

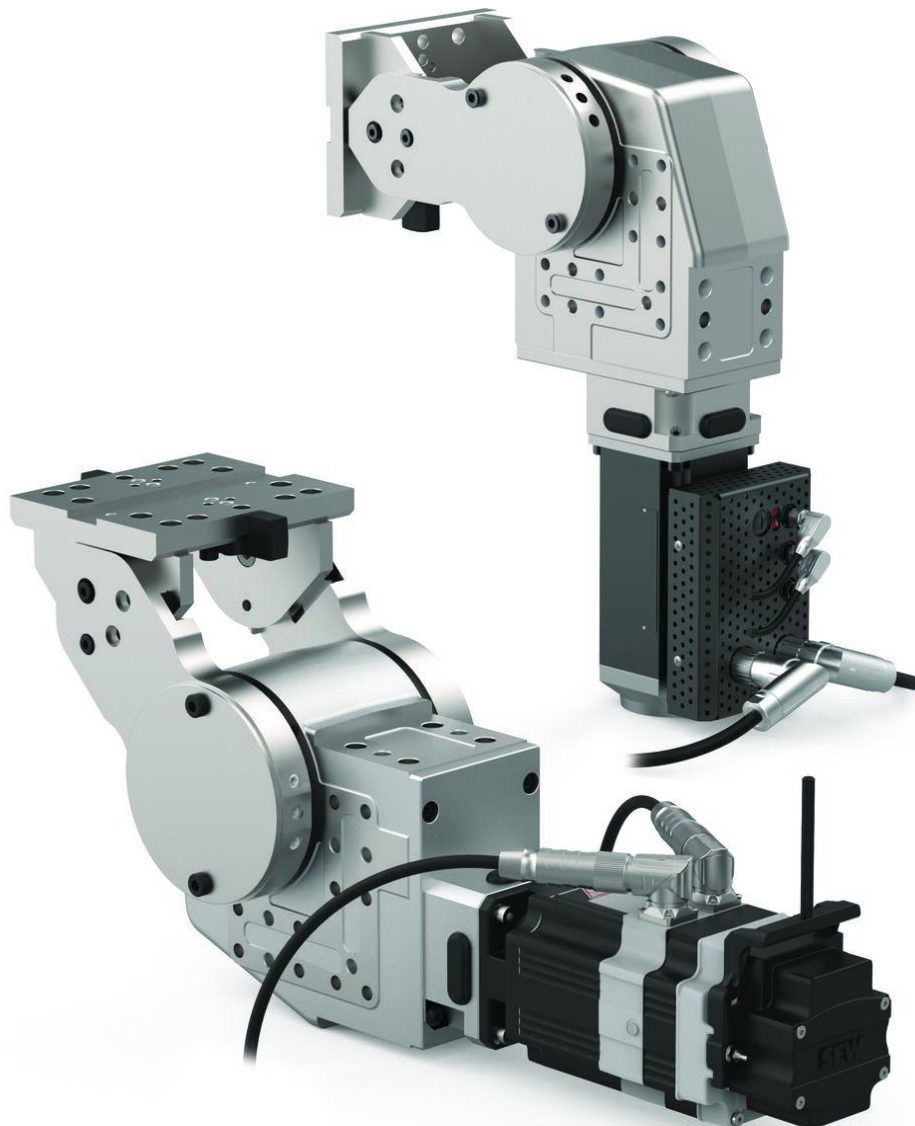
98W03 Electric Products

01/28/2025



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98W03

Electric Pivot Unit | Ordering Information

98W03

210

C

0

00

0

Motor

Drive Motor w/Brake

210

SEW 400 V for MOVIPRO

220

HEIDRIVE Servo Drive, Decentral 48 V

260

AMK Decentral 400 V

270

LENZE 400 V

310

SEW 400 V for MOVIMOT

Hard Stop

0

Description

Standard Stop

0



Motor Connections

0

Facing Back

0



Swivel Arm

Description

A

Center of Pivot Point

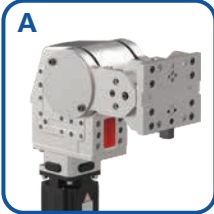
B

Below Pivot Point

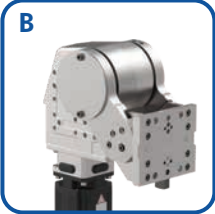
C

Above Pivot Point

A



B



C



210



220



260



270

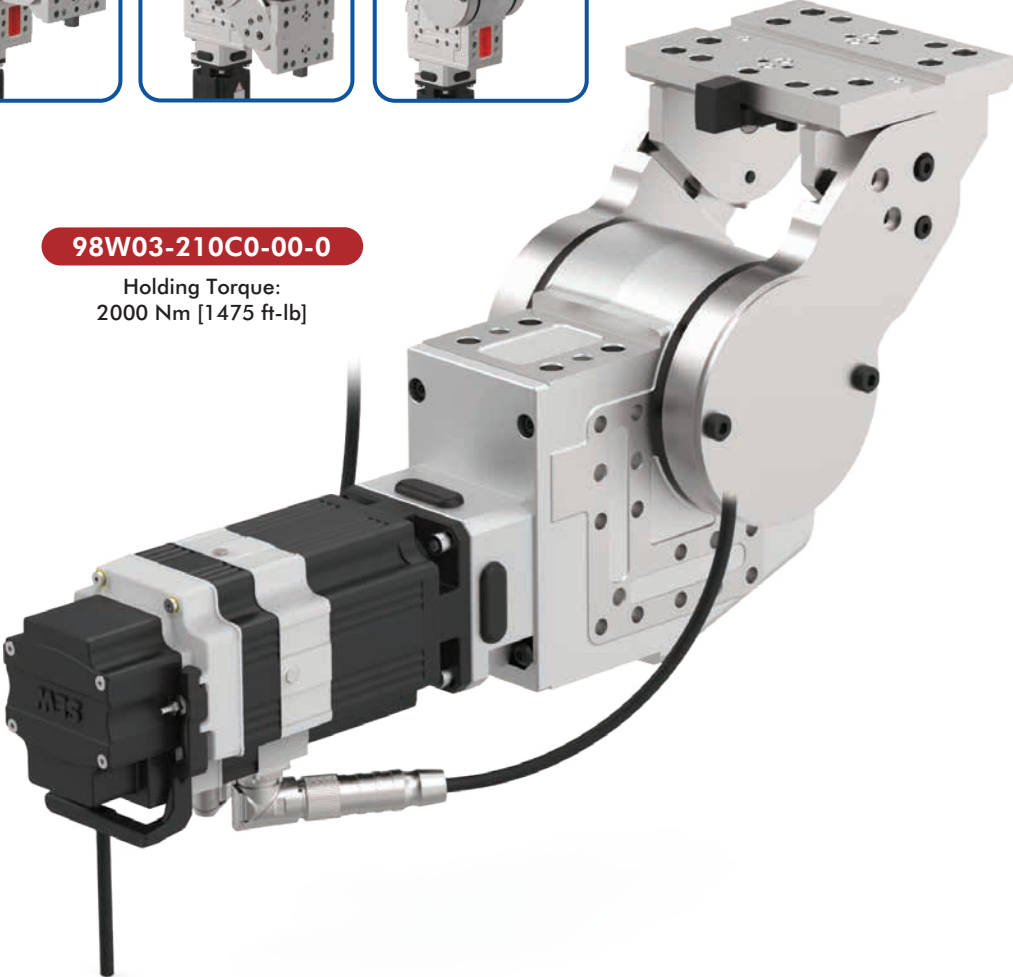


310



98W03-210C0-00-0

Holding Torque:
