Bell & Gossett
a xylem brand

SUBMITTAL
B-139.20B

JOB: **REPRESENTATIVE:**

UNIT TAG: **ORDER NO.** **DATE:**
ENGINEER: **SUBMITTED BY:** **DATE:**
CONTRACTOR: **APPROVED BY:** **DATE:**

Series e-80
4x4x9.5B
Close Coupled In-Line Centrifugal Pump

DESCRIPTION:
The Series e-80 is a highly efficient, heavy duty, close coupled pump designed for horizontal or vertical in-line mounting. The e-80 is available in stainless steel fitted construction, with flows up to 2500 GPM, heads to 380 feet.

SPECIFICATIONS

FLOW _____ HEAD _____
HP _____ RPM _____
VOLTS _____
INPUT
CYCLE _____ PHASE _____
ENCLOSURE _____
APPROX. WEIGHT _____
SPECIALS _____

MATERIALS OF CONSTRUCTION
☒ Stainless Steel Fitted

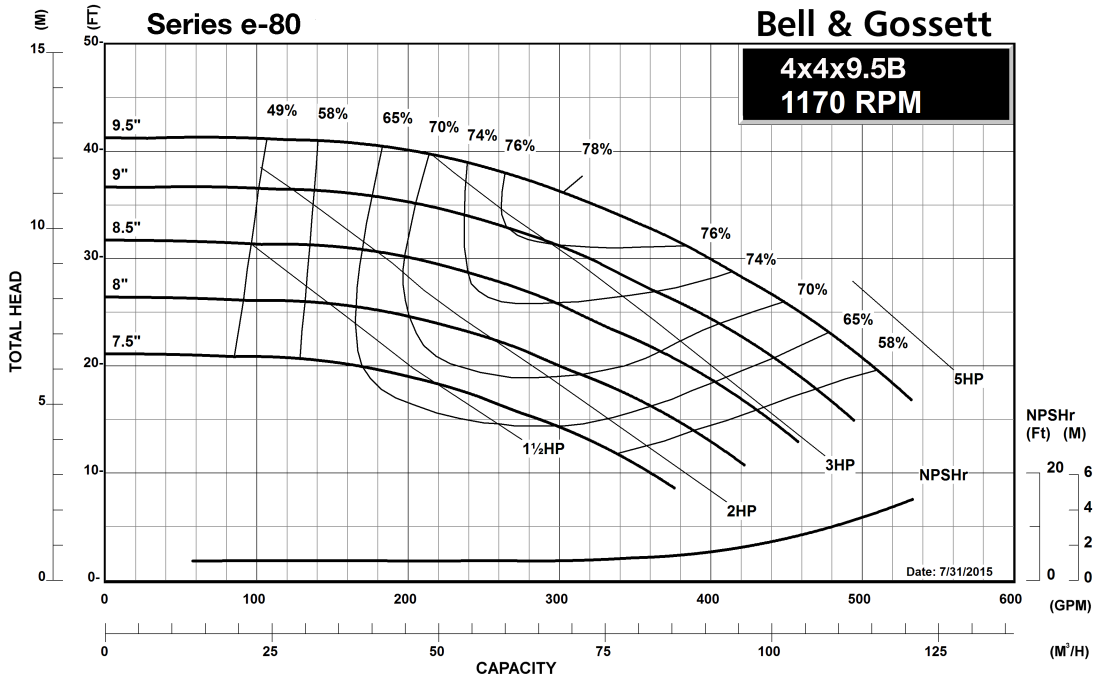
MAXIMUM WORKING PRESSURE
☐ 175 psi (12 bar) with 125# ANSI flange drilling
☐ 250 psi (17 bar) with 250# ANSI flange drilling (requires 80-S)
☐ 300 psi (21 bar) W.P. with 250# ANSI flange drilling (Requires -S and EPR-Silicon Carbide-Silicon Carbide Seal)

MOUNTING
☐ In-Line Piping ☐ Flange Supports

PUMP VARIABLE SPEED CONTROL
☐ Integrated Technologic® Sensorless Control (ITSC)
☐ Integrated Technologic® (IT)
- ☐ External input by others
- ☐ Pressure Sensor(s)
- ☐ Differential Pressure Sensor(s)
- ☐ Flow Sensor(s)

