

Follow the footsteps of the evolution

GEKO

product by A.Sassi



GEKO New gear extremely compact suitable for the new installations and specially designed for the modernizations of old installations. Given its low weight and dimensions the difference between vertical and horizontal position is almost annulled. The design is new thanks to the presence of integrated brake drum. There is only one brake type: with drum. This gear can be mounted in vertical and horizontal right/left position and both brake and terminal box can be turned 180° to facilitate the installation. Two speeds motor at 4/16 and 6/24 poles. The project of the VF motor is completely new: with one motor type and

with the same reduction ratio you can cover the most common installation's requirements; these motors (VF-SD motor) are designed to run both with star and delta connections always at 400V, thus allowing to choose the required power with the same motor. The maintenance operations are less frequent and easier thanks to the permanent lubrication of wormwheel and bearings and to the easy operations of motor fitting/unfitting. Extremely noiseless: Geko can be equipped with many accessories among which the brake on the slow shaft and the electric/manual manouvre.



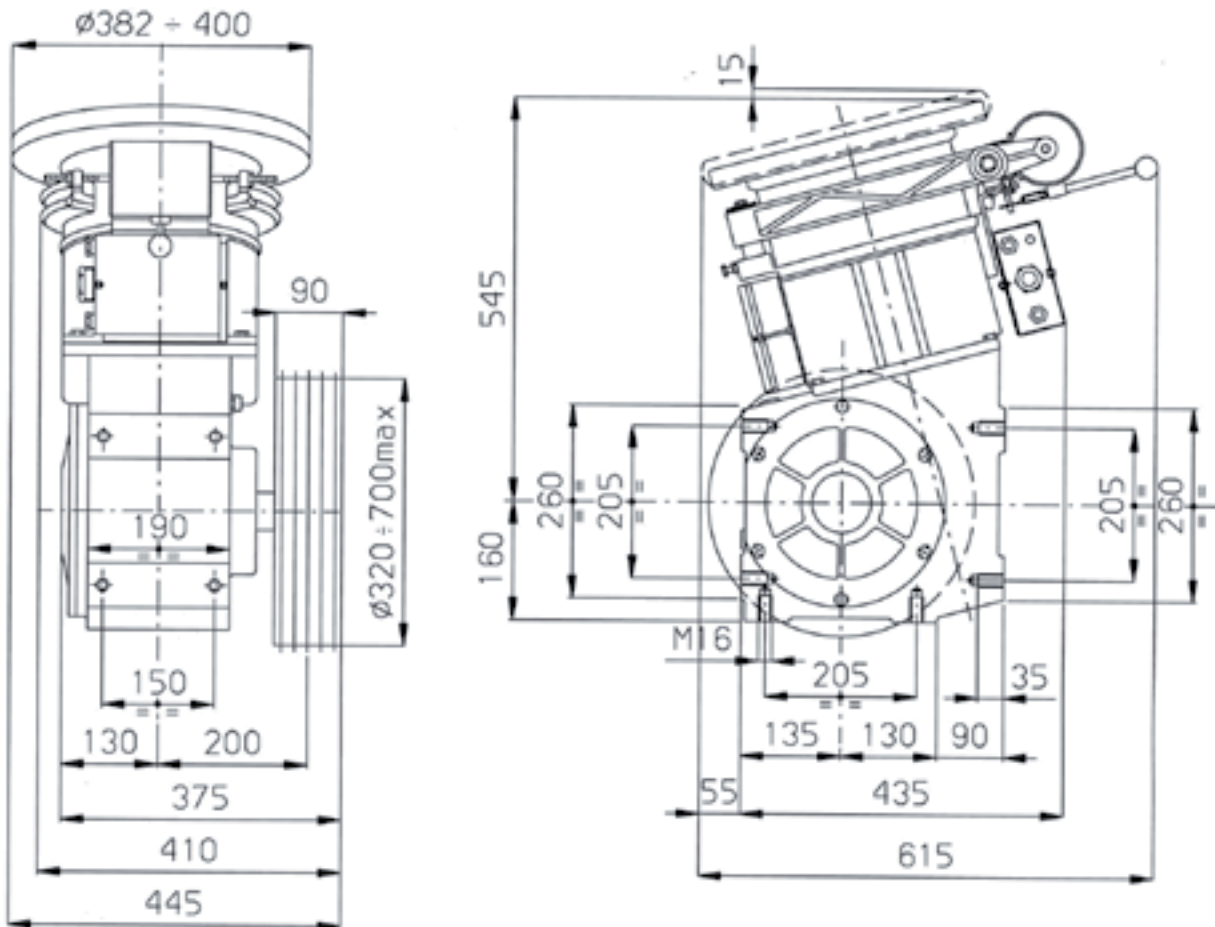
FEATURES

Max static load: 2.400 kg
 Range Power at 4/16 poles: 3,5 ÷ 4,9 kW sync
 Range Power VVVF at 4 poles: 3,3 ÷ 5,9 kW sync
 Moment of inertia J with motor AC2J: 0,468 ÷ 0,483 kgm²
 Moment of inertia J with motor VVVFJ: 0,198 kgm²
 Ratio: 1/45 - 1/55 - 1/71 - 2/57

SHEAVE L = 90 mm						
Rope (mm)	Ø Sheave min (mm)	Pitch (mm) - Grooves				Weight (kg)
		3	4	5	6	
8	320	18	18	18	14	24,5
8 - 9	360	18	18	18	14	26,5
10	400	18	18	18		28,8
11	450	18	18	17		33,2
12	480	18	18	17		34,6
13	520	21	21			37,9
14	560	21	21			40,8
15	600	21	21			42
16	700	21	21			48

