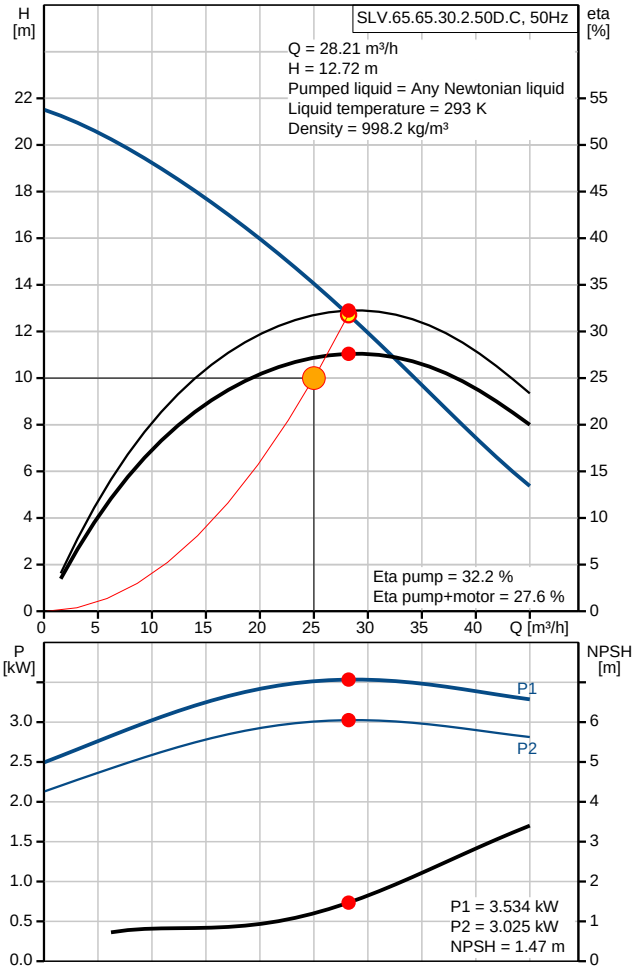
IrriPlan®
consulting engineers

Company name: Irriplan Limited
Created by: Marcus White
Phone: 07904 526307
Email: marcus@irriplan.net
Date: 9/27/2015

Project: Diana BH NO. 2 Water distribution
Reference Number: Diana Tank supply submersible pump
Client: The Royal Parks
Client Number:
Contact:

Description	Value
General information:	
Product name:	SLV.65.65.30.2.50D.C
Product No:	98624165
Position	
EAN number:	5711498426351
Price:	On request
Technical:	
Actual calculated flow:	28.21 m³/h
Max flow:	45 m³/h
Resulting head of the pump:	12.72 m
Head max:	22.3 m
Type of impeller:	SUPER VORTEX
Maximum particle size:	65 mm
Primary shaft seal:	SIC/SIC
Secondary shaft seal:	CARBON/CERAMICS
Approvals on nameplate:	CE, EN12050-1
Curve tolerance:	ISO9906:2012 3B2
Materials:	
Pump housing:	EN-GJL-250
Impeller:	EN-GJL-250
Motor:	EN-GJL-250
Installation:	
Maximum ambient temperature:	313 K
Flange standard:	DIN
Pump inlet:	80
Pump outlet:	65
Pressure stage:	PN 10
Maximum installation depth:	20 m
Inst dry/wet:	SUBMERGED
Installation:	VERTICAL
Frame range:	B
Liquid:	
Pumped liquid:	Any Newtonian liquid
Maximum liquid temperature:	313 K
Liquid temp:	293 K
Density:	998.2 kg/m³
Kinematic viscosity:	1 mm2/s
Electrical data:	
Number of poles:	2
Power input - P1:	3.8 kW
Rated power - P2:	3 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance:	+10/-10 %
Start. method:	direct-on-line
Max starts per. hour:	20
Rated current:	6.9-6.7 A
Cos phi - power factor:	0.85
Cos phi - p.f. at 3/4 load:	0.79
Cos phi - p.f. at 1/2 load:	0.67
Rated speed:	2909 rpm



