

## Data Sheet

### for Calculating/Checking Drive Installations **optibelt ZR**

Company: \_\_\_\_\_

Street address: \_\_\_\_\_

Town/post code: \_\_\_\_\_

Person to be contacted: \_\_\_\_\_

Department: \_\_\_\_\_ Date: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

for test  new drive   
 for pilot production  existing drive   
 for series production  requirement: \_\_\_\_\_ per annum

The parameters printed below in bold face are the minimum necessary for a drive design, where the other parameters cannot be determined by means of further data. Special conditions or factors should also be noted.

| Quantity | Optibelt Type | Designation | Construction |
|----------|---------------|-------------|--------------|
|          | timing belt   |             |              |
|          | driver pulley |             |              |
|          | driven pulley |             |              |

#### LOAD DRIVER UNIT

**Prime mover** (e. g. 3-cyl. diesel): \_\_\_\_\_

Daily operating time: \_\_\_\_\_ hours

Steady running  Shock or pulsating running

Number of starts/stops \_\_\_\_\_ per hour

and/or reverses under load: \_\_\_\_\_ per day

Full load starting torque  $M_A =$  \_\_\_\_\_  $M_N$  or  $M_A =$  \_\_\_\_\_ Nm

#### DRIVEN UNIT

**Driven machine** (e. g. milling machine): \_\_\_\_\_

Light duty drive, shock-free and steady running

Medium duty drive, intermittent operation with low to medium shock load

Heavy duty drive, intermittent operation with medium to high shock load

Very heavy duty drive, continuous operation with high shock load

Basic drive service factor  $c_0 =$  \_\_\_\_\_

**Max. driver power**  $P_{An} =$  \_\_\_\_\_ kW at  $n_1 =$  \_\_\_\_\_ rpm

or max. driver torque  $M_{An} =$  \_\_\_\_\_ Nm at  $n =$  \_\_\_\_\_ rpm

Max. input drive power  $P_{Ab} =$  \_\_\_\_\_ kW at  $n_2 =$  \_\_\_\_\_ rpm

or max. output drive torque  $M_{Ab} =$  \_\_\_\_\_ Nm at  $n =$  \_\_\_\_\_ rpm

**max./min.**

**Driven speed**  $n_{2max} =$  \_\_\_\_\_ rpm /  $n_{2min} =$  \_\_\_\_\_ rpm

#### GEOMETRY

Pitch diameter  $d_{p1}$  or number of teeth  $z_1$  of driver pulley  $d_{p1} =$  \_\_\_\_\_ mm or  $z_1 =$  \_\_\_\_\_

Max. o/a width  $B =$  \_\_\_\_\_ mm max. clearance dia. = \_\_\_\_\_ mm

pilot bored  finish bored  taper bushed

with keyway

Bore diameter  $d =$  \_\_\_\_\_ mm Tolerance range: \_\_\_\_\_

Max. static shaft loading  $S_a =$  \_\_\_\_\_ N

Pitch diameter  $d_{p2}$  or number of teeth  $z_2$  of driven pulley  $d_{p2} =$  \_\_\_\_\_ mm or  $z_2 =$  \_\_\_\_\_

Max. o/a width  $B =$  \_\_\_\_\_ mm max. clearance dia. = \_\_\_\_\_ mm

pilot bored  finish bored  taper bushed

with keyway

Bore diameter  $d =$  \_\_\_\_\_ mm Tolerance range: \_\_\_\_\_

Max. static shaft loading  $S_a =$  \_\_\_\_\_ N

Drive ratio  $i =$  \_\_\_\_\_  $i_{min} =$  \_\_\_\_\_  $i_{max} =$  \_\_\_\_\_

**Centre distance**  $a =$  \_\_\_\_\_ mm  $a_{min} =$  \_\_\_\_\_ mm  $a_{max} =$  \_\_\_\_\_ mm

Centres adjustable  or centres not adjustable  then

Tension or guide pulley: inside  Arrangement: slack side

outside  tight side

Pulley  $d_p =$  \_\_\_\_\_ mm

or flat pulley  $d_a =$  \_\_\_\_\_ mm

#### OPERATING CONDITIONS

Arrangement of shafts: horizontal  or vertical

Ambient temperature   $T =$  \_\_\_\_\_ °C  $T_{min} =$  \_\_\_\_\_ °C  $T_{max} =$  \_\_\_\_\_ °C

Normal air humidity  Relative humidity: \_\_\_\_\_ %

Contaminant (if any): solid  material (e. g. dust, swarf): \_\_\_\_\_

liquid  material (e. g. water, oil): \_\_\_\_\_

gas  material (e. g. sulphur vapour): \_\_\_\_\_