



Bell & Gossett
a xylem brand

SUBMITTAL

B-139.30B

JOB:

REPRESENTATIVE:

UNIT TAG:

ORDER NO.

DATE:

ENGINEER:

SUBMITTED BY:

DATE:

CONTRACTOR:

APPROVED BY:

DATE:



Series e-80

5x5x13.5

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 _____

CYCLE _____ INPUT 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

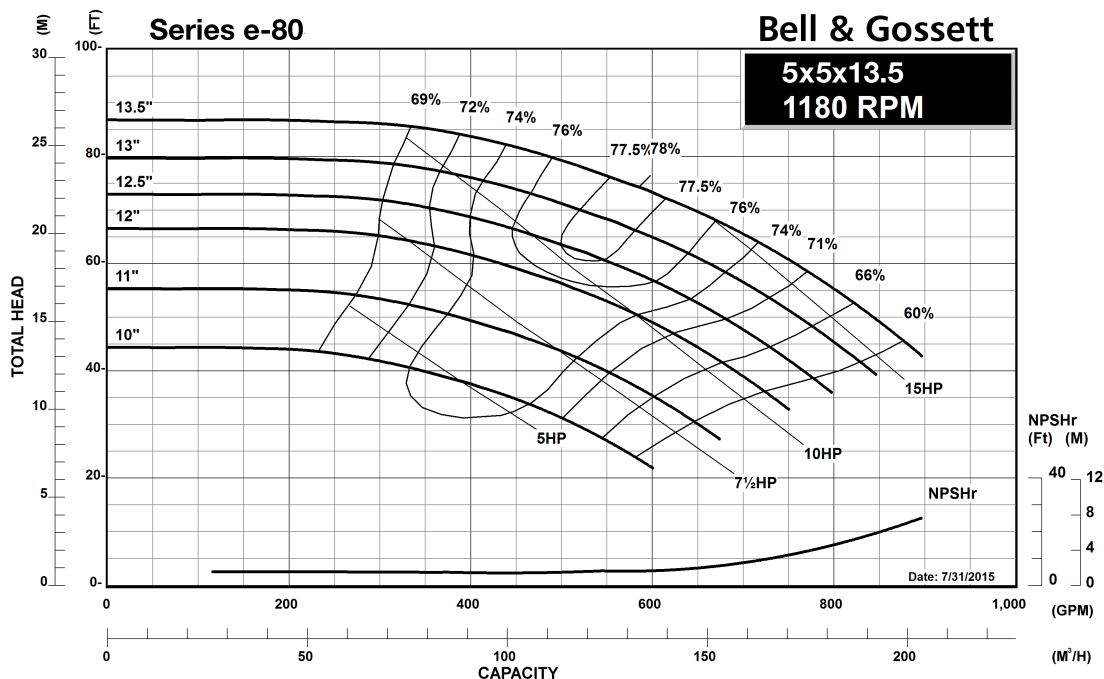
- ☐ In-Line Piping ☐ Flange Supports

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)





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Series e-80 5x5x13.5 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 _____
CYCLE _____ INPUT 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

