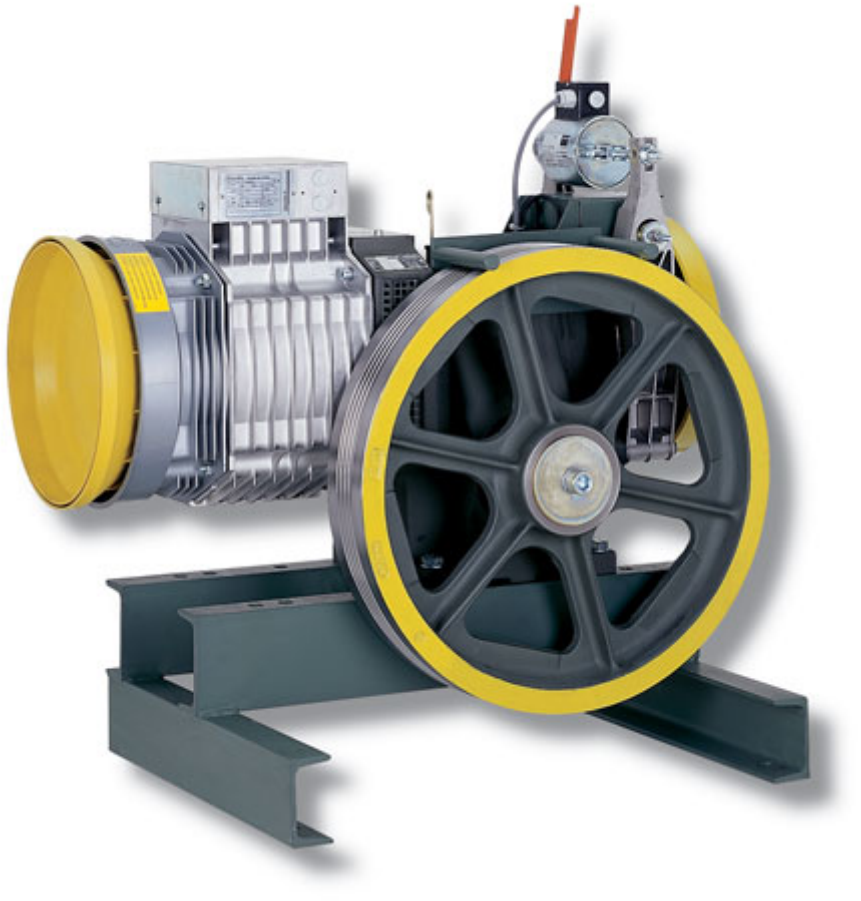


# Geared Machines

## W140N



### Geared Machine W140N



### Application range

Max. speed	1.00 m/s (AC-2 motors) 1.00 m/s (roping 2:1 VVVF-motors) 1.00 m/s (roping 1:1 VVVF-motors)
Max. load	630 kg (roping 1:1) 1'250 kg (roping 2:1)
Max. radial force	34'300 N (with outboard bearing)
Machine room location	above and below (with tie down device or S-loops)
For combination of speed and load, see table under application map.	

