

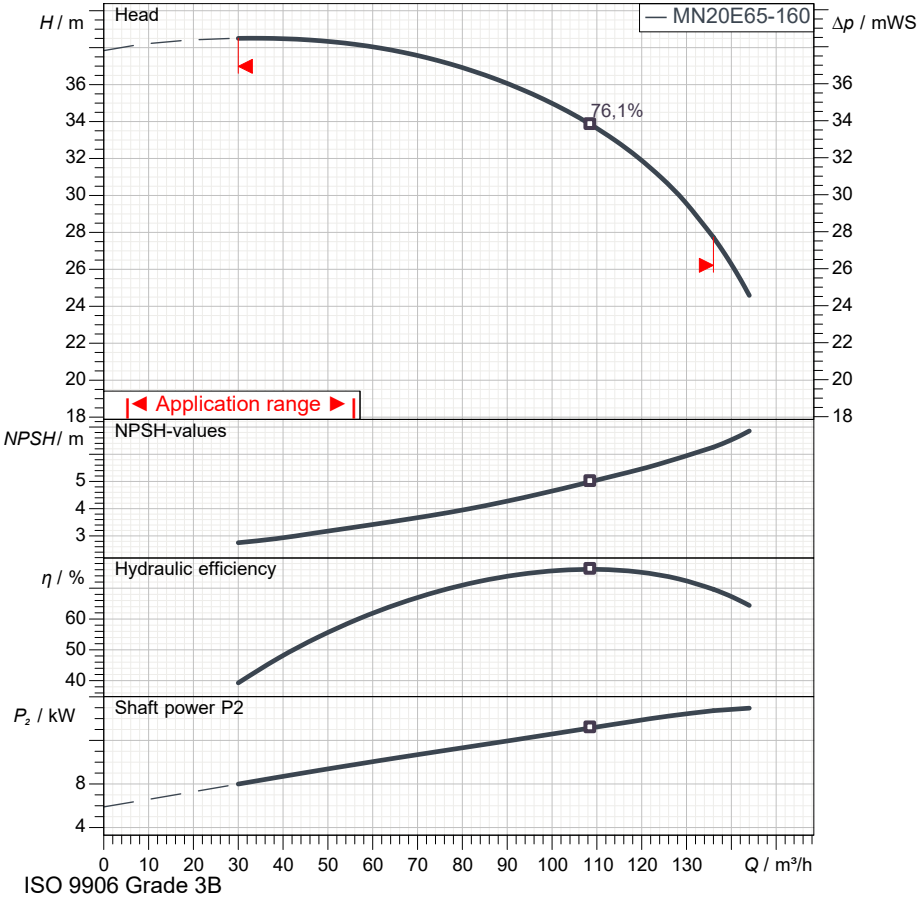
Product description

MN20E65-160-2P-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: MN20E65-160-2P-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 : 168 mm / Speed : 2.900 1/min</p> <p>Flow : / Head :</p> <p>Shaft power P2 : / Efficiency :</p> <p>Head (Q = 0) : 37,84 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 20 - 2		1		
5	<p>Electric motor</p> <p>Three-phase IE2 asynchronous squirrel cage motor.</p> <p>Casing : Cast iron</p> <p>Protection : IP 55</p> <p>Insulation class : F</p> <p>Number of startings : max 6</p> <p>Max environment temperature : 40 °C</p> <p>Max altimetric level : 1000 m</p> <p>Weight : 122 kg</p> <p>Frequency : 50 Hz</p> <p>N. poles : 2</p> <p>P2 : 15 kW</p> <p>U : 400 V</p> <p>In 1/1 : 26,9 A</p> <p>EFF : 90,7 %</p> <p>CosPhi : 0,89</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

MN20E65-160-2P-50-TM-SS



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

Pump operating data	
Design	MN20E65-160-2P-50-TM-SS
Impeller \varnothing	168 mm
Speed	2.900 1/min
Flow	
Head	
Shaft power P_2	
Efficiency	
Head ($Q=0$)	37,8 m
Non return valve loss	

Electric motor technical data	
Design	IEC 20 - 2
Rated power	15 kW
Frequency	50 Hz
Number of poles	2
Nominal speed	2.900 1/min
Rated voltage	3~ 400 V
Starting mode	Direct starting
Rated current	26,9 A
Insulation class	F
Degree of protection	IP 55

Use limits	
Max N° startings/hour	6
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

