

CLOSE COUPLED CENTRIFUGAL PUMPS

NMM SERIES (50 - 60 Hz)



TECHNICAL MANUAL



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MAS NMM - Close Coupled Centrifugal Pumps

General Information



Fields of Application

- Water supply and booster stations.
- Irrigation, overhead irrigation and draining.
- Filling and emptying of tanks and containers.
- Circulating of hot and cold water in central heating and air-conditioning installations.
- Pumping of condensate.
- Water circulating for swimming pools.
- Sanitary and cleaning installations.
- For industrial applications and public services.
- Fresh water supply on ships.

Pumped Liquids

Thin, clean, non-aggressive and non-explosive liquids free from large solid particles or fibres.

Design

- NMM series pumps are volute casing, single stage, end suction, close-coupled centrifugal pumps with closed impeller and mechanical seal.
- Main dimensions and the nominal flow rates of the pumps comply with the DIN 24 255 and EN 733 standards.
- Pump flanges sizes according to ISO 7005-2, DIN 2533 and PN 16.
- Single entry, closed impeller is hydraulically thrust compensated and dynamically balanced.
- A drain plug is fitted in the bottom of pump housing.
- Pump and motor are separate components. Motor shaft is passed into the pump shaft for coupling. After a certain motor power, a coupling system is used between the motor shaft and pump shaft.
- Maintenance is very much easier, the impeller shaft and other rotating parts being removable with no need to disconnect the suction and delivery pipes, due to back pull-out design.
- Maximum interchangeability of components, identical parts can be used along various pumps of the NMM series, which greatly simplifies and reduces stock of spare parts in addition to reduced delivery times.
- Single-stage centrifugal pump coupled by means of a support, to a standard asynchronous motor, closed type, with external ventilation.
- NMM series are fitted with mechanical shaft seal and pump shaft is supported by motor bearings.

Shaft Seal

Single mechanical seal, flushed by pumped liquid, uncooled, unbalanced, heavy duty and rubber bellows mechanical seals are used for sealing. On the series production, BURGMANN MG1 type mech. seals are used for operation pressures up to 10 bar and for clean, non-aggressive liquids. Different types are available for harder operation conditions. Please refer to MAS DAF MAKINA SAN. A.Ş.

Technical Data

- Suction Flange..... : DN 50 ...DN 150
- Discharge Flange..... : DN 32...DN 150
- Speed Range..... : 1000 – 3600 RPM
- Capacity Range..... : 5 – 450 m³ / h
- Head Range..... : 4 - 70 m

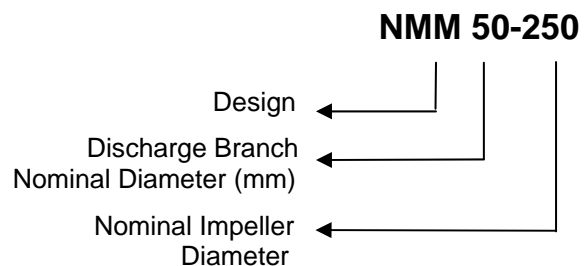
Pump Flanges

- Discharge Flanges: DIN 2533 – PN 16
- Suction Flanges : DIN 2533 – PN 16

Driver

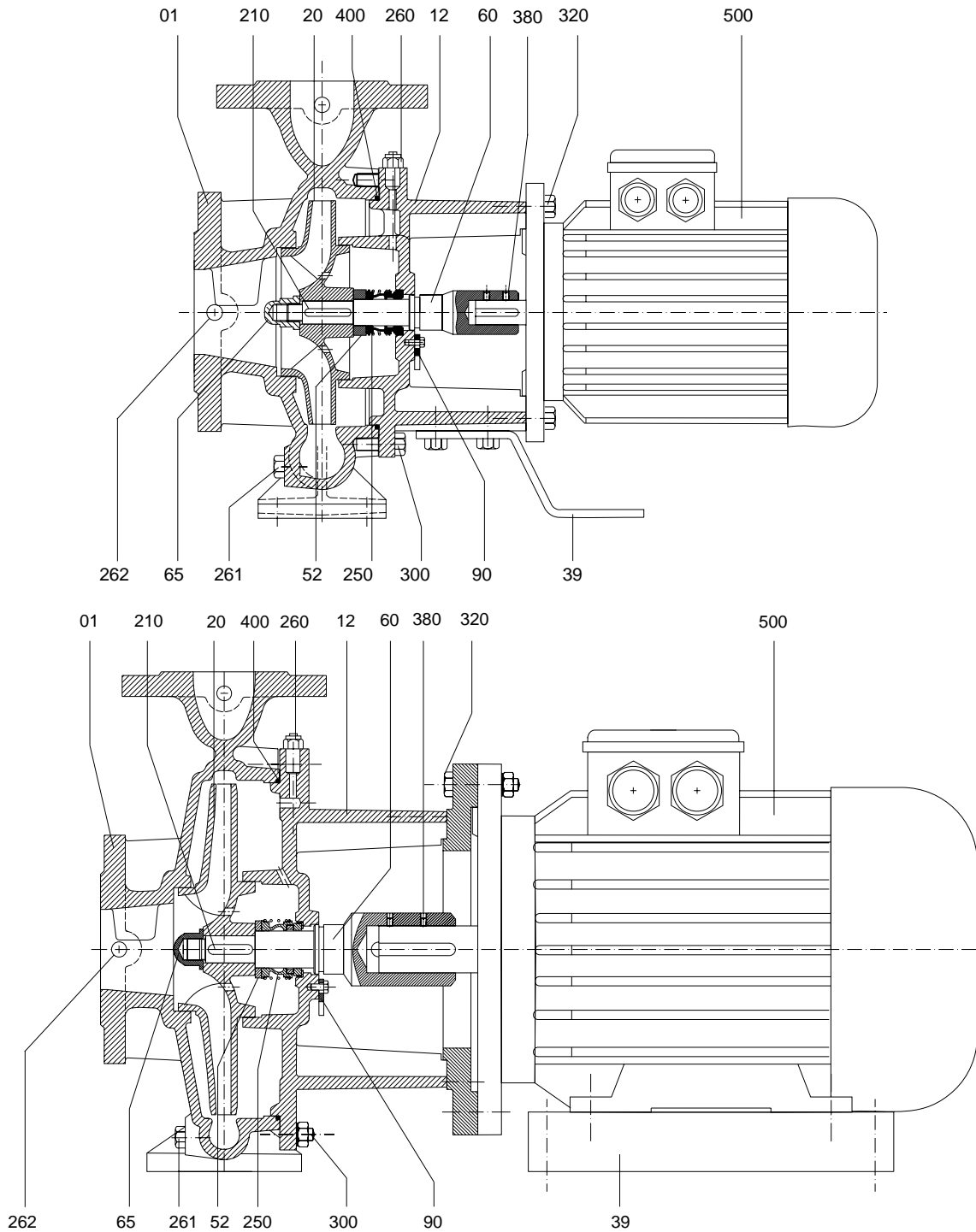
B5 flanged, IP 55 and according to IEC electric motors are used for INM series pumps. 50 Hz and 60 Hz can be used.