2000 Nm [1475 ft-lb]



Compact size and lightweight design



The 98W series electric pivot unit can share the same mounting pattern as the pneumatic pivot units, while providing greater energy savings with reduced size and weight.

One electric pivot unit replaces four sizes of pneumatic pivot units



98W03

Ø100

Ø125

Ø160

Ø200

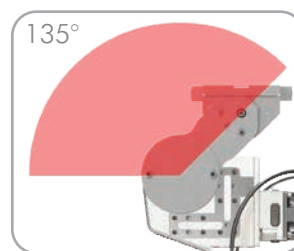
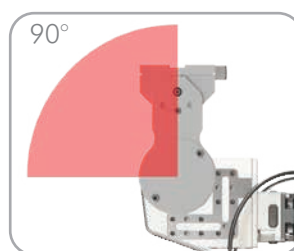
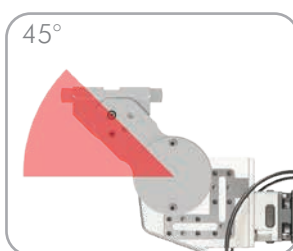
Electric Pivot Unit

Pneumatic Pivot Units

Easily adjustable saddle arm and mount

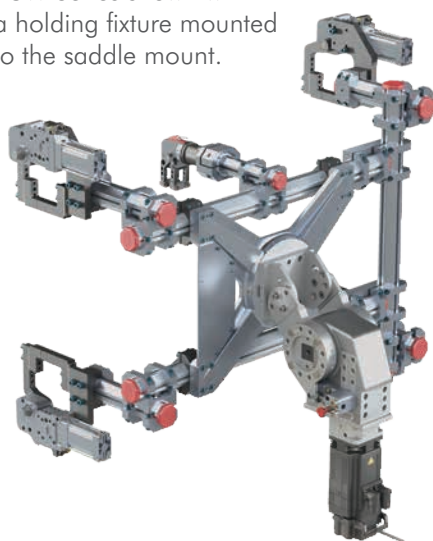
The saddle arm of the electric pivot unit can be adjusted into three different starting positions. Each starting position allows the saddle arm to be pivoted from 135° up to 210°.

