Spindle Drive

Ball screw

105 N

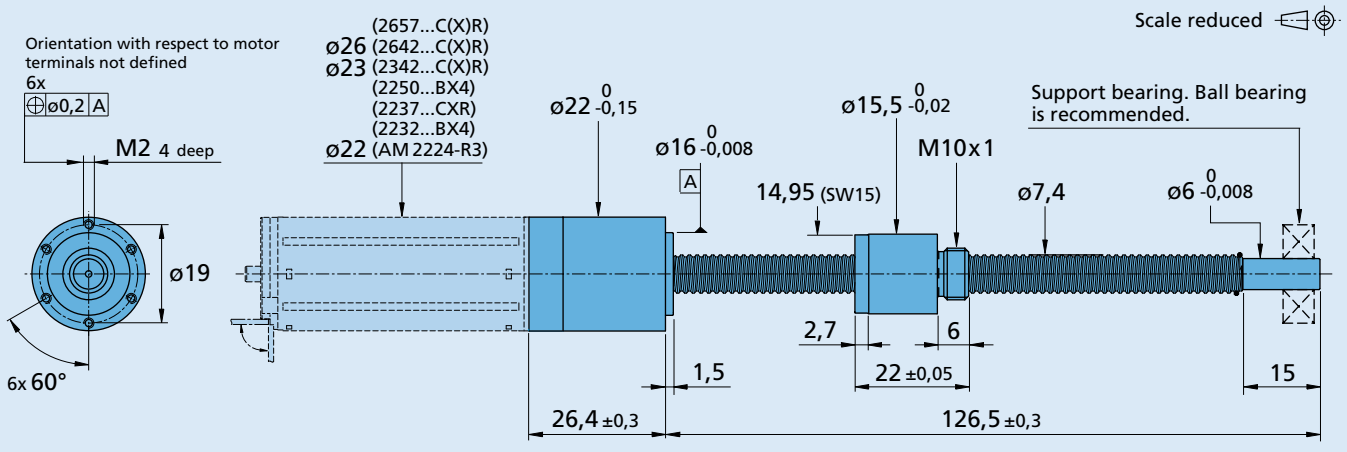
For combination with
DC-Micromotors
Brushless DC-Servomotors
Stepper Motors

Series BS22-1.5

			BS22-1.5	
Screw length, standard			126,5	mm
Stroke, standard			94	mm
Pitch	P_h		1,5	mm
Mean actual travel deviation e_{0a}:				
– maximum permissible	e_p		5 (According to accuracy class 1)	µm
Tolerance of travel variation	v_{up}		5 (According to accuracy class 1)	µm
Efficiency, max.	$\eta_{max.}$		89	%
Operating temperature range		–35 ... +100		°C
Bearing		ball bearings, preloaded		
Axial load capacity:				
– dynamic	C_{am}	≤ 519		N
– static	C_{oa}	≤ 475		N
Shaft load, max.:				
– radial (50 mm from mounting face)	$F_{rs\ max}$	≤ 43		N
Screw nut:				
– axial play		≤ 5		µm
Screw nut load, max.:				
– radial	$F_{rn\ max}$	≤ 23		N
Material				
– screw		stainless steel		
– nut		stainless steel		
– balls		stainless steel		
Direction of rotation		right hand thread		

Recommended values - mathematically independent of each other				
Continous axial load, max.	$F_{m\ max.}$		105	N
Intermittent axial load, max.	$F_{p\ max.}$		475	N
Rotational speed, max.			5 000	rpm
Linear speed, max.			125	mm/s

Note: Specifications are valid over the whole entire travel according to ISO 3408.
A clean and contamination/dust free operating environment is required for performance as specified in the datasheet.
Do not remove the nut from the screw! No relubrication allowed.



BS22-1.5

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