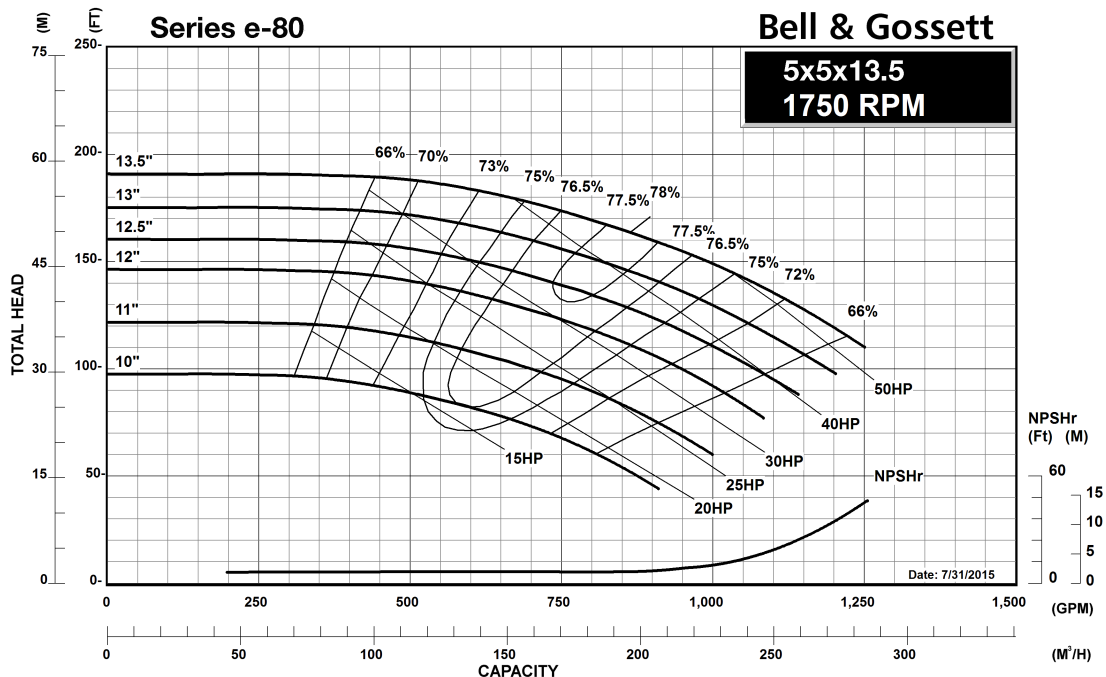
- ☐ In-Line Piping ☐ Flange Supports

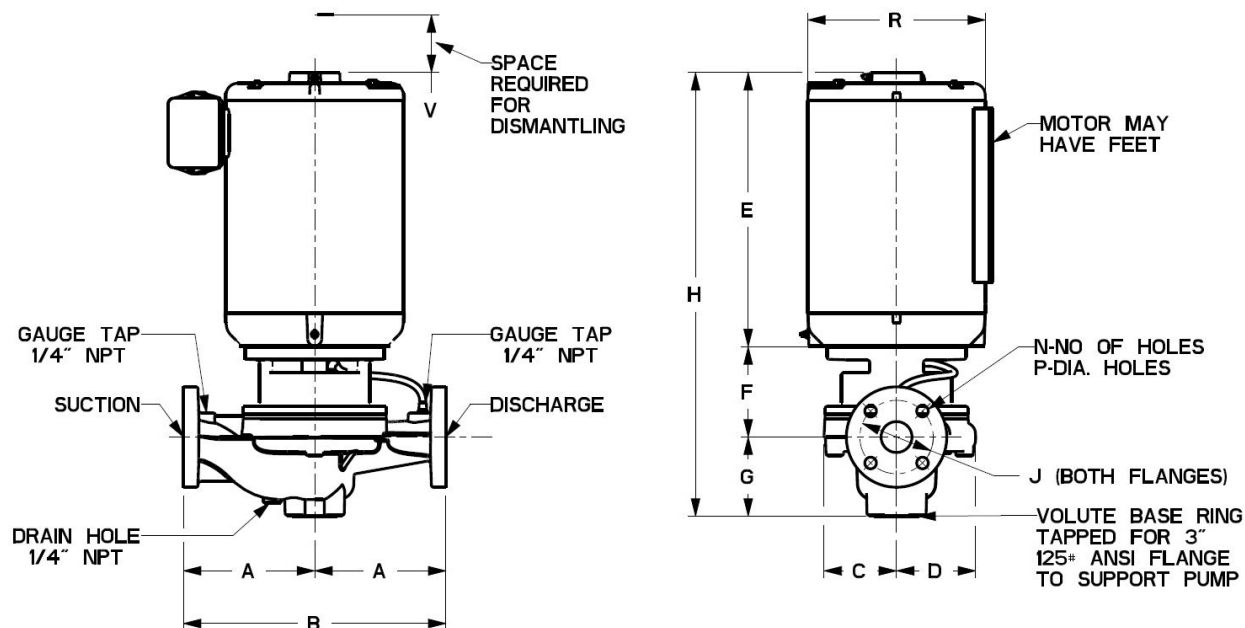
PUMP VARIABLE SPEED CONTROL

- ☐ 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)