Identification Code



MAS NMM - Close Coupled Centrifugal Pumps

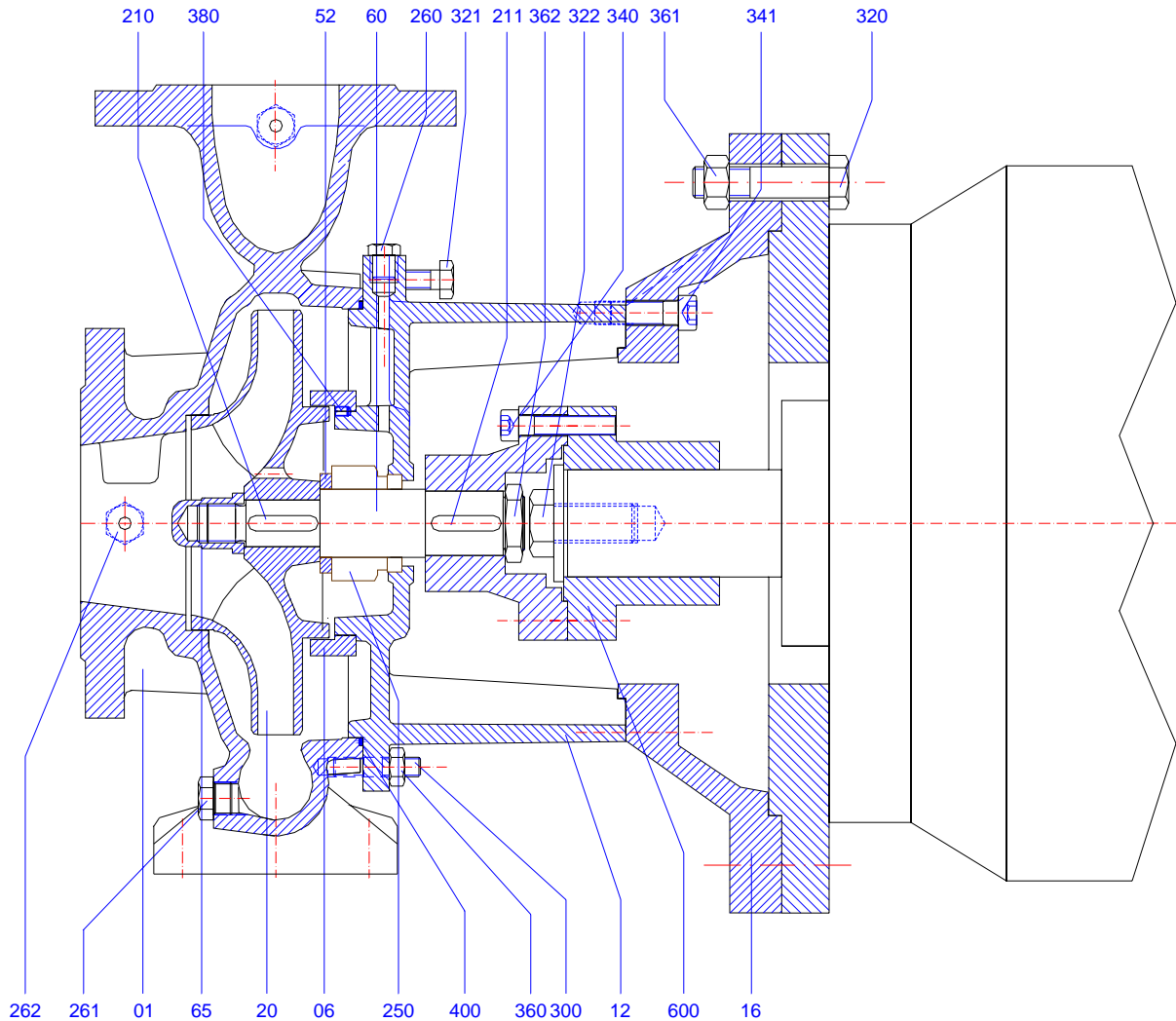
Cross-Sectional View



PART NO	PART NAME	PART NO	PART NAME
01	Pump Casing	250	Mechanical Seal
12	Adapter	260	Plug
20	Impeller	261	Drain Plug
39	Support Foot	262	Plug (Pump Casing)
52	Mechanical Seal Sleeve	300	Stud, Casing
60	Shaft	320	Hexagonal Bolt
65	Impeller Nut	380	Set-Screw
90	Shaft Fixing Device	400	O-Ring
210	Impeller Key	500	Motor

MAS NMM - Close Coupled Centrifugal Pumps

Cross-Sectional View



PART NO	PART NAME	PART NO	PART NAME
01	Pump Casing	262	Plug (Pump Casing)
06	Wearing Ring	300	Stud, Casing
12	Adapter	320	Hexagonal Bolt
16	Motor Flange	321	Hexagonal Bolt
20	Impeller	322	Hexagonal Bolt
52	Mechanical Seal Ring	340	Cap Screw
60	Pump Shaft	341	Cap Screw
65	Impeller Nut	360	Nut
210	Impeller Key	361	Nut
211	Coupling Key	362	Nut
250	Mechanical Seal	380	Set-Screw
260	Plug	400	O-Ring
261	Drain Plug	600	Coupling

Note: This coupling system is applied with a motor power 30 KW and over.

MAS NMM - Close Coupled Centrifugal Pumps

Technical Data



Material Options

Components	Material Code						
		0.6025	0.7040	2.1050.01	1.4021	1.4301	1.4401
Volute Casing		●	○	○		○	○
Impeller		●	○	○		○	○
Wear Ring		○	●	○		○	○
Shaft					●	○	○
Motor Adapter		●	○	○		○	○
Adapter (Motor)		●	○				

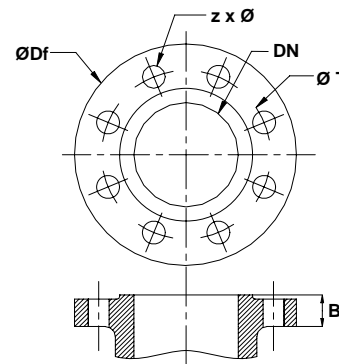
● – Standard Manufacturing
○ – Optional

Material Equivalent

Description	DIN 17007	EN-DIN	ASTM
Cast Iron	0.6025	GJL-250 (GG25)	A 48 Class 40-B
Nodular Cast Iron	0.7040	GJS-400-15 (GGG40)	A 536 Gr.60-40-18
Cast Bronze	2.1050.01	G-Cu Sn 10	B 584 C 90700
Chrome Steel	1.4021	X20 Cr 13	A 276 Type 420
Chrome Nickel Steel	1.4301	X5 Cr Ni 18.9	A 276 Type 304
Chrome Nickel Molybdenum Steel	1.4401	X5 Cr Ni Mo 18.10	A 276 Type 316

Flange Dimensions

PUMP SUCTION AND DISCHARGE FLANGE DIMENSIONS								
DNs DNd	PN	ØD	Øk	Ød4	Ød2	b	f	Hole Number
32	16	140	100	78	18	18	2	4
40		150	110	88	18	18	3	4
50		165	125	102	18	20	3	4
65		185	145	122	18	20	3	4
80		200	160	138	18	22	3	8
100		220	180	158	18	24	3	8
125		250	210	188	18	26	3	8
150		285	240	212	22	26	3	8



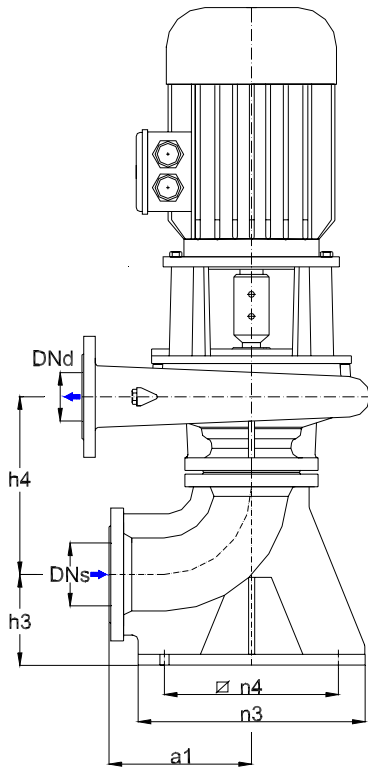
No	Pump Type	Flanges				No	Pump Type	Flanges			
		DNs (mm) Suction		DNd (mm) Discharge				DNs (mm) Suction		DNd (mm) Discharge	
1	32-160	50	PN 16	32	PN 16	16	80-160	100	80	PN 16	PN 16
2	32-200					17	80-200				
3	32-250					18	80-250				
4	40-160	65		40		19	80-315	125	100		
5	40-200					20	80-400				
6	40-250					22	100-200				
7	50-160	65		50		22	100-250	150	125		
8	50-200					23	100-315				
9	50-250					24	100-400				
10	50-315	80	65	25	125-200	150	125				
11	65-160			26	125-250						
12	65-200			27	125-315						
13	65-250			28	125-400						
14	65-315										
15	65-400										

