

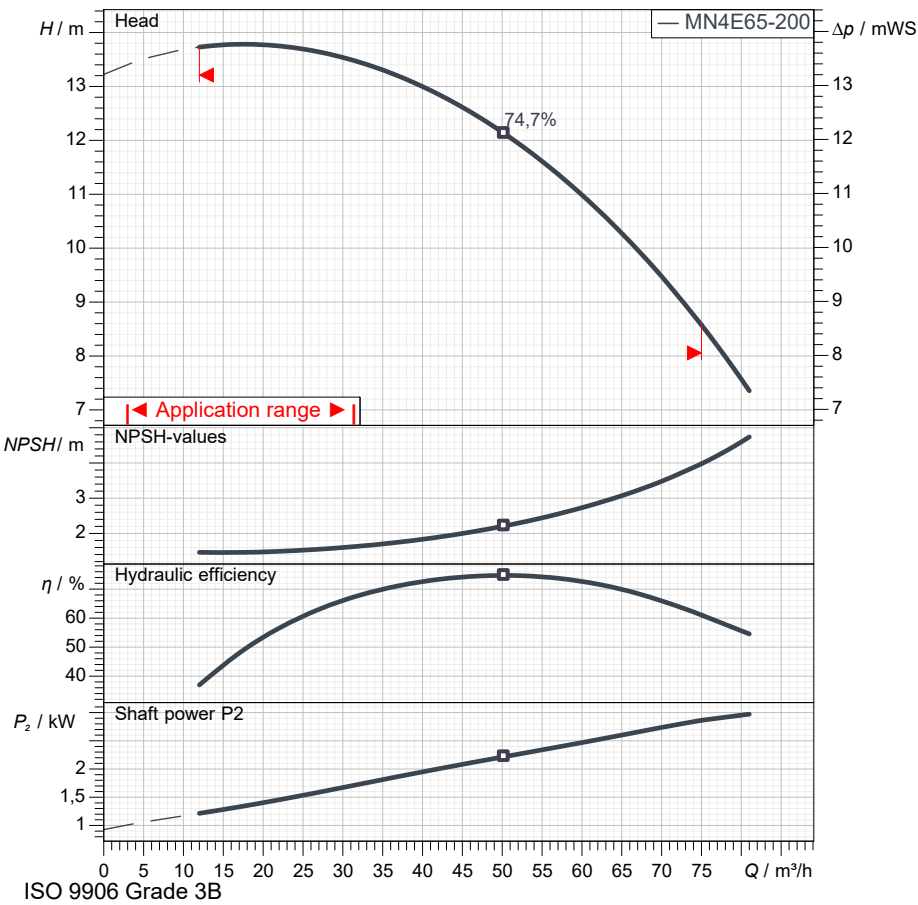
Product description

MN4E65-200-4P-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: MN4E65-200-4P-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 : 197 mm / Speed : 1.450 1/min</p> <p>Flow : / Head :</p> <p>Shaft power P2 : / Efficiency :</p> <p>Head (Q = 0) : 13,22 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 4 - 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 : 31 kg</p> <p>Frequency : 50 Hz</p> <p>N. poles : 4</p> <p>P2 : 3 kW</p> <p>U : 230 V</p> <p>In 1/1 : 6,02 A</p> <p>EFF : 87,7 %</p> <p>CosPhi : 0,82</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

MN4E65-200-4P-50-TM-SS



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

Pump operating data	
Design	MN4E65-200-4P-50-TM-SS
Impeller \varnothing	197 mm
Speed	1.450 1/min
Flow	
Head	
Shaft power P_2	
Efficiency	
Head ($Q=0$)	13,2 m
Non return valve loss	

Electric motor technical data	
Design	IEC 4 - 4
Rated power	3 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	6,02 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