With out the saddle arm, the pivot unit can be used as a rotate with 360° rotation.

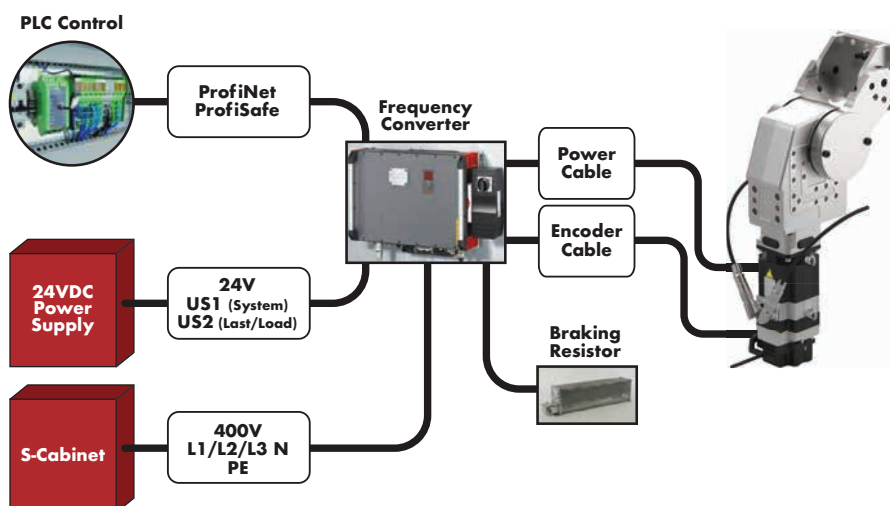


Application Example

98W Series shown with a holding fixture mounted to the saddle mount.

