# **4700** VERTICAL MULTI-STAGE PUMP |
## VMS 20B | **SUBMITTAL**

**File No:** 47.5201
**Date:** MARCH 7, 2018
**Supersedes:** 47.5201
**Date:** OCTOBER 21, 2016

Job: _____ Representative: _____

_____ Ordered by: _____ Date: _____

Engineer: _____ Submitted by: _____ Date: _____

Contractor: _____ Approved by: _____ Date: _____

### PUMP DESIGN DATA

No. of pumps: _____ Tag: _____

Capacity: _____USgpm (L/s) Head: _____ft (m)

Liquid: _____ Viscosity: _____

Temperature: _____°F (°C) Specific gravity: _____

Suction: 2"(51mm) Discharge: 2"(51mm)

Maximum working temperature: 250°F (120°C)

### MOTOR DESIGN DATA

HP: _____ RPM: 3600 Frame size: _____

Enclosure: ☐ ODP ☐ TEFC Volts: _____

Hertz: 60 Hz Phase: ☐ 1 ☐ 3

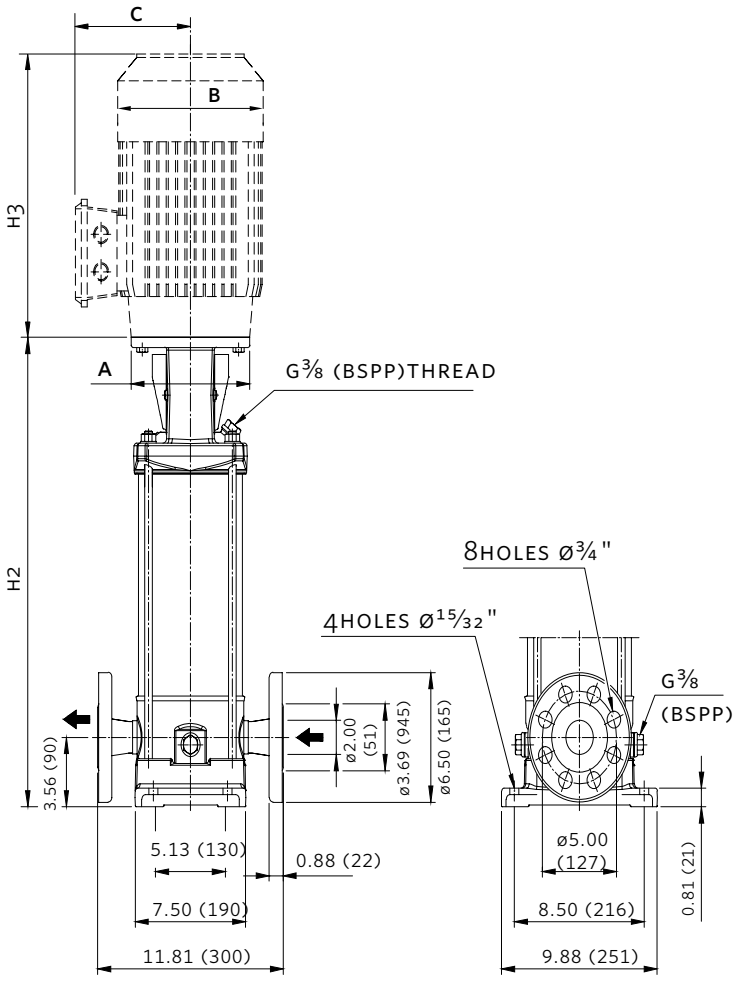
Efficiency*: ☐ NEMA premium 12.12 ☐ Other: _____%

*Fractional power, frame 56 & 1-phase motors are supplied with the standard efficiency of the Manufacturer.