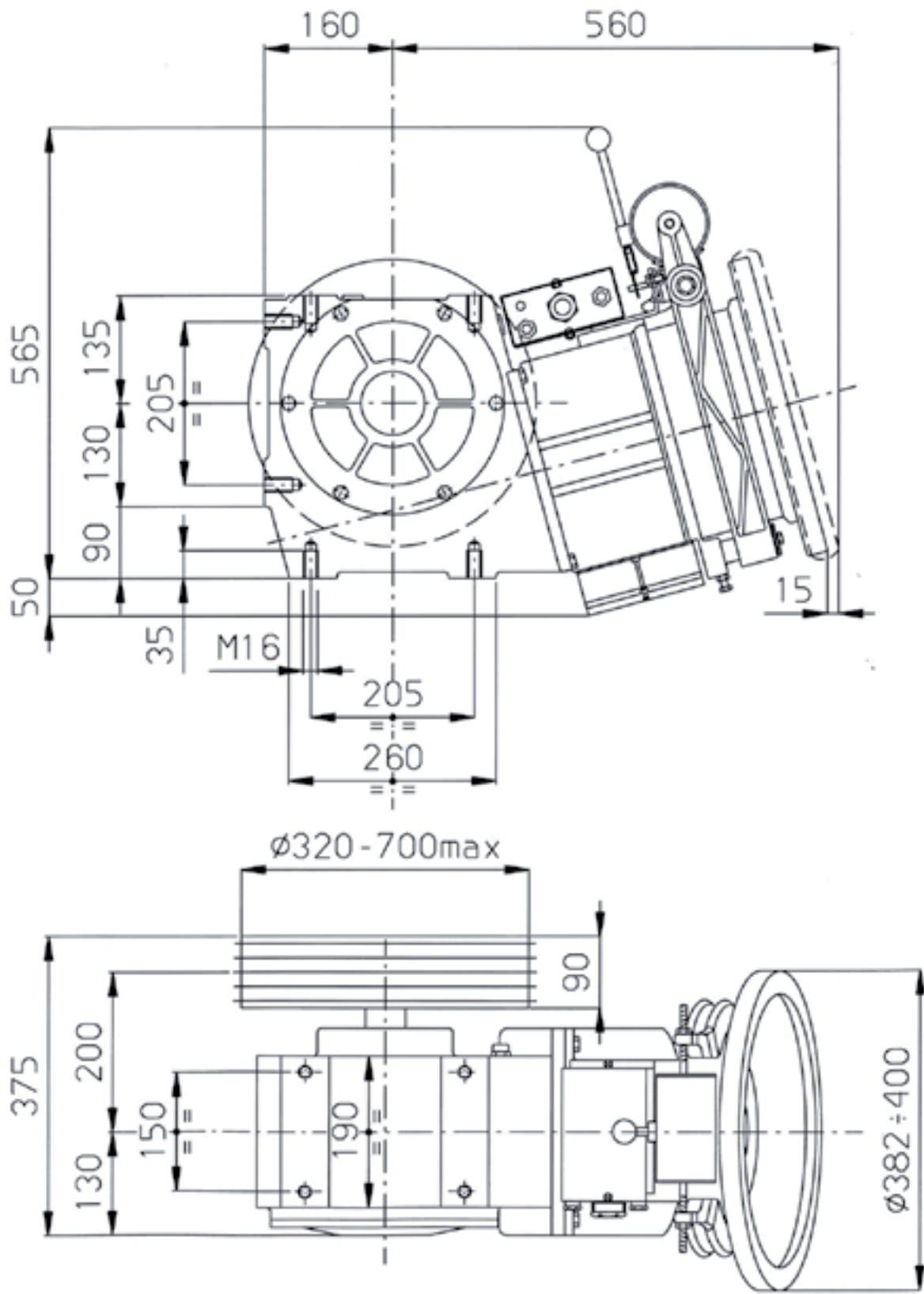
DRAWING

GEKO Vertical



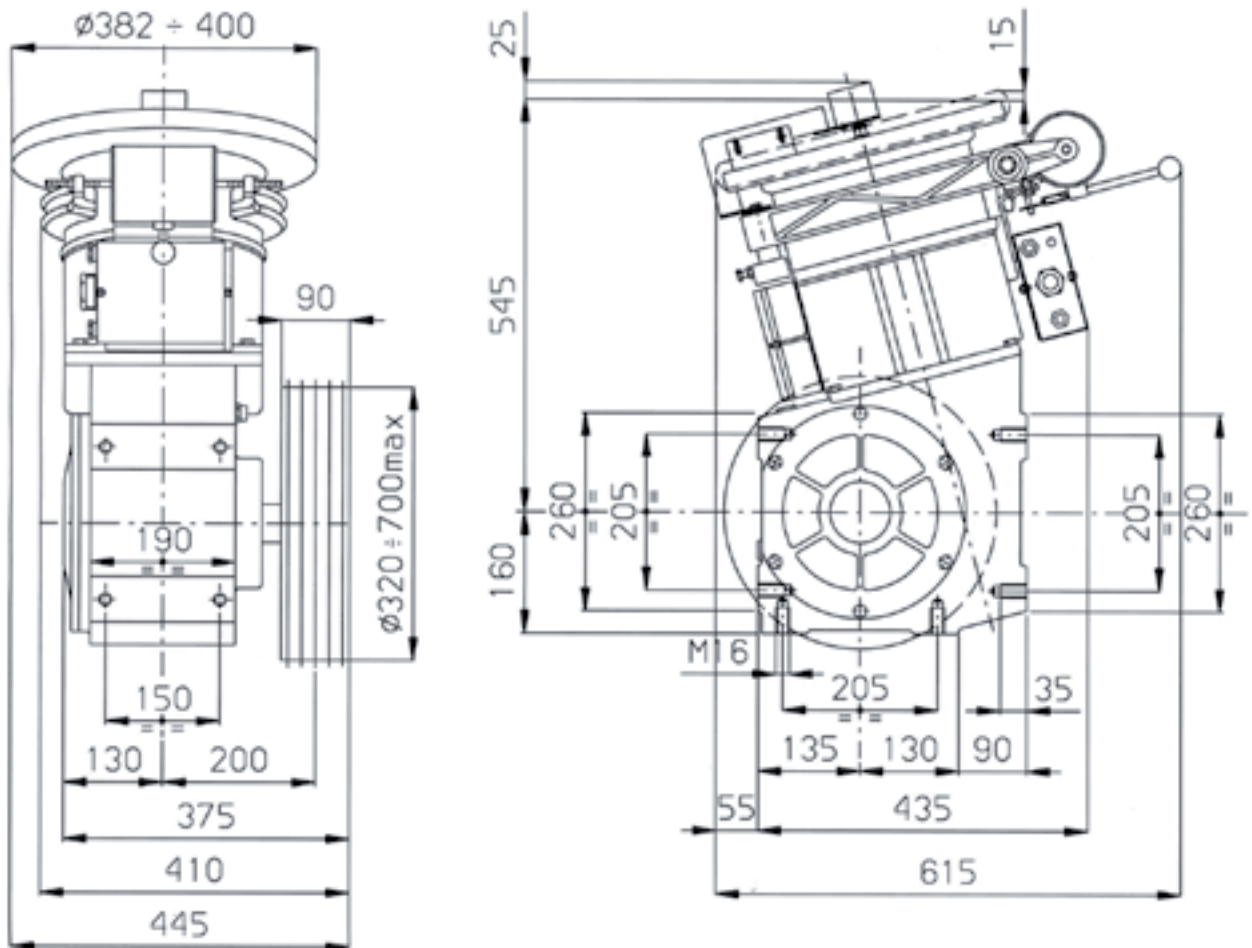
DRAWING

GEKO Horizontal right



DRAWING

GEKO Encoder coupling



4/16 - Speed 1500 rpm - Max static load 2400 kg

DUTY TABLE

Out of balance load in kg with shaft efficiency = 0,8

kW Synchronous								Speed (m/s)	Ratio	Ø Sheave (mm)
3,5	4,0	4,9								
476							0,39	1/71	360	
422							0,44	1/71	400	
379							0,49	1/71	450	
386	442	539					0,51	1/55	360	
350							0,53	1/71	480	
345	396	482					0,57	1/55	400	
325							0,57	1/71	520	
304							0,61	1/71	560	
330	378	461					0,62	1/45	360	
308	353	429					0,64	1/55	450	
288							0,66	1/71	600	
290	332	404					0,68	1/55	480	
297	340	414					0,69	1/45	400	
266	305	371					0,74	1/55	520	
240							0,77	1/71	700	
262	301	366					0,78	1/45	450	
249	286	348					0,79	1/55	560	
247	283	344					0,83	1/45	480	
232	265	323					0,85	1/55	600	
227	261	318					0,90	1/45	520	
211	242	300					0,97	1/45	560	
226	259	316					1,00	2/57	360	
195	225	285					1,00	1/55	700	
197	226	285					1,04	1/45	600	
203	233	284					1,10	2/57	400	
165	190	230					1,22	1/45	700	
180	207	252					1,24	2/57	450	
170	194	237					1,32	2/57	480	
157	179	219					1,43	2/57	520	
145	167	203					1,54	2/57	560	
136	156	190					1,65	2/57	600	
115	130	160					1,93	2/57	700	