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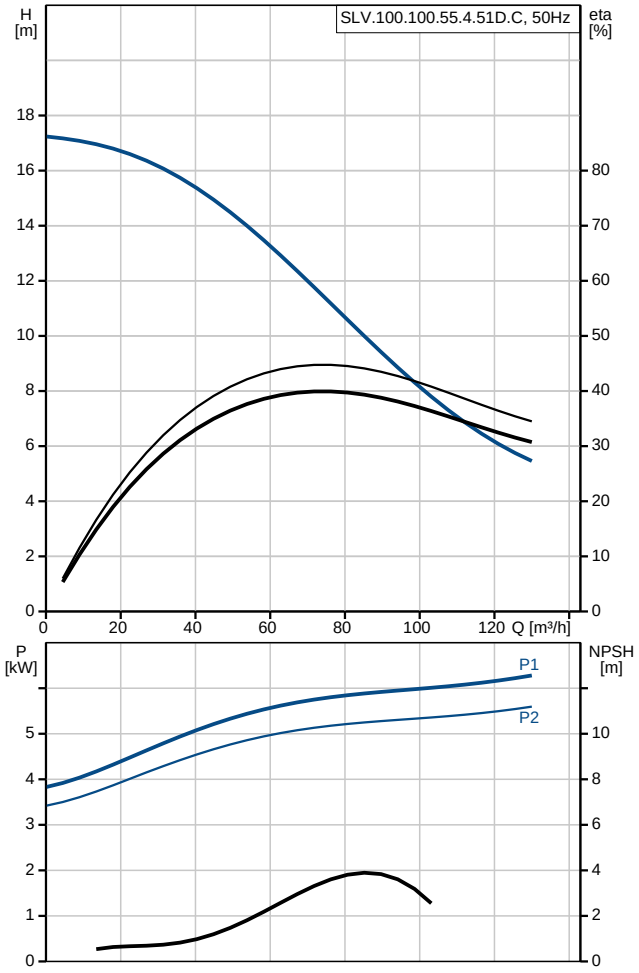
Project:	Diana BH No. 2 Water distribution
Reference Number:	Hyde Reservoir & Round Pond submersible pump
Client:	The Royal Parks
Client Number:	
Contact:	

Description	Value
General information:	
Product name:	SLV.100.100.55.4.51D.C
Product No:	98626031
Position	
EAN number:	5711498464919
Price:	On request
Technical:	
Max flow:	130 m³/h
Head max:	17.2 m
Type of impeller:	SUPER VORTEX
Maximum particle size:	100 mm
Primary shaft seal:	SIC/SIC
Secondary shaft seal:	CARBON/CERAMICS
Approvals on nameplate:	CE, EN12050-1
Curve tolerance:	ISO9906:2012 3B
Materials:	
Pump housing:	Cast iron (EN-GJL-250)
	EN-GJL-250
Impeller:	Cast iron (EN-GJL-250)
	EN-GJL-250
Motor:	Cast iron (EN-GJL-250)
	EN-GJL-250
Installation:	
Maximum ambient temperature:	313 K
Flange standard:	DIN
Pump inlet:	100
Pump outlet:	100
Pressure stage:	PN 10
Maximum installation depth:	20 m
Inst dry/wet:	Submerged
Installation:	VERTICAL
Frame range:	C
Liquid:	
Maximum liquid temperature:	313 K
Density:	998.2 kg/m³
Electrical data:	
Number of poles:	4
Power input - P1:	6.3 kW
Rated power - P2:	5.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance:	+10/-10 %
Start. method:	SD
Max starts per. hour:	20
Rated current:	11.2-10.6 A
Starting current:	81 A
Cos phi - power factor:	0.85
Cos phi - p.f. at 3/4 load:	0.80
Cos phi - p.f. at 1/2 load:	0.70
Rated speed:	1463 rpm
Motor efficiency at full load:	89.1 %
	89.1 %