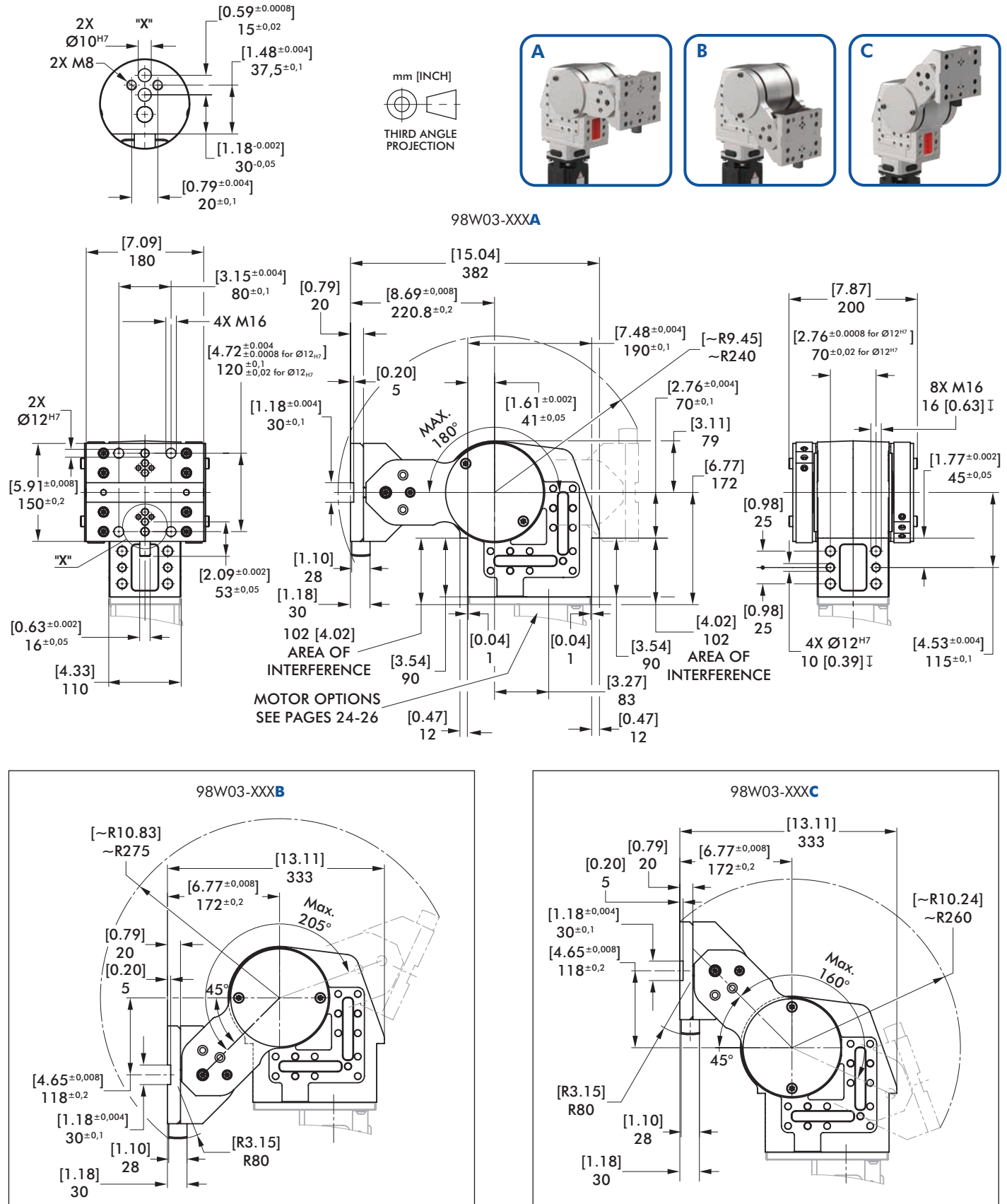


Operating Principle



98W03

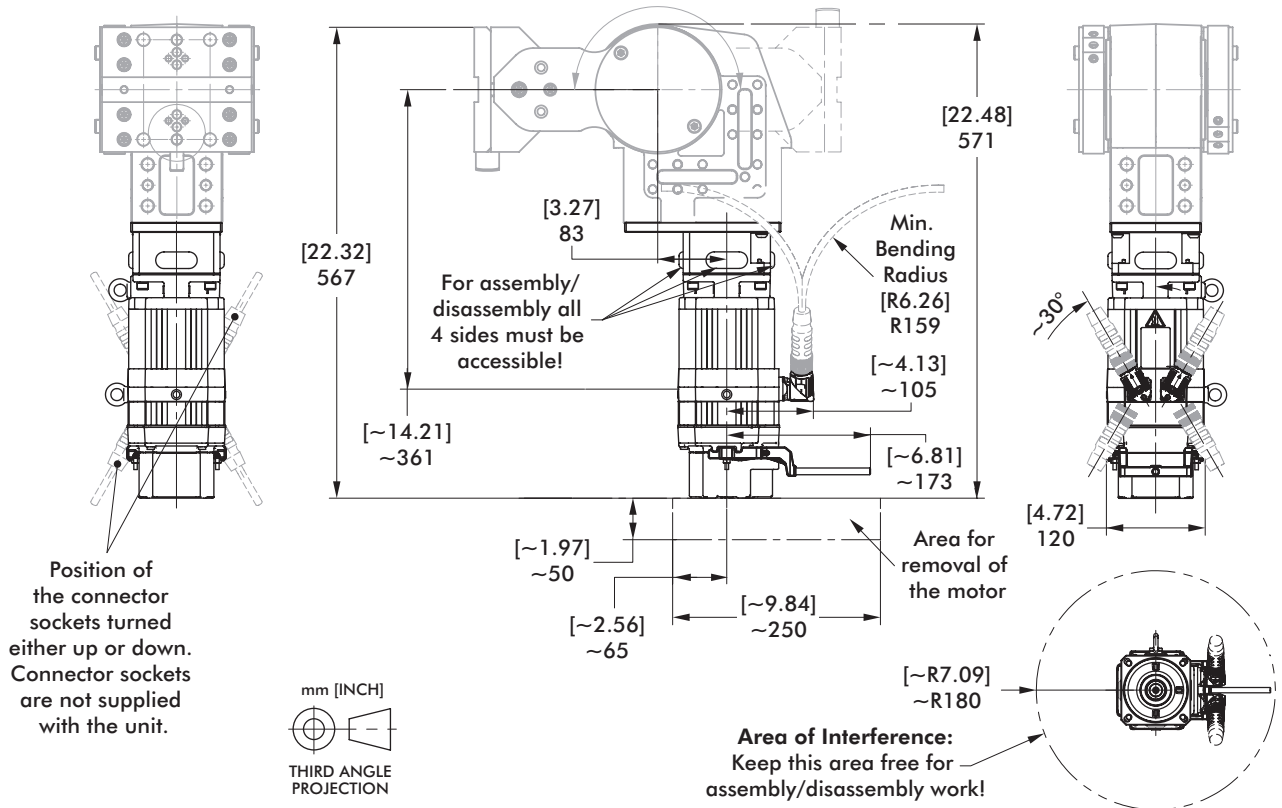
Electric Pivot Unit | Basic Unit Dimensions



