



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%

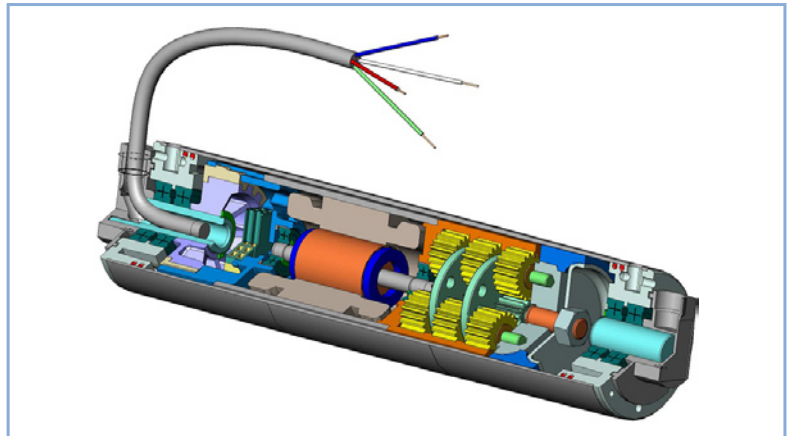
OPTIONS AVAILABLE ON DEMAND :

- 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

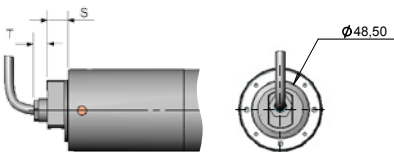
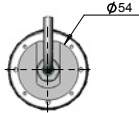
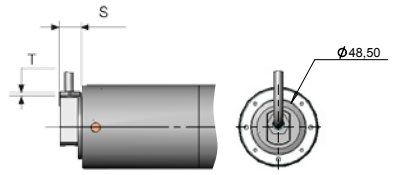
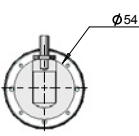
COMPLIES WITH THE STANDARDS :

- EN 60034-1
- CE

MOTORIZED DRUM Ø72

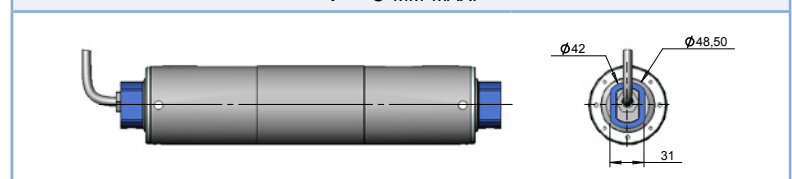


AVAILABLE END FITTINGS

	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		
S: END FITTING WIDTH T: NUT WITH + TIGHTENING LOOSENESS		

ABSORBING SPACER WITH IN LINE WIRE OUTPUT

S = 20 MM
 T = 6 MM MAXI



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)		
Ø72 High Industry	Motors 25W - 230v 50Hz																	
	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)	Single Phase						
		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												
Ø72 Cold	Motors 35W - 230v 50Hz																	
	35 W	0.09	5,3	1/107	12,3	80	343	300 mm 350 mm 400 mm 450 mm 500 mm 600 mm 800 mm 1000 mm >1000 mm : on demand	S3 50% of 6s	0,35 A 2 µF (Type BM2 High Industry)	Single Phase							
		0.10	5,9	1/95	10,9	71	303											
		0.11	6,7	1/84	9,7	62	269											
		0.12	7,4	1/76	8,7	56	242											
		0.14	8,4	1/67	7,7	50	214											
		0.16	9,5	1/60	6,8	44	190											
		0.18	10,7	1/53	6,0	39	168											
		0.26	15,7	1/36	4,3	28	121											
		0.37	22,3	1/25	3,1	20	85											
		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											
		Ø72 Reinforced	Motors 50W - 230v 50Hz															
			50 W	0.09	5,3	1/107	17,6				114	490	300 mm 350 mm 400 mm 450 mm 500 mm 600 mm 800 mm 1000 mm >1000 mm : on demand	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)	Single Phase	
0.10				5,9	1/95	15,6	101				433							
0.11	6,7			1/84	13,8	89	384											
0.12	7,4			1/76	12,4	80	346											
0.14	8,4			1/67	11,0	71	306											
0.16	9,5			1/60	9,8	63	271											
0.18	10,7			1/53	8,6	56	240											
0.26	15,7			1/36	6,2	40	172											
0.37	22,3			1/25	4,4	28	122											
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											
Ø72 Reinforced	Motors 70 W - 230v 50Hz																	
	70 W			0.11	6,7	1/84	19,3	125	537	300 mm 350 mm 400 mm 450 mm 500 mm 600 mm >1000 mm : on demand	S3 50% of 6s	0,60 A 6 µF (Type BM2 reinforced)					Single Phase	
		0.12		7,4	1/76	17,4	112	484										
		0.14	8,4	1/67	15,4	100	428											
		0.16	9,5	1/60	13,7	88	379											
		0.18	10,7	1/53	12,1	78	336											
		0.26	15,7	1/36	8,3	53	229											
		0.37	22,3	1/25	5,8	38	162											
		0.52	31,4	1/18	4,1	27	115											
		0.59	35,3	1/16	3,7	24	102											
		0.67	40,4	1/14	3,2	21	89											
		Ø72 Reinforced	Motors 80 W - 230v 50Hz															
			80 W	0.14	8,4	1/67	17,6	102	439				300 mm 350 mm 400 mm 450 mm 500 mm 600 mm 800 mm 1000 mm >1000 mm : on demand	S3 50% of 6s	0,55 A to 230 V (Type BT2 reinforced)	Three Phase		
				0.16	9,7	1/60	15,7	91	393									
				0.18	10,7	1/53	13,9	81	347									
0.26				15,7	1/36	9,4	55	236										
0.38	22,6			1/25	6,5	38	164											
0.52	31,4			1/18	4,7	27	118											
0.59	35,3			1/16	4,2	24	105											
0.67	40,4			1/14	3,7	21	92											