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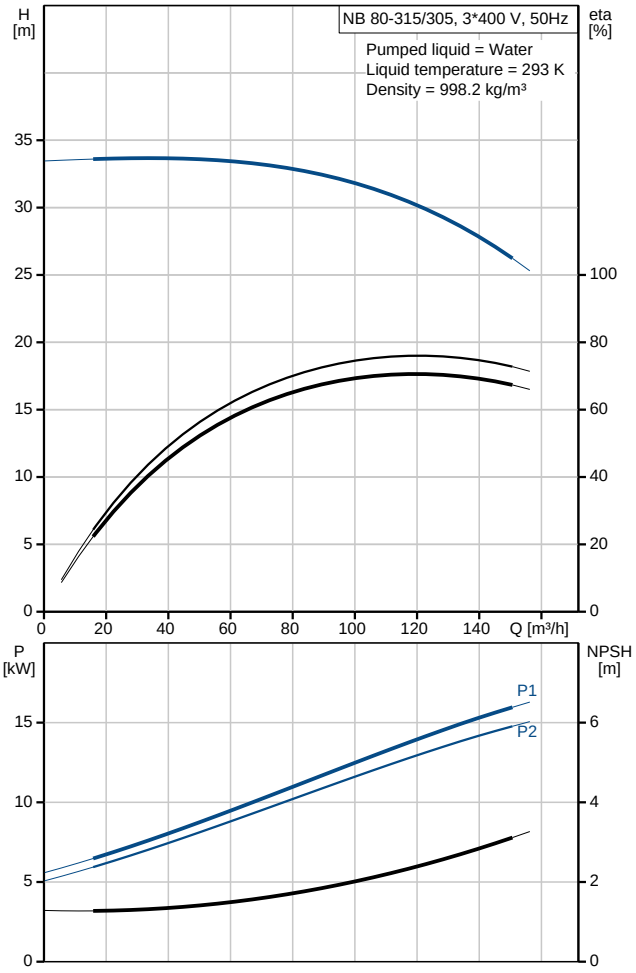
Project:	Diana BH No. 2 Water distribution	**Client:**	The Royal Parks
Reference Number:	Hyde Reservoir & Round Pond booster pump	**Client Number:**	
		Contact:	

Description	Value
General information:	
Product name:	NB 80-315/305 AS-F-A-BAQE
Product No:	98070167
Position	
EAN number:	5710628425981
Price:	On request
Technical:	
Speed for pump data:	1460 rpm
Rated flow:	125 m³/h
Rated head:	29 m
Actual impeller diameter:	305 mm
Impeller nom:	315 mm
Primary shaft:	BAQE
Secondary shaft seal:	NONE
Shaft diameter:	32 mm
Curve tolerance:	ISO 9906:1999 Annex A
Pump version:	AS
Materials:	
Pump housing:	Cast iron
	EN-GJL-250
	ASTM A48-40 B
Impeller:	Cast iron
	EN-GJL-200
	ASTM A48-30 B
Material code:	A
Installation:	
Maximum ambient temperature:	333 K
Maximum operating pressure:	1600 kPa
Flange standard:	EN 1092-2
Connect code:	F
Pump inlet:	DN 100
Pump outlet:	DN 80
Pressure stage:	PN 16
Wear ring(s):	W
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	273 .. 393 K
Liquid temp:	293 K
Density:	998.2 kg/m³
Electrical data:	
Motor type:	160LB
IE Efficiency class:	IE3
Number of poles:	4
Rated power - P2:	15 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 D/660-690 Y V
Rated current:	29,0-28,0/16,8-16,4 A
Starting current:	760-870 %
Cos phi - power factor:	0,86-0,82
Rated speed:	1460-1470 rpm
Efficiency:	IE3 92,1%
Motor efficiency at full load:	92,1 %