In-Line Piping

1P0355

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					
254JM	16.50 (419)	33.00 (838)	8.78 (223)	10.29 (261)	24.13 (613)	4.61 (117)	8.50 (216)	37.24 (946)	8.50 (216)	8	0.88 (22)	9.25 (235)	8	0.88 (22)	17.00 (432)	0.00	5.75 (146)	0.25	0.25
256JM	16.50 (419)	33.00 (838)	8.78 (223)	10.29 (261)	24.13 (613)	4.61 (117)	8.50 (216)	37.24 (946)	8.50 (216)	8	0.88 (22)	9.25 (235)	8	0.88 (22)	17.00 (432)	0.00	5.75 (146)	0.25	0.25
284JM	16.50 (419)	33.00 (838)	8.78 (223)	10.29 (261)	23.63 (600)	4.61 (117)	8.50 (216)	36.74 (933)	8.50 (216)	8	0.88 (22)	9.25 (235)	8	0.88 (22)	16.13 (410)	4.63 (117)	5.75 (146)	0.25	0.25
286JM	16.50 (419)	33.00 (838)	8.78 (223)	10.29 (261)	25.13 (638)	4.61 (117)	8.50 (216)	38.24 (971)	8.50 (216)	8	0.88 (22)	9.25 (235)	8	0.88 (22)	16.13 (410)	4.63 (117)	5.75 (146)	0.25	0.25
324JM	16.50 (419)	33.00 (838)	8.78 (223)	10.29 (261)	26.00 (660)	4.61 (117)	8.50 (216)	39.11 (993)	8.50 (216)	8	0.88 (22)	9.25 (235)	8	0.88 (22)	18.75 (476)	4.63 (117)	5.75 (146)	0.25	0.25
326JM	16.50 (419)	33.00 (838)	8.78 (223)	10.29 (261)	26.00 (660)	4.61 (117)	8.50 (216)	39.11 (993)	8.50 (216)	8	0.88 (22)	9.25 (235)	8	0.88 (22)	18.75 (476)	4.63 (117)	5.75 (146)	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					
254JP	16.50 (419)	33.00 (838)	8.78 (223)	10.29 (261)	24.13 (613)	7.50 (191)	8.50 (216)	40.13 (1019)	8.50 (216)	8	0.88 (22)	9.25 (235)	8	0.88 (22)	17.00 (432)	0.00	5.75 (146)	0.25	0.25
256JP	16.50 (419)	33.00 (838)	8.78 (223)	10.29 (261)	24.13 (613)	7.50 (191)	8.50 (216)	40.13 (1019)	8.50 (216)	8	0.88 (22)	9.25 (235)	8	0.88 (22)	17.00 (432)	0.00	5.75 (146)	0.25	0.25
284JP	16.50 (419)	33.00 (838)	8.78 (223)	10.29 (261)	23.63 (600)	7.50 (191)	8.50 (216)	39.63 (1007)	8.50 (216)	8	0.88 (22)	9.25 (235)	8	0.88 (22)	16.13 (410)	4.63 (117)	5.75 (146)	0.25	0.25
286JP	16.50 (419)	33.00 (838)	8.78 (223)	10.29 (261)	25.13 (638)	7.50 (191)	8.50 (216)	41.13 (1045)	8.50 (216)	8	0.88 (22)	9.25 (235)	8	0.88 (22)	16.13 (410)	4.63 (117)	5.75 (146)	0.25	0.25
324JP	16.50 (419)	33.00 (838)	8.78 (223)	10.29 (261)	26.00 (660)	7.50 (191)	8.50 (216)	42.00 (1067)	8.50 (216)	8	0.88 (22)	9.25 (235)	8	0.88 (22)	18.75 (476)	4.63 (117)	5.75 (146)	0.25	0.25
326JP	16.50 (419)	33.00 (838)	8.78 (223)	10.29 (261)	26.00 (660)	7.50 (191)	8.50 (216)	42.00 (1067)	8.50 (216)	8	0.88 (22)	9.25 (235)	8	0.88 (22)	18.75 (476)	4.63 (117)	5.75 (146)	0.25	0.25

