

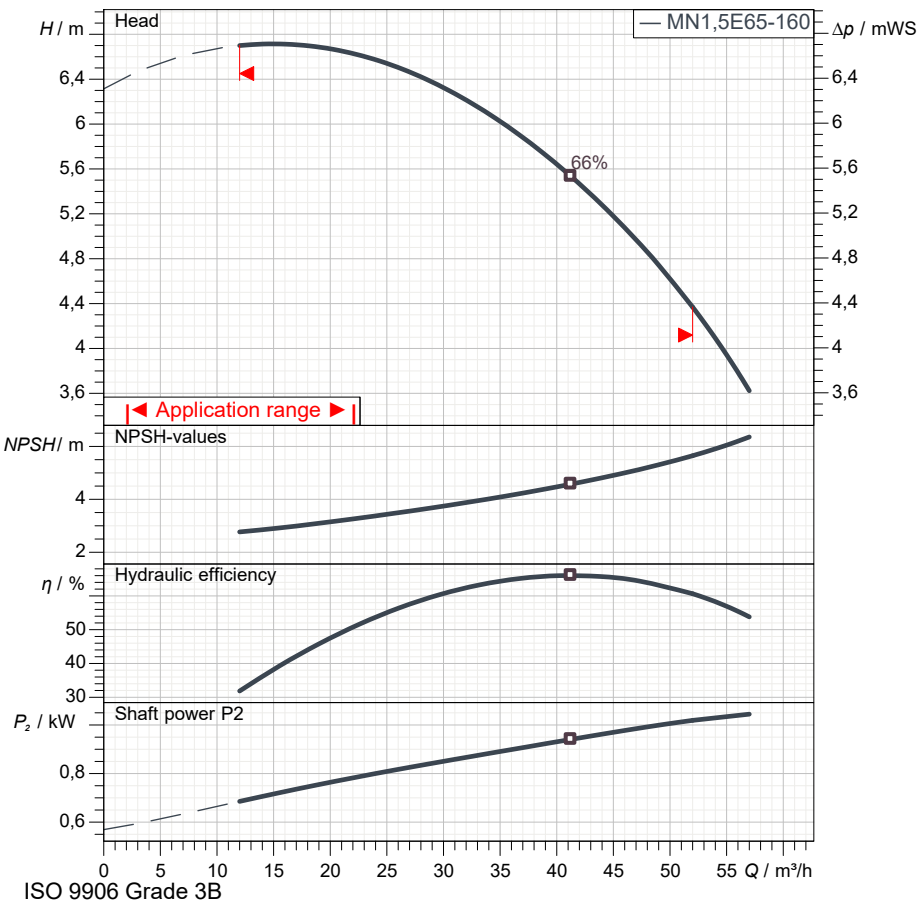
Product description

MN1,5E65-160-4P-50-TM-SS

Pos.no	Description	Item no	Qty.	UP / €	TP / €
1	Close-coupled electric pump according to EN 733 (DIN 24255)				
2	Centrifugal pump: MN1,5E65-160-4P-50-TM-SS		1	Price on req.	Price on req.
3	<p>Pump bodies</p> <p>Close-coupled electric pumps in compliance with EN 733 - DIN 24255 standards coupled to IEC standard electric motors through rigid coupling.</p> <p>Duty point</p> <p>Flow : / Head :</p> <p>Pump operating data</p> <p>Impeller diameter : 146 mm / Speed : 1.450 1/min</p> <p>Flow : / Head :</p> <p>Shaft power P2 : / Efficiency :</p> <p>Head (Q = 0) : 6,314 m</p> <p>Pump body : Cast iron</p> <p>Impeller : Stainless steel</p> <p>Wear ring : Cast iron</p> <p>Support : Cast iron</p> <p>Coupling : Cast iron</p> <p>Shaft : Stainless steel</p> <p>Max. solid contents : 40 g/m³</p> <p>Max. water temperature : 90 °C</p> <p>Max. running time with Q=0 : 2 min</p>				
4	Motor: IEC 1,5 - 4		1		
5	<p>Electric motor</p> <p>Three-phase IE3 asynchronous squirrel cage motor.</p> <p>Casing : Aluminium</p> <p>Protection : IP 55</p> <p>Insulation class : F</p> <p>Number of startings : max 14</p> <p>Max environment temperature : 40 °C</p> <p>Max altimetric level : 1000 m</p> <p>Weight : 16 kg</p> <p>Frequency : 50 Hz</p> <p>N. poles : 4</p> <p>P2 : 1,1 kW</p> <p>U : 230 V</p> <p>In 1/1 : 2,52 A</p> <p>EFF : 84,1 %</p> <p>CosPhi : 0,75</p>				
6	Shaft seal: Mechanical seal		1		
7	<p>Cover : Cast iron</p> <p>Spacer : Stainless steel</p> <p>Seal face : Graphite</p> <p>Seat : Ceramic</p> <p>Seal ring : NBR</p> <p>Spring : AISI 304 stainless steel</p>				

