

Customer Contact	Date	2017-05-18
Phone number	Project	
Email	Project no.	

## NSCE 40-160/40/P25VCS4

### 101840260

#### Operating data

Pump type	Single head pump	Fluid	Water, pure
No. of pumps / Reserve	1 / 0	Operating temperature t A	°C 4
Nominal flow	m <sup>3</sup> /h 0	pH-value at t A	7
Nominal head	m 0	Density at t A	lb/ft <sup>3</sup> 62.4
Static head	m 0	Kin. viscosity at t A	m <sup>2</sup> /h 0.005648
Inlet pressure	psi 1.4	Vapor pressure at t A	psi 0.339
Environmental temperature	°C 20	Solids	0
Available system NPSH	m 0	Altitude	m 1000

#### Pump data

Make	Lowara	Nominal	m <sup>3</sup> /h ( )
Speed	rpm 2900	Flow Max-	m <sup>3</sup> /h 48.2
Number of stages	1	Min-	m <sup>3</sup> /h 11.2
Max. casing pressure	psi	Nominal	m
Max. working pressure	psi 37.6	Head at Qmax	m 20.4
Head H(Q=0)	m 26	at Qmin	m 27.7
Weight	kg	Shaft power	hp ( )
	Max. mm 165	Max. shaft power	hp 5.2
Impeller R designed	mm 139	Efficiency	%
	Min. mm 127	NPSH 3%	m
Suction nozzle	DN 65 PN 16 EN1092-2 (NSC-LNE)	Discharge nozzle	DN 40 PN 16 EN1092-2 (NSC-LNE)

#### Pump Materials

Volute casing	Cast iron
Casing cover	Cast iron
Impeller	Stainless steel / AISI 316L
Stub shaft	Stainless steel / AISI 316L
Wear ring	Stainless steel / AISI 304
Impeller lock nut and washer	Stainless steel / AISI 316
Impeller key	Stainless steel / AISI 316L
Fill and drain plugs	Nickel-plated brass

#### Shaft Seal

Mechanical Seal	Burgmann
e-NSC, e-LNE - MG1S2	Burgmann
Rotating Assembly	B-Resin impregnated carbon
Fixed Assembly	Q1-Silicon carbide
Elastomers	E - EPDM
Springs	G-AISI 316
Other Components	G-AISI 316

#### Motor data

Manufacturer	Lowara	Electric voltage	400 V
Specific design	IE3 Three phase surface motor		
Type	PLM112R.../340 E3	Electric current	7.62 A
Rated power	5.3641 hp	Degree of protection	IP 55
Speed	2900 rpm	Insulation class	F
Frame size	112R	Weight	27 kg
Shaft diameter	0 mm	Colour	RAL 5010

#### Coupling

Manufacturer	
Series	
Type	
Frame size	
Spacer length	
Weight	
Coupling protection	