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

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

Drum designation :

RL	072	400	B/C	2	1/95
M					
Drum motor symbol	Diameter in mm	Length in mm	xM = Single phase motor xT = Three phase motor	Number of poles	Reduction ratio

HIGH INDUSTRY RANGE

Drum motors are particularly well adapted for the belt conveyors :

- Steel planetary gear
- Belt always centered thanks to a specific machining

COLD RANGE

- Allows a continued service class S1
- The drum motor does not warm the belt in contact
- Is recommended for high temperature environments
- Is recommended for the conveying of temperature sensitive products. (food industry, ...)
- Is compulsory if the tube has got a coating

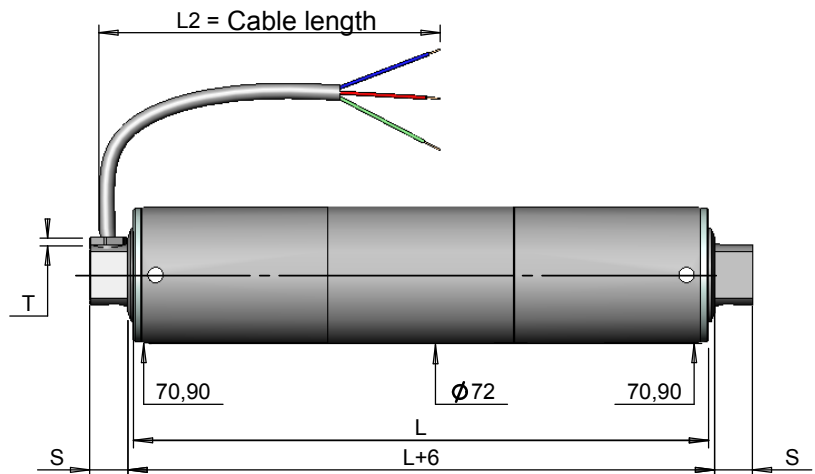
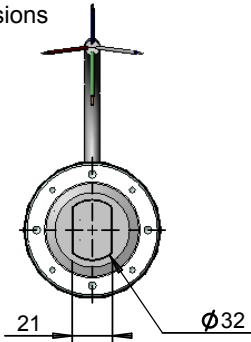
REINFORCED RANGE

- Increase of the available power and torque for the conveying of loads
- S3 service class of 50% on a 6 minute cycle

*The indicated values are given for a 2 meter long conveyor

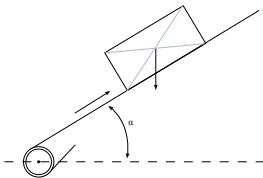
BULK DIMENSIONS

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

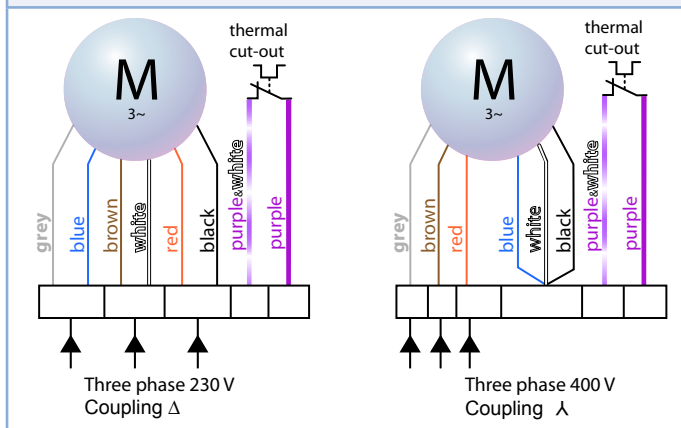
Tube length (mm)	250	300	350	400	450	500	600	800	1000	>1000
Weight (kg)	4	4,5	4,6	4,8	5	5,2	5,6	6,4	7,2	+0,1 kg by 50 mm



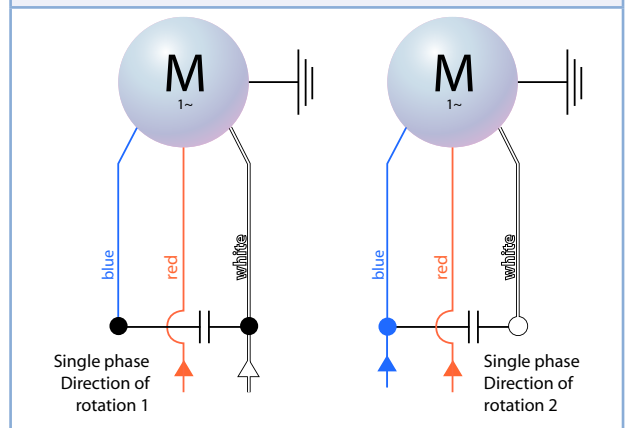
- Do not use the drum motor without belt (risk of overheat)
- Do not vulcanize the drum motor
- Connect the thermal switch in series with the supply of the coil from the motor contactor
- The conveyor length must not exceed 4 meters

ELECTRICAL DIAGRAMS

Three phase 230-400V



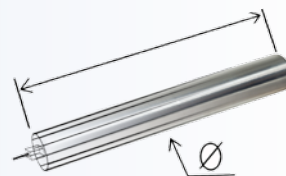
Single phase 230V (integrated thermal cut-out)



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 to Products/Drum motors).



DATE : _____ COMPANY : _____ TOWN/CITY : _____
REF : _____ LAST NAME : _____ POSTCODE : _____
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 : _____

