



FILE NO: 100.542
DATE: Feb. 9, 2009
SUPERSEDES: New
DATE: New

Series 4300 IVS Design Envelope

Models: 11CJ4, 11CK4, 11CL4

11C_4

SUBMITTAL

JOB: _____

REPRESENTATIVE: _____

ENGINEER: _____

ORDER NO: _____ DATE: _____

CONTRACTOR: _____

SUBMITTED BY: _____ DATE: _____

APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA

NO. OF PUMPS:			
TAG:			
CAPACITY:	USgpm (L/s)	HEAD:	ft. (m)
LIQUID:		VISCOSITY:	
TEMPERATURE:	°F (°C)	SPECIFIC GRAVITY:	

MOTOR DESIGN DATA

HP:		
FRAME SIZE:	ENCLOSURE:	
VOLTS:	HERTZ: 60 Hz	PHASE: 3
EFFICIENCY: NEMA PREMIUM		
FLANGE SIZE:	SUCTION: 6" (150 mm)	DISCHARGE: 6" (150 mm)

DESIGN ENVELOPE CAPABILITY DATA

MODEL	FLOW Usgpm (Lps)	HEAD ft (m)	EFF%	MOTOR HP	RPM
☐ 11CJ4	716 (45.2)	62 (18.9)	84.3	20	1340
☐ 11CK4	829 (52.3)	83 (25.2)	84.3	25	1550
☐ 11CL4	942 (59.4)	106 (32.3)	84.3	30	1760

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	☐ 125 lb. CAST IRON	☐ 250 lb. DUCTILE IRON
CONSTRUCTION	BF	DBF
CASING	CAST IRON	DUCTILE IRON
IMPELLER	BRONZE	BRONZE
FLUSH LINE	COPPER	COPPER
PUMP SHAFT	416 STAINLESS STEEL	
COUPLING	HIGH TENSILE ALUMINUM	
GASKET	CONFINED NON-ASBESTOS	

MAXIMUM PUMP OPERATING CONDITIONS

125 lb. CAST IRON	250 lb. DUCTILE IRON
175 psig at 140°F (12 bars at 60°C) 100 psig at 300°F (7 bars at 149°C)	375 psig at 100°F (26 bars at 38°C) 275 psig at 500°F (19 bars at 260°C)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

MECHANICAL SEAL DESIGN DATA

See File No. 43.50 for standard mechanical
Armstrong Seal Reference Number
☐ C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT

SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

DRIVE DATA

SENSORLESS CONTROL:	☐ REQUIRED	☐ NOT REQUIRED
*MINIMUM SYSTEM PRESSURE TO BE MAINTAINED _____ ft (m)		
FIELD BUS PROTOCOL: ☐ ModBUS RTU (standard) ☐ LonWorks ☐ BACnet		
ENCLOSURE: UL Type 12		
EMI/RFI CONTROL: Integrated Filter designed to meet EN61800-3		
HARMONIC SUPPRESSION: Integrated DC Link Reactors (<5% THD)		
COOLING: Fan-cooled through back channel		
AMBIENT TEMPERATURE: -10°C to +45°C up to 1000 meters above sea level (-14°F TO +113°F, 3280ft)		
ANALOG INPUTS: 2, current or voltage		
ANALOG OUTPUTS: 1, current		
DIGITAL INPUTS: 4 Programmable		
DIGITAL OUTPUTS: 2 Programmable (can be configured as additional digital inputs)		
PULSE INPUTS: 2 Programmable		
RELAY OUTPUTS: 2 Programmable		
COMMUNICATION PORT: RS 485		

CHASSIS SIZE:

MODEL	hp	VFD Chassis Size		
		200V-240V	380V-480V	600V
11CJ4	20	B2	B1	B1
11CK4	25	C1	B1	B1
11CL4	30	C1	B2	B2

*If minimum maintained system pressure is not known: Default to 40% of design head