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

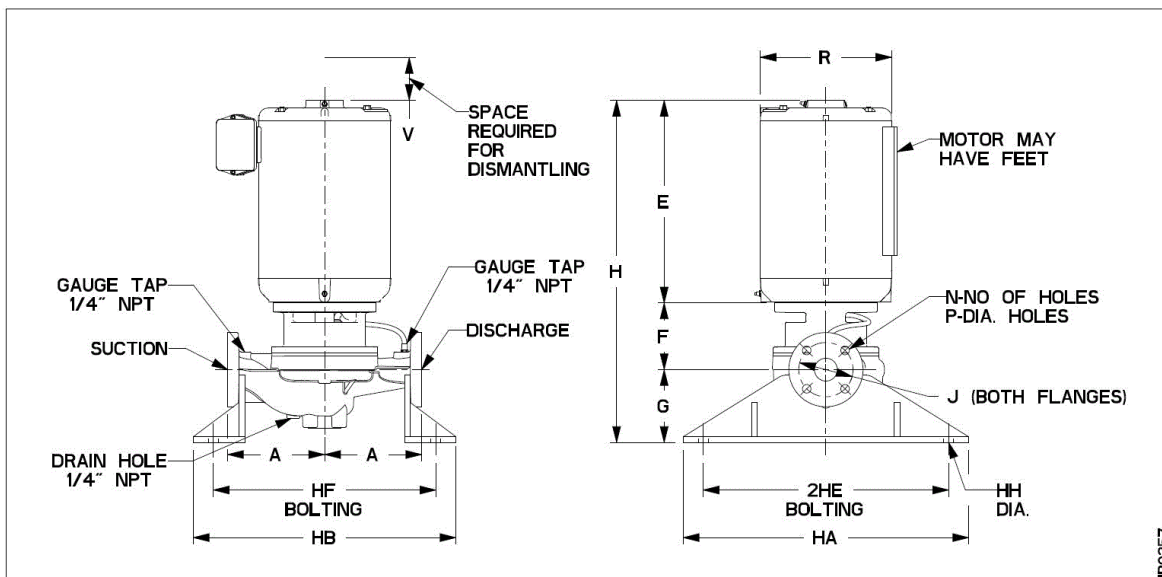
NOTE: For Single phase Motors add 1" to dimensions E & H.