VF S/D - Duty Load 320 kg

CABIN		GEAR	MOTOR				INVERTER	Ø of SHEAVE / Hz to be adjusted by the 3VF									
Duty load	m/s	Reduction ratio	Nm	IN (A)	kW	Star connection	kW	360	400	450	480	520	560	600	700		
320	0.6	1/45	10.8	5.2	1.6	S/400	3.0	47.8									
			12.1	5.2	1.6	S/400	3.0		43.0								
			18.0	5.3	1.7	S/400	3.0								30.7		
			14.2	5.3	1.7	S/400	3.0				38.2						
			15.2	5.3	1.7	S/400	3.0						35.8				
			16.6	5.3	1.7	S/400	3.0							33.1			
			2/57	16.3	5.1	1.5	S/400	3.0	30.2								
	0.7	1/45	16.3	5.6	2.0	S/400	3.0						38.6		35.8		
			18.0	5.7	2.0	S/400	3.0										
			12.0	5.5	1.9	S/400	3.0			50.1							
			13.8	5.6	1.9	S/400	3.0				44.6						
			14.9	5.6	2.0	S/400	3.0					41.8					
			19.4	5.7	2.0	S/400	3.0									33.4	
			2/57	16.3	5.5	1.8	S/400	3.0	35.3								
				18.3	5.5	1.8	S/400	3.0		31.8							
	0.8	1/45	23.0	6.2	2.4	S/400	3.0									32.7	
			13.6	5.9	2.2	S/400	3.0				50.9						
			14.6	5.9	2.2	S/400	3.0					47.8					
16.1			6.0	2.2	S/400	3.0						44.1					
17.6			6.0	2.3	S/400	3.0							40.9				
19.4			6.2	2.3	S/400	3.0									38.2		
		2/57	20.8	5.9	2.1	S/400	3.0			32.3							
			22.3	5.9	2.1	S/400	3.0				30.2						
			16.1	5.7	2.0	S/400	3.0	40.3									
			18.3	5.7	2.1	S/400	3.0		36.3								
0.9	1/45	23.0	6.6	2.7	S/400	3.0									36.8		
		15.9	6.3	2.5	S/400	3.0						49.6					
		17.4	6.5	2.5	S/400	3.0							46.0				
		18.8	6.5	2.5	S/400	3.0									43.0		
				2/57	24.4	6.3	2.4	S/400	3.0					31.4			
					27.0	6.3	2.5	S/400	3.0						29.2		
			20.8	6.2	2.4	S/400	3.0			36.3							
			22.3	6.2	2.4	S/400	3.0				34.0						
			16.0	6.0	2.3	S/400	3.0	45.4									
			18.1	6.2	2.3	S/400	3.0		40.8								
1.0	1/45	22.5	7.0	2.9	S/400	3.0								51.2	40.9		
		17.2	6.8	2.8	S/400	3.0											
		18.6	6.8	2.8	S/400	3.0											
				2/57	24.4	6.6	2.7	S/400	3.0					34.9			
					26.5	6.6	2.7	S/400	3.0						32.4		
					28.7	6.8	2.7	S/400	3.0								
			20.5	6.6	2.6	S/400	3.0			40.3				30.2			
			22.3	6.6	2.7	S/400	3.0				37.8						
			15.9	6.5	2.5	S/400	3.0	50.4									
			18.0	6.5	2.6	S/400	3.0		45.4								
1.2	1/45	22.1	8.5	3.4	S/400	4.0									49.1		
				2/57	24.1	7.7	3.2	S/400	4.0					41.9			
					26.3	7.9	3.2	S/400	4.0						38.9		
					28.7	7.9	3.3	S/400	4.0								
					34.4	8.2	3.4	S/400	4.0								
					20.3	7.5	3.1	S/400	4.0			48.4					
			21.9	7.7	3.1	S/400	4.0				45.4						
1.4	2/57	23.8	10.5	3.7	400/D	5.5						48.9					
		26.1	10.7	3.7	400/D	5.5							45.4				
		28.3	10.7	3.8	400/D	5.5								42.3			
		34.4	10.9	3.9	400/D	5.5											
			21.8	10.5	3.6	400/D	5.5				52.9			36.3			
1.6	2/57	25.9	11.3	4.2	400/D	5.5							51.8				
		28.0	11.3	4.2	400/D	5.5								48.4			
			33.8	11.6	4.4	400/D	5.5										
1.8	2/57	33.6	12.4	4.9	400/D	5.5											
2.0	2/57	33.5	13.2	5.5	400/D	7.5											