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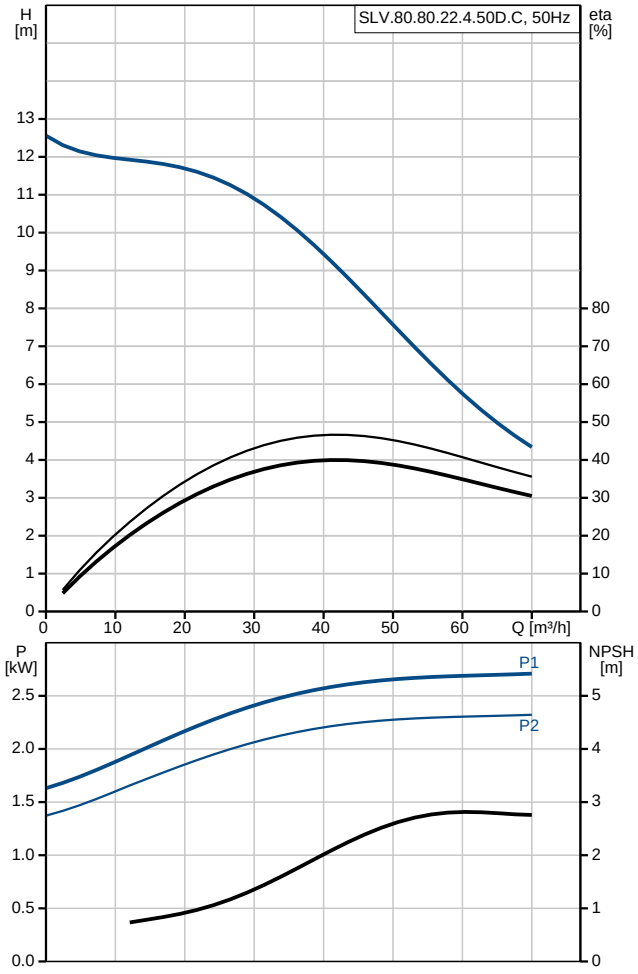
Project:	Diana BH No. 2 Water distribution	**Client:**	The Royal Parks
Reference Number:	Rotten Row submersible pump	**Client Number:**	
		Contact:	

Description	Value
General information:	
Product name:	SLV.80.80.22.4.50D.C
Product No:	98624252
Position	
EAN number:	5711498427655
Price:	On request
Technical:	
Max flow:	70 m³/h
Head max:	13.1 m
Type of impeller:	SUPER VORTEX
Maximum particle size:	80 mm
Primary shaft seal:	SIC/SIC
Secondary shaft seal:	CARBON/CERAMICS
Approvals on nameplate:	CE, EN12050-1
Curve tolerance:	ISO9906:2012 3B2
Materials:	
Pump housing:	Cast iron (EN-GJL-250)
	EN-GJL-250
Impeller:	Cast iron (EN-GJL-250)
	EN-GJL-250
Motor:	Cast iron (EN-GJL-250)
	EN-GJL-250
Installation:	
Maximum ambient temperature:	313 K
Flange standard:	DIN
Pump inlet:	80
Pump outlet:	80
Pressure stage:	PN 10
Maximum installation depth:	20 m
Inst dry/wet:	SUBMERGED
Installation:	VERTICAL
Frame range:	B
Liquid:	
Maximum liquid temperature:	313 K
Density:	998.2 kg/m³
Electrical data:	
Number of poles:	4
Power input - P1:	2.7 kW
Rated power - P2:	2.2 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance:	+10/-10 %
Start. method:	DOL
Max starts per. hour:	20
Rated current:	5.6-5.7 A
Cos phi - power factor:	0.73
Cos phi - p.f. at 3/4 load:	0.65
Cos phi - p.f. at 1/2 load:	0.52
Rated speed:	1462 rpm
Motor efficiency at full load:	85.7 %
	85.7 %