☐ By Others

TYPE OF SEAL
☐ -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
☐ -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
☐ -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)



Bell & Gossett
a xylem brand

SUBMITTAL
B-139.20B

JOB: **REPRESENTATIVE:**

UNIT TAG: **ORDER NO.** **DATE:**
ENGINEER: **SUBMITTED BY:** **DATE:**
CONTRACTOR: **APPROVED BY:** **DATE:**

Series e-80
4x4x9.5B
Close Coupled In-Line Centrifugal Pump

DESCRIPTION:
The Series e-80 is a highly efficient, heavy duty, close coupled pump designed for horizontal or vertical in-line mounting. The e-80 is available in stainless steel fitted construction, with flows up to 2500 GPM, heads to 380 feet.

SPECIFICATIONS

FLOW _____ HEAD _____
HP _____ RPM _____
VOLTS _____
INPUT
CYCLE _____ PHASE _____
ENCLOSURE _____
APPROX. WEIGHT _____
SPECIALS _____

MATERIALS OF CONSTRUCTION
☒ Stainless Steel Fitted

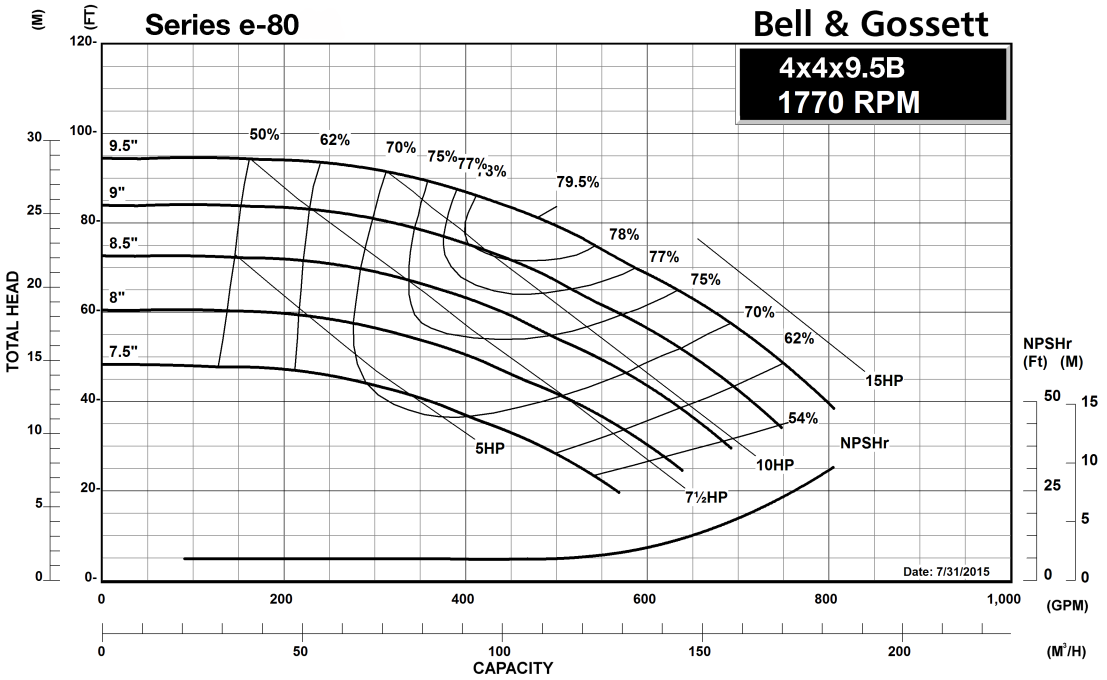
MAXIMUM WORKING PRESSURE
☐ 175 psi (12 bar) with 125# ANSI flange drilling
☐ 250 psi (17 bar) with 250# ANSI flange drilling (requires 80-S)
☐ 300 psi (21 bar) W.P. with 250# ANSI flange drilling (Requires -S and EPR-Silicon Carbide-Silicon Carbide Seal)