*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

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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					
254JM	16.50 (419)	34.42 (874)	37.92 (963)	21.50 (546)	25.00 (635)	1.00 (25)	24.13 (613)	4.61 (117)	9.50 (241)	38.24 (971)	8.50 (216)	8 (22)	0.88 (22)	9.25 (235)	8 (22)	0.88 (22)	17.00 (432)	0.00	5.75 (146)	0.25	0.25
256JM	16.50 (419)	34.42 (874)	37.92 (963)	21.50 (546)	25.00 (635)	1.00 (25)	24.13 (613)	4.61 (117)	9.50 (241)	38.24 (971)	8.50 (216)	8 (22)	0.88 (22)	9.25 (235)	8 (22)	0.88 (22)	17.00 (432)	0.00	5.75 (146)	0.25	0.25
284JM	16.50 (419)	34.42 (874)	37.92 (963)	21.50 (546)	25.00 (635)	1.00 (25)	23.63 (600)	4.61 (117)	9.50 (241)	37.74 (958)	8.50 (216)	8 (22)	0.88 (22)	9.25 (235)	8 (22)	0.88 (22)	16.13 (410)	4.63 (117)	5.75 (146)	0.25	0.25
286JM	16.50 (419)	34.42 (874)	37.92 (963)	21.50 (546)	25.00 (635)	1.00 (25)	25.13 (638)	4.61 (117)	9.50 (241)	39.24 (997)	8.50 (216)	8 (22)	0.88 (22)	9.25 (235)	8 (22)	0.88 (22)	16.13 (410)	4.63 (117)	5.75 (146)	0.25	0.25
324JM	16.50 (419)	34.42 (874)	37.92 (963)	21.50 (546)	25.00 (635)	1.00 (25)	26.00 (660)	4.61 (117)	9.50 (241)	40.11 (1019)	8.50 (216)	8 (22)	0.88 (22)	9.25 (235)	8 (22)	0.88 (22)	18.75 (476)	4.63 (117)	5.75 (146)	0.25	0.25
326JM	16.50 (419)	34.42 (874)	37.92 (963)	21.50 (546)	25.00 (635)	1.00 (25)	26.00 (660)	4.61 (117)	9.50 (241)	40.11 (1019)	8.50 (216)	8 (22)	0.88 (22)	9.25 (235)	8 (22)	0.88 (22)	18.75 (476)	4.63 (117)	5.75 (146)	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					
254JP	16.50 (419)	34.42 (874)	37.92 (963)	21.50 (546)	25.00 (635)	1.00 (25)	24.13 (613)	7.50 (191)	9.50 (241)	41.13 (1045)	8.50 (216)	8 (22)	0.88 (22)	9.25 (235)	8 (22)	0.88 (22)	17.00 (432)	0.00	5.75 (146)	0.25	0.25
256JP	16.50 (419)	34.42 (874)	37.92 (963)	21.50 (546)	25.00 (635)	1.00 (25)	24.13 (613)	7.50 (191)	9.50 (241)	41.13 (1045)	8.50 (216)	8 (22)	0.88 (22)	9.25 (235)	8 (22)	0.88 (22)	17.00 (432)	0.00	5.75 (146)	0.25	0.25
284JP	16.50 (419)	34.42 (874)	37.92 (963)	21.50 (546)	25.00 (635)	1.00 (25)	23.63 (600)	7.50 (191)	9.50 (241)	40.63 (1032)	8.50 (216)	8 (22)	0.88 (22)	9.25 (235)	8 (22)	0.88 (22)	16.13 (410)	4.63 (117)	5.75 (146)	0.25	0.25
286JP	16.50 (419)	34.42 (874)	37.92 (963)	21.50 (546)	25.00 (635)	1.00 (25)	25.13 (638)	7.50 (191)	9.50 (241)	42.13 (1070)	8.50 (216)	8 (22)	0.88 (22)	9.25 (235)	8 (22)	0.88 (22)	16.13 (410)	4.63 (117)	5.75 (146)	0.25	0.25
324JP	16.50 (419)	34.42 (874)	37.92 (963)	21.50 (546)	25.00 (635)	1.00 (25)	26.00 (660)	7.50 (191)	9.50 (241)	43.00 (1092)	8.50 (216)	8 (22)	0.88 (22)	9.25 (235)	8 (22)	0.88 (22)	18.75 (476)	4.63 (117)	5.75 (146)	0.25	0.25
326JP	16.50 (419)	34.42 (874)	37.92 (963)	21.50 (546)	25.00 (635)	1.00 (25)	26.00 (660)	7.50 (191)	9.50 (241)	43.00 (1092)	8.50 (216)	8 (22)	0.88 (22)	9.25 (235)	8 (22)	0.88 (22)	18.75 (476)	4.63 (117)	5.75 (146)	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.



