

## DESIGN ENVELOPE 6800 G | COMMERCIAL WATER BOOSTER | 1540402- 1440402s | SUBMITTAL

File No: 106.03551EC  
Date: APRIL 24, 2018  
Supersedes: NEW  
Date: NEW

Job: \_\_\_\_\_ Representative: \_\_\_\_\_  
 \_\_\_\_\_ Order by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Engineer: \_\_\_\_\_ Submitted by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Contractor: \_\_\_\_\_ Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

### PUMP DESIGN DATA

No. of pumps: 5 Tag: \_\_\_\_\_ Series: 4700  
 Total package capacity: \_\_\_\_\_ L/s (m<sup>3</sup>/h)  
 Pump capacity: \_\_\_\_\_ L/s (m<sup>3</sup>/h)  
 Head: \_\_\_\_\_ Bar (m) Liquid: \_\_\_\_\_  
 Construction: Stainless steel 304

### CONNECTION ORIENTATION

Suction  Right\*  Left\*  
 Discharge  Right\*  Left\*

\* When facing control panel

### DRIVE DATA

Enclosure: IP66  
 EMI/RFI control: Integrated filter designed to meet EN61800-3  
 Harmonic suppression: Integrated DC link reactors  
 Cooling: Fan-cooled through back channel  
 Ambient temperature: -10°C to +45°C up to 1000 meters

### OPTIONAL EQUIPMENT

Duty standby discharge transducer:  Yes  No  
 BMS communication:  BACnet MS/TP  BACnet IP  
 LonWorks  
 Float switch:  Yes  No  
 AV kit:  No  Potable water untied  
 Potable water tied  
 Overhead break tank:  Yes  No

### SYSTEM CONSTRUCTION DATA

System description: Quintuplex  
 Model: \_\_\_\_\_  
 Header connections: Flanged  
 Piping material: Stainless steel 304  
 Valve type: Ball valve/butterfly valve and Check valve  
 Setup:  All duty  Duty standby

### MOTOR DESIGN DATA

kW: 3 RPM: 3600 Frame size: 90 Enclosure: TEFC  
 Power supply: 400/3/50 V Efficiency: IE5

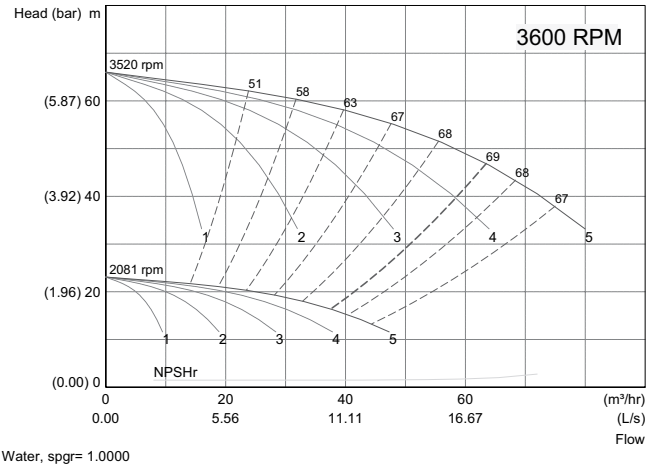
### CONTROL PANEL SPECIFICATIONS

Enclosure rating: IP55  
 HMI: Colour touch screen  
 Low suction shutdown  
 Main disconnect with interlock  
 Fused motor protection  
 Power on indication  
 Motor run indication  
 No-flow shutdown and automatic alternation  
 Soft fill mode  
 Pressure setback mode  
 Field adjustable set points, alarms  
 Flash memory storage  
 Suction transducer included  
 Modbus RTU serial communication

### DESIGN ENVELOPE CAPABILITY DATA

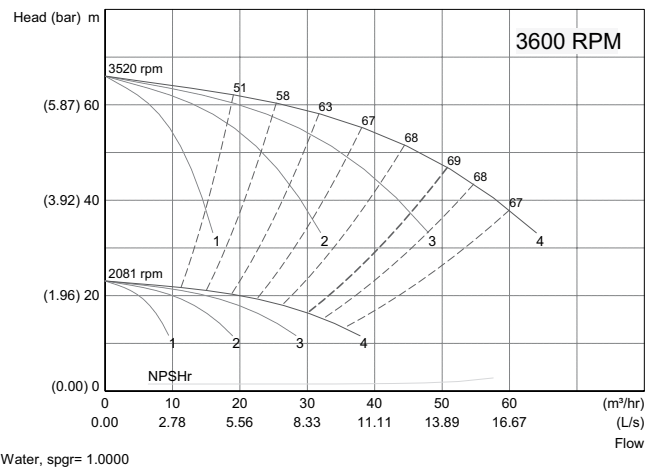
| ENVELOPE CURVE NUMBER            | PUMP                              | PRESSURE RATING in bar | MAX WORKING PRESSURE in bar | EACH MOTOR in kW | SUCTION E | DISCHARGE F | FLC in Amps |     |
|----------------------------------|-----------------------------------|------------------------|-----------------------------|------------------|-----------|-------------|-------------|-----|
| <input type="checkbox"/> 1540402 | <input type="checkbox"/> 1440402S | VMS-10:04              | PN16                        | 6.37             | 3         | DN 100      | DN 100      | 6.3 |

I540402



Water, spgr= 1.0000

I440402S



Water, spgr= 1.0000

DIMENSION DATA

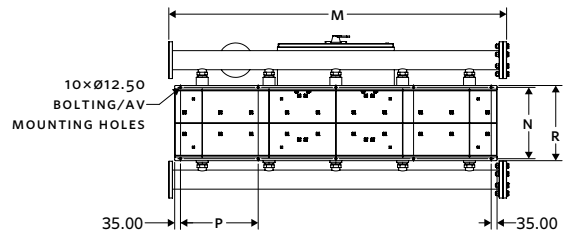
I540402 I440402S

- A: 1930 (75.98)
- B: 1560 (61.42)
- C: 793 (31.23)
- D: 700 (27.56)
- G: 145 (5.71)
- H: 339 (13.33)
- J: 377 (14.82)
- K: 715 (28.15)
- L: 935 (36.81)
- M: 2022 (79.61)
- N: 427 (16.81)
- P: 465 (18.31)
- R: 450 (17.72)
- T: 35 (1.38)
- WEIGHT: 483.0 (1065)**

Dimensions - mm (inches)

Weight - kg (lbs)

**Note:** Tolerances are 12 mm ( $\pm 1/2"$ ) unless otherwise specified.



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