MOUNTING
☐ In-Line Piping ☐ Flange Supports

PUMP VARIABLE SPEED CONTROL
☐ Integrated Technologic® Sensorless Control (ITSC)
☐ Integrated Technologic® (IT)
- ☐ External input by others
- ☐ Pressure Sensor(s)
- ☐ Differential Pressure Sensor(s)
- ☐ Flow Sensor(s)

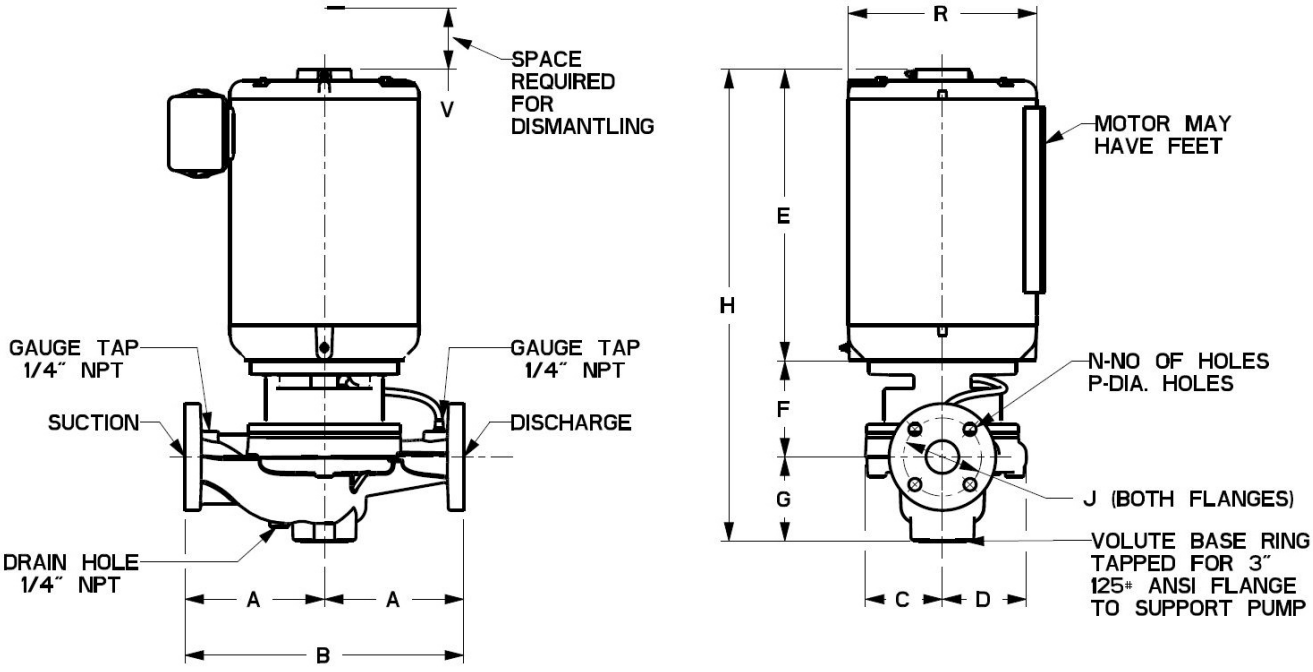
☐ By Others

TYPE OF SEAL
☐ -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
☐ -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
☐ -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)



Series e-80 4x4x9.5B Close Coupled In-Line Centrifugal Pump

B-139.20B



1P0355

In-Line Piping

DIMENSIONS - Inches (mm)

