LOWARA
a xylem brand

3SCD7/09/5 T L05

Technical data

Company name	
Contact	
Phone number	
e-mail address	

Operating data

1	Pumpe type	Single head pump		Fluid	Water, pure		
2	No. of pumps	1		Operating temperature t A	°C	4	
3	Nominal flow	m³/h	0	pH-value at t A		7	
4	Nominal head	m	0	Density at t A	kg/m³	1000	
5	Static head	m	0	Kin. viscosity at t A	mm²/s	1.569	
6	Inlet pressure	kPa	0	Vapor pressure at t A	kPa	100	
7	Environmental temperature	°C	20	Solids		0	
8	Available system NPSH	m	0	Altitude	m	0	

Pump data

9	Design	Borehole pumps					
10	Execution			Impeller Ø	Max.	mm	0
11	Operating speed	rpm	2900		designed	mm	
12	Number of stages		7		Min.	mm	0
13	Suction nozzle	protected by strainer		Flow	Nominal	m³/h	( )
14	Discharge nozzle	/			Max-	m³/h	4.2
15	Max. casing pressure	kPa			Min-	m³/h	1.2
16	Max. working pressure	kPa	765.6	Head	Nominal	m	
17	Impeller type				at Qmax	m	29.7
18	Head H(Q=0)	m	78		at Qmin	m	70.3
19	Max. shaft power	kW	1	Shaft power		kW	( )
20	Total weight	kg	17.4	Efficiency		%	
21				NPSH 3%		m	

Materials

22		Pump		
23	Head	Stainless steel / ASTM A743 CF8	Upper head	Technopolymer
24	Capacitor	-	Upper bearing support	Stainless steel / AISI 304
25	Connection container	PA66-GF25	Sleeve with wound stator	Stainless steel / AISI 304
26	Motor shaft	Stainless steel / AISI 431	Internal mech. seal (rotary part)	Carbographite
27	Lower bearing support	Die-cast aluminium	Internal mech. seal (fixed part)	Steatite
28	Lower head	Technopolymer	External mech. seal	Silicon carbide / Silicon carbide / NBR
29	Final bowl	Stainless steel / AISI 304	Pump shaft	Stainless steel / AISI 431
30	Diffuser	Stainless steel / AISI 304	Pump body	Stainless steel / AISI 304
31	Impeller	Technopolymer	Base	Aluminium
32	Elastomers	Nitrile rubber (NBR)	Sleeve	Stainless steel / AISI 304
33	Capacitor housing spacer	PA66-GF25	PLUG	Stainless steel / AISI 304
34				
35				
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Motor data

42	Manufacturer		Type	MOT_3SC7/09/5T	Cable type		
43	Specific design	Three phase pump motor			Cable cross section	mm²	
44	Rated power	0.9 kW	Phases	3	Environmental temperature	°C	20
45	Corrected motor power	0.9 kW	No. starts / h	max. 20	cable length	m	
46	coolant speed	min.	Weight	0 kg			
47	Rated current	2.58 A	Electric voltage	400 V			
48	Reduced current	2.58 A	Starting mode	Directly			
49	Degree of protection	IP 68	Speed	2850 rpm			
50	motor connection		Installation				

Cable

Remarks

Project	Project ID	Created by	Created on	Last update
		Joshua Harvey	04-07-21	04-07-21

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Performance curve

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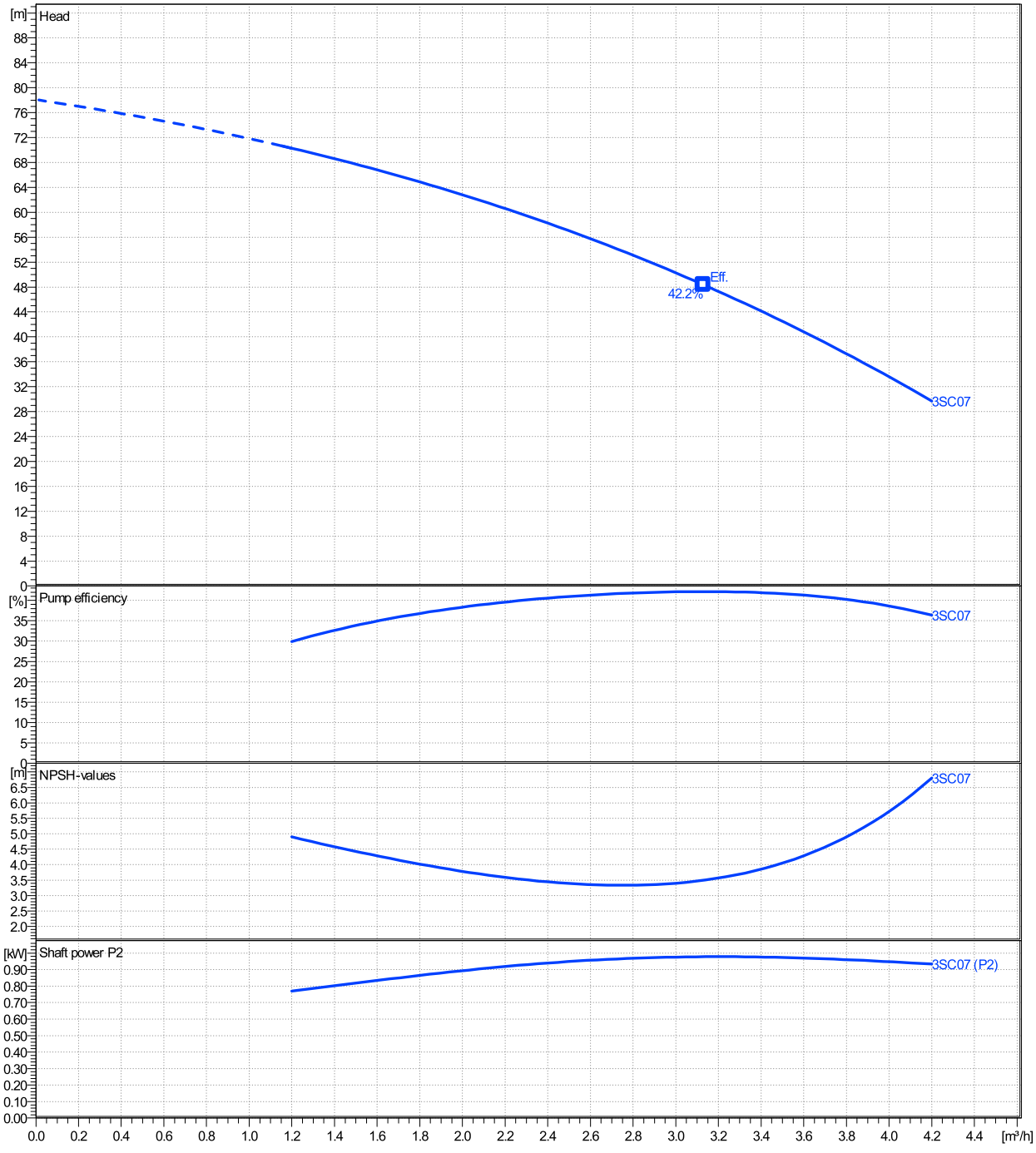
	Ø	Pump capacity Operating range Min.	Max.	η Max.	Pump head H(Q=0)	η Max.	Shaft power P2 P2(Q=0)	Max.	η Max.
	mm	m³/h	m³/h	m³/h	m	m	kW	kW	kW
actual	0	1.2	4.2	3.13	78.1	48.4		0.978	0.978
Min.	0	/	/	3.13	78.1	48.4		/	0.978
Max.	0	/	/	3.13	78.1	48.4		/	0.978