# Geared Machines

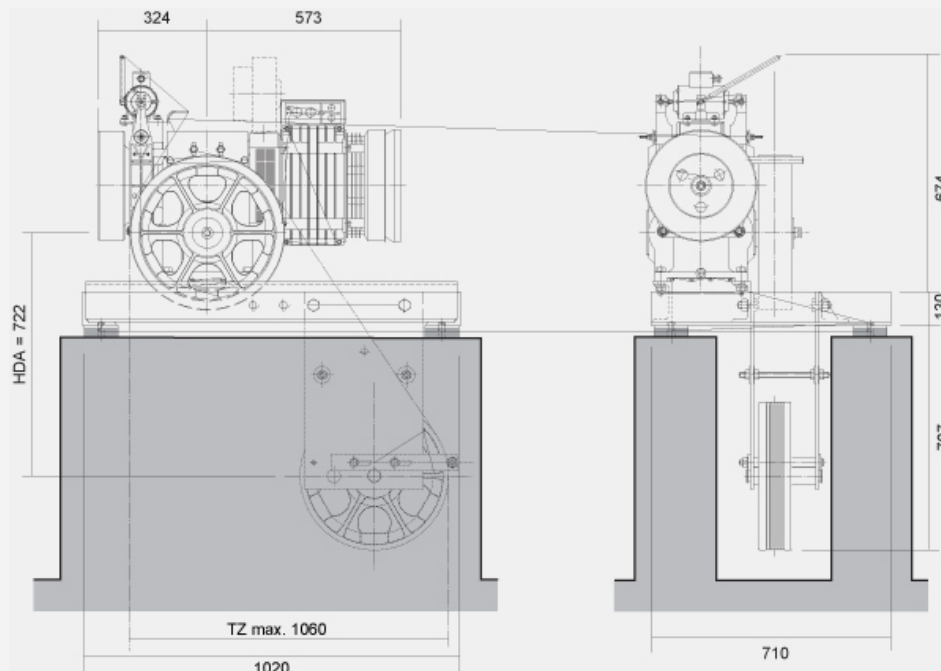
## W140N



### Features & benefits

- ✓ Compact design  
Perfectly compact design with high production quality and high efficiency factor.  
Foot-mounted motor according to IEC; modern design without housing and with bronze sleeve bearings.
- ✓ High design flexibility  
The geared machine W140N can be driven by a two speed motor or a frequency regulated motor  
Installation to be considered with or without deflection pulley.  
Construction allowing with or without outboard bearing.
- ✓ Wide range of application  
Application for car suspension 1:1 or 2:1 (roping)  
The W140N is available for machine room layout at the top or at the bottom of the hoistway.

### Dimensions (machine room above)



# Geared Machines

## W140N



Schindler

### Characteristics

Radial force	
rope pulley overhung without outboard bearing	34'300 N
rope pulley overhung with outboard bearing	34'300 N
machine room below the hoistway	25'000 N
Nominal speed VKN	
AC-2-motors	1.00 m/s
roping 2:1 VVVF-motors	1.00 m/s
roping 1:1 VVVF-motors	1.00 m/s
Nominal load GQ	
Roping 1:1	500 - 630 kg
Roping 2:1	500 - 1250 kg
Compatibility with drive	
- AC-2-motors	
rated power	4.4 – 6.7 kW
- Variodyn 30/50BR VVVF-motors	
rated power	4.4 – 8 kW
Max. number of ropes	
depending of traction sheave and deflection pulley	5 / 6
Diameter of suspension ropes	8 - 13 mm
Diameter of traction sheave	450 / 570 mm
Rope fall distance	610 – 1060 mm
Ambient conditions	
Temperature	+5 - +40 °C
Humidity	≤ 95%
Gear ratio	68/1, 54/1, 43/1 69/2, 55/2, 43/2 52/3

# Geared Machines

## W140N



### Description

Hoisting Motor	The W140N can be equipped with a two speed motor or a frequency regulated motor
Gear	Worm gear with thrust ball bearing for worm-shaft.
Traction sheave	Overhung traction sheave with/without outboard bearing.
Machine frame	With base plates and isolation pads.
Brake	Dual circuit brake with single or double expanding magnet.
Deflection pulley	Applied optional if the rope fall distance is greater than the traction sheave diameter (only if machine room is above the hoistway).
Tachometer	Digital tachometer for regulated drive.

### Application map

Roping 1:1 -- Table valid only for application with VVVF motors and Variodyn 30BR/50BR/85BR																																																	
Compensating chain	travel HQ [m]	speed VKN [m/s]																																															
yes	80	2.50	<table border="1"> <tr> <td colspan="2">W163</td> <td colspan="9">W250</td> </tr> <tr> <td colspan="3">W140NE</td> <td colspan="10">W250</td> </tr> <tr> <td colspan="3">W140N</td> <td colspan="1">W163</td> <td colspan="9">W250</td> </tr> </table>										W163		W250									W140NE			W250										W140N			W163	W250								
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yes	50	1.75																																															
yes	50	1.60																																															
yes	32	1.00																																															
no	20	0.63																																															
GK [kg]			500	630	800	1000	1250	1360	1600	2000	2500	3000																																					

Roping 2:1 -- Table valid only for application with VVVF motors and Variodyn 30BR/50BR/85BR																																																
Compensating chain	travel HQ [m]	speed VKN [m/s]																																														
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#### Note:

The table above represents the general application range and only considers the rated speed and rated load of the car. The selection of the correct inverter must be determined for each case. The gross weight of the car and the travel height (weight of the rope) have to be taken into account.