MAS NMM - Close Coupled Centrifugal Pumps

Technical Data

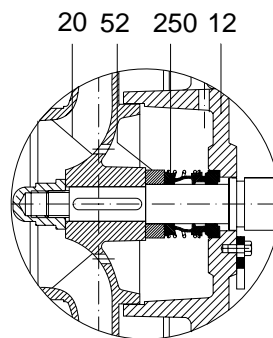


Elbow Flange Dimensions for Vertical NMM Pumps



Pump Type	DNs	DNd	a1	n3	n4	h3	h4
NMM 32-160	50	32	140	200	150	90	170
NMM 32-200			140	200	150	90	170
NMM 32-250			140	200	150	90	190
NMM 40-160	65	40	160	235	180	105	185
NMM 40-200			160	235	180	105	205
NMM 40-250			160	235	180	105	205
NMM 50-160	65	50	160	235	180	105	205
NMM 50-200			160	235	180	105	205
NMM 50-250			160	235	180	105	185
NMM 50-315	80		190	290	215	115	230
NMM 65-160	80	65	190	290	215	115	230
NMM 65-200			190	290	215	115	230
NMM 65-250			190	290	215	115	230
NMM 65-315			190	290	215	115	255
NMM 65-400	100		225	360	375	145	285
NMM 80-160	100	80	225	360	275	145	285
NMM 80-200			225	360	275	145	285
NMM 80-250			225	360	275	145	285
NMM 80-315			225	360	275	145	285
NMM 80-400			225	360	275	145	285
NMM 100-200	125	100	280	450	350	180	325
NMM 100-250			280	450	350	180	340
NMM 100-315			280	450	350	180	340
NMM 100-400			280	450	350	180	340
NMM 125-200	150	125	315	500	400	200	380
NMM 125-250			315	500	400	200	380
NMM 125-315			315	500	400	200	380
NMM 125-400			315	500	400	200	380

Mechanical Seal Application

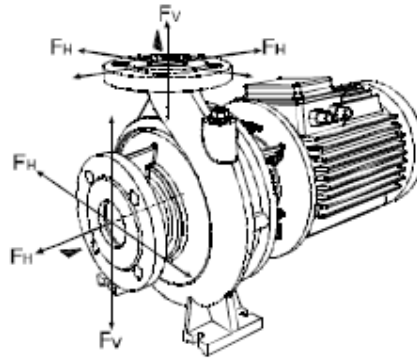


Burgmann MG1-G60 – Up to 12 Bar
(Independent of direction of rotation)

Part No	Part Name
12	Adapter
20	Impeller
52	Mech. Seal Sleeve
250	Mechanical Seal

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Permissible Forces and Moments at the Pump Flanges



The following condition must be satisfied;

$$\left[\frac{\sum (F_V)}{F_{V \max}} \right]^2 + \left[\frac{\sum (F_H)}{F_{H \max}} \right]^2 + \left[\frac{\sum (M_t)}{M_{t \max}} \right]^2 \leq 1$$

$\sum (F_V)$, $\sum (F_H)$ and $\sum (M_t)$ are the sums of the absolute amounts of the corresponding loads applied to the supports. Neither the direction of the loads nor their distributions across the supports are taken into account in these sums.

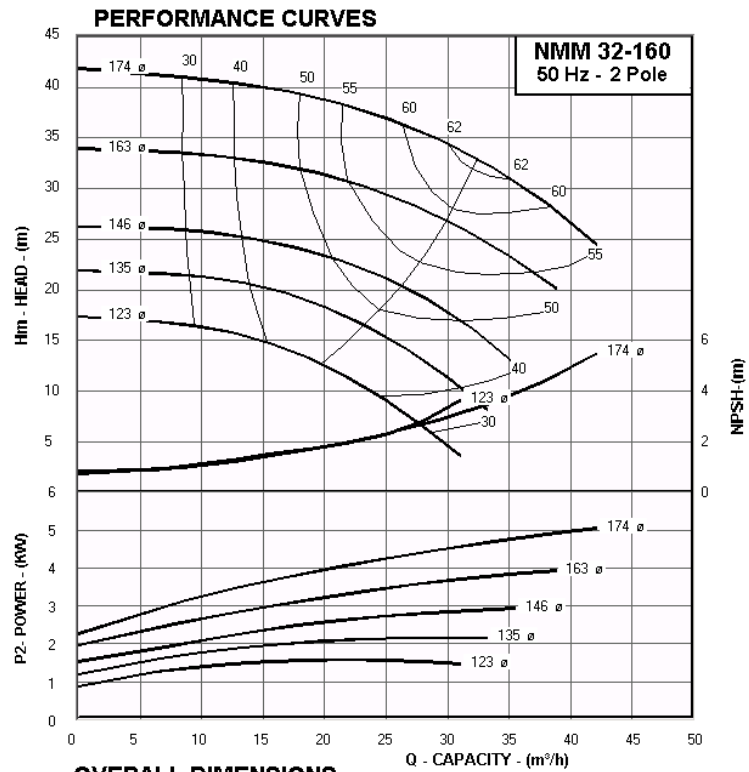
No	Pump Type	Flanges		Forces		Moments
		DNs (mm) Suction	DNd (mm) Discharge	F _v (N)	F _H (N)	M _t (Nm)
1	32-160	50	32	2255	1485	385
2	32-200					
3	32-250					
4	40-160	65	40	2420	1620	440
5	40-200					
6	40-250					
7	50-160	65	50	2490	1700	530
8	50-200					
9	50-200					
10	50-315	80	65	2550	1900	650
11	65-160	80				
12	65-200					
13	65-250					
14	65-315					
15	65-400	100	80	3170	2400	1060
16	80-160	100				
17	80-200					
18	80-250					
19	80-315					
20	80-400	125	100	4400	3480	1740
21	100-200					
22	100-250					
23	100-315					
24	100-400	150	125	5580	4620	2565
25	125-200					
26	125-250					
27	125-315					
28	125-400					

MAS NMM - Close Coupled Centrifugal Pumps

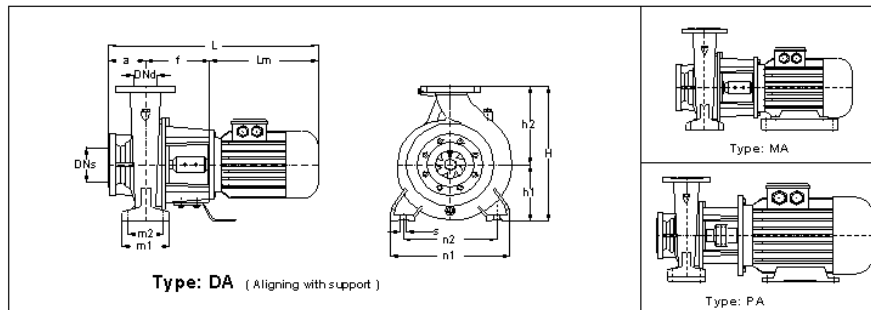
Performance Curves - 50 Hz - 2900 rpm



TECHNICAL DATA : NMM 32-160 - 50 Hz - 2 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 32-160 (2880 RPM)

Pump Size	Imp. \varnothing	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 32-160/ 552	174	132S2	5.5	114	0	50	32	80	200	375	132	160	132	100	70	240	190	12	655	292
NMM 32-160/ 402	163	112M2	4	113	DA	50	32	80	180	324	132	160	112	100	70	240	190	12	584	292
NMM 32-160/ 302	146	100L2	3	113	DA	50	32	80	180	305	132	160	100	100	70	240	190	12	565	292
NMM 32-160/ 222	135	90L 2	2.2	112	DA	50	32	80	160	275	132	160	90	100	70	240	190	12	515	292
NMM 32-160/ 152	123	90S 2	1.5	112	DA	50	32	80	160	250	132	160	90	100	70	240	190	12	490	292

Main Part Codes

Pump Size	Imp. \varnothing	Seal mm \varnothing	Shaft and Coupling	Adapter	Flange
NMM 32-160/ 552	174	30	ML2a	A1.12	F 2
NMM 32-160/ 402	163	20	ML1c	A1.11	F 1
NMM 32-160/ 302	146	20	ML1c	A1.11	F 1
NMM 32-160/ 222	135	20	ML1b	A1.11	-
NMM 32-160/ 152	123	20	ML1b	A1.11	-

Flange Dimensions

The diagram shows a cross-section of a flange with dimensions DN , $D1$, k , d , and Z .

