

# MR-8

product by Sicor

## SICOR's gear box series



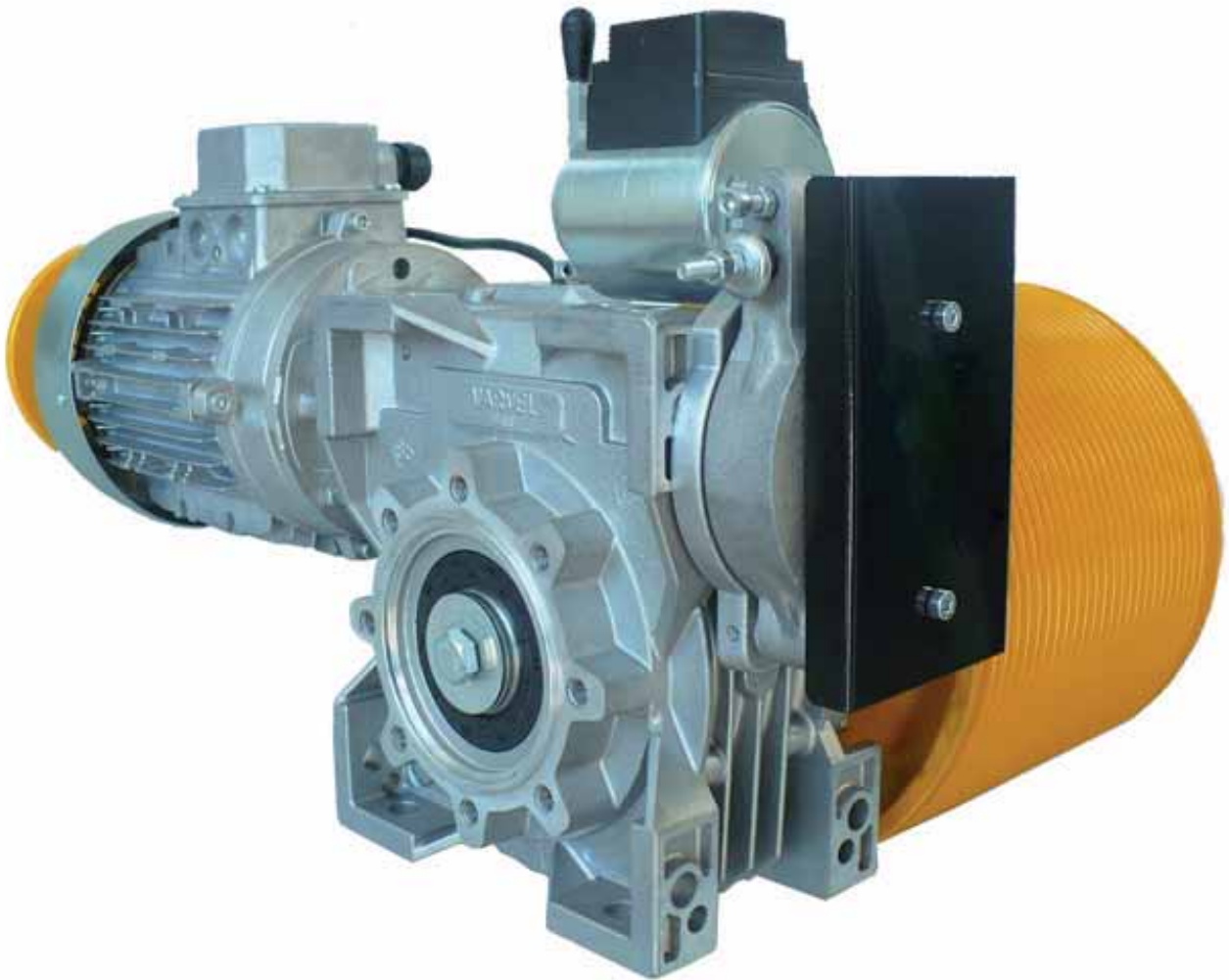
Sicor machines meet the requirements of the following standards:  
95/16/CE- EN 292/1/2 - EN 294 - EN 12015:1999 - EN 12016:1999 - EN 60204-1 - EN 81-1 :1998

- Working process with CNC flexible machinery system. The components are tested with Zeiss three-dimensional testing machines.
- Final running-tests concerning vibrations, noise a.s.o. are carried out on 100% of gear boxes production.
- Smooth quite operation, noise level (within the range of VDI 2566) < 60 dBA are guaranteed by Sicor gearboxes.
- Cast iron EN-GJS-700-2-UNI EN 1563 with hardness over 250HB is used for traction sheaves.
- Twin-Brakes with mechanically independent action.
- Synthetic oil is used for each model.
- The standard motors used are of italian/foreign production, protection class F , insulation Class IP21 - AC1 and AC2 (180 St/H) with forced ventilation. ACVVVF (240 St/H), high efficiency CDF 60%.
- Standardized machine frames with/without deflection pulley, with vibration dampers are available.
- Off-standard constructions (extended shafts, drums, special machine frames, safety brakes on slow shaft) are available on demand.
- Gear boxes can be supplied equipped with Encoder, Tachometer and standard safety protections. Special protections are supplied on demand, according to customers drawings.
- Each gear box is complete with the "Operation and Maintenance Manual". The "Certificate of Conformity" is supplied on demand.
- The high quality of both the gear boxes projects criteria and the material used guarantee the long life of Sicor winches.