STANDARD SEAL

MOTOR FRAME	A	B	C	D	E (max)	F	G	H (max)	125# ANSI			250# ANSI			R	S (Max)*	V (min)	Suct/Disch Gauge Taps (NPT)	Drain Tap (NPT)
									J	N	P	J	N	P					
182JM	12.50 (318)	25.00 (635)	6.51 (165)	7.94 (202)	15.31 (389)	5.13 (130)	7.25 (184)	27.69 (703)	7.50 (191)	8	0.75 (19)	7.88 (200)	8	0.88 (22)	11.75 (298)	1.00 (25)	5.00 (127)	0.25	0.25
184JM	12.50 (318)	25.00 (635)	6.51 (165)	7.94 (202)	15.31 (389)	5.13 (130)	7.25 (184)	27.69 (703)	7.50 (191)	8	0.75 (19)	7.88 (200)	8	0.88 (22)	11.75 (298)	1.00 (25)	5.00 (127)	0.25	0.25
213JM	12.50 (318)	25.00 (635)	6.51 (165)	7.94 (202)	19.25 (489)	5.13 (130)	7.25 (184)	31.62 (803)	7.50 (191)	8	0.75 (19)	7.88 (200)	8	0.88 (22)	14.00 (356)	0.00	5.00 (127)	0.25	0.25
215JM	12.50 (318)	25.00 (635)	6.51 (165)	7.94 (202)	19.25 (489)	5.13 (130)	7.25 (184)	31.62 (803)	7.50 (191)	8	0.75 (19)	7.88 (200)	8	0.88 (22)	14.00 (356)	0.00	5.00 (127)	0.25	0.25
254JM	12.50 (318)	25.00 (635)	6.51 (165)	7.94 (202)	24.13 (613)	6.13 (156)	7.25 (184)	37.50 (952)	7.50 (191)	8	0.75 (19)	7.88 (200)	8	0.88 (22)	17.00 (432)	0.00	5.00 (127)	0.25	0.25

STUFFING BOX

MOTOR FRAME	A	B	C	D	E (max)	F	G	H (max)	125# ANSI			250# ANSI			R	S (Max)*	V (min)	Suct/Disch Gauge Taps (NPT)	Drain Tap (NPT)
									J	N	P	J	N	P					
182JP	12.50 (318)	25.00 (635)	6.51 (165)	7.94 (202)	15.31 (389)	8.13 (206)	7.25 (184)	30.69 (779)	7.50 (191)	8	0.75 (19)	7.88 (200)	8	0.88 (22)	11.75 (298)	1.00 (25)	5.00 (127)	0.25	0.25
184JP	12.50 (318)	25.00 (635)	6.51 (165)	7.94 (202)	15.31 (389)	8.25 (210)	7.25 (184)	30.81 (783)	7.50 (191)	8	0.75 (19)	7.88 (200)	8	0.88 (22)	11.75 (298)	1.00 (25)	5.00 (127)	0.25	0.25
213JP	12.50 (318)	25.00 (635)	6.51 (165)	7.94 (202)	19.25 (489)	9.00 (229)	7.25 (184)	35.50 (902)	7.50 (191)	8	0.75 (19)	7.88 (200)	8	0.88 (22)	14.00 (356)	0.00	5.00 (127)	0.25	0.25
215JP	12.50 (318)	25.00 (635)	6.51 (165)	7.94 (202)	19.25 (489)	9.00 (229)	7.25 (184)	35.50 (902)	7.50 (191)	8	0.75 (19)	7.88 (200)	8	0.88 (22)	14.00 (356)	0.00	5.00 (127)	0.25	0.25
254JP	12.50 (318)	25.00 (635)	6.51 (165)	7.94 (202)	24.13 (613)	9.00 (229)	7.25 (184)	40.37 (1026)	7.50 (191)	8	0.75 (19)	7.88 (200)	8	0.88 (22)	17.00 (432)	0.00	5.00 (127)	0.25	0.25

Dimensions are subject to change. Not to be used for construction purposes unless certified.

NOTE: For Single phase Motors add 1" to dimensions E & H.