PERFORMANCE

VF S/D - Duty Load 400 kg

CABIN		GEAR	MOTOR				INVERTER	Ø of SHEAVE / Hz to be adjusted by the 3VF									
Duty load	m/s	Reduction ratio	Nm	IN (A)	kW	Star connection	kW	360	400	450	480	520	560	600	700		
400	0.6	1/45	13.4	5.7	2.0	S/400	3.0	47.8									
			15.2	5.7	2.0	S/400	3.0		43.0								
			22.4	5.9	2.2	S/400	3.0								30.7		
			17.8	5.9	2.1	S/400	3.0				38.2						
			19.0	5.9	2.1	S/400	3.0					35.8					
			20.7	5.9	2.2	S/400	3.0						33.1				
			2/57	20.4	5.6	1.9	S/400	3.0	30.2								
		0.7	1/45	20.4	6.3	2.5	S/400	3.0					38.6				
	22.4			6.5	2.5	S/400	3.0							35.8			
	15.0			6.2	2.4	S/400	3.0			50.1							
	17.2			6.3	2.4	S/400	3.0					44.6					
	18.7			6.3	2.4	S/400	3.0						41.8				
	24.2			6.5	2.5	S/400	3.0										33.4
			2/57	20.4	6.0	2.3	S/400	3.0	35.3								
				22.8	6.0	2.3	S/400	3.0		31.8							
		0.8	1/45	28.8	7.2	3.0	S/400	3.0									32.7
	17.0			6.8	2.7	S/400	3.0					50.9					
	18.3			6.8	2.7	S/400	3.0						47.8				
	20.1			6.8	2.8	S/400	3.0							44.1			
	22.1			7.0	2.8	S/400	3.0								40.9		
	24.2			7.2	2.9	S/400	3.0										38.2
			2/57	25.9	6.6	2.6	S/400	3.0			32.3						
				27.9	6.6	2.7	S/400	3.0				30.2					
				20.1	6.5	2.6	S/400	3.0	40.3								
			22.8	6.6	2.6	S/400	3.0		36.3								
	0.9	1/45	28.8	8.2	3.3	S/400	4.0									36.8	
19.9			7.7	3.1	S/400	4.0							49.6				
21.8			7.7	3.2	S/400	4.0									46.0		
23.5			7.7	3.2	S/400	4.0										43.0	
				2/57	33.7	7.5	3.1	S/400	4.0							29.2	
					30.5	7.5	3.0	S/400	4.0					31.4			
			25.9	7.2	3.0	S/400	3.0			36.3							
			27.9	7.2	3.0	S/400	3.0				34.0						
			20.0	7.0	2.8	S/400	3.0	45.4									
			22.6	7.0	2.9	S/400	3.0		40.8								
	1.0	1/45	28.1	10.5	3.6	400/D	5.5									40.9	
21.5			10.3	3.5	400/D	5.5									51.2		
23.3			10.3	3.5	400/D	5.5										47.8	
				2/57	35.9	8.5	3.4	S/400	4.0							30.2	
					30.5	8.2	3.3	S/400	4.0						34.9		
					33.1	8.2	3.4	S/400	4.0							32.4	
			25.7	7.9	3.3	S/400	4.0			40.3							
			27.9	8.2	3.3	S/400	4.0				37.8						
			19.9	7.7	3.1	S/400	4.0	50.4									
			22.4	7.7	3.2	S/400	4.0		45.4								
	1.2	1/45	27.6	11.3	4.3	400/D	5.5									49.1	
				2/57	35.9	11.0	4.1	400/D	5.5							36.3	
					30.1	10.9	4.0	400/D	5.5					41.9			
					32.8	11.0	4.0	400/D	5.5							38.9	
					25.3	10.8	3.9	400/D	5.5			48.4					
					27.4	10.9	3.9	400/D	5.5				45.4				
	1.4	2/57	35.4	12.1	4.7	400/D	5.5								42.1		
				29.8	11.8	4.6	400/D	5.5						48.9			
				32.6	11.9	4.6	400/D	5.5							45.4		
				27.3	11.8	4.5	400/D	5.5				52.9					
	1.6	2/57	32.3	12.9	5.3	400/D	5.5							51.8			
				34.9	13.1	5.3	400/D	7.5								48.4	

