

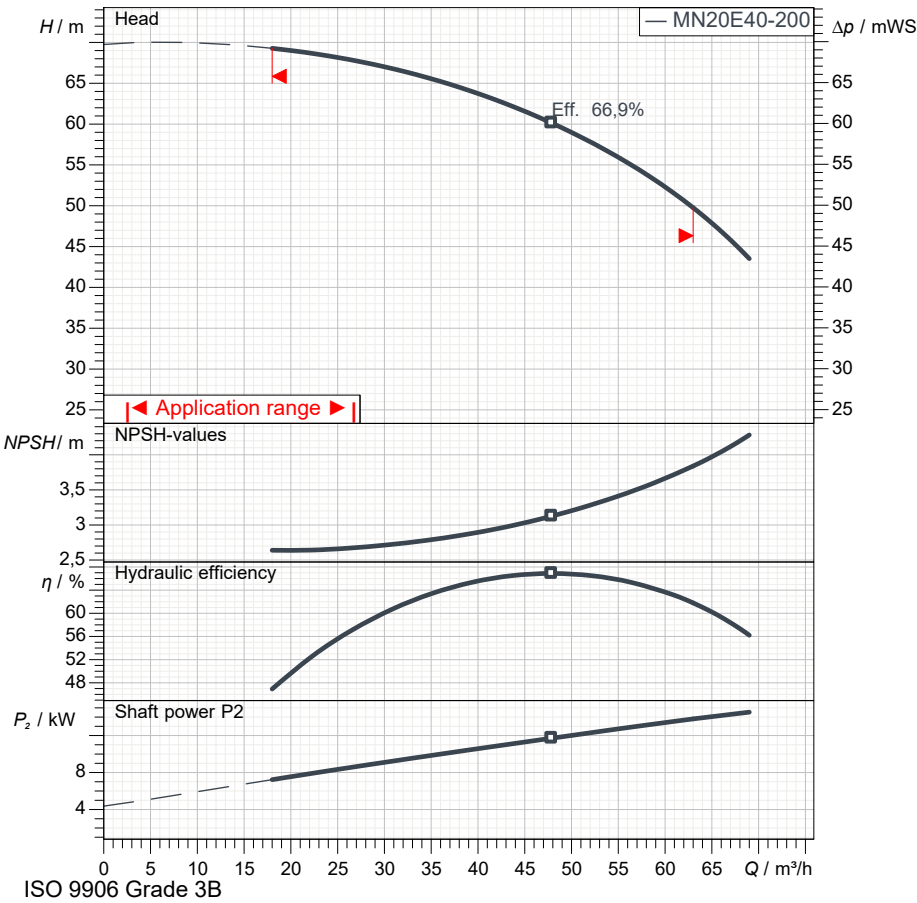
Product description

MN20E40-200-2P-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: MN20E40-200-2P-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 : 220 mm / Speed : 2.900 1/min</p> <p>Flow : / Head :</p> <p>Shaft power P2 : / Efficiency :</p> <p>Head (Q = 0) : 69,76 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 IE3 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 : 124 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 : 25,9 A</p> <p>EFF : 91,9 %</p> <p>CosPhi : 0,91</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

MN20E40-200-2P-50-TM-SS



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

Pump operating data	
Design	MN20E40-200-2P-50-TM-SS
Impeller Ø	220 mm
Speed	2.900 1/min
Flow	
Head	
Shaft power P_2	
Efficiency	
Head (Q=0)	69,8 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	25,9 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

