

# Fax questionnaire for the designing of plates

Please complete in block capitals!

**Ortlinghaus** SINCE 1898

THE TECHNOLOGY OF CONTROLLED TORQUE

Sender:

Name, first name

Company

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**Type of drive:** \_\_\_\_\_

Motor: \_\_\_\_\_ Output P = \_\_\_\_\_ kW; Speed n = \_\_\_\_\_ min<sup>-1</sup>

**Operation of clutch or brake:**

dynamic  static   
wet-running  dry-running

**Method of actuation:**

mechanical  electromagnetic  hydraulic   
pneumatic  spring-loaded

**Friction combination:**

steel/steel  steel/Sinter  steel/org. lining   
steel/paper  cast iron/org. lining

other: \_\_\_\_\_

Sliding coefficient of friction  $\mu =$  \_\_\_\_\_ Static coefficient of friction  $\mu_0 =$  \_\_\_\_\_

**Friction surface type:**

smooth  spiral channels  radial slots   
sunburst pattern  honeycomb pattern

other: \_\_\_\_\_

**General details**

**Oil type:** \_\_\_\_\_

**Viscosity**  $\nu =$  \_\_\_\_\_ mm<sup>2</sup>/s at \_\_\_\_\_ °C

**Type of lubrication:** oil sump   $V =$  \_\_\_\_\_ dm<sup>3</sup>

oil mist

injected oil

internal oil   $V =$  \_\_\_\_\_ l/min

**Max. oil temperature** \_\_\_\_\_ °C

**Dynamic torque**  $M_S =$  \_\_\_\_\_ Nm

**Static torque**  $M_U =$  \_\_\_\_\_ Nm

**Load torque**  $M_L =$  \_\_\_\_\_ Nm

**Clutch/brake speed**  $n =$  \_\_\_\_\_ min<sup>-1</sup>

**Relative speed**  $\Delta n =$  \_\_\_\_\_ min<sup>-1</sup>

**Number of friction surfaces**  $Z_A =$  \_\_\_\_\_

**Further details** \_\_\_\_\_

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**Frictional contact diameter** inner/outer \_\_\_\_\_/\_\_\_\_\_ mm

**Operating pressure**  $p_B =$  \_\_\_\_\_ bar

**Contact force**  $F =$  \_\_\_\_\_ N

constant

changeable   
(state progression)

**Friction surface contact pressure**  $p_R =$  \_\_\_\_\_ N/cm<sup>2</sup>

**Mass moment of inertia**

about clutch or brake shaft axis  $J =$  \_\_\_\_\_ kgm<sup>2</sup>

**Switching frequency**  $S_h =$  \_\_\_\_\_ h<sup>-1</sup>

**Acceleration or deceleration time**

$t_3 =$  \_\_\_\_\_ s

**Continuous slipping time**  $t_R =$  \_\_\_\_\_ s

**Air-cooling with dry-running:**

self-cooling

external-cooling

The connection dimensions of the inner drivers (hubs) and of the outer drivers ( housings) are always required for the selection/designing of plates. In the case of special plates, please supply full details in the form of drawings or samples (diameter, slots, spline with dimensions).