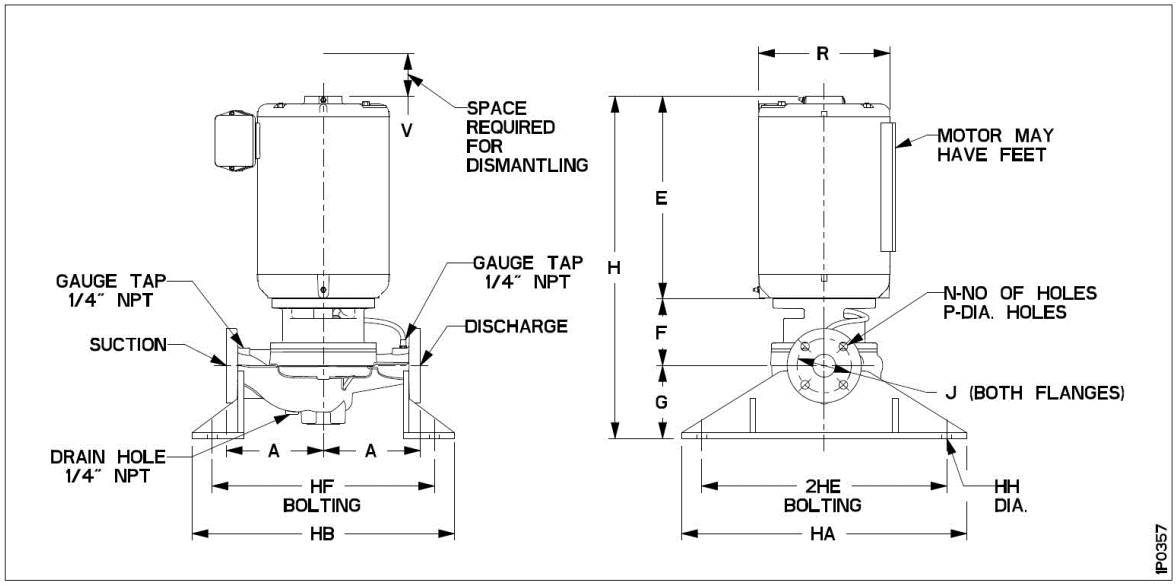
*Dimensions are for ODP Motors. For TEFC add S dimension to dimensions E & H.

Xylem Inc.
8200 N. Austin Avenue, Morton Grove, IL 60053
Phone: (847)966-3700 Fax: (847)965-8379
www.xylem.com/bellgossett

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries. © 2019 Xylem Inc.

Series e-80 4x4x9.5B Close Coupled In-Line Centrifugal Pump

B-139.20B



Flange Support Mounting

DIMENSIONS - Inches (mm)

STANDARD SEAL

MOTOR FRAME	A	HF BOLTING	HB	2HE BOLTING	HA	HH DIA	E (max)	F	G	H (max)	125# ANSI			250# ANSI			R	S (Max)*	V (min)	Suct/Disch Gauge Taps (NPT)	Drain Tap (NPT)
											J	N	P	J	N	P					
182JM	12.50 (318)	26.66 (677)	30.16 (766)	21.50 (546)	25.00 (635)	0.88 (22)	15.31 (389)	5.13 (130)	9.02 (229)	29.46 (748)	7.50 (191)	8	0.75 (19)	7.88 (200)	8	0.88 (22)	11.75 (298)	1.00 (25)	5.00 (127)	0.25	0.25
184JM	12.50 (318)	26.66 (677)	30.16 (766)	21.50 (546)	25.00 (635)	0.88 (22)	15.31 (389)	5.13 (130)	9.02 (229)	29.46 (748)	7.50 (191)	8	0.75 (19)	7.88 (200)	8	0.88 (22)	11.75 (298)	1.00 (25)	5.00 (127)	0.25	0.25
213JM	12.50 (318)	26.66 (677)	30.16 (766)	21.50 (546)	25.00 (635)	0.88 (22)	19.25 (489)	5.13 (130)	9.02 (229)	33.40 (848)	7.50 (191)	8	0.75 (19)	7.88 (200)	8	0.88 (22)	14.00 (356)	0.00	5.00 (127)	0.25	0.25
215JM	12.50 (318)	26.66 (677)	30.16 (766)	21.50 (546)	25.00 (635)	0.88 (22)	19.25 (489)	5.13 (130)	9.02 (229)	33.40 (848)	7.50 (191)	8	0.75 (19)	7.88 (200)	8	0.88 (22)	14.00 (356)	0.00	5.00 (127)	0.25	0.25
254JM	12.50 (318)	26.66 (677)	30.16 (766)	21.50 (546)	25.00 (635)	0.88 (22)	24.13 (613)	6.13 (156)	9.02 (229)	39.27 (997)	7.50 (191)	8	0.75 (19)	7.88 (200)	8	0.88 (22)	17.00 (432)	0.00	5.00 (127)	0.25	0.25