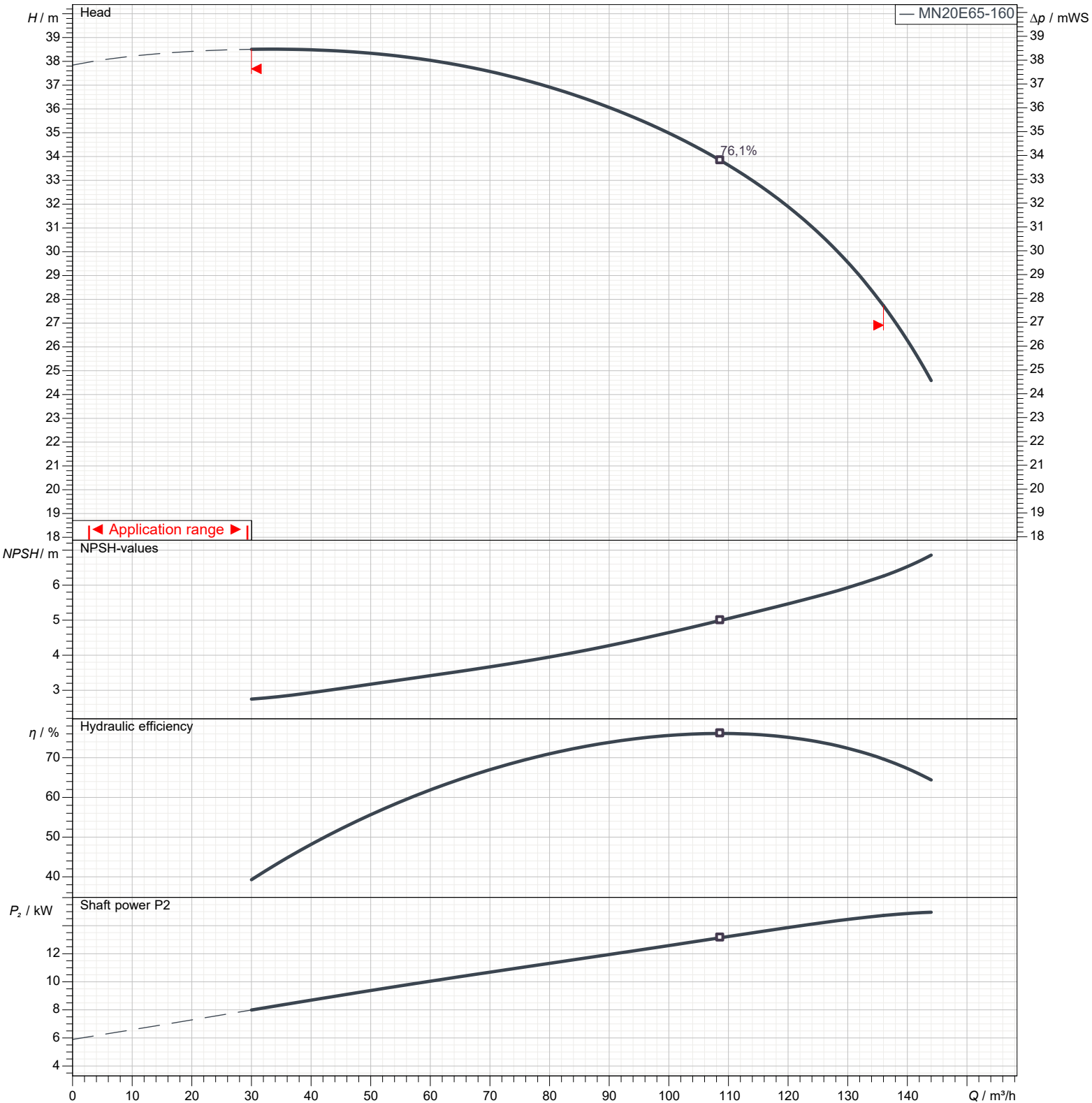


Dimensions in		mm		Total weight		173 kg	
a	100	Da1	200	E	108	m1	125
A	254	Da2	160	G1	137	m2	95
AB	315	Da3	18	G2	160	n1	280
b	65	Dm1	185	H	160	n2	212
B	210	Dm2	145	h1	160	s1	14
BB	260	Dm3	18	h2	200	x	8
C	490	DNa	80	K	15	y	4
D	265	DNr	65	L	407		

Performance curves

MN20E65-160-2P-50-TM-SS

Performances				
Speed		2.900 1/min	Density	998 kg/m ³
Flow	Min.	30 m ³ /h	Viscosity	1 mm ² /s
	Max.	136 m ³ /h		
Efficiency	Max.	109 m ³ /h	Temperature	20 °C
				Tolerances



Types of installation

MN20E65-160-2P-50-TM-SS



Total weight		173 kg		Dimensions in mm	
a	100	h2	200		
A	254	K	15		
AB	315	L	407		
b	65	m1	125		
B	210	m2	95		
BB	260	n1	280		
C	490	n2	212		
D	265	s1	14		
Da1	200	x	8		
Da2	160	y	4		
Da3	18				
Dm1	185				
Dm2	145				
Dm3	18				
DNa	80				
DNm	65				
E	108				
G1	137				
G2	160				
H	160				
h1	160				