optibelt
Power Transmission

Data Sheet
For Drive Calculation/Checking

Company _____

Address _____

Contact _____

Position _____ Date _____

Tel. ( ) Fax: _____

For trials ☐ New drive ☐
For pilot series ☐ Existing drive ☐
For production series ☐ Requirement _____ belts/year

Fitted with:

Pieces	Effective length	Section	No. of ribs	Manufacturer

Prime Mover

Type (e.g. electric motor, diesel engine 3 cyl.) _____
Size of Starting Load (e.g. starting load = 1,8 mormal load) _____
Method of Starting (e.g. star delta) _____
Operation hours per day _____
Number of starts _____ per hour ☐ per day ☐
Rotational reverses _____ per minute ☐ per hour ☐
Power: P normal _____ kW
P maximum _____ kW
or max. torque _____ Nm at n_1 _____ rpm
Speed of driver pulley n_1 _____ rpm
Position of shafts: horizontal ☐ vertical ☐
angled ☐ ∢ _____ °
Maximum allowed static shaft loading $S_{a\,max}$ _____ N
Effective (or outside) diameter of driver pulley:
d_{e1} _____ mm
$d_{e1\,min}$ _____ mm
$d_{e1\,max}$ _____ mm
Pulley face width L_{max} _____ mm

Speed ratio r _____
Drive centre distance C _____ mm
Tension/guide pulleys: inside ☐
outside ☐
d_e _____ mm Ribbed pulley ☐
d_a _____ mm Flat pulley ☐
Drive Conditions: Ambient temperature

Exposure to oil ☐
water ☐
acid ☐
dust ☐

Driven Machine

Type (e.g. fan, compressor) _____
Start: loaded ☐ unloaded ☐
Nature of load: constant ☐ pulsating ☐
Shock ☐
Load: P normal _____ kW
P maximum _____ kW
or max. torque _____ Nm at n_2 _____ rpm
Speed of driven pulley n_2 _____ rpm
$n_{2\,min}$ _____ rpm
$n_{2\,max}$ _____ rpm
Maximum allowable static shaft loading $S_{a\,max}$ _____ N
Effective (or outside) diameter of driven pulley:
d_{e2} _____ mm
$d_{e2\,min}$ _____ mm
$d_{e2\,max}$ _____ mm
Pulley face width L_{max} _____ mm

r_{min} _____ r_{max} _____
c_{min} _____ mm c_{max} _____ mm
in drive slack side ☐
in drive tight side ☐
moveable ☐ (e.g. spring loaded) _____
fixed ☐
_____ °C/F min.
_____ °C/F max.
(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, two or more driven pulleys) then a sketch or any other relevant information should accompany this completed sheet.