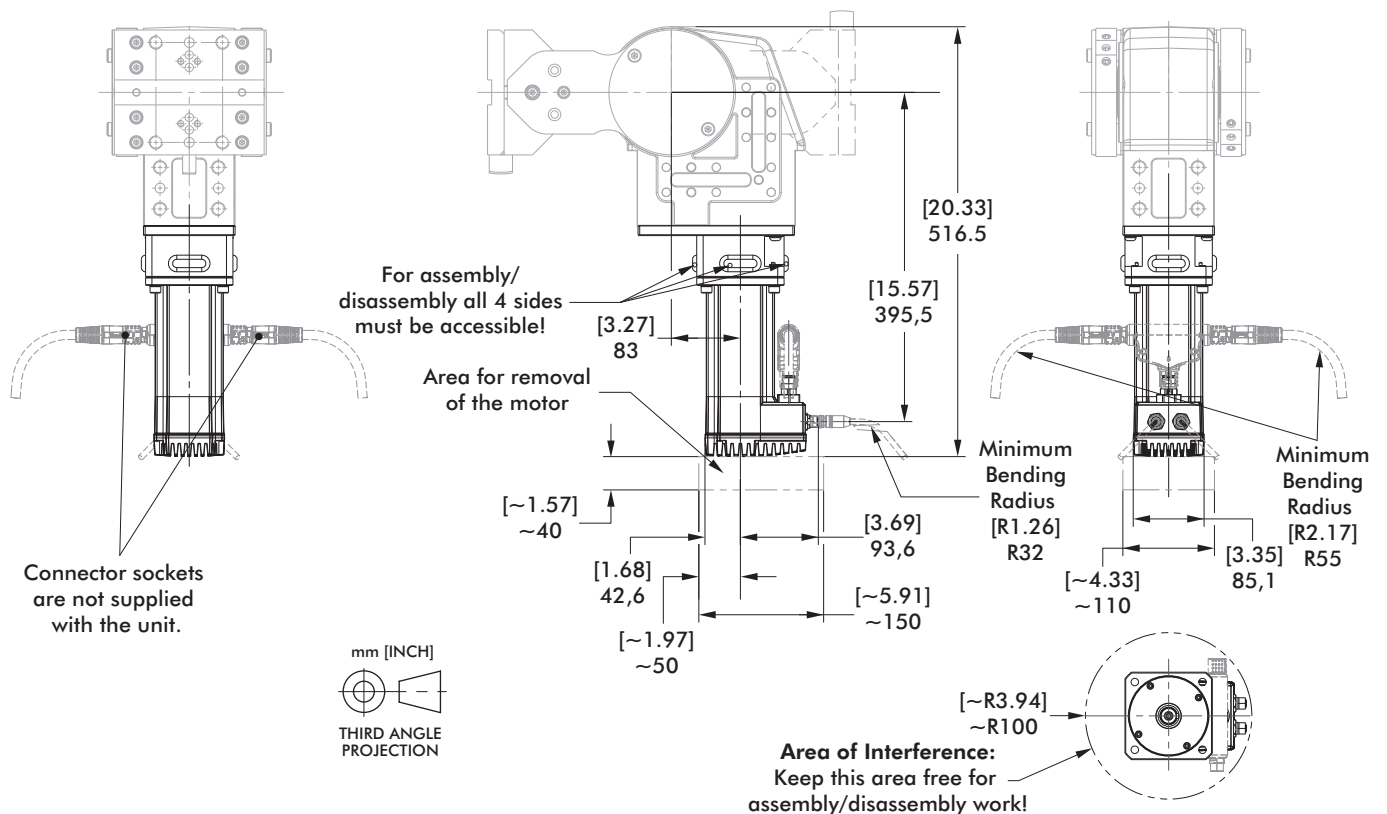
98W03 MOTOR OPTIONS

Electric Pivot Unit | Motor Dimensions