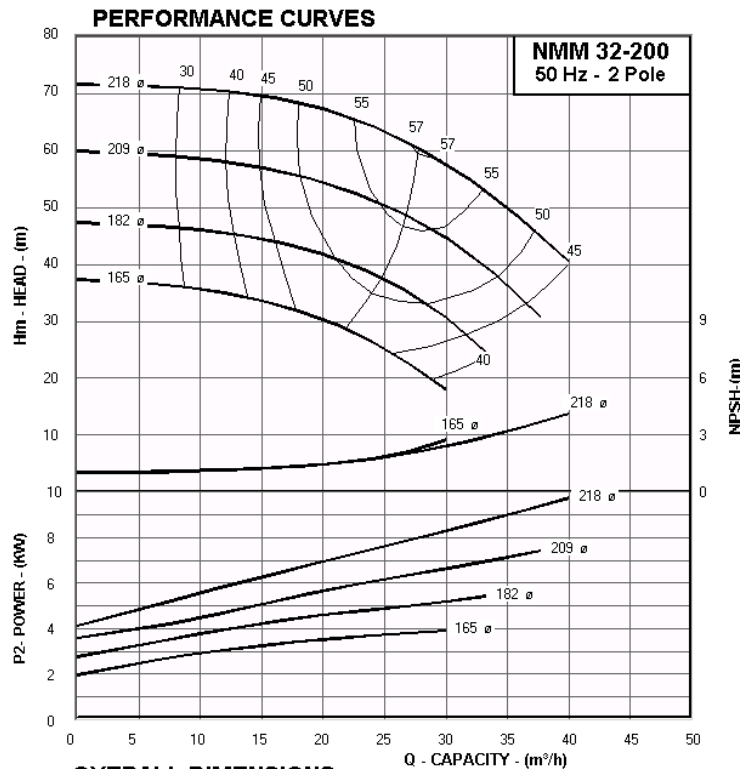
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
50	165	125	18	4
32	140	100	18	4

MAS NMM - Close Coupled Centrifugal Pumps

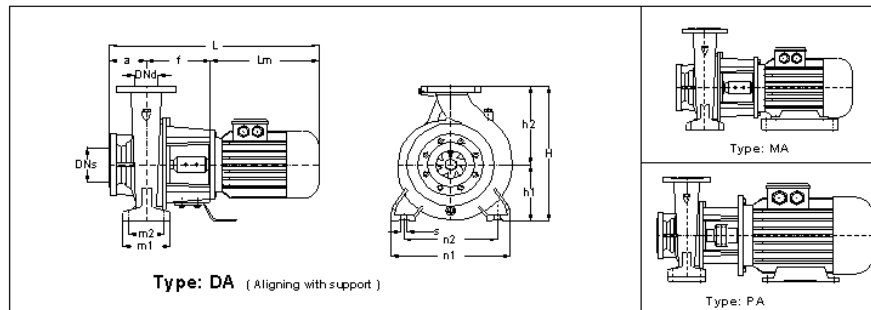
Performance Curves - 50 Hz - 2900 rpm



TECHNICAL DATA : NMM 32-200 - 50 Hz - 2 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 32-200 (2940 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 32-200/ 1102	218	160M2	11	315	0	50	32	80	230	484	160	180	160	100	70	240	190	12	794	340
NMM 32-200/ 752	209	132S2	7.5	314	MA	50	32	80	205	375	160	180	132	100	70	240	190	12	660	340
NMM 32-200/ 552	182	132S2	5.5	314	MA	50	32	80	205	375	160	180	132	100	70	240	190	12	660	340
NMM 32-200/ 402	165	112M2	4	313	DA	50	32	140	65	324	315	400	112	200	150	500	400	20	529	715

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 32-200/ 1102	218	30	ML2b	A2.22	F5
NMM 32-200/ 752	209	30	ML2a	A2.22	F4
NMM 32-200/ 552	182	30	ML2a	A2.22	F4
NMM 32-200/ 402	165	20	ML1c	A2.21	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
50	165	125	18	4
32	140	100	18	4

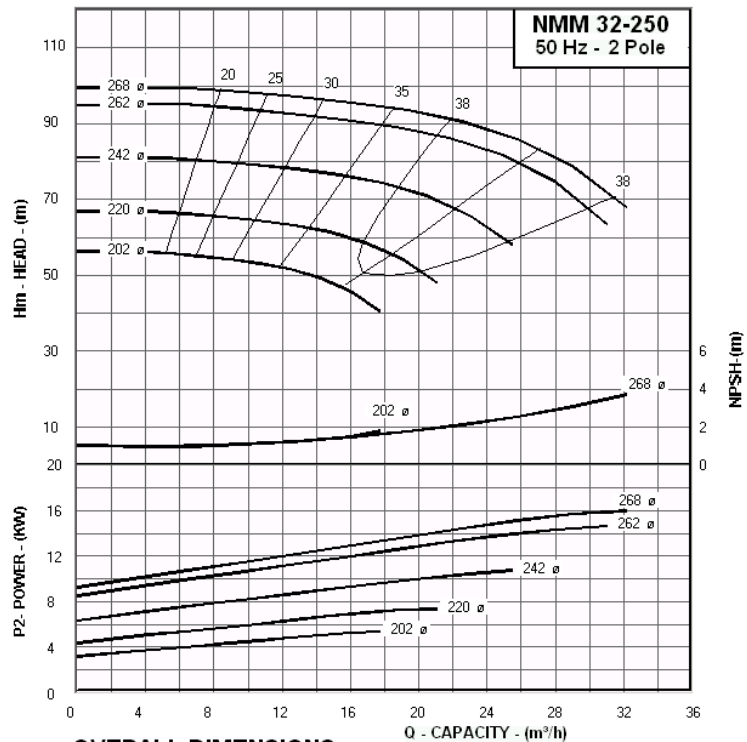
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 2900 rpm

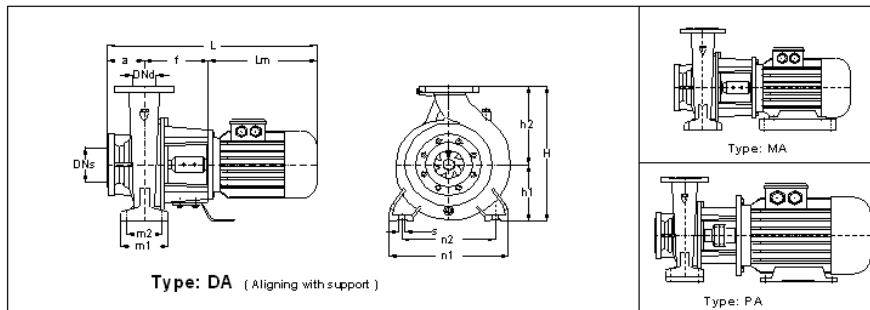


TECHNICAL DATA : NMM 32-250 - 50 Hz - 2 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 32-250 (2900 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 32-250/ 1852	268	160L2	18.5	415	MA	50	32	100	240	528	180	225	160	125	95	320	250	12	868	405
NMM 32-250/ 1502	262	160M2	15	415	MA	50	32	100	240	484	180	225	160	125	95	320	250	12	824	405
NMM 32-250/ 1102	242	160M2	11	415	MA	50	32	100	240	484	180	225	160	125	95	320	250	12	824	405
NMM 32-250/ 752	220	132S2	7.5	414	MA	50	32	100	215	375	180	225	132	125	95	320	250	12	690	405
NMM 32-250/ 752	202	132S2	7.5	414	MA	50	32	100	215	375	180	225	132	125	95	320	250	12	690	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 32-250/ 1852	268	30	ML2b	A3.12a	F5
NMM 32-250/ 1502	262	30	ML2b	A3.12a	F5
NMM 32-250/ 1102	242	30	ML2b	A3.12a	F5
NMM 32-250/ 752	220	30	ML2a	A3.12a	F4
NMM 32-250/ 752	202	30	ML2a	A3.12a	F4

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
50	165	125	18	4
32	140	100	18	4

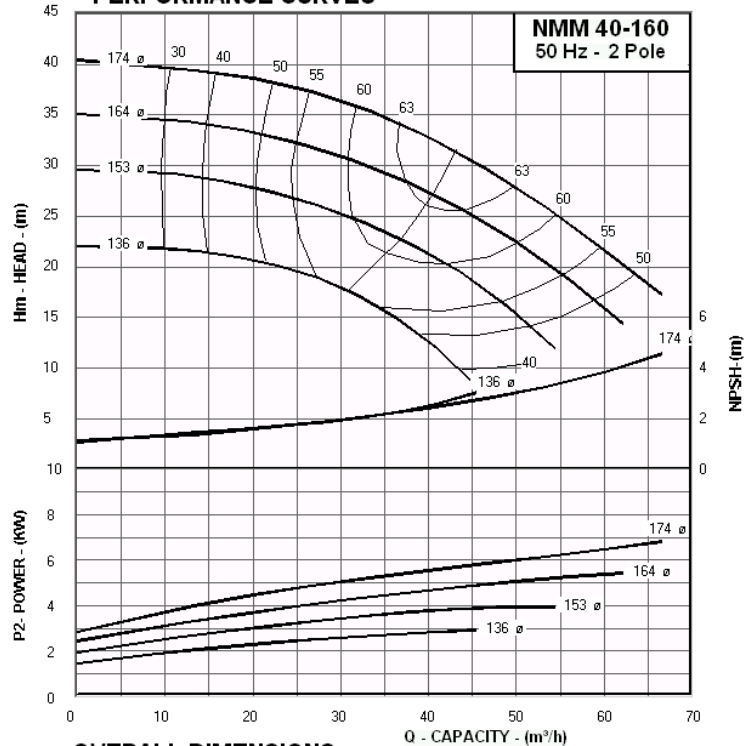
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 2900 rpm