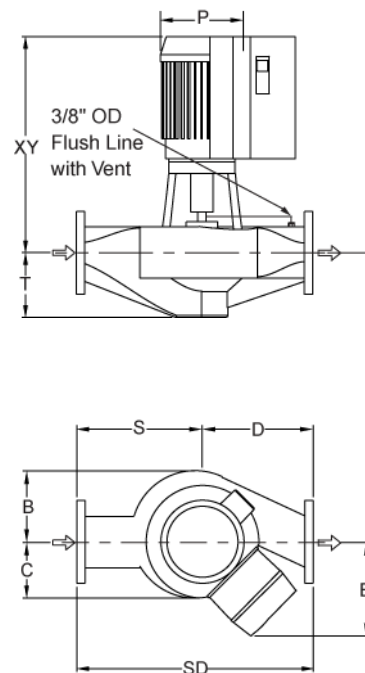
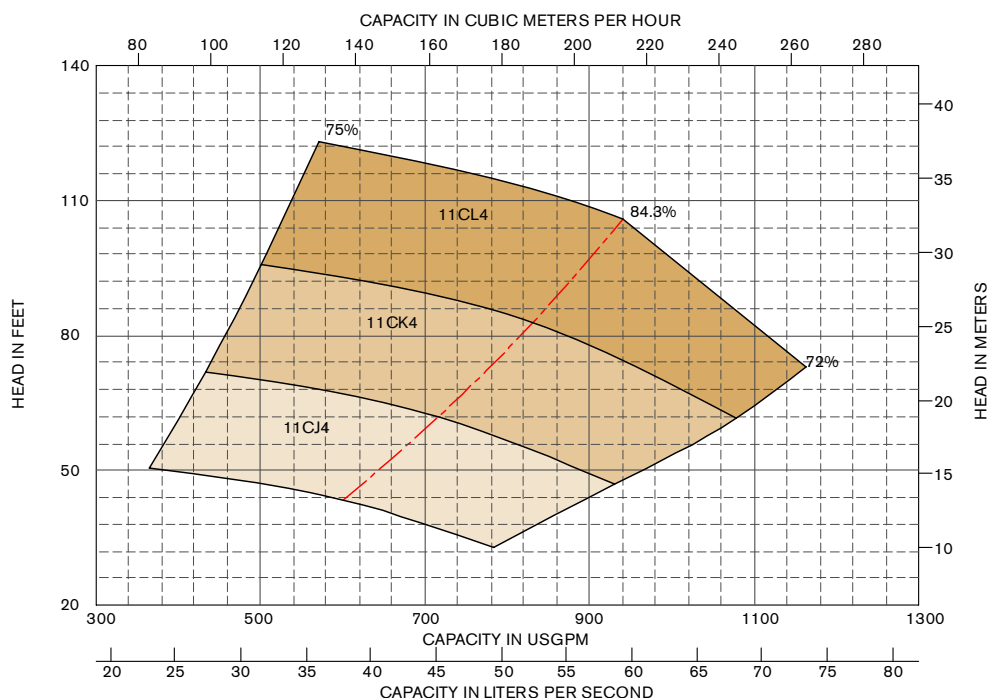


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11C_4

4300 60Hz 4pole DE - Curve 11CL4



DIMENSION DATA - inches (mm)

Curve No.	Size	Power (HP)	Motor Frame		B	C	D	S	T	SD	E Max	P	XY	Weight lbs (Kg)
			ODP	TEFC										
11CJ4	6x6x11.5	20	256TC	256TC	9.80 (249)	8.50 (216)	16.50 (419)	18.50 (470)	9.75 (248)	35.00 (889)	17.42 (442)	13.38 (340)	34.22 (869)	755 (343)
11CK4	6x6x11.5	25	284TC	284TC	9.80 (249)	8.50 (216)	16.50 (419)	18.50 (470)	9.75 (248)	35.00 (889)	20.73 (527)	15.31 (389)	43.54 (1106)	825 (375)
11CL4	6x6x11.5	30	286TC	286TC	9.80 (249)	8.50 (216)	16.50 (419)	18.50 (470)	9.75 (248)	35.00 (889)	20.73 (527)	15.31 (389)	43.54 (1106)	845 (384)

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF $\pm 0.125"$ (± 3 mm) SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- PUMP EQUIPPED WITH CASING DRAIN PLUG AND 1/4" NPT SUCTION AND DISCHARGE GAUGE PORTS

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