

DESIGN ENVEL		
SINGLE PHASE	0606-007.5	SUBMITTAL

File No: 100.4545 Date: OCTOBER 27, 2014 Supersedes: NEW Date: NEW

Job:	Representative:	
	Order No:	_ 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: 6" (150mm)	Discharge: 6" (150mm)	

MOTOR DESIGN DATA

нр: 7.5	rpm: 2900	Frame size:
Enclosure:	Volts: 208	Freq: 60 Hz
Phase: 3	Efficiency: NEMA premium	

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 150°F (12 bars at 65°C) 140 psig at 250°F (10 bars at 121°C)

ANSI 250

250 psig at 150°F (17 bars at 65°C) 250 psig at 250°F (17 bars at 121°C)

- Tolerance of ± 0.125 " (± 3 mm) should be used
- For exact installation, data please write factory for certified dimensions

MECHANICAL SEAL DESIGN DATA

See file no. 43.50 for standard mechanical seal details as indicated below

Armstrong seal reference number

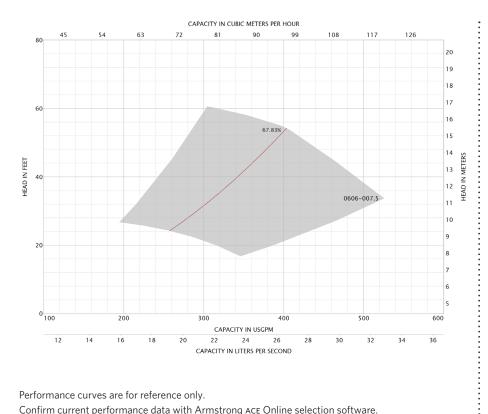
□ A1 (c) □ Others: _____

CONTROLS DATA

Power supply:	Volts: 200-240VAC	
	Freq: 50/60Hz Phase: 1	
Sensorless control:	Standard	
Minimum system pressure		
to be maintained:	ft (m)*	
Protocol (standard):	□ Modbus rtu □ BACnet [™] ms/tp	
	□ Johnson [®] N2 □ Siemens [®] FLN	
Protocol (optional):	□ LonWorks [®]	
Enclosure:	🗆 Indoor – UL TYPE 12	
	□ Outdoor – UL TYPE 4X with	
	weather shield	
	□ Outdoor - UL TYPE 4X less weather shield	
Disconnect switch:		
Duty/standby		
pre-wired bridge:		
	EN61800-3 directive	
Harmonic suppression:	Dual Dc-link reactors (Equivalent: 5%	
	Ac line reactor) Supporting IEEE	
	519-1992 requirements**	
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, 3300 ft)	
Analog ı/o:	Two current or voltage inputs, one current output	
Digital ı/o:	Six programmable inputs (two can be configured as outputs)	
Pulse inputs:	Two programmable	
Relay outputs:	Two programmable	
Communication port:	1-rs485, 1-usb	

 If minimum maintained system pressure is not known: Default to 40% of design head
The IVS 102 drive is a low harmonic drive via built-in DC line reactors. This does not guaranty performance to any system wide harmonic specification or the costs to meet a system wide specification. If supplied with the system electrical details, Armstrong will run a computer simulation of the system wide harmonics. If system harmonic levels are exceeded Armstrong can also recommend additional harmonic mitigation and the costs for such mitigation. Design Envelope 4302 dualArm Single phase

2



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DIMENSION DATA

	INDOOR (UL TYPE 12/ODP)	OUTDOOR (UL TYPE 4X/TEFC)
Frame size:	184	213
Size:	6×6×6	6×6×6
HP:	7.5	7.5
RPM:	2900	2900
AB:	29.48 (749)	38.02(966)
B1:	7.39(188)	7.39(188)
B2:	7.39(188)	7.39(188)
C1:	13.63(346)	13.63(346)
C2:	14.31(364)	14.31(364)
D1:	16.81(427)	16.81(427)
D2:	16.81(427)	16.81(427)
E:	6.84(174)	8.25(210)
F:	16.02(407)	20.25(514)
Р:	10.38(264)	11.25(286)
SD:	33.50(851)	33.50(851)
т:	7.75(197)	7.75(197)
XY:	26.79(680)	29.41(747)
Weight:	650(294.8)	-

Dimensions - inch (mm)

Weight – Ibs (kg)

Performance curves are for reference only. Confirm current performance data with Armstrong ACE Online selection software.

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C1