STUFFING BOX

MOTOR FRAME	A	HF BOLTING	HB	ZHE BOLTING	HA	HH DIA	E (max)	F	G	H (max)	125# ANSI			250# ANSI			R	S (Max)*	V (min)	Suct/Disch Gauge Taps (NPT)	Drain Tap (NPT)
											J	N	P	J	N	P					
182JP	12.50 (318)	26.66 (677)	30.16 (766)	21.50 (546)	25.00 (635)	0.88 (22)	15.31 (389)	8.25 (210)	9.02 (229)	32.58 (828)	7.50 (191)	8	0.75 (19)	7.88 (200)	8	0.88 (22)	11.75 (298)	1.00 (25)	5.00 (127)	0.25	0.25
184JP	12.50 (318)	26.66 (677)	30.16 (766)	21.50 (546)	25.00 (635)	0.88 (22)	15.31 (389)	8.25 (210)	9.02 (229)	32.58 (828)	7.50 (191)	8	0.75 (19)	7.88 (200)	8	0.88 (22)	11.75 (298)	1.00 (25)	5.00 (127)	0.25	0.25
213JP	12.50 (318)	26.66 (677)	30.16 (766)	21.50 (546)	25.00 (635)	0.88 (22)	19.25 (489)	9.00 (229)	9.02 (229)	37.27 (947)	7.50 (191)	8	0.75 (19)	7.88 (200)	8	0.88 (22)	14.00 (356)	0.00	5.00 (127)	0.25	0.25
215JP	12.50 (318)	26.66 (677)	30.16 (766)	21.50 (546)	25.00 (635)	0.88 (22)	19.25 (489)	9.00 (229)	9.02 (229)	37.27 (947)	7.50 (191)	8	0.75 (19)	7.88 (200)	8	0.88 (22)	14.00 (356)	0.00	5.00 (127)	0.25	0.25
254JP	12.50 (318)	26.66 (677)	30.16 (766)	21.50 (546)	25.00 (635)	0.88 (22)	24.13 (613)	9.00 (229)	9.02 (229)	42.15 (1070)	7.50 (191)	8	0.75 (19)	7.88 (200)	8	0.88 (22)	17.00 (432)	0.00	5.00 (127)	0.25	0.25

Dimensions are subject to change. Not to be used for construction purposes unless certified.

NOTE: For Single phase Motors add 1" to dimensions E & H.

*Dimensions are for ODP Motors. For TEFC add S dimension to dimensions E & H.

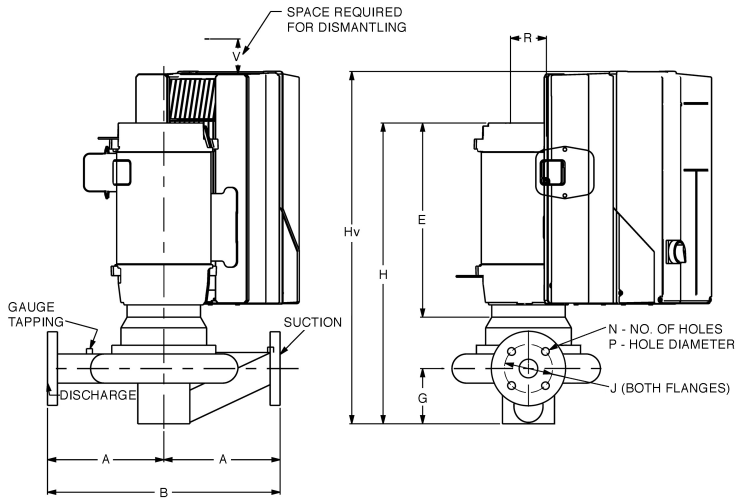
Xylem Inc.
8200 N. Austin Avenue, Morton Grove, IL 60053 Phone: (847)966-3700 Fax: (847)965-8379
www.xylem.com/bellgossett