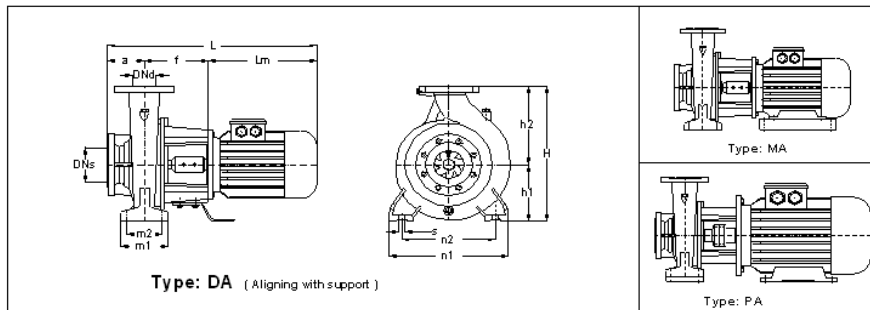


TECHNICAL DATA : NMM 40-160 - 50 Hz - 2 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 40-160 (2880 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 40-160/ 752	174	132S2	7.5	124	0	65	40	80	200	375	132	160	132	200	70	240	190	12	655	292
NMM 40-160/ 552	164	132S2	5.5	124	0	65	40	80	200	375	132	160	132	200	70	240	190	12	655	292
NMM 40-160/ 402	153	112M2	4	123	DA	65	40	80	180	324	132	160	112	200	70	240	190	12	584	292
NMM 40-160/ 302	136	100L2	3	123	DA	65	40	80	180	305	132	160	100	200	70	240	190	12	565	292

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 40-160/ 752	174	30	ML2a	A1.12	F 2
NMM 40-160/ 552	164	30	ML2a	A1.12	F 2
NMM 40-160/ 402	153	20	ML1c	A1.11	F 1
NMM 40-160/ 302	136	20	ML1c	A1.11	F 1

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
40	150	110	18	4

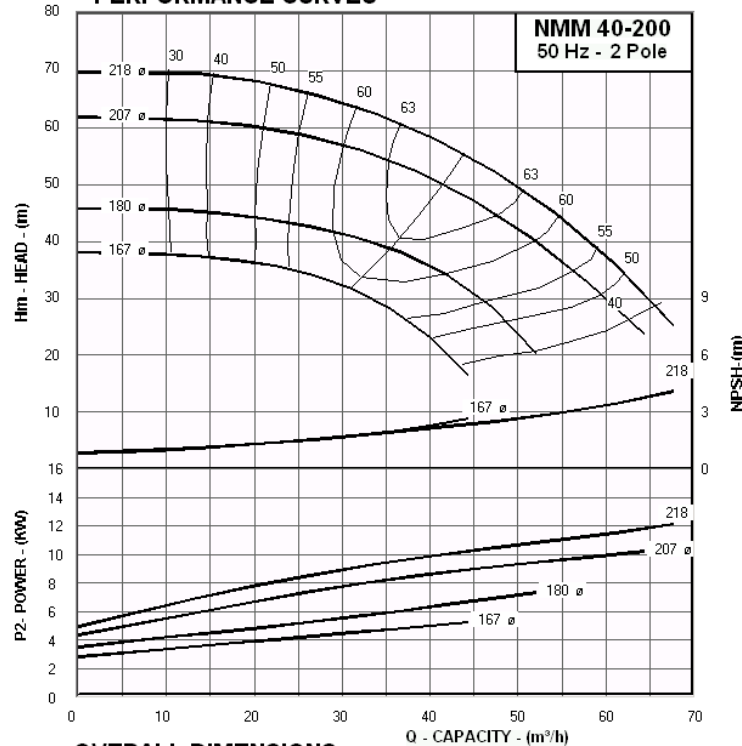
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 2900 rpm

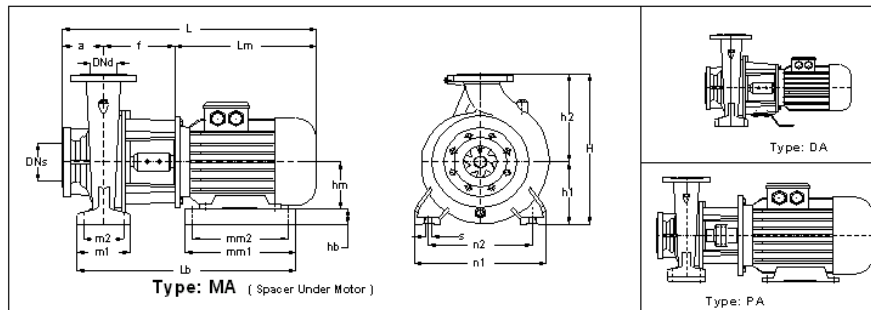


TECHNICAL DATA : NMM 40-200 - 50 Hz - 2 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 40-200 (2900 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM 40-200/ 1502	218	160M2	15	325	0	65	40	100	230	484	160	180	160	100	70	265	212	12	814	340
NMM 40-200/ 1102	207	160M2	11	325	0	65	40	100	230	484	160	180	160	100	70	265	212	12	814	340
NMM 40-200/ 752	180	132S2	7.5	324	MA	65	40	100	205	375	160	180	132	100	70	265	212	12	680	340
NMM 40-200/ 552	167	132S2	5.5	324	MA	65	40	100	205	375	160	180	132	100	70	265	212	12	680	340

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 40-200/ 1502	218	30	ML2b	A2.22	F5
NMM 40-200/ 1102	207	30	ML2b	A2.22	F5
NMM 40-200/ 752	180	30	ML2a	A2.22	F4
NMM 40-200/ 552	167	30	ML2a	A2.22	F4

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
40	150	110	18	4

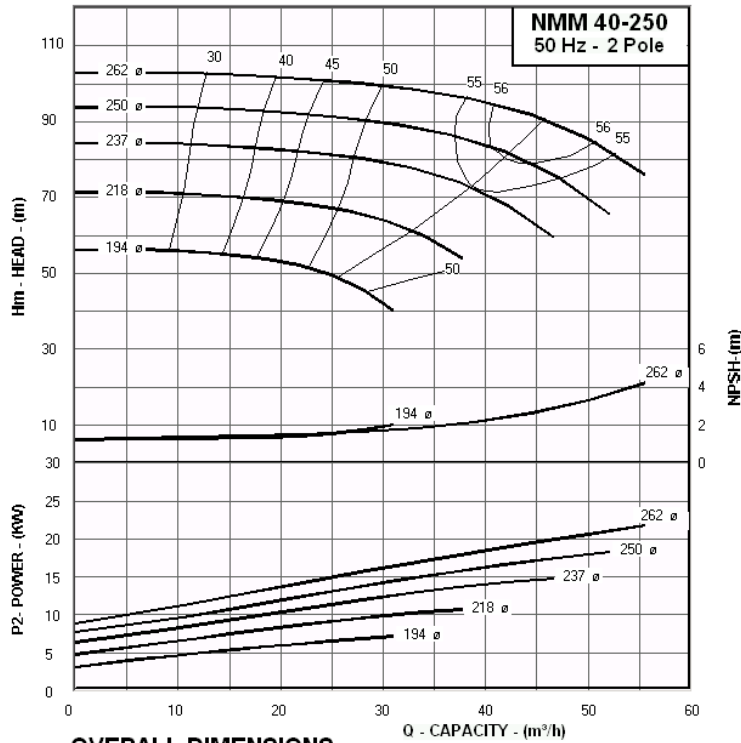
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 2900 rpm