Technical data

MN1,5E65-160-4P-50-TM-SS



Operating data specification

Capacity	
Head	
Fluid	Pure water
Type of installation	<Single head pump>

Pump operating data

Design	MN1,5E65-160-4P-50-TM-SI
Impeller Ø	146 mm
Speed	1.450 1/min
Flow	
Head	
Shaft power P ₂	
Efficiency	
Head (Q=0)	6,31 m
Non return valve loss	

Electric motor technical data

Design	IEC 1,5 - 4
Rated power	1,1 kW
Frequency	50 Hz
Number of poles	4
Nominal speed	1.450 1/min
Rated voltage	3~ 230 V
Starting mode	Direct starting
Rated current	2,52 A
Insulation class	F
Degree of protection	IP 55

Use limits

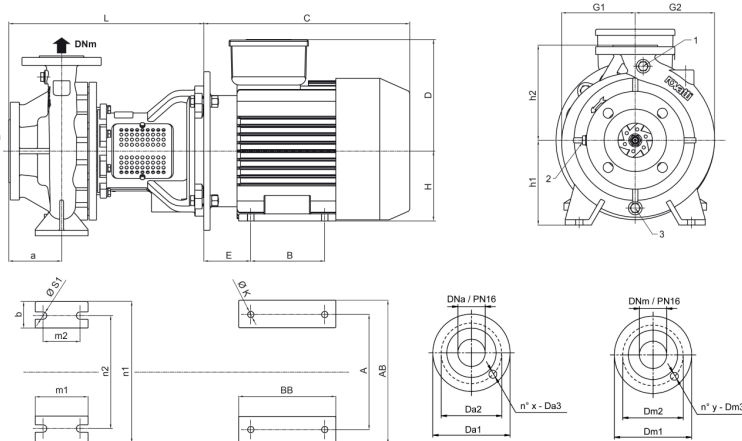
Max N° startings/hour	14
Max. running time with Q=0	2 min
Max. solids contents	40 g/m ³
Max. pumped liquid temperature	90 °C
Maximum density	998 kg/m ³
Maximum viscosity	1 mm ² /s

Materials

Pump body	Cast iron
Impeller	Stainless steel
Wear ring	Cast iron
Support	Cast iron
Coupling	Cast iron
Shaft	Stainless steel

Shaft seal

Cover	Cast iron
Spacer	Stainless steel
Seal face	Graphite
Seat	Ceramic
Seal ring	NBR
Spring	AISI 304 stainless steel