#### Base plate

Description	
Weight	

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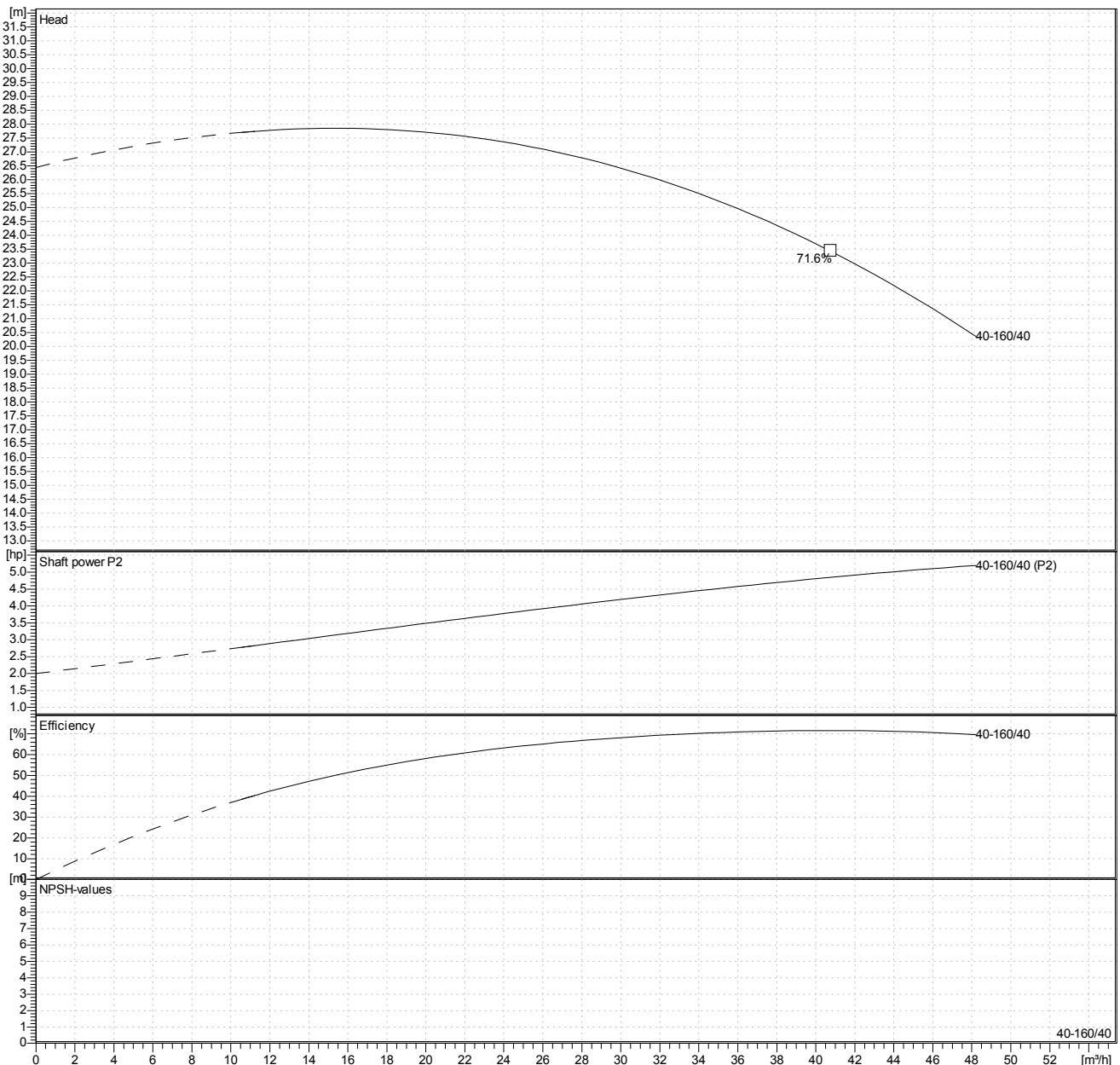
### Hydraulic data

Operating Data Specification		Hydraulic data (duty point)		Impeller design	
Flow	0 m <sup>3</sup> /h	Flow		Impeller R	139 mm
Head	0 m	Head		Frequency	50 Hz
Static head	0 m	MEI	>=0,4	Speed	2900 rpm

**Power data referred to:**

Water, pure [100%] ; 4°C; 62.4lb/ft<sup>3</sup>; 0.00565m<sup>3</sup>/h

Performance according to ISO 9906 - Annex A



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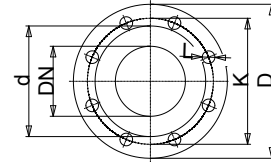
**Dimensions** mm/m<sup>3</sup>

a	80		
AD	154		
b	50		
Bmax	250		
DND	40		
DNS	65		
g1	14		
h1	132		
h2	160		
Hmax	292		
L	499		
m1	100		
m2	70		
n1	240		
n2	190		
s1	14		
Type	B		
W	273		
x	92		
Total weight		44 kg	

**Connections** mm

Suction nozzle	Discharge nozzle
DN 65	DN 40
PN 16	PN 16
EN1092-2 (NSC-LNE) EN1092-2 (NSC-LNE)	

C	20	C	18
D	185	D	150
df	118	df	84
DN	65	DN	40
K	145	K	110
L	4 x 19	L	4 x 19



Value C, D may vary from Standard

**Drawing**