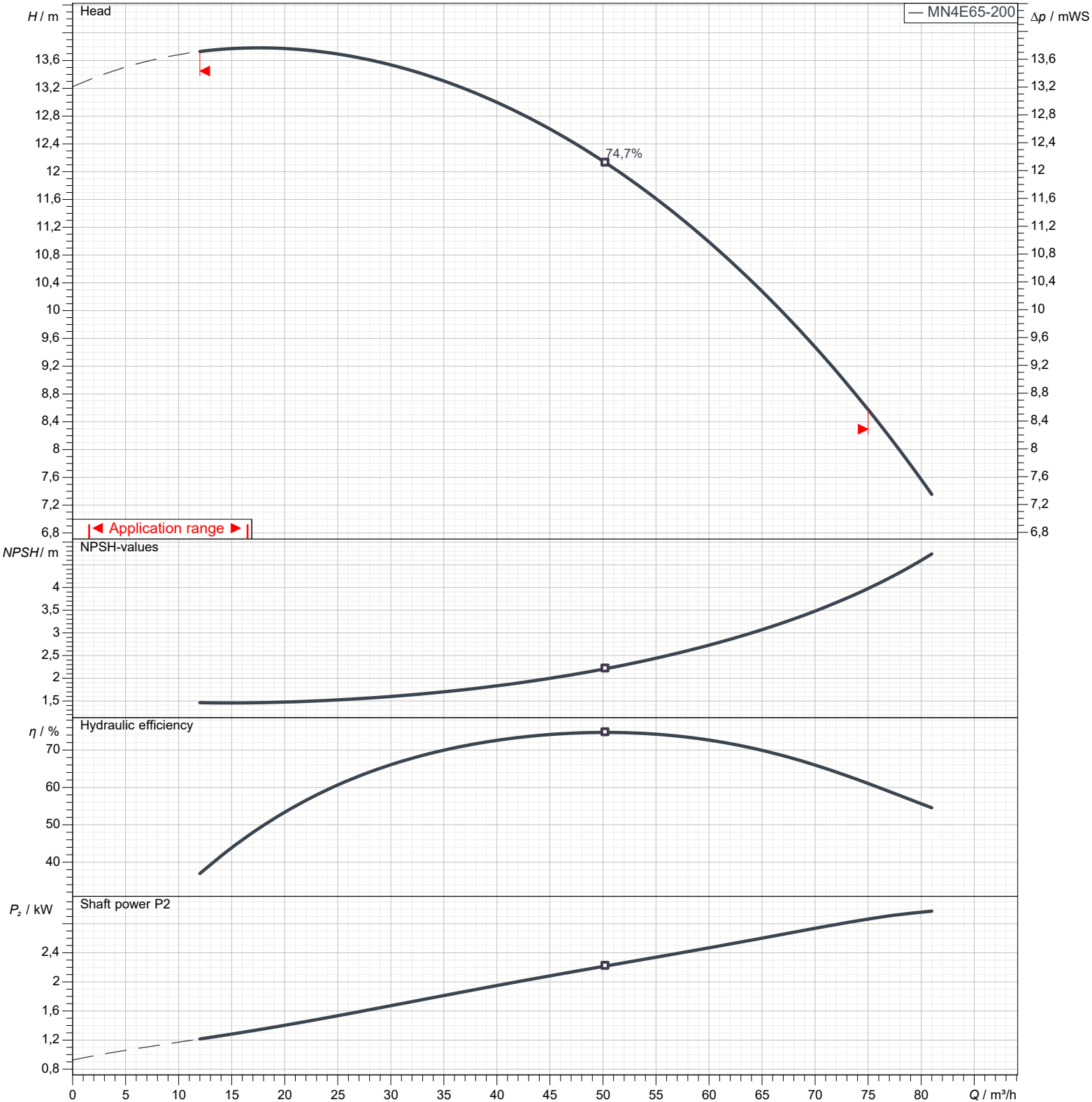


Dimensions in		mm		Total weight		80 kg	
a	100	Da1	200	E	63	m1	125
A	160	Da2	160	G1	153	m2	95
AB	200	Da3	18	G2	171	n1	320
b	65	Dm1	185	H	100	n2	250
B	140	Dm2	145	h1	180	s1	14
BB	175	Dm3	18	h2	225	x	8
C	325	DNa	80	K	12	y	4
D	160	DNrr	65	L	340		

Performance curves

MN4E65-200-4P-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.	75 m ³ /h		
Efficiency	Max.	50,3 m ³ /h	Temperature	20 °C
				Tolerances



Types of installation

MN4E65-200-4P-50-TM-SS



Total weight		80 kg		Dimensions in mm	
a	100	h2	225		
A	160	K	12		
AB	200	L	340		
b	65	m1	125		
B	140	m2	95		
BB	175	n1	320		
C	325	n2	250		
D	160	s1	14		
Da1	200	x	8		
Da2	160	y	4		
Da3	18				
Dm1	185				
Dm2	145				
Dm3	18				
DNa	80				
DNm	65				
E	63				
G1	153				
G2	171				
H	100				
h1	180				