Frequency	Hz	50
Operating speed	rpm	2900
Nominal flow	m³/h	0
Nominal head	m	0
Inlet pressure	kPa	0
Static head	m	0

Power datas referced to:

Water, pure [100%] ; 4°C; 1000kg/m³; 1.57mm²/s

hydr. Performance acceptance acc. To EN ISO 9906 Class Grade



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		Joshua Harvey	04-07-21	04-07-21

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Dimensions

Company name	
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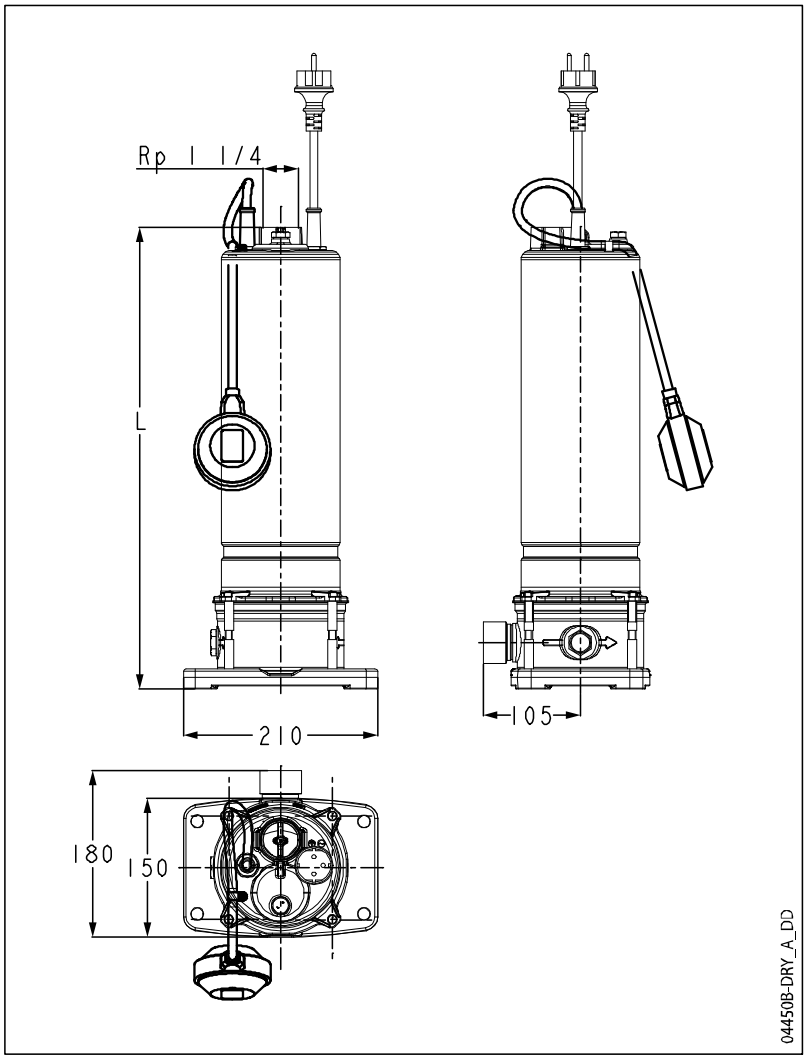
Standard

Three phase pump motor
MOT_3SC7/09/5T



Dimensions [mm]	
L	578

Weight (+/- 5%) [kg]	
Pump	16.3 kg
Cable	
Motor	
Total weight	

Connections	
Suction nozzle protected by strainer	Discharge nozzle

Dimensions and weight without obligation

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