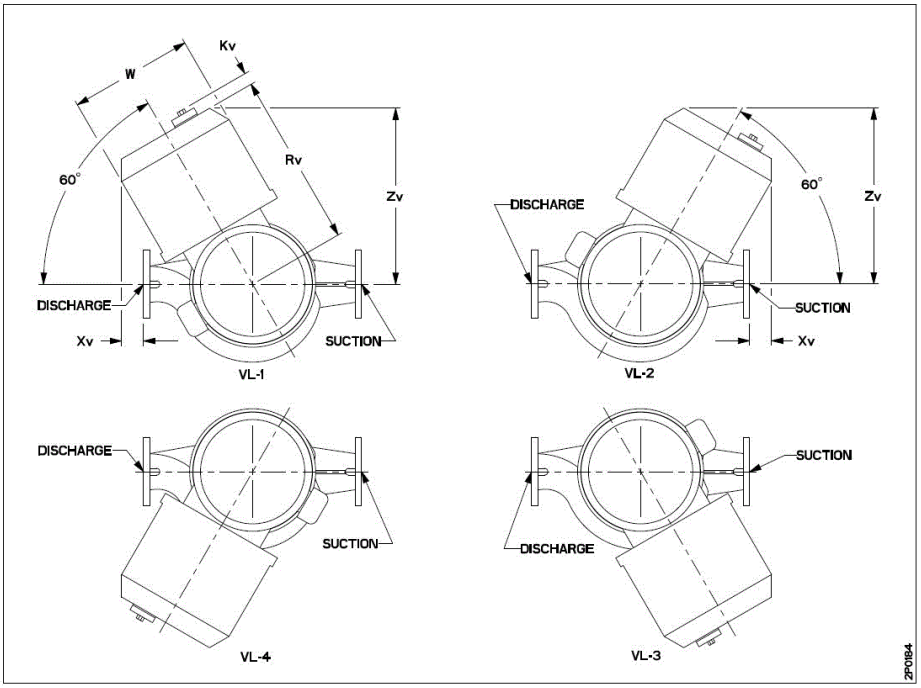
Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries. © 2019 Xylem Inc.

Series e-80 4x4x9.5B Close Coupled In-Line Centrifugal Pump With Integrated Technologic® Control

B-139.20B

TECHNOLOGIC STANDARD FEATURES	
CONTROL METHOD WITH INTEGRATED TECHNOLOGIC® SENSORLESS CONTROL (ITSC)	Factory configured for sensorless operation.
CONTROL METHOD WITH INTEGRATED TECHNOLOGIC® (IT)	Field configurable for sensor by others, building management system input, or optional sensor(s) provided.
ENCLOSURE	NEMA 12 (same as IP55 & UL type 12)
POWER DISCONNECT SWITCH	Included standard. Fused Disconnect Switch optional with three phase input voltage.
HARMONIC SUPPRESSION	Integrated non-saturating dual DC link reactors provide better harmonic performance than a 5% AC line reactor.
COOLING	Fan-cooled through temperature controlled and easy replacement.
AMBIENT TEMPERATURE RATING	14°F to 113°F (-10°C to 45°C)
COMMUNICATION PROTOCOLS	BACnet, Modbus RTU, N2 Metasys, FLN Apogee
ANALOG INPUTS	2 configurable for either voltage (0 to 10VDC) or current(0/4 to 20mA)
ANALOG OUTPUTS	1 (0/4 to 20mA) up to 500 ohm load accurate to 1% of full scale
DIGITAL INPUTS	4 (0 to 24VDC), NPN or PNP, 0 to 24VDC, on 5 msec scan interval, Up to 2 can be configured as pulse inputs.
DIGITAL OUTPUTS	2 (0 to 24VDC), 40mA max current, configurable as pulse outputs.
RELAY OUTPUTS	2 programmable, 240VAC or 400VAC up to 2 A
MINIMUM CONTROL HEAD	_____ ft (default set to 40% of design head if not unknown)





Xylem Inc.
8200 N. Austin Avenue, Morton Grove, IL 60053 Phone: (847)966-3700 Fax: (847)965-8379
www.xylem.com/bellgossett

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries. © 2019 Xylem Inc.

