


SG40HF

GEARLESS MACHINES SG SERIES



Model	For rated loads up to [kg]	Car speed range in 2:1 [m/s]	Traction sheaves diameter range [mm]	Max Static Load [kN-kg]
SG40HF 	2000	0,63 ... 2,50	120(*), 160(*) , 200, 210, 240, 270, 320, 360, 400, 450, 480, 520	34,3-3500

With sheave on drive side.

* Pu-coated ropes

Highlighted pulley diameter is the one used to calculate max allowed capacity in standard condition (see calculation for each model).

Sample data; for more detailed evaluations we recommend our product configurator.



SG40HF

Rated Torque **550 Nm (S3 40%)**
 Braking Torque **2x600Nm**
 Power Range (min - max) **6,9 - 21,9 kW**
 Maximum Static Load **34,3 kN - 3500 kg**
 Maximum Weight **258 kg**
 Motor Rated Voltage **360 V - 208 V**



CONFIGURATION EXAMPLES TABLE**

Model	Ø Traction sheave	Car speed	Q Rated load	P Car weight	rpm	P ***	I ***	Installation frequency	Ropes Nr x diameter Ø
	[mm]	[m/s]	[kg]	[kg]	[min ⁻¹]	[kW]	[A]	[Hz]	[mm]
SG40185HF	160	0,63	2000	1650	191	7,63	20,3	25,1	8 x 6,5(*)
SG40185HF	160	1	2000	1650	255	12,1	26,4	39,8	8 x 6,5(*)
SG40185HF	160	1,6	2000	1650	380	19,3	39,7	63,5	8 x 6,5(*)
SG40185HF	200	0,63	1600	1600	119	6,14	13,4	20,1	7 x 6,5(*)
SG40185HF	200	1	1600	1600	191	9,71	20,4	31,8	7 x 6,5(*)
SG40185HF	240	0,63	1275	1400	119	5,36	14,1	16,7	10 x 6,5
SG40185HF	240	1	1275	1400	191	8,39	21,1	26,5	9 x 6,5
SG40185HF	270	0,63	1000	1200	119	4,56	13,5	14,9	8 x 8
SG40185HF	270	1	1000	1200	191	7,22	20,4	23,6	8 x 8

Configurations specifications

Harmonized standards of reference	EN 81-20 e EN 81-50
Roping - Wrapping type	2:1 - Conventional Single Wrap
Machine position	Top
Compartment efficiency	0,9
Nr of deflection pulleys on ball bearings	2 For rated load ≤ 1000 kg 3 For rated load > 1000 kg
Counterweight balancing	50%
Travel height	30 m
Duty cycle	S3 40%
Starts/hour	180
Wrapping angle	180°
Acceleration	0,3±0,5m/s ² for car speed ≤ 1 m/s 0,5±0,7m/s ² for car speed > 1 m/s

Refer to the product configurator for the value of the short circuit torque, the relative speed and the minimum voltage that allows the operation of gearless machine.

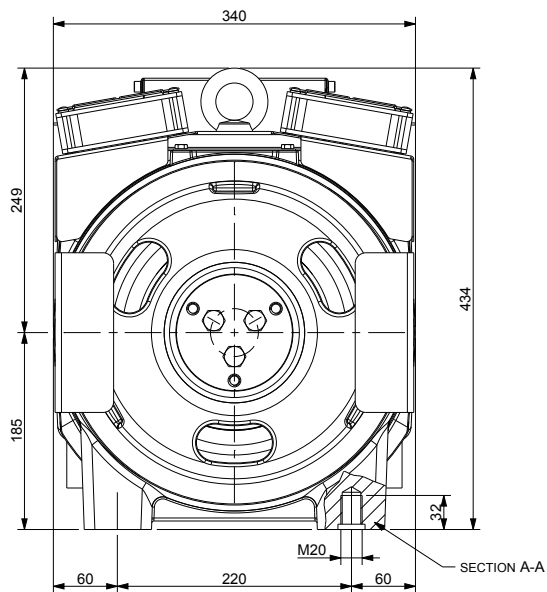
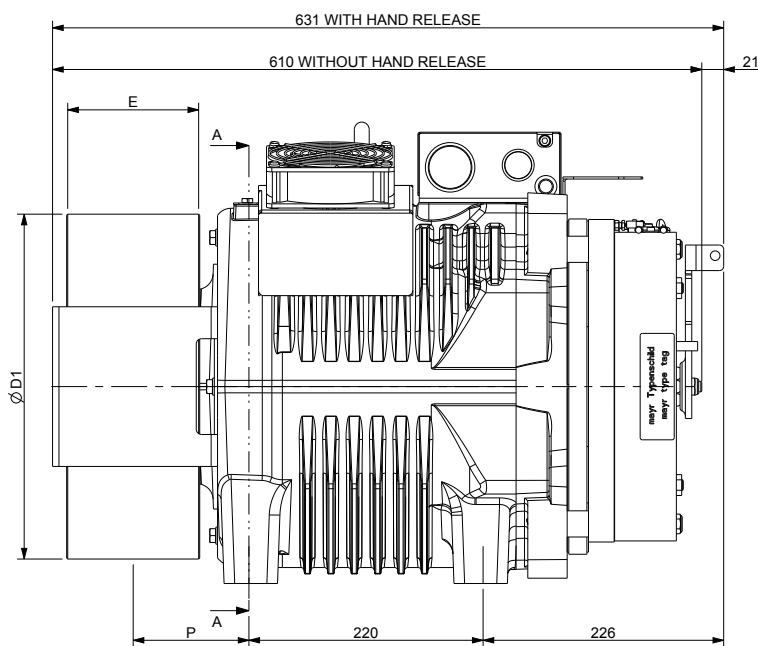
* Pu-coated ropes

** Sample data; for more detailed evaluations we recommend our product configurator.

*** Values referred to configuration table (360V)

SG40HF - DIMENSIONS

Mod. SG40185HF



Ø D1	E	P	Max Weight	Inertia	Roping System	Torque S3 40%	Max Static Load	Max Power **
[mm]	[mm]	[mm]	[kg]	[kgm ²]		[Nm]	[kN - kg]	[kW]
120	125	114	258	0,27	CSW*	550	34,3 - 3500	21,9
160				0,31				
200				0,36				
210				0,39				
240				0,45				
270				0,70				
320		109		0,79				
360	100	101		0,86				
400				1,16				
450	110	106		1,58				
480	125	114		2,21				
520	110	106		2,56				

Brake Specifications

Braking Torque: 2x600 [Nm]
Standard Supply Voltage: 207 [V DC]
Power: 2x92 [W]
Degree of Protection: IP10

Standard Encoder Data

Type: Absolute EnDat
Model: Heidenhain ECN 1313
Positions values/rev: 2048 imp 13 bits
Degree of Protection: IP40
Standard Cable Length: 10 [m]

Ventilation data

Voltage: 220 [V]
Power: 2x16 [W]

* CSW: Conventional single wrap.

** Sample data; for more detailed evaluations we recommend our product configurator.



by
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