

harmonic levels are exceeded Armstrong can also recommend additional harmonic

mitigation and the costs for such mitigation.

# DESIGN ENVELOPE 4302 DUALARM |

1020-015.0 | **SUBMITTAL** 

Armstrong seal reference number

☐ Others:

□ c1 (a)

File No: 100.4454IN

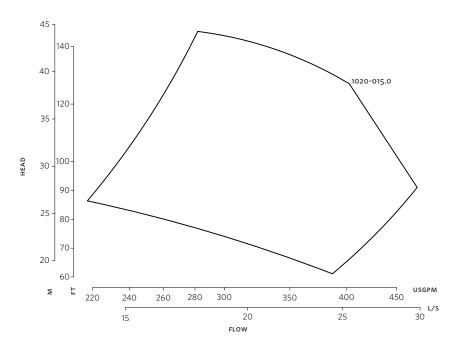
Date: AUGUST 14, 2015

Supersedes: 100.4454IN

Date: JUNE 15, 2015

Job:		Representative:	
		Order No:	Date:
Engineer:		Submitted by:	Date:
Contractor:		Approved by:	Date:
PUMP DESIGN DATA		CONTROLS DATA	
No. of pumps:	Tag:	Sensorless Control:	Standard
Capacity: m³/h(USgpm) Liquid:		Minimum system pressure to be maintained:	m (ft)*
Temperature:°C (°F)	Specific gravity:	Protocol (standard):	☐ Modbus RTU ☐ BACnet™ MS/TP☐ Johnson® N2 ☐ Siemens® FLN
Suction: 100mm (4")	Discharge: 100mm (4")	Protocol (optional):	☐ LonWorks®
		Enclosure:	☐ Indoor - IP55 ☐ Outdoor - IP66
MOTOR DESIGN DATA		Fused disconnect switch:	
kW: RPM: Enclosure:  Volts: Hertz: 50 Hz Phase: 3  Efficiency: □ IE2 □ IE3 □ EFF2 Frame size:  MAXIMUM PUMP OPERATING CONDITIONS  PN 16  16 bars at 149°C (232 psig at 300°F)  7 bars at 150°C (100 psig at 300°F)  PN 25  25 bars at 149°C (375 psig at 300°F)  21 bars at 150°C (260 psig at 300°F)		Duty/standby pre-wired bridge:	
		ЕМІ∕RFI control:	Integrated filter designed to meet EN61800-3
		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)
<ul> <li>Tolerance of ±3 mm (±0.125") should be used</li> <li>For exact installation, data please write factory for certified dimensions</li> </ul>		Pulse inputs:	Two programmable
		Relay outputs:	Two programmable
		Communication port:	1-RS485, 1-USB
MECHANICAL SEAL DESIGN DATA  See file no. 43.50 for standard mechanical seal details as		*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 pc 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	
indicated below			

2



Performance curves are for reference only.

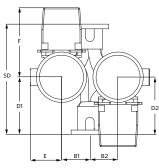
Confirm current performance data with Armstrong ACE Online selection software.

#### **DIMENSION DATA**

	INDOOR
	IP55
Frame size:	160M
Size:	1020-015.0
kW:	15
RPM:	3000
AB:	837(33.04)
B1:	222(08.74)
B2:	222(08.74)
C1:	383(15.16)
C2:	397(15.62)
D1:	377(14.84)
D2:	377(14.84)
E:	208(08.27)
F:	430(16.92)
P:	315(12.40)
SD:	702(27.63)
T:	160(06.38)
XY:	684(26.92)
Weight:	426.83(940)
Dimensions - m	nm (inch)

Weight - kg (lbs)

## INDOOR



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