Series e-80 4x4x9.5B Close Coupled In-Line Centrifugal Pump With Integrated Technologic® Control

B-139.20B

DIMENSIONS - Inches (mm)

STANDARD SEAL

MOTOR FRAME	VFD	Rv	Zv	W	Hv	Xv
182JM	A5	12.78 (325)	13.19 (335)	9.5 (241)	30.72 (780)	2.44 (62)
	B1	15.07 (383)	14.79 (376)	9.5 (241)	31.72 (806)	4.04 (103)
184JM	A5	12.78 (325)	13.19 (335)	9.5 (241)	30.72 (780)	2.44 (62)
	B1	15.07 (383)	14.79 (376)	9.5 (241)	31.72 (806)	4.04 (103)
213JM	A5	13.53 (344)	13.83 (351)	9.5 (241)	34.08 (866)	2.06 (52)
	B1	15.84 (402)	15.84 (402)	9.5 (241)	35.67 (906)	0.88 (22)
	B2	15.84 (402)	15.84 (402)	9.5 (241)	41.41 (1052)	0.88 (22)
215JM	A5	13.53 (344)	13.83 (351)	9.5 (241)	31.23 (793)	2.06 (52)
	B1	15.84 (402)	15.84 (402)	9.5 (241)	34.14 (867)	0.88 (22)
	B2	15.84 (402)	15.84 (402)	9.5 (241)	39.88 (1013)	0.88 (22)
	C1	17.81 (452)	19.04 (484)	12.1 (307)	41.90 (1064)	4.08 (104)
254JM	B1	16.83 (427)	16.70 (424)	9.5 (241)	40.38 (1026)	0.38 (10)
	B2	16.83 (427)	16.70 (424)	9.5 (241)	44.84 (1139)	0.63 (16)
	C1	18.80 (477)	19.90 (506)	12.1 (307)	46.10 (1171)	3.83 (97)

STUFFING BOX

MOTOR FRAME	VFD	Rv	Zv	W	Hv	Xv
182JP	A5	12.78 (325)	13.19 (335)	9.5 (241)	33.84 (860)	2.44 (62)
	B1	15.07 (383)	14.79 (376)	9.5 (241)	34.84 (885)	4.04 (103)
184JP	A5	12.78 (325)	13.19 (335)	9.5 (241)	33.84 (860)	2.44 (62)
	B1	15.07 (383)	14.79 (376)	9.5 (241)	34.84 (885)	4.04 (103)
213JP	A5	13.53 (344)	13.83 (351)	9.5 (241)	37.95 (964)	2.06 (52)
	B1	15.84 (402)	15.84 (402)	9.5 (241)	39.55 (1004)	0.88 (22)
	B2	15.84 (402)	15.84 (402)	9.5 (241)	45.29 (1150)	0.88 (22)
215JP	A5	13.53 (344)	13.83 (351)	9.5 (241)	36.73 (933)	2.06 (52)
	B1	15.84 (402)	15.84 (402)	9.5 (241)	38.27 (972)	0.88 (22)
	B2	15.84 (402)	15.84 (402)	9.5 (241)	44.01 (1118)	0.88 (22)
	C1	17.81 (452)	19.04 (484)	12.1 (308)	46.03 (1169)	4.08 (104)
254JP	B1	16.83 (427)	16.70 (424)	9.5 (241)	43.25 (1099)	0.38 (10)
	B2	16.83 (427)	16.70 (424)	9.5 (241)	47.71 (1212)	0.63 (16)
	C1	18.80 (477)	19.90 (506)	12.1 (307)	48.97 (1244)	3.83 (97)

NOTE: Drives with single phase input have three phase output and include three phase motors.

Kv=2 (50)

Xylem Inc.
8200 N. Austin Avenue, Morton Grove, IL 60053 Phone: (847)966-3700 Fax: (847)965-8379
www.xylem.com/bellgossett

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries. © 2019 Xylem Inc.