

8SCD2/05/5 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	2			Min.	mm	0
13	Suction nozzle	protected by strainer		Flow	Nominal	m³/h	()
14	Discharge nozzle	/			Max-	m³/h	10.8
15	Max. casing pressure	kPa			Min-	m³/h	4
16	Max. working pressure	kPa	210.2	Head	Nominal	m	
17	Impeller type				at Qmax	m	9.6
18	Head H(Q=0)	m	21		at Qmin	m	18.5
19	Max. shaft power	kW	.6	Shaft power	kW		()
20	Total weight	kg	13.4	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
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Motor data

42	Manufacturer		Type	MOT_8SC2/05/5T	Cable type	
43	Specific design	Three phase pump motor			Cable cross section	mm²
44	Rated power	0.55 kW	Phases	3	Environmental temperature	°C
45	Corrected motor power	0.55 kW	No. starts / h	max. 20	cable length	m
46	coolant speed	min.	Weight	0 kg		
47	Rated current	1.62 A	Electric voltage	400 V		
48	Reduced current	1.62 A	Starting mode	Directly		
49	Degree of protection	IP 68	Speed	2850 rpm		
50	motor connection		Installation			

Remarks

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

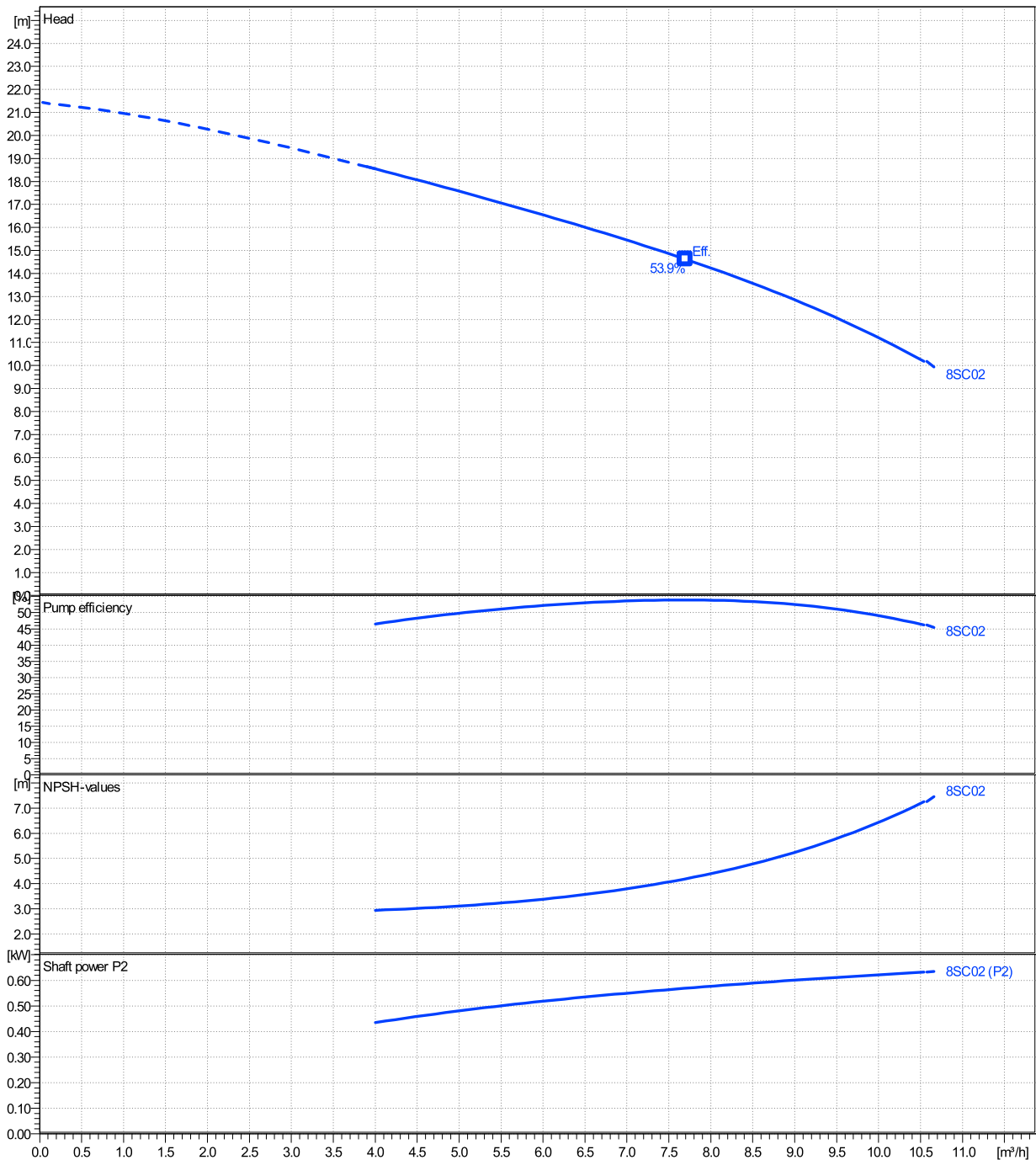
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	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency		Hz
		Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	
actual	0	4	10.5	7.7	21.4	14.6		0.637	0.569	Nominal flow	m³/h	0
Min.	0	/	/	7.7	21.4	14.6		/	0.569	Nominal head	m	0
Max.	0	/	/	7.7	21.4	14.6		/	0.569	Inlet pressure	kPa	0
										Static head	m	0