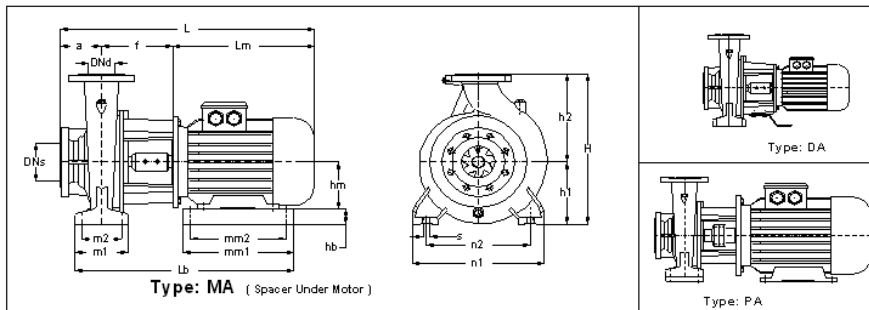


TECHNICAL DATA : NMM 40-250 - 50 Hz - 2 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 40-250 (2940 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 40-250/ 2202	262	180M2	22	426	0	65	40	100	230	544	180	225	180	125	95	320	250	12	874	405
NMM 40-250/ 1852	250	160L2	18.5	425	MA	65	40	100	230	528	180	225	160	125	95	320	250	12	858	405
NMM 40-250/ 1502	237	160M2	15	425	MA	65	40	100	230	484	180	225	160	125	95	320	250	12	814	405
NMM 40-250/ 1102	218	160M2	11	425	MA	65	40	100	230	484	180	225	160	125	95	320	250	12	814	405
NMM 40-250/ 752	194	132S2	7.5	424	MA	65	40	100	205	375	180	225	132	125	95	320	250	12	680	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 40-250/ 2202	262	30	ML2c	A3.12	F5
NMM 40-250/ 1852	250	30	ML2b	A3.12	F5
NMM 40-250/ 1502	237	30	ML2b	A3.12	F5
NMM 40-250/ 1102	218	30	ML2b	A3.12	F5
NMM 40-250/ 752	194	30	ML2a	A3.12	F4

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
40	150	110	18	4

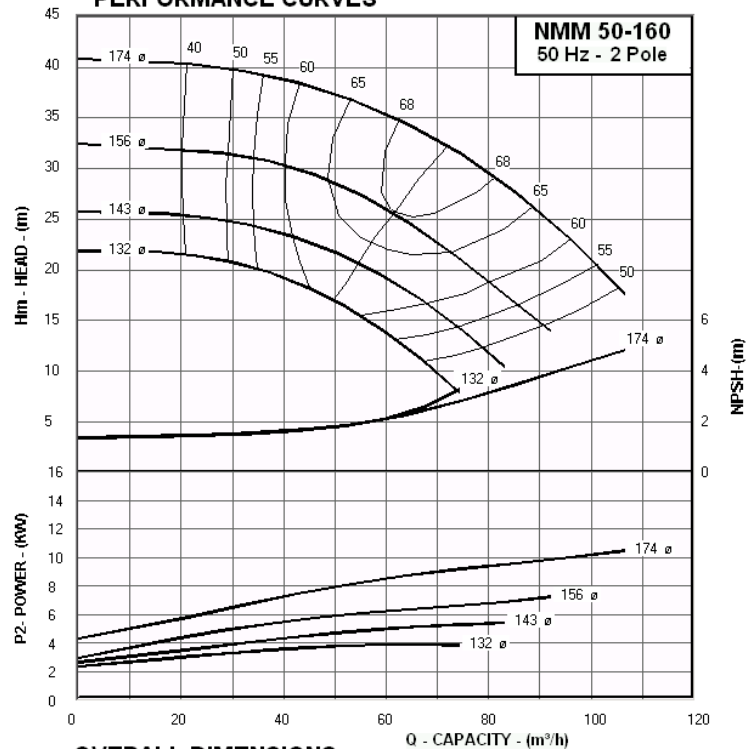
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 2900 rpm

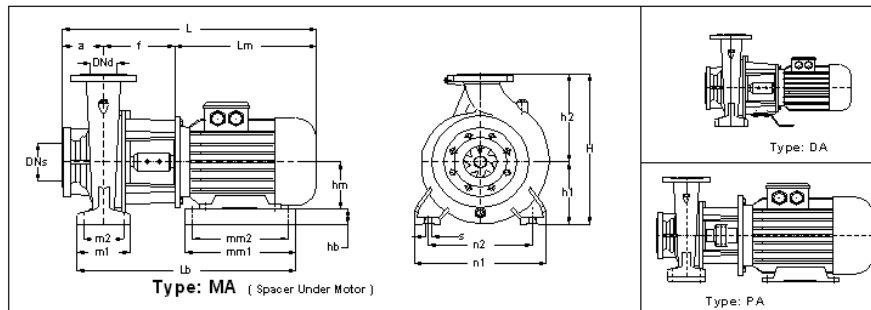


TECHNICAL DATA : NMM 50-160 - 50 Hz - 2 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 50-160 (2900 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM 50-160/ 1102	174	160M2	11	135	0	65	50	100	230	484	160	180	160	100	70	265	212	12	814	340
NMM 50-160/ 752	156	132S2	7.5	134	MA	65	50	100	200	375	160	180	132	100	70	265	212	12	675	340
NMM 50-160/ 552	143	132S2	5.5	134	MA	65	50	100	200	375	160	180	132	100	70	265	212	12	675	340
NMM 50-160/ 402	132	112M2	4	133	DA	65	50	100	180	324	160	180	112	100	70	265	212	12	604	340

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 50-160/ 1102	174	30	ML2b	A1.32	F 136
NMM 50-160/ 752	156	30	ML2a	A1.12	F 2
NMM 50-160/ 552	143	30	ML2a	A1.12	F 2
NMM 50-160/ 402	132	20	ML1c	A1.11	F 1

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
50	165	125	18	4

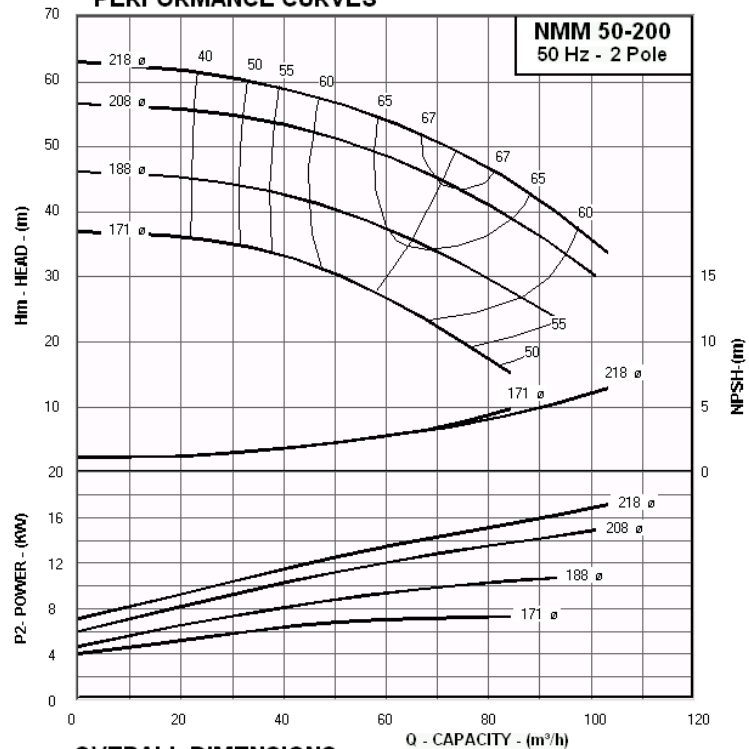
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 2900 rpm

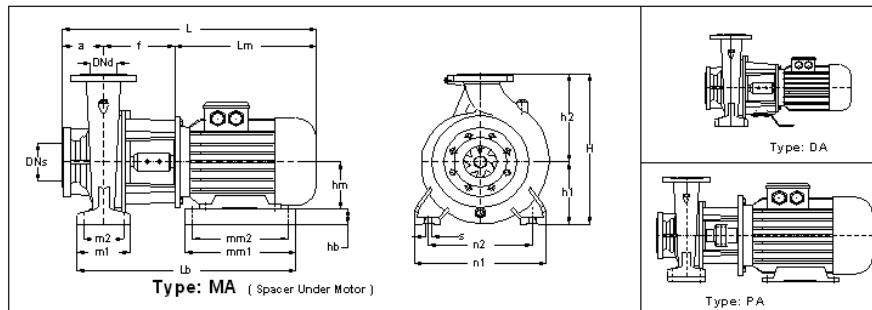


TECHNICAL DATA : NMM 50-200 - 50 Hz - 2 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 50-200 (2900 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 50-200/ 1852	218	160L2	18.5	335	0	65	50	100	230	528	160	200	160	100	70	265	212	12	858	360
NMM 50-200/ 1502	208	160M2	15	335	0	65	50	100	230	484	160	200	160	100	70	265	212	12	814	360
NMM 50-200/ 1102	188	160M2	11	335	0	65	50	100	230	484	160	200	160	100	70	265	212	12	814	360
NMM 50-200/ 752	171	132S2	7.5	334	MA	65	50	100	205	375	160	200	132	100	70	265	212	12	680	360

