ☐
- Radial output ☐
- Specific connector ☐
- Stipulate : \_\_\_\_\_
- Cable length (mm) : \_\_\_\_\_

**End fittings**

- Plastic ☐ Aluminium ☐
- Space dampers ☐
- None ☐

**Tube :**

- Length of drum (mm) : \_\_\_\_\_
- Diameter (mm) : \_\_\_\_\_
- Ø57 ☐ Ø89 ☐
- Ø72 ☐ Ø110 ☐
- Ø80 ☐ Ø115 ☐

**Quantity :** \_\_\_\_\_ **pieces**

**Complementary information :** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_