98W03-210 SEW 400 V for MOVIPRO



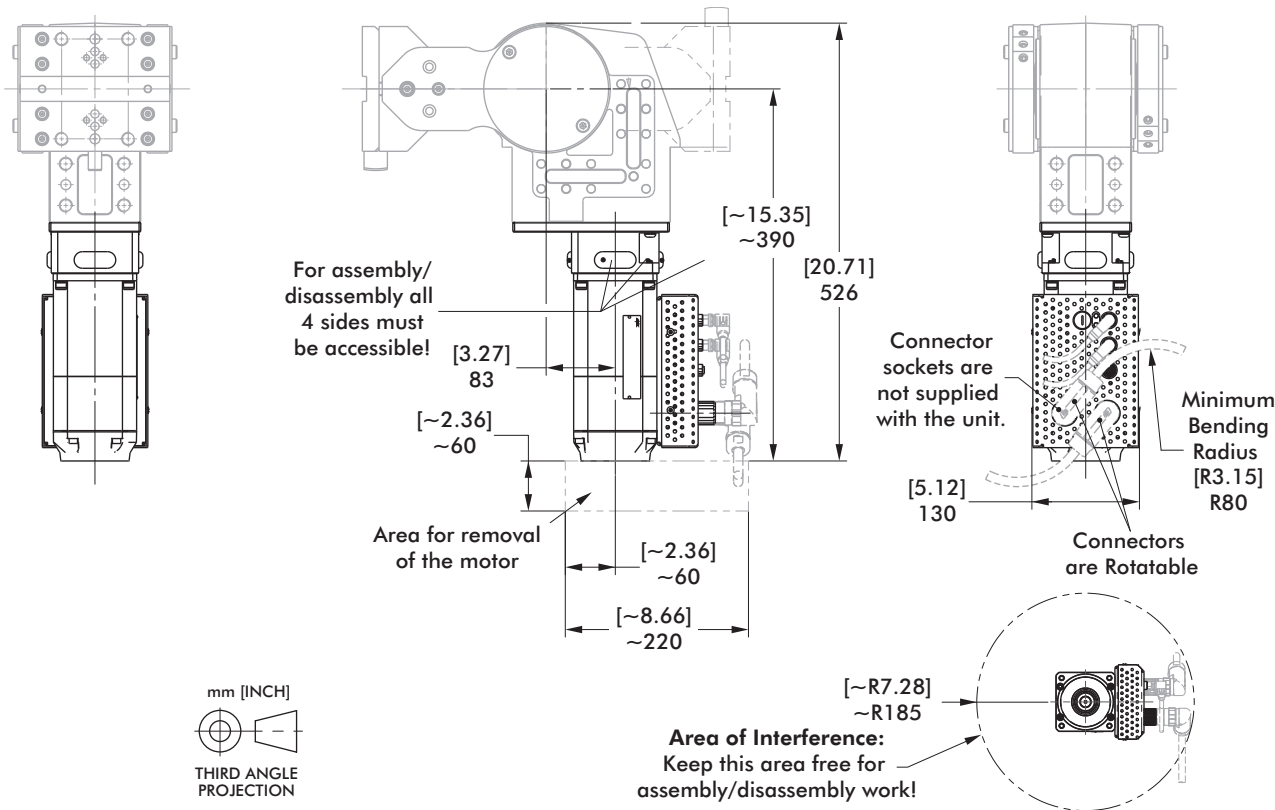
98W03-220 HEIDRIVE Servo Drive, Decentral 48 V



