

Annex

Data Sheet for Calculating/Checking Drives



Power Transmission

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Company

(stamp)

For test New drive
 For initial production Existing drive
 For series production Usage _____ belts/year

Fitted with:

Number	Size	Manufacturer

Prime Mover

Type (e.g. electric motor, diesel engine 3 cyl.) _____
 Size of starting torque (e.g. MA = 1.8 MN) _____
 Method of starting (e.g. star delta) _____
 Operational hours per day _____ hours
 Number of starts _____ per hour per day
 Rational reverses _____ per minute per hour
 Power: P normal _____ kW
 P maximum _____ kW
 or maximum torque _____ Nm at n_1 _____ r.p.m.
 Speed n_1 _____ r.p.m.
 Position of shafts: horizontal vertical
 angled α _____ °
 Maximum allowable shaft loading $S_{a\max}$ _____ N
 Datum or outside diameter of pulley:
 d_{d1} _____ mm d_{a1} _____ mm
 $d_{d1\min}$ _____ mm $d_{a1\min}$ _____ mm
 $d_{d1\max}$ _____ mm $d_{a1\max}$ _____ mm
 Pulley face width $b_{2\max}$ _____ mm

Speed ratio i _____
 Centre distance a _____ mm
 Tension/guide pulleys: inside
 outside
 d_d _____ mm V-pulley
 d_a _____ mm Flat pulley

Operating Conditions: Ambient temperature

Exposure to oil
 water
 acid
 dust

Driven Machine

Type (e.g. lathe, compressor) _____
 Start: loaded unloaded
 Nature of load: constant pulsating
 shock
 Rating: P normal _____ kW
 P maximum _____ kW
 or maximum torque _____ Nm at n_2 _____ r.p.m.
 Speed n_2 _____ r.p.m.
 $n_{2\min}$ _____ r.p.m.
 $n_{2\max}$ _____ r.p.m.
 Maximum allowable shaft loading $S_{a\max}$ _____ N
 Datum or outside diameter of pulley:
 d_{d2} _____ mm d_{a2} _____ mm
 $d_{d2\min}$ _____ mm $d_{a2\min}$ _____ mm
 $d_{d2\max}$ _____ mm $d_{a2\max}$ _____ mm
 Pulley face width $b_{2\max}$ _____ mm

i_{\min} _____ i_{\max} _____
 a_{\min} _____ mm a_{\max} _____ mm
 in drive slack side
 in drive tight side
 movable (e.g. spring loaded) _____
 fixed

_____ °C minimum
 _____ °C maximum
 (e.g. oil mist, droplets) _____
 (e.g. spray) _____
 (type, concentration, temperature) _____
 (type) _____

Special conditions: Where the drive is subjected to unusual conditions, e.g. inside or outside idler pulleys, 3- or multi-pulley drives, as well as drives with reverse rotational direction, drawings are required. Please use the back of this data sheet for sketches.