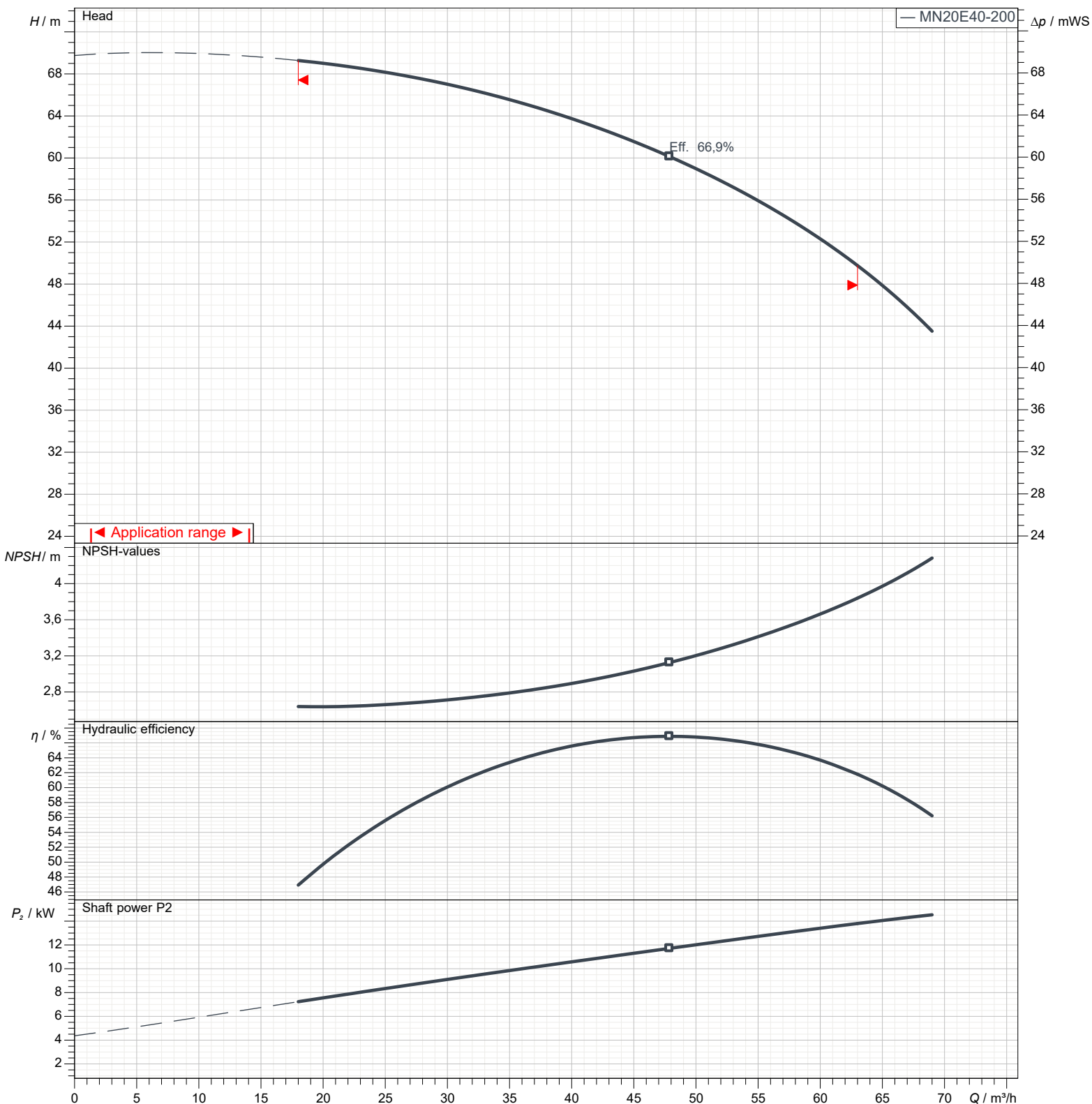


Dimensions in		mm		Total weight		175 kg	
a	100	Da1	185	E	108	m1	100
A	254	Da2	145	G1	140	m2	70
AB	315	Da3	18	G2	150	n1	265
b	50	Dm1	150	H	160	n2	212
B	210	Dm2	110	h1	160	s1	14
BB	260	Dm3	18	h2	180	x	4
C	510	DNa	65	K	15	y	4
D	250	DNrr	40	L	407		

Performance curves

MN20E40-200-2P-50-TM-SS

Performances				
Speed		2.900 1/min	Density	998 kg/m ³
Flow	Min.	18 m ³ /h	Viscosity	1 mm ² /s
	Max.	63 m ³ /h	Temperature	20 °C
Efficiency	Max.	47,9 m ³ /h	Tolerances	ISO 9906 Grade 3B



Types of installation

MN20E40-200-2P-50-TM-SS



Total weight		175 kg	Dimensions in mm	
a		100	h2	180
A		254	K	15
AB		315	L	407
b		50	m1	100
B		210	m2	70
BB		260	n1	265
C		510	n2	212
D		250	s1	14
Da1		185	x	4
Da2		145	y	4
Da3		18		
Dm1		150		
Dm2		110		
Dm3		18		
DNa		65		
DNm		40		
E		108		
G1		140		
G2		150		
H		160		
h1		160		