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# MR8 GEAR BOX



## FEATURES

Max static load (with sheave): 650 kg  
 Max static load (with drum): 210 kg  
 Range Power 50 Hz - 4 poles: 1,1 kW  
 Range Power 50 Hz - 6 poles: 0,85 kW  
 Ratio: 1/56  
 Gear weight: 40 kg  
 Oil capacity: 0,60 lt

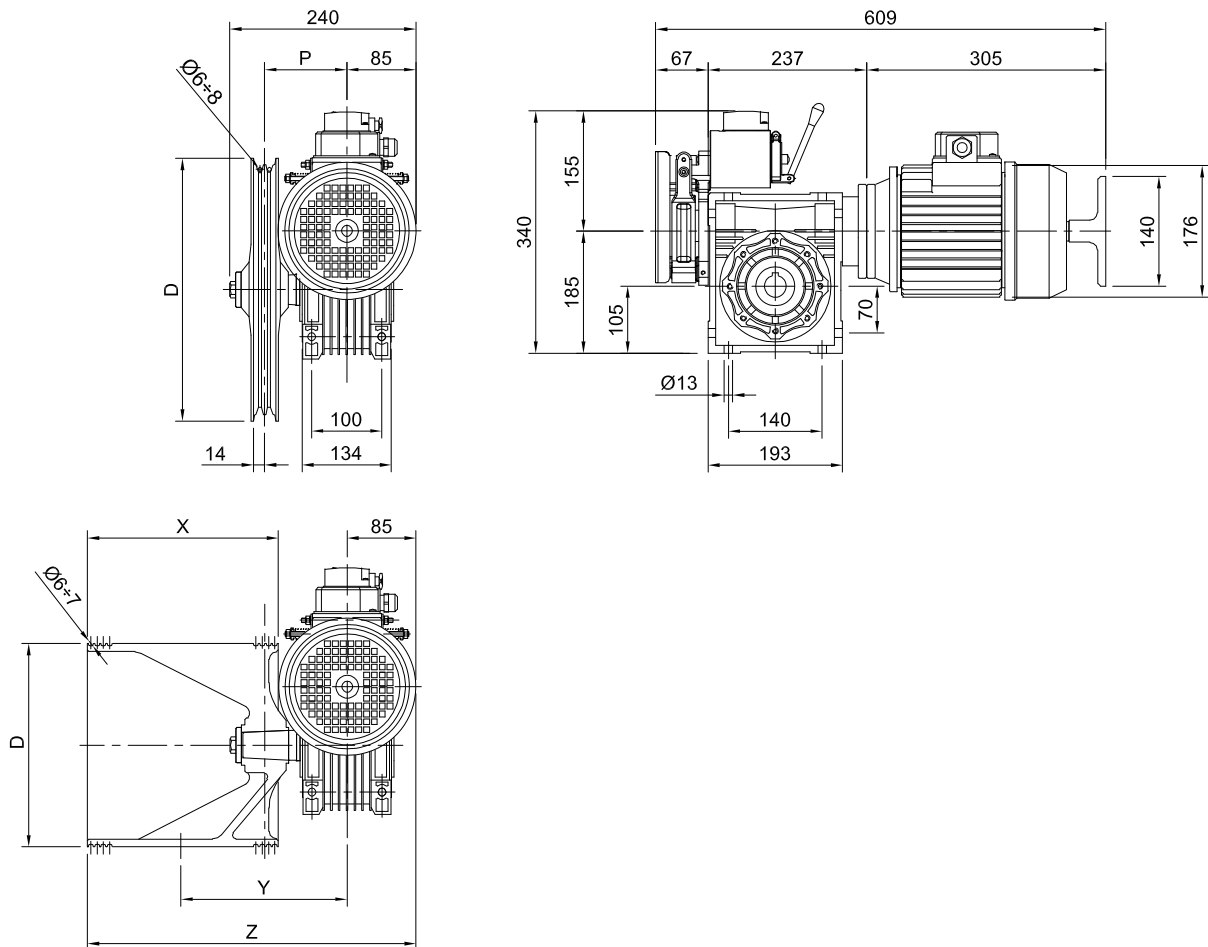
Roping System	TRACTION SHEAVE		Dimensions	Load	
	D (mm)	D funi	P (mm)	F (kN)	
CSW	260	6 - 8	114	0,65	
	320				
	360				

Electromagnet of Brake		
(V)	(A)	(W)
48	1,38	66,1
200	0,38	75,3

Drum	Grooves	Sheaves			
D (mm)	N°	mt	X (mm)	Y (mm)	Z (mm)
210	1	17	244	206	398
	2	7			
260	1	17	222	196	376
	2	7			

