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^{-1}

Operation of clutch or brake: dynamic ☐ static ☐ wet-running ☐ dry-running ☐

Method of actuation: mechanical ☐ electromagnetic ☐ hydraulic ☐ pneumatic ☐ sping-loaded ☐

Friction combination: steel/steel ☐ steel/Sinter ☐ steel/org. lining ☐ steel/paper ☐ cast iron/org. lining ☐

other: _____

Sliding coefficient of friction μ = _____ Static coefficient of friction μ_0 = _____

Friction surface type: smooth ☐ spiral channels ☐ radial slots ☐ sunburst pattern ☐ honeycomb pattern ☐

other: _____

General details

Oil type: _____

Viscosity υ = _____ mm^2/s at _____ °C

Type of lubrication: oil sump ☐ V = ____ dm^3
oil mist ☐
injected oil ☐
internal oil ☐ $\dot{V}$ = _____ l/min

Max. oil temperature _____ °C

Dynamic torque M_S = _____ Nm

Static torque M_0 = _____ Nm

Load torque M_L = _____ Nm

Clutch/brake speed n = _____ min^{-1}

Relative speed Δn = _____ min^{-1}

Number of friction surfaces Z_A = _____

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^2

Mass moment of inertia
about clutch or brake shaft axis J = _____ kgm^2

Switching frequency S_h = _____ h^{-1}

Acceleration or deceleration time t_3 = _____ s

Continuous slipping time t_R = _____ s

Air-cooling with dry-running: self-cooling ☐
external-cooling ☐

Further details _____

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).