### MATERIALS OF CONSTRUCTION

**Flange rating:** ANSI 300
**Bottom casing:** EN 1.4301 (AISI 304)
**Impellers:** EN1.4301 (AISI 304)
**Intermediate casing:** EN 1.4301 (AISI 304)
**Pump shaft:** VMS2001B-VMS2008B - EN 1.430 (AISI 304)
VMS2009B-VMS2010B - EN 1.4462 (AISI 329A)
**Shaft sleeve bearing:** Tungsten carbide
**O rings:** FPM
**Motor bracket:** Cast iron EN-GJL-200-EN 1561
**Pump base:** Die cast aluminum
EN-AB-AISI 11Cu2(Fe)
**Mechanical seal faces:** Silicon carbide/Carbon/FPM

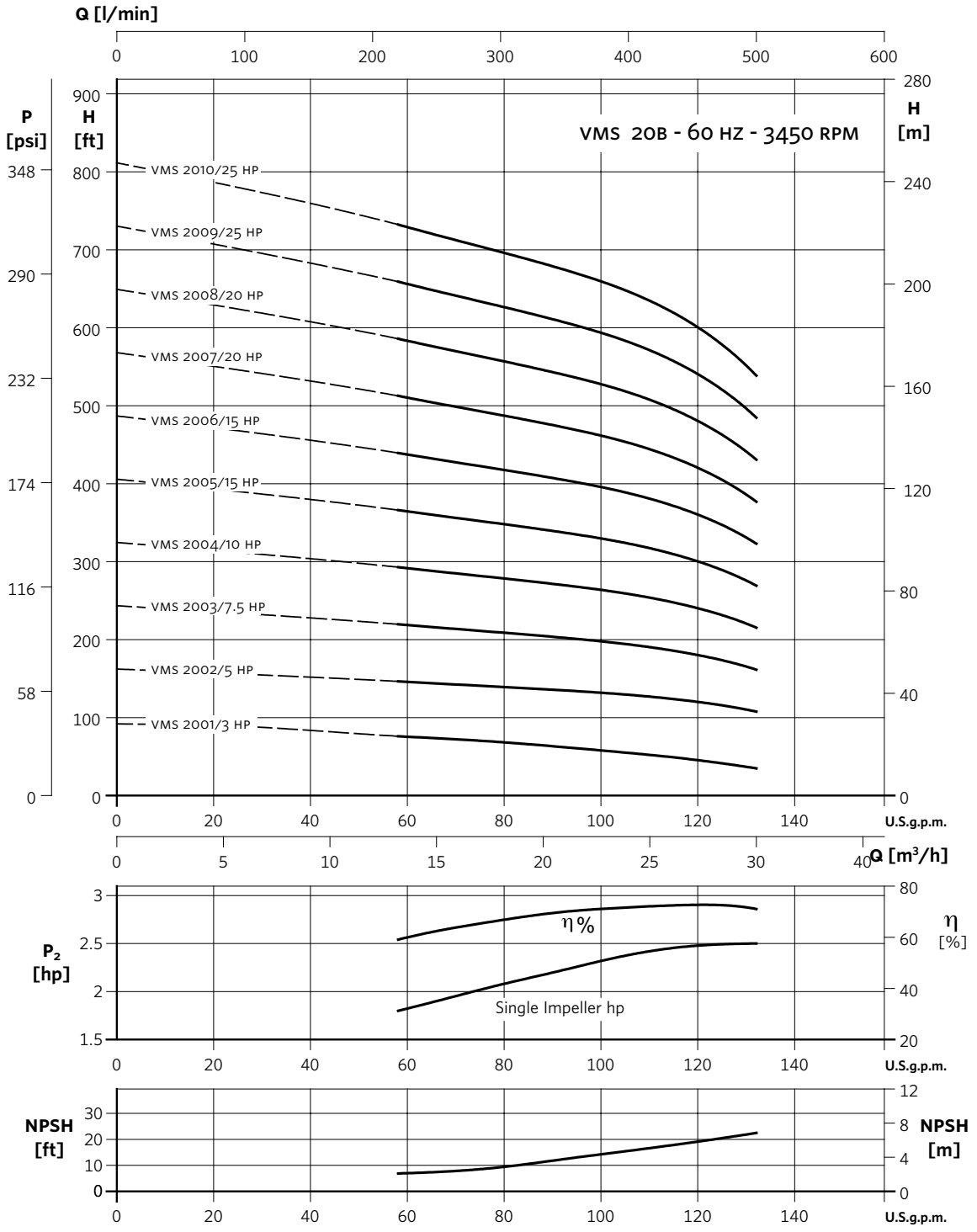
### REMARKS



| PUMP SIZE | HP | NEMA FRAME | | MWP* | DIMENSIONS in inches(mm) | | | | | | | | | | WEIGHT in lbs (kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TEFC | ODP | | TEFC | | | | | ODP | | | | | TEFC | ODP |
| | | | | | A | B | C | H2 | H3 | A | B | C | H2 | H3 | | |
| VMS 2001B | 3 | — | 145C | 230 | — | — | — | — | — | 8.50 (216) | 7.25 (184) | 5.75 (146) | 19.69 (500) | 13.94 (354) | — | 161 (73.0) |
| VMS 2002B | 5 | 184TC | 182TC | 230 | 8.50 (216) | 8.50 (216) | 6.88 (175) | 19.69 (500) | 15.44 (392) | 8.50 (216) | 8.44 (214) | 6.75 (171) | 19.69 (500) | 13.88 (353) | 161 (73.0) | 161 (73.0) |
| VMS 2003B | 7.5 | 184TC | 184TC | 230 | 8.50 (216) | 8.63 (219) | 6.88 (175) | 21.25 (540) | 15.44 (392) | 8.50 (216) | 8.50 (216) | 6.75 (171) | 21.25 (540) | 12.38 (314) | 167 (75.7) | 167 (75.7) |