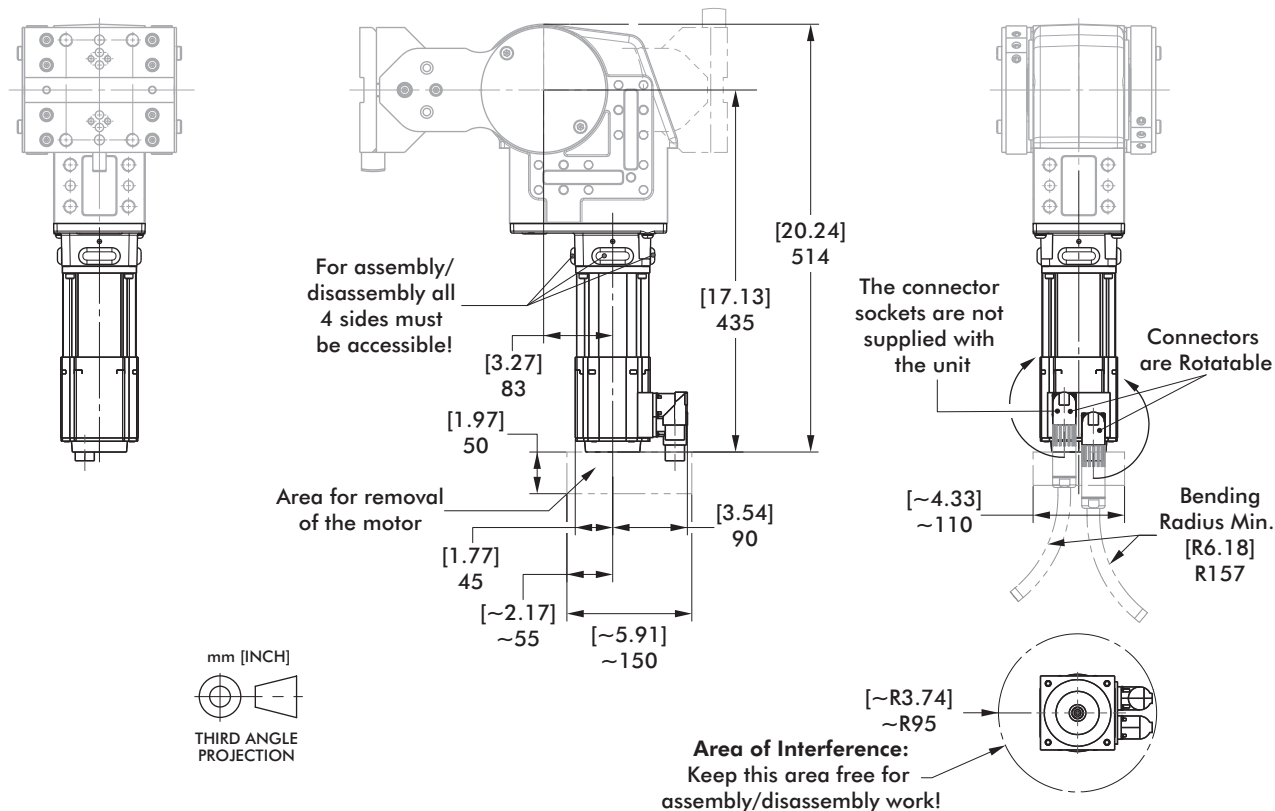
98W03 MOTOR OPTIONS

Electric Pivot Unit | Motor Dimensions

98W03-260 AMK Decentral 400 V



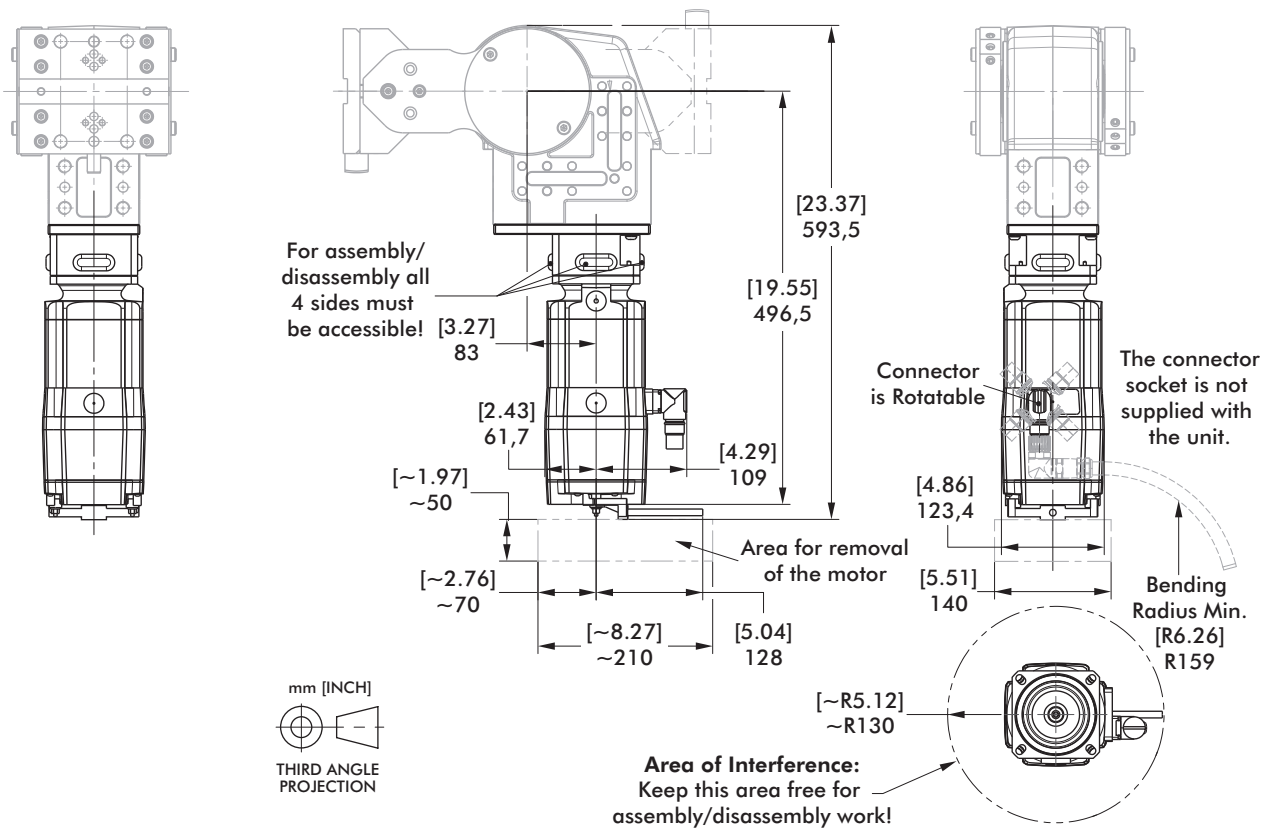
98W03-270 LENZE 400 V



98W03 MOTOR OPTIONS

Electric Pivot Unit | Motor Dimensions

98W03-310 SEW 400 V for MOVIMOT



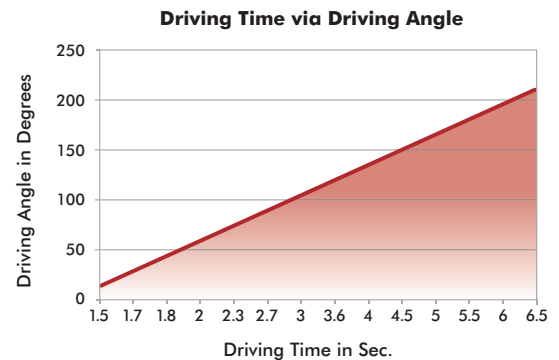
98W03

Electric Pivot Unit | Technical Specifications

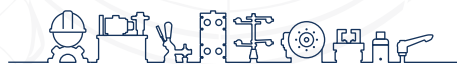
Specifications	Units	98W03-210	98W03-220	98W03-260	98W03-270	98W03-310
Brake	V	400	24	400	24	400
Temperature	°C [°F]	0°-60° [32°-140°]				
Weight	kg [lbs]	~51,5 [~113.54]	~38,3 [~84.44]	~43 [~94.80]	~38,6 [~85.10]	48,2 [~106.26]
Connection Voltage of Control Control signals from external PLC Return signal to external PLC		400 VAC	48 VDC	400 VAC	400 VAC	400 VAC
Logic		N/A	24 VDC	N/A	N/A	N/A
Speeds:						
Drive from 135° to 0°	sec.	3.1 sec / 135°				
Drive from 0° to 135°	sec.					
Maximum Output Torque	Nm [ft-lbs]	500 [369]				
Maximum Holding Torque	Nm [ft-lbs]	2000 [1475]				
Gear Ratio		420:1				
Permissible Motor Torque (Motor torque must be limited on the control side)	Nm [ft-lbs]	6 [4.4]				
Permissible Motor Speed	RPM	6000 1/min Max.				
