S Series – Industrial pumps (close coupled)

▼ Documentation packs			
Documentation pack	Inclusive documents	Standard	
Bronze pack	Order acknowledgement (electronic)		
	Installation, Operating & Maintenance manual		
	Declaration of conformity	•	
	ATEX Declaration of conformity – only if contracted		
Silver pack (includes bronze pack)	Standard pump GA drawing		
	Hydrostatic test certificate		
	Pump HQ performance test certificate		
	Spare parts list - commissioning		
	Type 2.2 certificates (* pressure containing + process wetted parts or	nly) – only if contracted	
Gold pack (includes silver pack)	Pump SA & parts list		
	Pump HQ performance test curve		
	Pump datasheet		
	Motor type test certificate		
	Motor GA drawing		
	Motor datasheet		
	Motor Declaration of conformity		
	Motor ATEX Declaration of conformity – if applicable		
	Seal – ATEX Declaration of conformity – if applicable		
Documentation format	Electronic CD – Adobe (.pdf), ms office (.xls.doc)	•	
	Hard copy		

▼ NDT			
Pump test	Test standard	Acceptance criteria	Standard
Hydrostatic	BSEN25199 / ISO 5199	BSEN25199 / ISO 5199 (1.5 x MAWP)	•
Head & flow	BSEN25199 / ISO 5199	ISO 9906 Grade 2	
	BSEN25199 / ISO 5199	ISO 9906 Grade 1	
Mechanical run – 1 hour at rated duty	Amarinth procedure	Amarinth procedure	
NPSH – single point	BSEN25199 / ISO 5199	ISO 9906 Grade 2	
	BSEN25199 / ISO 5199	ISO9906 Grade 1	
Noise – single point at 1m	BSEN12639: 2000	Mutual agreement	
Vibration – single point	BSEN25199 / ISO 5199	BSEN25199 / ISO 5199	

*Pressure containing parts include; volute casing & seal housing. Process wetted parts include additional shaft & impeller. A full range of testing and documentation can be tailored to suit your exact requirements. Amarinth reserves the right to alter any information within this document without prior notification. © Copyright 2005-2017. Amarinth Limited. E&OE.

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S Series – Small industrial pumps (close coupled)

technical specification





▼ General Specification	
General description	A range of single stage centrifugal end suction pumps with tangential discharge manufactured in
	a variety of alloys. All pumps and individual components are fully interchangeable with the
	equivalent Girdlestone SSM series units.
Construction	Back pullout design with machined abutments
Design methodology	Advanced computer techniques including 3D modelling & FEA
Design standards	ATEX EC-Directive 94/9/EC
Design pressure rating	10 bar g @ 20°C
Suction pressure rating	3.5 bar g
Temperature rating	-5°C to 120°C
Performance envelope	
Flow rate	Up to 20m³/h
Differential head	Up to 55m
Speed	Up to 3600 rpm
Configurations	Close coupled
Frame sizes	025x025x173 to 040x040x127
Design life	15 years (2 years uninterrupted operation)

Material Options	Casing	Impeller
Cast Iron / Cast Iron	BS EN 1561 Gr EN GJL 250	BS EN 1561 Gr EN GJL 250
Cast Iron / Gun Metal	BS EN 1561 Gr EN GJL 250	BS EN 1982 CC492K GS
Cast Iron / SS 316	BS EN 1561 Gr EN GJL 250	ASTM A744 CF 8M
SS 316 / SS 316	ASTM A744 CF 8M	ASTM A744 CF 8M
Gunmetal / Gunmetal	BS EN 1982 CC492K GS	BS EN 1982 CC492K GS
Titanium / Titanium	ASTM B367 Gr C2	ASTM B367 Gr C2

S Series – Industrial pumps (close coupled)

Features	Technical notes	Benefits	Standard
→ Casing			
Construction	One piece casting / fanbrication	Prolonged pump life	•
Connections	Screwed BSP		•
Fasteners	High tensile SS 316	Strength & corrosion resistance	•
Gasket	CSF	Covers most fluids	•
	Customer specified	Matched to site standard	
Drain	1/4 " plugged		•
→ Impeller			
Construction	One piece casting	Strength & integrity	•
Vanes	4 / 5 off designed specifically for low NPSH	Low NPSHr	•
Style	Shrouded	Optimum efficiency	•
	Open	Handles solids content in fluid	
Fixing	Keyed with retention screw	Easy maintenance	•
Balancing	Static balance	Prolonged pump life	•
▼ Seals & seal housing			
Shaft diameters	30mm		•
Seal types	Single component		•
Seal housing	Bell type to suit a variety of seals	Optimum seal environment	•
Seal piping arrangement	ISO Code 01	Optimum seal environment	•
Manufacturers	John Crane		•
	AES, Burgmann, or customer specified	Matched to site standard	

Bentwaters Parks, Rendlesham, Woodbridge, Suffolk, IP12 2TW. United Kingdom



Amarinth Limited

Features	Technical notes	Benefits	Standard
→ Motor adaptor Style	One piece casting with integral feet	Better concentricity, less run out	•
Construction	Heavy duty casting with	Superior motor alignment	
Construction	machined abutments	Superior motor dilgiment	
Materials	Cast Iron		
▼ Shaft & bearings	Cast IIOII		
0			
Bearings	Uses motor bearings (deep groove ball)	Cost benefit	
Design bearing life	17,500 – 40,000 hrs dependant		•
	upon motor fitted		
Shaft material	Stainless steel 316		•
→ Driver			
Motor type	Safe area, EExN, EExd, EExde, Exe,	Matched to area requirements	
Standards	ISO frames		•
	ATEX	Hazardous area requirement	
Supply	380 - 440 / 3 / 50, 440 - 460 / 3 / 60	Matched to site standard	
Manufacturers	ABB, Brook Hansen, Loher, Seimens,	Matched to site standard	
→ Paint			
Industrial specification	One pack polyurethane		•
	(Gentian Blue RAL5010)		
▼ Packing			
<u> </u>			
Road	Palletised & cling wrap		
		Langton store	
Seafreight	Wooden box paper lined	Long term storage	
	Wooden box with vacuum sealed bag	Moisture free	
Airfreight	Wooden box paper lined	Long term storage	
	Wooden box with vacuum sealed bag	Moisture free	