

Calculation results

Input data:

Rated power [kW]	2,2
Rated torque [Nm]	28,01
Requested service factor	1,5
Driver speed [r/min]	750
Driven speed [r/min]	150

Drive:

Overall width [mm]	48,42
Overall length [mm]	620,22
Overall height [mm]	358
Pulley center distance [mm]	404,22
Span length [mm]	378,46
Actual driven speed [r/min]	148,08

Belt:

Designation	PHG 3VX600
Number of belts	4
Actual service factor	1,54
Belt power rating [kW]	3,39
Belt mass [kg]	0,1
Belt width [mm]	9,00

Driver pulley:

Designation	PHP 4-3V280-JA
Reference diameter [mm]	70
Nominal taper lock	PHF JA-...MM
Taperlock shaft diameter range [mm]	9,525 -- 31,75

Driven pulley:

Designation	PHP 4-3V1400-SK
Reference diameter [mm]	354
Nominal taper lock	PHF SK-...MM
Taperlock shaft diameter range [mm]	12,7 -- 63,5

Hub loads:

Static hub loads for NEW belt [N]	2669,13
Static hub loads for RUN-IN belt [N]	1779,42
Dynamic hub loads for NEW belt [N]	2665,07
Dynamic hub loads for RUN-IN belt [N]	1775,36

Tensioning:

Installation strand tension for NEW belt [N]	333,64
Installation strand tension for RUN-IN belt [N]	222,43
Deflection forces for SKF Belt tension pen gauge [kg]	
NEW	2,2
RUN	1,49
Vibrating frequency for SKF Belt Frequency Meter [Hz]	
NEW	94,65
RUN	77,28



SKF Belt Frequency Meter
(PHL FM 10/400)



Belt tension pen gauge
(PUB PSD C1/007)

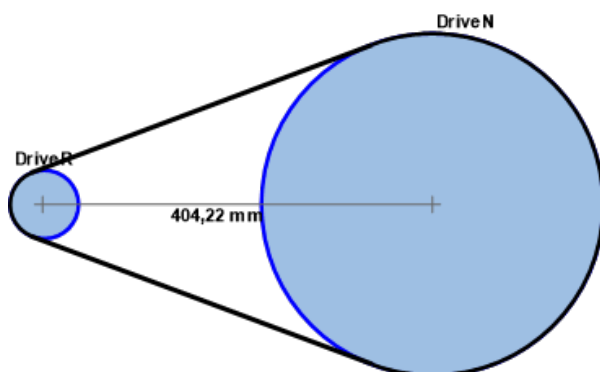
Date: 23/03/2020

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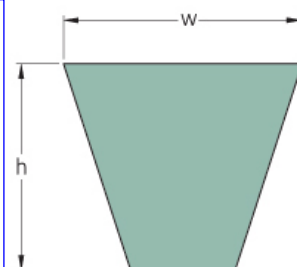
Drive layout



Belt

PHG 3VX600

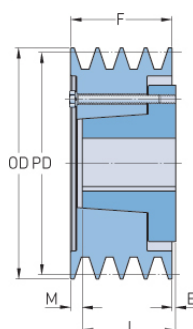
Wedge 3VX/9NX	
Belt marking	3VX600
No. of ribs	1
Outside length (mm)	1524
Effective length (in)	60
w = Width (mm)	9
h = Height (mm)	8



Driver pulley

PHP 4-3V280-JA

Pitch diameter (mm)	69.85
Outside diameter (mm)	71.12
Pulley type	D-1
Bush no.	JA
Min. bore (mm)	12.7
Max. bore (mm)	31.75
F	1 (29/32)
E	(3/8)
G	-
K	-
L	1
M	(19/32)
H	-
Weight (lbs.)	1.7



Driver bushing

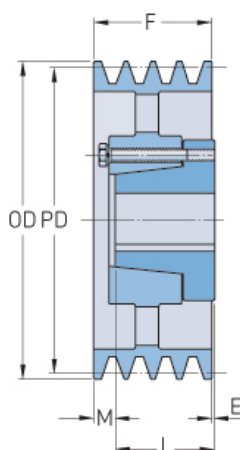
PHF JA-...MM

No data

Driven pulley

PHP 4-3V1400-SK

Pitch diameter (mm)	354.33
Outside diameter (mm)	355.6
Pulley type	D-3
Bush no.	SK
Min. bore (mm)	12.7
Max. bore (mm)	66.68
F	1 (29/32)
E	(5/32)
G	-
K	-
L	1 (5/16)
M	(1/8)
H	-
Weight (lbs.)	22.5



Driven bushing

PHF SK-...MM

No data