Switch On Time		70%				
Permissible Output Speed:						
Radial	N [lbf]	2000 [449.6]				
Axial	N [lbf]	5000 [1124]				
Below 45°	N [lbf]	1500 [337]				
Duty Cycle		70%				
E-Stop	N [lbf]	0.4 sec @ 500 [0.4 sec @ 112] = ca. 10°				
Acceleration	sec	2				
Slow down	sec	2				
Repeatability with Hard Stop	mm [in]	± 0,01 @ 500 [± 0.0004 @ 19.69]				
Repeatability w/o Hard Stop	mm [in]	± 0,05 @ 500 [± 0.002 @ 19.69]				

Driving Time and Angle Guidelines

Driving Angle	Driving Time	Max Speed	Jolt Time	Acceleration Ramp	Braking Ramp	Amplification X-Controller
Degrees	Sec.	RPM	Sec.	ms	ms	
15	1.4	4017	0.1	500	500	2.23
30	1.7	5862				
45	1.8	6000		400	400	
60	2.0					
75	2.3					
90	2.7			500	500	
105	3.0					
120	3.6			600	600	
135	4.0			800	800	
150	4.5			600	600	
165	5.0	5700	0.1	700	700	2.23
180	5.5	5600				
195	6.0	4500		800	800	
210	6.5					



Note:
Maximum speed should not exceed 6000 rpm.
Velocity must never be in a trapezoidal profile.
The velocity must have a triangular or sinusoidal shape. Acceleration ramps or jolt tiles must be adjusted corresponding to the driving angle.



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