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 50-200/ 1852	218	30	ML2b	A2.22	F5
NMM 50-200/ 1502	208	30	ML2b	A2.22	F5
NMM 50-200/ 1102	188	30	ML2b	A2.22	F5
NMM 50-200/ 752	171	30	ML2a	A2.22	F4

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
50	165	125	18	4

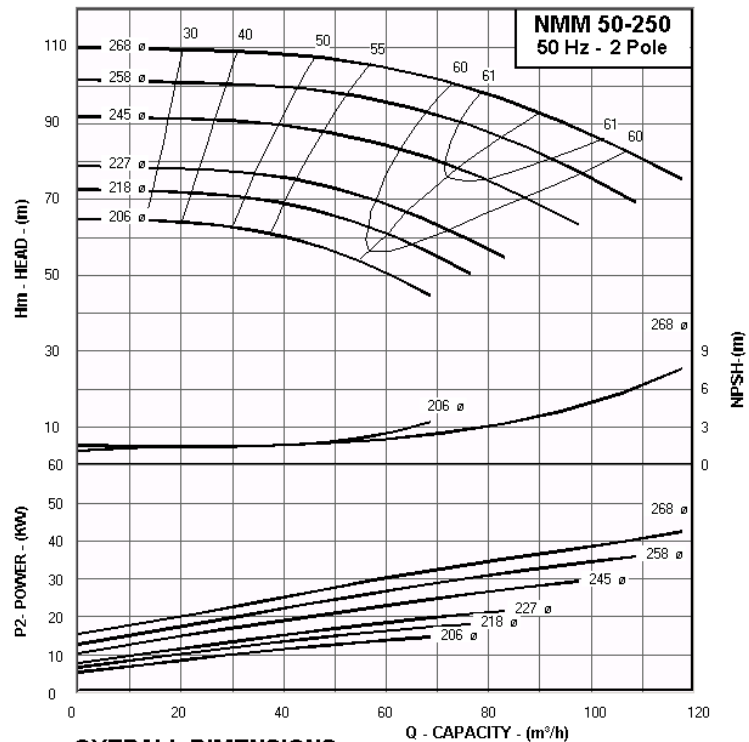
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 2900 rpm

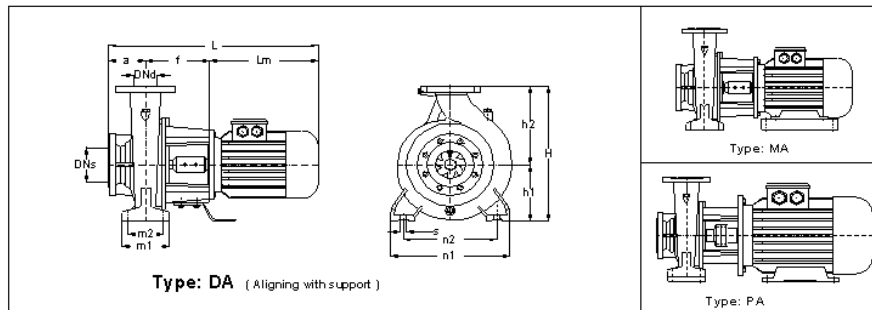


TECHNICAL DATA : NMM 50-250 - 50 Hz - 2 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 50-250 (2950 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 50-250/ 4502	268	225M2	45	438	PA	65	50	100	45	680	180	225	225	125	95	320	250	12	825	405
NMM 50-250/ 3702	258	200L2	37	437	PA	65	50	100	45	637	180	225	200	125	95	320	250	12	782	405
NMM 50-250/ 3002	245	200L2	30	437	PA	65	50	100	45	637	180	225	200	125	95	320	250	12	782	405
NMM 50-250/ 2202	227	180M2	22	436	O	65	50	100	230	544	180	225	180	125	95	320	250	12	874	405
NMM 50-250/ 1852	218	160L2	18.5	435	MA	65	50	100	230	528	180	225	160	125	95	320	250	12	858	405
NMM 50-250/ 1502	206	160M2	15	435	MA	65	50	100	230	484	180	225	160	125	95	320	250	12	814	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 50-250/ 4502	268	35	ML7+K6	A3.13	F6a
NMM 50-250/ 3702	258	35	ML7+K6	A3.13	F6
NMM 50-250/ 3002	245	35	ML7+K6	A3.13	F6
NMM 50-250/ 2202	227	30	ML2c	A3.12	F5
NMM 50-250/ 1852	218	30	ML2b	A3.12	F5
NMM 50-250/ 1502	206	30	ML2b	A3.12	F5

Flange Dimensions

EN 1092-2 PN 16

DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
50	165	125	18	4

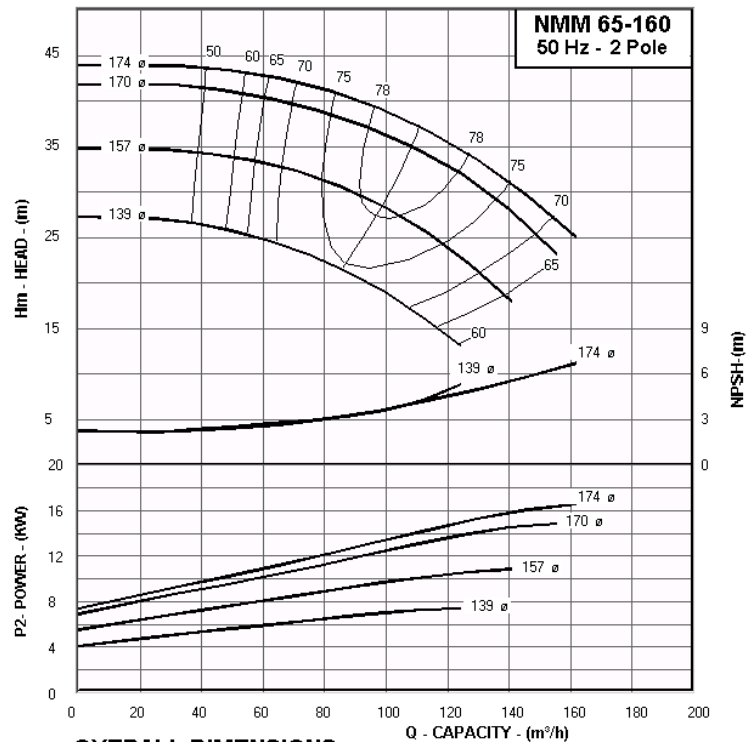
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 2900 rpm

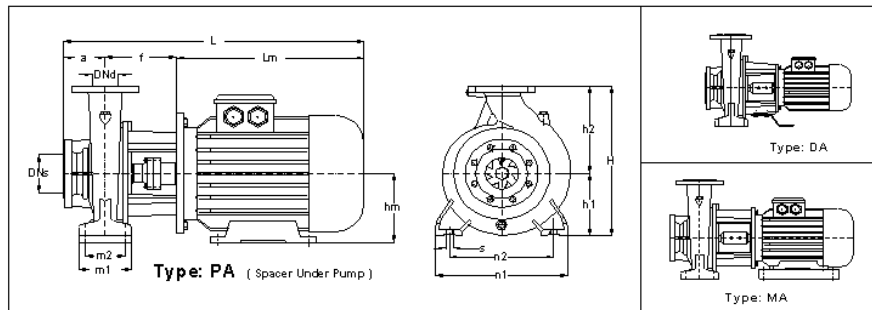


TECHNICAL DATA : NMM 65-160 - 50 Hz - 2 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 65-160 (2900 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 65-160/1852	174	160L2	18.5	215	O	80	65	100	230	528	160	200	160	125	95	250	212	12	858	360
NMM 65-160/1502	170	160M2	15	215	MA	80	65	140	250	484	315	400	160	200	150	500	400	20	874	715
NMM 65-160/1852	157	160L2	11	215	O	80	65	100	230	528	160	200	160	125	95	250	212	12	858	360
NMM 65-160/752	139	132S2	7.5	214	MA	80	65	100	200	375	160	200	132	125	95	250	212	12	675	360