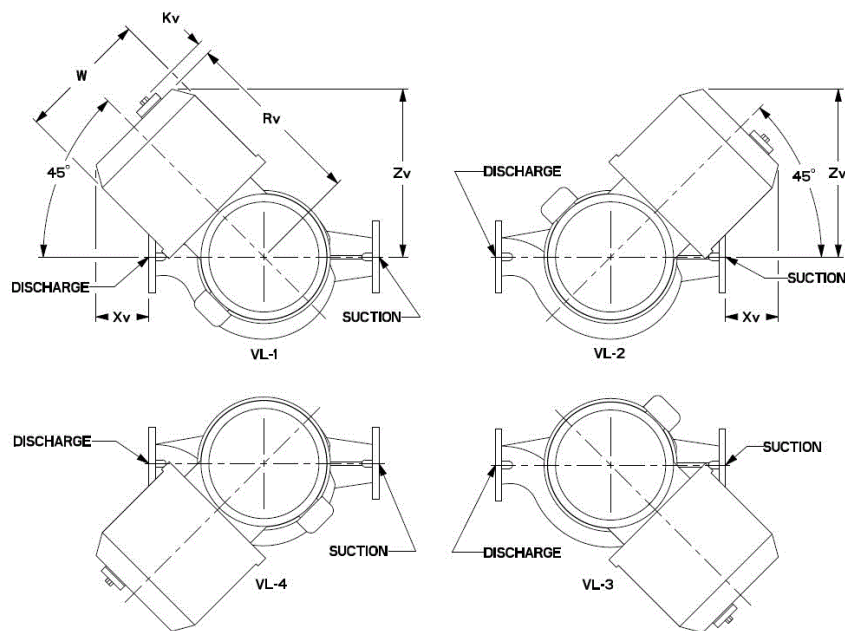
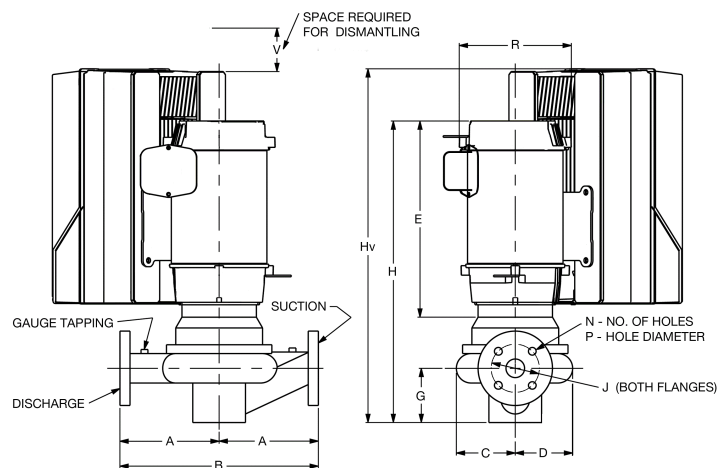
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Series e-80 5x5x13.5 Close Coupled In-Line Centrifugal Pump With Integrated Technologic® Control

B-139.30B

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)



2P0183



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Series e-80 5x5x13.5 Close Coupled In-Line Centrifugal Pump With Integrated Technologic® Control