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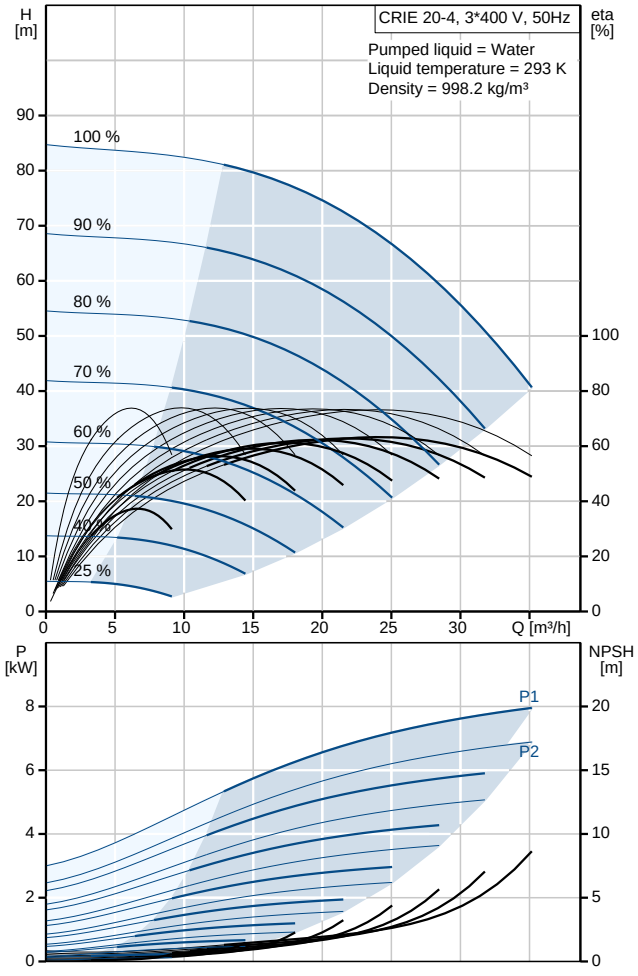
Project:	Diana BH No. 2 Water distribution	**Client:**	The Royal Parks
Reference Number:	Rotten Row booster pump	**Client Number:**	
		Contact:	

Description	Value
General information:	
Product name:	CRIE 20-4 AN-FGJ-I-E-HQQE
Product No:	96514715
Position	
EAN number:	5700396711720
Price:	On request
Technical:	
Speed for pump data:	3525 rpm
Rated flow:	25.3 m³/h
Rated head:	67.1 m
Impellers:	04
Primary shaft:	HQQE
Approvals on nameplate:	CE,TR
Curve tolerance:	ISO9906:2012 3B
Stages:	4
Pump version:	AN
Materials:	
Pump housing:	Stainless steel
	DIN W.-Nr. 1.4408
	ASTM A 351 CF 8M
Impeller:	Stainless steel
	DIN W.-Nr. 1.4301
	AISI 304
Material code:	I
Code for rubber:	E
Bush material:	NONE
Installation:	
Maximum ambient temperature:	313 K
Max pressure at stated temp:	16 bar / 120 °C
	16 bar / -20 °C
Flange standard:	DIN
Connect code:	FGJ
Pipe connection:	DN 50
Pressure stage:	PN 16
Flange size for motor:	FF265
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	253 .. 393 K
Liquid temp:	293 K
Density:	998.2 kg/m³
Electrical data:	
Motor type:	132SB
IE Efficiency class:	IE3
Number of poles:	2
Rated power - P2:	7.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-480 V
Rated current:	14,8-11,6 A
Cos phi - power factor:	0,94-0,95
Rated speed:	480-3500 rpm
Efficiency:	IE3 90,1%



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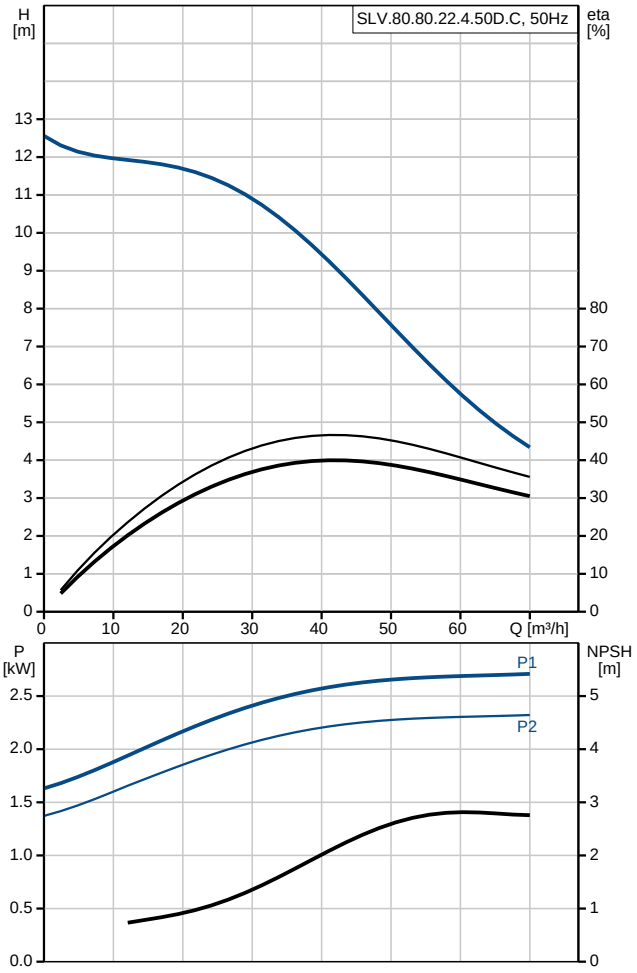
Project: Diana BH No. 2 Water distribution
Reference Number: Toilet and irrigation tanks submersible pump