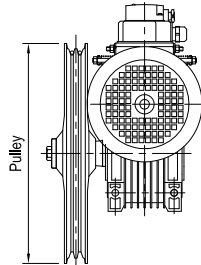
## DIMENSIONS

Max. static load on the slow shaft: CSW Conventional Single Wrap

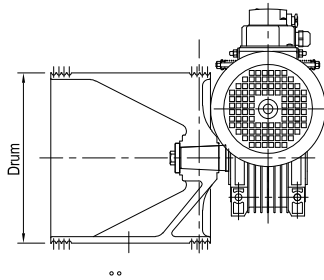


## FEATURES

ACVVVF  
1500 rpm  
4 Poles  
50 Hz



Speed Synchronous (m/s)	Pulley Ø (mm)	Ratio (i)	1,1 kW ASYNCHRONOUS (kg)					
			Rated Load	Static Load				
0,36	260	1/56	295	650				
0,45	320	1/56	240	650				
0,50	360	1/56	213	650				



Speed Synchronous (m/s)	Drum Ø (mm)	Ratio (i)	1,1 kW ASYNCHRONOUS rope configuration (kg)					
			1		2 diverg.		2 parall.	
			Traction Force	Static Load	Traction Force	Static Load	Traction Force	Static Load
0,29	210	1/56	107	107	117	117	107	107
0,36	260	1/56	117	117	148	190	117	117

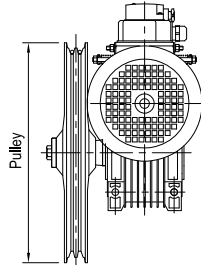
Listed loads don't include the rope's weight.  
In order to know the net loads capability, subtract rope's weight from the listed loads.

Position of the gear-box: UP  
Plant efficiency: 0,80

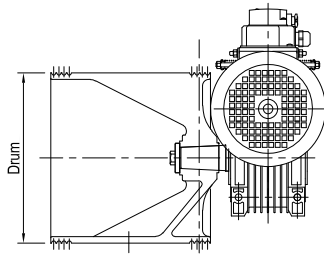
# DUTY TABLE

## FEATURES

**ACVVVF**  
**1200 rpm**  
**6 Poles**  
**60 Hz**



Speed Synchronous (m/s)	Pulley Ø (mm)	Ratio (i)	0,9 kW ASYNCHRONOUS (kg)					
			Rated Load	Static Load				
0,29	260	1/56	299	650				
0,36	320	1/56	243	650				
0,42	360	1/56	216	650				



Speed Synchronous (m/s)	Drum Ø (mm)	Ratio (i)	0,9 kW ASYNCHRONOUS rope configuration (kg)					
			1		2 diverg.		2 parall.	
			Traction Force	Static Load	Traction Force	Static Load	Traction Force	Static Load
0,24	210	1/56	107	107	177	177	107	107
0,29	260	1/56	117	117	150	190	117	117

Listed loads don't include the rope's weight.  
 In order to know the net loads capability, subtract rope's weight from the listed loads.

Position of the gear-box: UP  
 Plant efficiency: 0,80

Company name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Person referent: \_\_\_\_\_  
e-mail: \_\_\_\_\_

Date: \_\_\_\_\_  
Quantity: \_\_\_\_\_

## GEAR - GEARLESS

### GEAR DATA

GEAR TYPE	<input type="radio"/> GEAR <input type="radio"/> GEARLESS		
Installation position	<input type="radio"/> Righth-hand machine <input type="radio"/> Left-hand machine		
Gear ratio	.....		
Drive system	<input type="radio"/> AC1 <input type="radio"/> AC2 <input type="radio"/> ACVV <input type="radio"/> VVVF <input type="radio"/> DC		
Rpm and motor power	Rpm .....	Power (kW) .....	<input type="radio"/> Asynchronous <input type="radio"/> Synchronous
Motor Voltage and Frequency	V: ..... <input type="radio"/> 33 Hz <input type="radio"/> 50 Hz <input type="radio"/> 60 Hz		
Starting per hour	<input type="radio"/> 90 <input type="radio"/> 120 <input type="radio"/> 180 <input type="radio"/> 240		
Traction Sheave	Sheave Ø (mm) .....		
Ropes	N. Ropes .....	Ropes Ø (mm) .....	Pitch of grooves (mm) .....

### PLAN DATA

Roping	<input type="radio"/> 1:1 <input type="radio"/> 2:1		
Speed m/s	.....		
Gear position	<input type="radio"/> ABOVE MACHINE <input type="radio"/> BELOW MACHINE		
Travel and stops	Travel (m) .....	Stops n° .....	
Load	Useful load (Kg) .....	Cabin+car+frame+door operator (Kg) .....	CW (Kg) .....
Ropes	Weight (Kg) .....	Compensation <input type="radio"/> NO <input type="radio"/> YES	% ..... Kg. ....
Ropes distance (mm)	.....		

### SPECIAL SUPPORT

Type	<input type="radio"/> INTERNAL <input type="radio"/> EXTERNAL		
Extended shaft	Centre line gear - centre line sheave (mm) .....		

### MANUFACTURE

Made in ITALY			
Company name	<input type="radio"/> SICOR <input type="radio"/> Nuova MGT <input type="radio"/> SASSI		

**NOTE** .....

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