B-139.30B

DIMENSIONS - Inches (mm)							STUFFING BOX						
MOTOR FRAME	VFD	Rv	Zv	W	Hv	Xv	MOTOR FRAME	VFD	Rv	Zv	W	Hv	Xv
254JM	B1	16.83 (427)	14.92 (379)	9.50 (241)	40.24 (1022)	0.86 (22)	254JP	B1	16.83 (427)	14.92 (379)	9.50 (241)	43.13 (1096)	0.86 (22)
	B2	16.83 (427)	14.92 (379)	9.50 (241)	44.70 (1135)	0.86 (22)		B2	16.83 (427)	14.92 (379)	9.50 (241)	47.59 (1209)	0.86 (22)
	C1	18.80 (477)	18.12 (460)	12.10 (307)	45.96 (1167)	4.06 (103)		C1	18.80 (477)	18.12 (460)	12.10 (307)	48.85 (1241)	4.06 (103)
256JM	B1	16.83 (427)	14.92 (379)	9.50 (241)	39.62 (1006)	0.86 (22)	256JP	B1	16.83 (427)	14.92 (379)	9.50 (241)	42.51 (1080)	0.86 (22)
	B2	16.83 (427)	14.92 (379)	9.50 (241)	44.07 (1119)	0.86 (22)		B2	16.83 (427)	14.92 (379)	9.50 (241)	46.96 (1193)	0.86 (22)
	C1	18.80 (477)	18.12 (460)	12.10 (307)	45.33 (1151)	4.06 (103)		C1	18.80 (477)	18.12 (460)	12.10 (307)	48.22 (1225)	4.06 (103)
	C2	19.58 (497)	20.42 (519)	14.60 (371)	49.99 (1270)	6.36 (162)		C2	19.58 (497)	20.42 (519)	14.60 (371)	52.88 (1343)	6.36 (162)
284JM	B1	17.58 (446)	15.45 (393)	9.50 (241)	38.99 (990)	0.33 (8)	284JP	B1	17.58 (446)	15.45 (393)	9.50 (241)	41.88 (1064)	0.33 (8)
	B2	17.58 (446)	15.45 (393)	9.50 (241)	43.45 (1104)	0.33 (8)		B2	17.58 (446)	15.45 (393)	9.50 (241)	46.34 (1177)	0.33 (8)
	C1	19.58 (497)	17.63 (448)	12.09 (307)	45.85 (1165)	2.00 (51)		C1	19.58 (497)	17.63 (448)	12.09 (307)	48.74 (1238)	2.00 (51)
	C2	20.36 (517)	19.93 (506)	14.59 (371)	49.00 (1245)	4.30 (109)		C2	20.36 (517)	19.93 (506)	14.59 (371)	51.89 (1318)	4.30 (109)
286JM	B2	17.58 (446)	15.45 (393)	9.50 (241)	44.94 (1142)	0.33 (8)	286JP	B2	17.58 (446)	15.45 (393)	9.50 (241)	47.83 (1215)	0.33 (8)
	C1	19.58 (497)	17.63 (448)	12.09 (307)	47.35 (1203)	2.00 (51)		C1	19.58 (497)	17.63 (448)	12.09 (307)	50.24 (1276)	2.00 (51)
	C2	20.36 (517)	19.93 (506)	14.59 (371)	50.50 (1283)	4.30 (109)		C2	20.36 (517)	19.93 (506)	14.59 (371)	53.39 (1356)	4.30 (109)
324JM	B2	18.58 (472)	16.16 (410)	9.50 (241)	44.28 (1125)	0.39 (10)	324JP	B2	18.58 (472)	16.16 (410)	9.50 (241)	47.17 (1198)	0.39 (10)
	C1	20.58 (523)	18.33 (466)	12.09 (307)	44.63 (1133)	2.73 (69)		C1	20.58 (523)	18.33 (466)	12.09 (307)	47.52 (1207)	2.73 (69)
326JM	C1	20.58 (523)	18.33 (466)	12.09 (307)	44.28 (1125)	2.73 (69)	326JP	C1	20.58 (523)	18.33 (466)	12.09 (307)	47.17 (1198)	2.73 (69)
	C2	21.58 (548)	19.88 (505)	14.59 (371)	44.63 (1133)	4.32 (110)		C2	21.58 (548)	19.88 (505)	14.59 (371)	47.52 (1207)	4.32 (110)

NOTE: Drives with single phase input have three phase output and include three phase motors.
Kv=2 (50)



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