| VMS 2004B | 10 | 215TC | 213TC | 230 | 8.50 (216) | 10.31 (262) | 8.06 (205) | 22.81 (579) | 18.19 (462) | 8.50 (216) | 9.63 (244) | 7.94 (202) | 22.81 (579) | 16.56 (421) | 251 (113.9) | 206 (93.4) |
| VMS 2005B | 15 | — | 215TC | 230 | — | — | — | — | — | 8.50 (216) | 9.63 (244) | 7.94 (202) | 24.38 (619) | 16.56 (421) | — | 260 (117.9) |
| VMS 2006B | 15 | — | 215TC | 230 | — | — | — | — | — | 8.50 (216) | 9.63 (244) | 7.94 (202) | 25.94 (659) | 16.56 (421) | — | 260 (117.9) |
| VMS 2007B | 20 | 256TC | 254TC | 360 | 8.50 (216) | 12.88 (327) | 10.06 (255) | 28.13 (714) | 20.00 (508) | 8.50 (216) | — | — | 28.13 (714) | — | 383 (173.7) | 363 (164.7) |
| VMS 2008B | 20 | 256TC | 254TC | 360 | 8.50 (216) | 12.88 (327) | 10.06 (255) | 29.69 (754) | 20.00 (508) | 8.50 (216) | — | — | 29.69 (754) | — | 386 (175.1) | 366 (166.0) |
| VMS 2009B | 25 | 284TSC | — | 360 | 10.50 (267) | 13.63 (346) | 12.13 (308) | 30.56 (776) | 21.75 (552) | — | — | — | — | — | 426 (193.2) | — |
| VMS 2010B | 25 | 284TSC | — | 360 | 10.50 (267) | 13.63 (346) | 12.13 (308) | 32.13 (816) | 21.75 (552) | — | — | — | — | — | 429 (194.6) | — |

All dimensions are in inches (mm) and are approximate.
*Maximum Working Pressure in psi

# 4700 PERFORMANCE CURVES




Performance curves are for reference only.

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