Power datas referred to:

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

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



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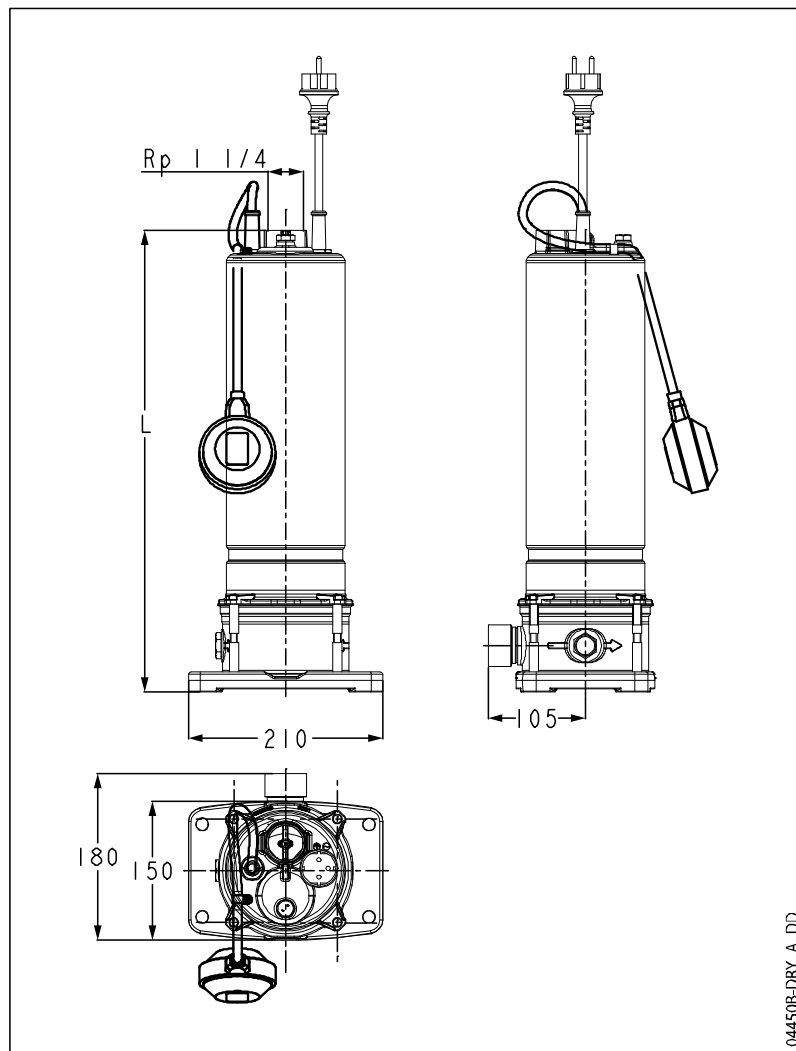
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Dimensions

Company name
Contact
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e-mail address

Standard

Three phase pump motor
MOT_8SC2/05/5T



Dimensions [mm]	
L	468

Weight (+/- 5%) [kg]	
Pump	13.4 kg
Cable	
Motor	
Total weight	

Connections	
Suction nozzle protected by strainer	Discharge nozzle

Dimensions and weight without obligation

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