

[illegible][illegible]

1. $\frac{1}{x^2} = x^{-2}$ $\frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}$

[illegible]

- [illegible]

[illegible]

(ر) اَنَسَ عَنِ النَّبِيِّ ﷺ أَنَّهُ قَالَ: مَنْ جَاءَ بِمَنْفَعَةٍ لِّلْمَسْكِينِ فَهُوَ كَمَنْ جَاءَ بِمَنْفَعَةٍ لِّلْعَالَمِينَ. (مَنْ جَاءَ بِمَنْفَعَةٍ لِّلْمَسْكِينِ فَهُوَ كَمَنْ جَاءَ بِمَنْفَعَةٍ لِّلْعَالَمِينَ)

(س) قَالَ رَسُولُ اللَّهِ ﷺ: مَنْ جَاءَ بِمَنْفَعَةٍ لِّلْمَسْكِينِ فَهُوَ كَمَنْ جَاءَ بِمَنْفَعَةٍ لِّلْعَالَمِينَ. (مَنْ جَاءَ بِمَنْفَعَةٍ لِّلْمَسْكِينِ فَهُوَ كَمَنْ جَاءَ بِمَنْفَعَةٍ لِّلْعَالَمِينَ)



[illegible][illegible][illegible][illegible][illegible]

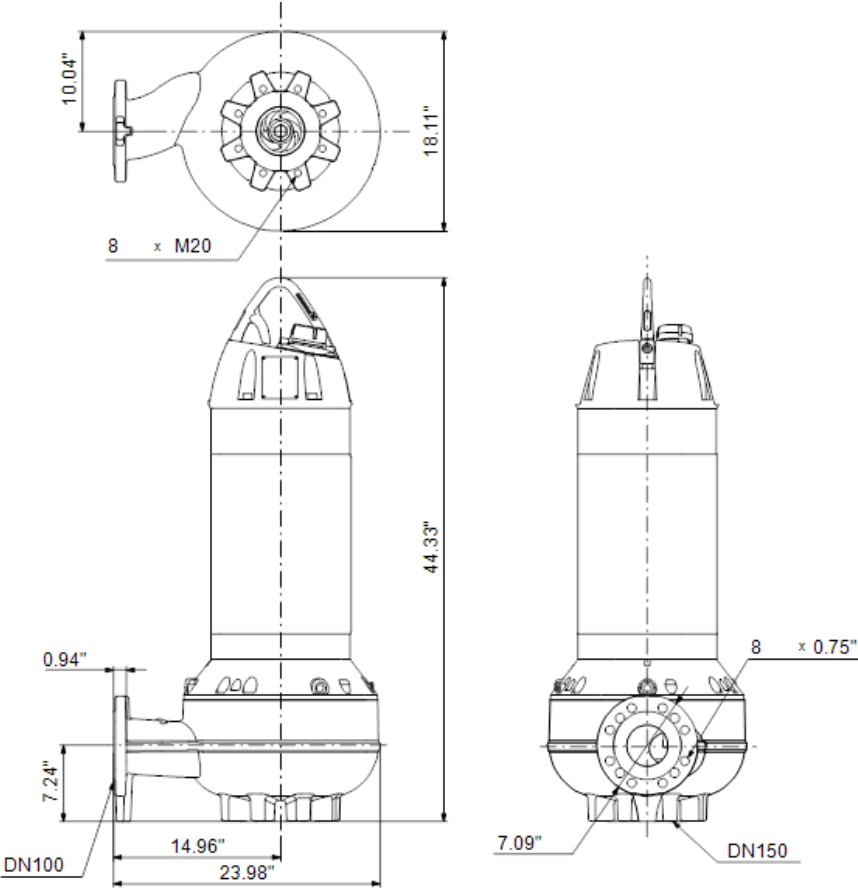
تاریخ: 10 اکتوبر 2018 کو جمعہ 11:00 بجے صبح لاہور



WATER PUMP FOR
DRINAGE PUMP STATION



PRODUCT PHOTO



DIMENSIONAL DRAWING

SPECIFICATION

Controls:

Moisture sensor: with moisture sensors
Water-in-air sensor: N

Liquid:

Pumped liquid: any viscous fluid
Liquid temperature range: 273 .. 313 K
Density: 998.2 kg/m³

Technical:

Actual calculated flow: 180 m³/h
Resulting head of the pump: 15.78 m
Type of impeller: S-TUBE
Maximum particle size: 85 mm
Primary shaft seal: SIC-SIC
Secondary shaft seal: SIC-CARBON
Curve tolerance: ISO9906:2012 3B

Materials:

Pump housing: Cast iron
EN 1561 EN-GJL-250
Impeller: Cast iron
EN 1561 EN-GJL-250
Motor: Cast iron
EN 1561 EN-GJL-250

Installation:

Maximum ambient temperature: 313 K
Pump inlet: DN 150
Pump outlet: DN 100
Maximum installation depth: 20 m
Auto-coupling: 96090994
Base stand: 96102255
Frame range: 52

Electrical data:

Power input - P1: 13 kW
Rated power - P2: 11 kW
Main frequency: 50 Hz

Rated voltage: 3 x 380-415/660-690 V
Voltage tolerance: +10/-10 %
Max starts per. hour: 20
Rated current: 24-22/14-13 A
Maximum current consumption: 23 A
Starting current: 210/116 A
Rated current at no load: 10.4 A
Rated speed: 1481 rpm
Motor efficiency at full load: 86 %
Motor efficiency at 3/4 load: 86 %
Motor efficiency at 1/2 load: 84 %
Number of poles: 4
Start. method: star/delta
Enclosure class (IEC 34-5): IP68
Insulation class (IEC 85): H
Explosion proof: no
Length of cable: 10 m
Cable type: S1BN8-F
Winding resistance: 0,690 Ohm
Cos phi 1/1: 0,82
Cos phi 1/2: 0,70
Cos phi 3/4: 0,76

Others:

Net weight: 302 kg