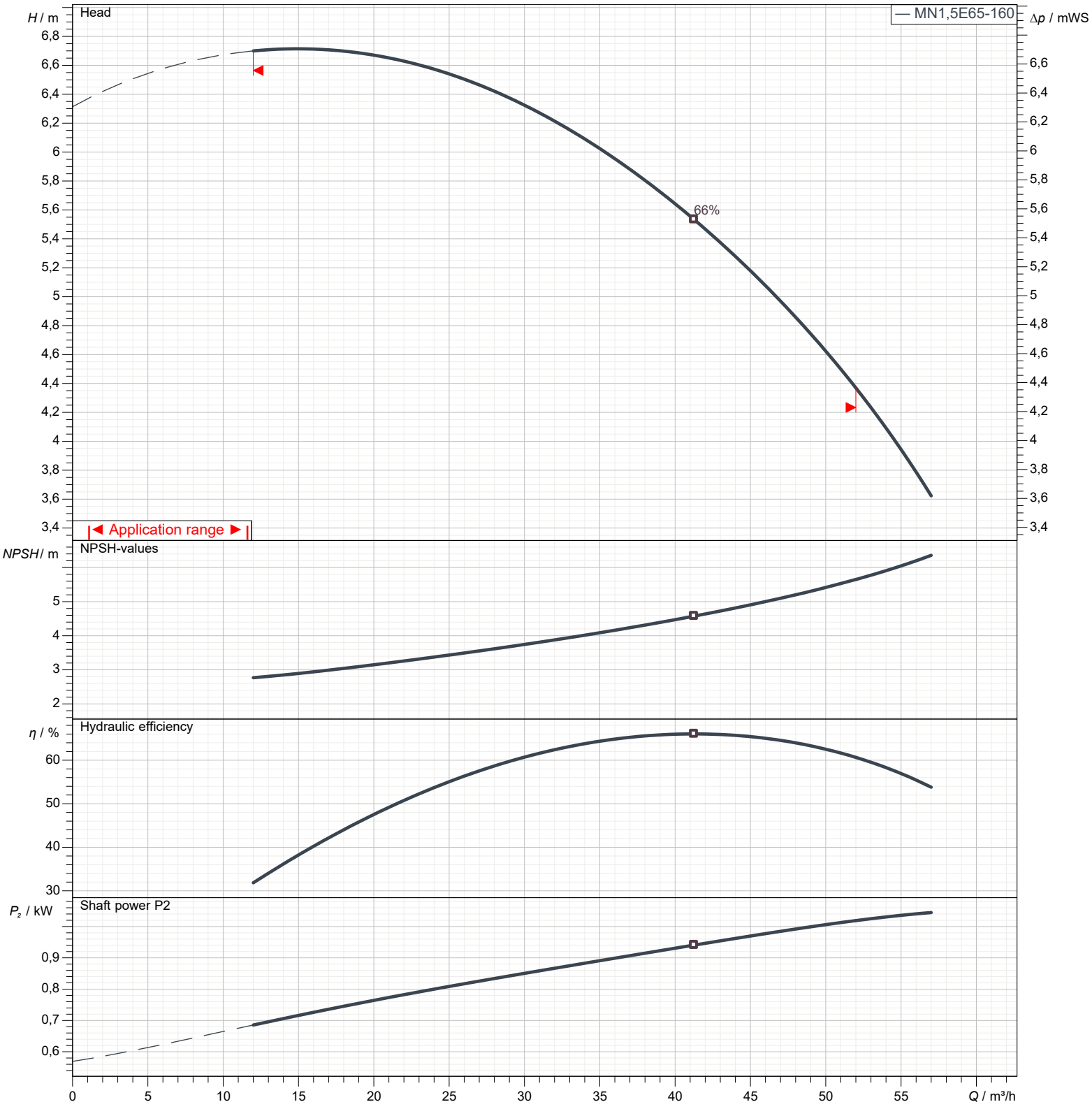


Dimensions in		mm		Total weight		58 kg	
a	100	Da1	200	E	56	m1	125
A	140	Da2	160	G1	137	m2	95
AB	180	Da3	18	G2	160	n1	280
b	65	Dm1	185	H	90	n2	212
B	100	Dm2	145	h1	160	s1	14
BB	140	Dm3	18	h2	200	x	8
C	265	DNa	80	K	10	y	4
D	140	DNrr	65	L	330		

Performance curves

MN1,5E65-160-4P-50-TM-SS

Performances				
Speed		1.450 1/min	Density	998 kg/m ³
Flow	Min.	12 m ³ /h	Viscosity	1 mm ² /s
	Max.	52 m ³ /h		
Efficiency	Max.	41,3 m ³ /h	Temperature	20 °C
			Tolerances	ISO 9906 Grade 3B



Types of installation

MN1,5E65-160-4P-50-TM-SS



Total weight		58 kg		Dimensions in mm	
a	100	h2	200		
A	140	K	10		
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Da3	18				
Dm1	185				
Dm2	145				
Dm3	18				
DNa	80				
DNm	65				
E	56				
G1	137				
G2	160				
H	90				
h1	160				