Client: The Royal Parks
Client Number:
Contact:

Description	Value
General information:	
Product name:	SLV.80.80.22.4.50D.C
Product No:	98624252
Position	
EAN number:	5711498427655
Price:	On request
Technical:	
Max flow:	70 m³/h
Head max:	13.1 m
Type of impeller:	SUPER VORTEX
Maximum particle size:	80 mm
Primary shaft seal:	SIC/SIC
Secondary shaft seal:	CARBON/CERAMICS
Approvals on nameplate:	CE, EN12050-1
Curve tolerance:	ISO9906:2012 3B2
Materials:	
Pump housing:	Cast iron (EN-GJL-250)
	EN-GJL-250
Impeller:	Cast iron (EN-GJL-250)
	EN-GJL-250
Motor:	Cast iron (EN-GJL-250)
	EN-GJL-250
Installation:	
Maximum ambient temperature:	313 K
Flange standard:	DIN
Pump inlet:	80
Pump outlet:	80
Pressure stage:	PN 10
Maximum installation depth:	20 m
Inst dry/wet:	SUBMERGED
Installation:	VERTICAL
Frame range:	B
Liquid:	
Maximum liquid temperature:	313 K
Density:	998.2 kg/m³
Electrical data:	
Number of poles:	4
Power input - P1:	2.7 kW
Rated power - P2:	2.2 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance:	+10/-10 %
Start. method:	DOL
Max starts per. hour:	20
Rated current:	5.6-5.7 A
Cos phi - power factor:	0.73
Cos phi - p.f. at 3/4 load:	0.65
Cos phi - p.f. at 1/2 load:	0.52
Rated speed:	1462 rpm
Motor efficiency at full load:	85.7 %
	85.7 %
Motor efficiency at 3/4 load:	85.4 %



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Project:	Diana BH No. 2 Water distribution	**Client:**	The Royal Parks
Reference Number:	Toilet and irrigation tanks booster pumps	**Client Number:**	
		Contact:	

Description	Value
General information:	
Product name:	Hydro MPC-E 2 CRIE15-3
Product No:	98426963
Position	
EAN number:	5711494818679
Price:	On request
Technical:	
Min flow system:	1.8 m³/h
Max flow:	57 m³/h
Max flow system:	57 m³/h
Head max:	32.5 m
Impellers main:	3
Main pump name:	CRIE15-3
Main pump No:	96514518
Number of pumps:	2
Non-ret. valve:	Y
Installation:	
Maximum operating pressure:	1600 kPa
Maximum inlet pressure:	1280 kPa
Manifold inlet:	DN 80
Manifold outlet:	DN 80
Pressure stage:	PN 16
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	278 .. 333 K
Liquid temp:	293 K
Density:	998.2 kg/m³
Electrical data:	
Power (P2) main pump:	4 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380 - 415 V, 50 - 60 Hz, N, PE
Rated voltage main pump:	3 x 415 V
Starting main:	E
Rated current of system:	16 A
Enclosure class (IEC 34-5)::	IP124
Mains cable size:	L1,L2,L3,N,PE: 5x1.5 mm2
Radio interference supression:	IEC/CISPR 11-1B
Controls:	
Control type:	E
Tank:	
Volume of pressure tank:	12 l
Diaphragm tank:	Y
Others:	
Basis plant:	Y
Product range:	GB
Config.file Control MPC:	98271946
Config.file Hydro MPC:	98272014