

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 | |
| Tolerance of travel variation | v_{up} | | 5 (According to accuracy class | ss 1) µm |
| | | | | |
| Efficiency, max. | η _{max.} | | 89 | % |
| Operating temperature range | | -35 +100 | | °C |
| operating temperature runge | | 33 III 1 133 | | |
| Bearing | | ball bearings, preloaded | | |
| Axial load capacity: | | 5 · · | | |
| – dynamic | C _{am} | ≤ 519 | | N |
| – static | C _{oa} | ≤ 475 | | N |
| Shaft load, max.: | ou . | | | |
| – 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 | | |
| Direction of rotation | | right hand thread | | |
| | | | | |
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| | | | | |
| | | | | |
| | | | | |
| Recommended values - mathematically in | | | | |

| 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.