PERFORMANCE

VF S/D - Duty Load 480 kg

CABIN		GEAR	MOTOR				INVERTER	Ø of SHEAVE / Hz to be adjusted by the 3VF								
Duty load	m/s	Reduction ratio	Nm	IN (A)	kW	Star connection	kW	360	400	450	480	520	560	600	700	
480	0.6	1/45	16.1	6.3	2.4	5/400	3.0	47.8								
			18.2	6.3	2.5	5/400	3.0		43.0							
			26.9	6.5	2.6	5/400	3.0							30.7		
			21.3	6.5	2.6	5/400	3.0				38.2					
			22.8	6.5	2.6	5/400	3.0					35.8				
			24.9	6.5	2.6	5/400	3.0						33.1			
			2/57	24.4	6.2	2.3	5/400	3.0	30.2							
	0.7	1/45	24.4	7.2	3.0	5/400	3.0							38.6		
			26.9	7.5	3.0	5/400	4.0							35.8		
			18.0	7.0	2.8	5/400	3.0			50.1						
			20.6	7.0	2.9	5/400	3.0				44.6					
			22.4	7.2	2.9	5/400	3.0					41.8				
			29.1	7.5	3.1	5/400	4.0								33.4	
			2/57	24.4	6.8	2.7	5/400	3.0	35.3							
				27.4	6.8	2.7	5/400	3.0		31.8						
	0.8	1/45	34.5	10.4	3.6	400/D	5.5									32.7
			20.4	7.9	3.3	5/400	4.0					50.9				
			21.9	7.9	3.3	5/400	4.0						47.8			
			24.1	8.2	3.3	5/400	4.0							44.1		
			26.5	8.5	3.4	5/400	4.0								40.9	
			29.1	10.3	3.5	400/D	5.5									38.2
			2/57	31.1	7.7	3.2	5/400	4.0			32.3					
				33.5	7.7	3.2	5/400	4.0				30.2				
				24.2	7.5	3.1	5/400	4.0	40.3							
			27.4	7.7	3.1	5/400	4.0		36.3							
0.9	1/45	34.5	10.9	4.0	400/D	5.5									36.8	
		23.9	10.7	3.7	400/D	5.5						49.6				
		26.2	10.7	3.8	400/D	5.5							46.0			
		28.2	10.8	3.8	400/D	5.5								43.0		
				2/57	36.6	10.5	3.6	400/D	5.5				31.4			
					31.1	10.4	3.6	400/D	5.5			36.3				
			33.5	10.4	3.6	400/D	5.5					34.0				
			24.0	10.3	3.4	400/D	5.5	45.4								
			27.1	10.3	3.5	400/D	5.5		40.8							
1.0	1/45	33.8	11.5	4.3	400/D	5.5									40.9	
		25.8	11.2	4.1	400/D	5.5								51.2		
		27.9	11.2	4.2	400/D	5.5								47.8		
				2/57	36.6	11.0	4.0	400/D	5.5				34.9			
					39.8	11.0	4.0	400/D	5.5					32.4		
					30.8	10.9	3.9	400/D	5.5			40.3				
			33.5	10.9	4.0	400/D	5.5				37.8					
			23.8	10.7	3.8	400/D	5.5	50.4								
			26.9	10.8	3.8	400/D	5.5		45.4							
1.1	1/45	33.4	12.1	4.7	400/D	5.5									45.0	
		27.9	11.8	4.6	400/D	5.5								52.5		
				2/57	36.2	11.5	4.4	400/D	5.5				38.4			
					39.8	11.6	4.5	400/D	5.5					35.6		
					30.6	11.3	4.3	400/D	5.5			44.4				
					33.2	11.5	4.3	400/D	5.5				41.6			
			26.7	11.2	4.2	400/D	5.5			49.9						
1.2	1/45	33.1	12.7	5.1	400/D	5.5									49.1	
				2/57	36.2	12.1	4.8	400/D	5.5				41.9			
					39.4	12.2	4.8	400/D	5.5					38.9		
					30.4	11.9	4.6	400/D	5.5			48.4				
					32.9	11.9	4.7	400/D	5.5				45.4			
					35.7	13.2	5.5	400/D	7.5					48.9		
1.4	2/57	39.1	13.4	5.6	400/D	7.5							45.4			
		32.7	13.2	5.4	400/D	7.5					52.9					
1.5	2/57	35.8	13.9	5.9	400/D	7.5						52.3				
		38.7	14.1	5.9	400/D	7.5							48.6			

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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