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 65-160/1852	174	30	ML2b	A1.32	-
NMM 65-160/1502	170	30	ML2b	A1.32	-
NMM 65-160/1852	157	30	ML2b	A1.32	-
NMM 65-160/752	139	30	ML2a	A1.22	F2

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
65	185	145	18	4

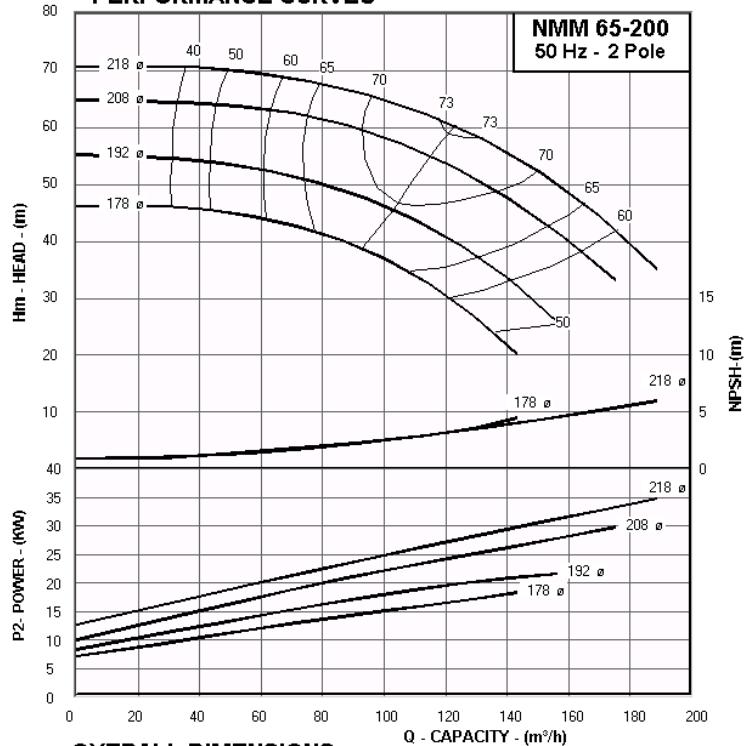
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 2900 rpm

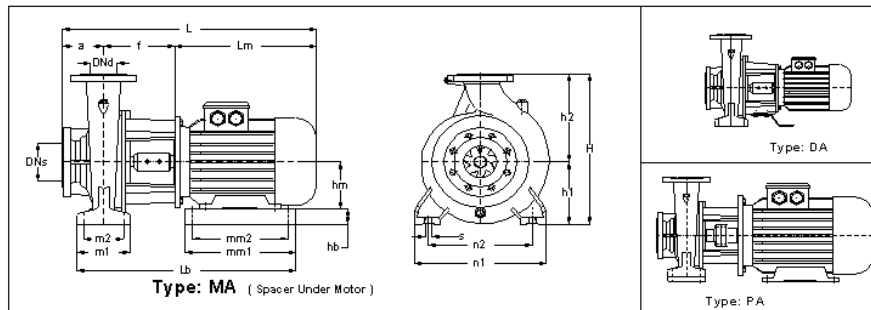


TECHNICAL DATA : NMM 65-200 - 50 Hz - 2 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 65-200 (2945 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 65-200/ 3702	218	200L2	37	347	PA	80	65	100	260	637	180	225	200	125	95	320	250	12	997	405
NMM 65-200/ 3002	208	200L2	30	347	PA	80	65	100	260	637	180	225	200	125	95	320	250	12	997	405
NMM 65-200/ 2202	192	180M2	22	346	O	80	65	100	230	544	180	225	180	125	95	320	250	12	874	405
NMM 65-200/ 1852	178	160L2	18.5	345	MA	80	65	100	230	528	180	225	160	125	95	320	250	12	858	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 65-200/ 3702	218	35	ML7+K6	A2.23	F6
NMM 65-200/ 3002	208	35	ML7+K6	A2.23	F6
NMM 65-200/ 2202	192	30	ML2c	A2.22	F5
NMM 65-200/ 1852	178	30	ML2b	A2.22	F5

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
65	185	145	18	4

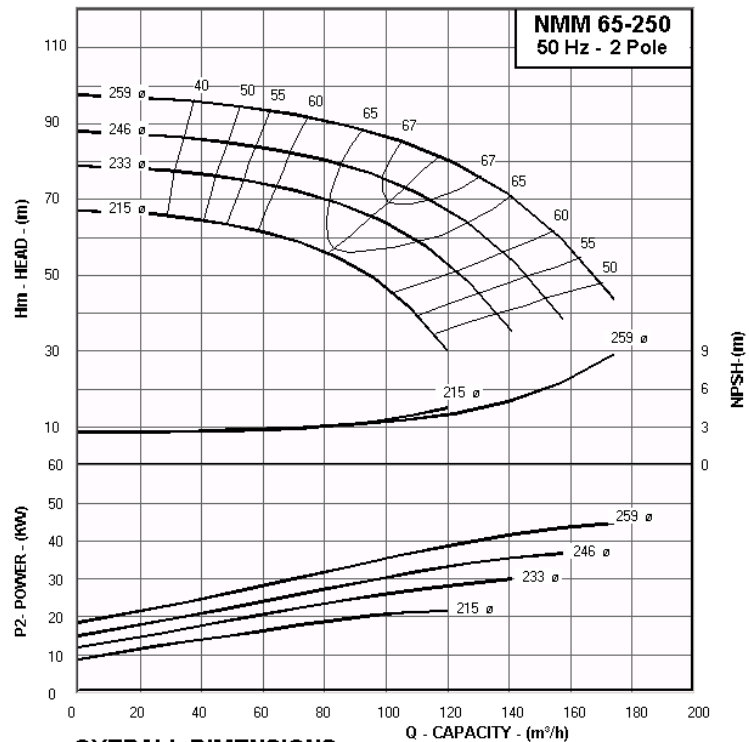
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 2900 rpm

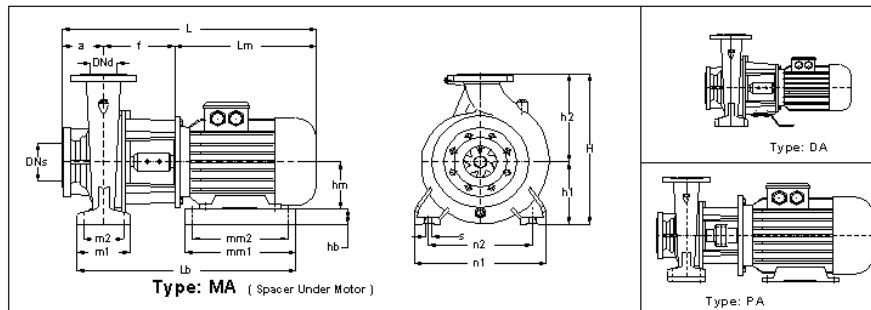


TECHNICAL DATA : NMM 65-250 - 50 Hz - 2 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 65-250 (2900 RPM)

Pump Size	Imp. \varnothing	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 65-250/ 4502	259	225M2	45	618	PA	80	65	100	55	680	200	250	225	160	120	360	280	16	835	450
NMM 65-250/ 3702	246	200L2	37	617	MA	80	65	140	280	637	315	400	200	200	150	500	400	20	1057	715
NMM 65-250/ 3702	233	200L2	37	617	MA	80	65	140	280	637	315	400	200	200	150	500	400	20	1057	715
NMM 65-250/ 2202	215	180M2	22	616	MA	80	65	140	250	544	315	400	180	200	150	500	400	20	934	715

Main Part Codes

Pump Size	Imp. \varnothing	Seal mm \varnothing	Shaft and Coupling	Adapter	Flange
NMM 65-250/ 4502	259	35	ML8 + K6	B2.13	F8a
NMM 65-250/ 3702	246	35	ML8 + K6	B2.13	F8
NMM 65-250/ 3702	233	35	ML8 + K6	B2.13	F8
NMM 65-250/ 2202	215	30	ML4c	B2.12	F7

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
65	185	145	18	4

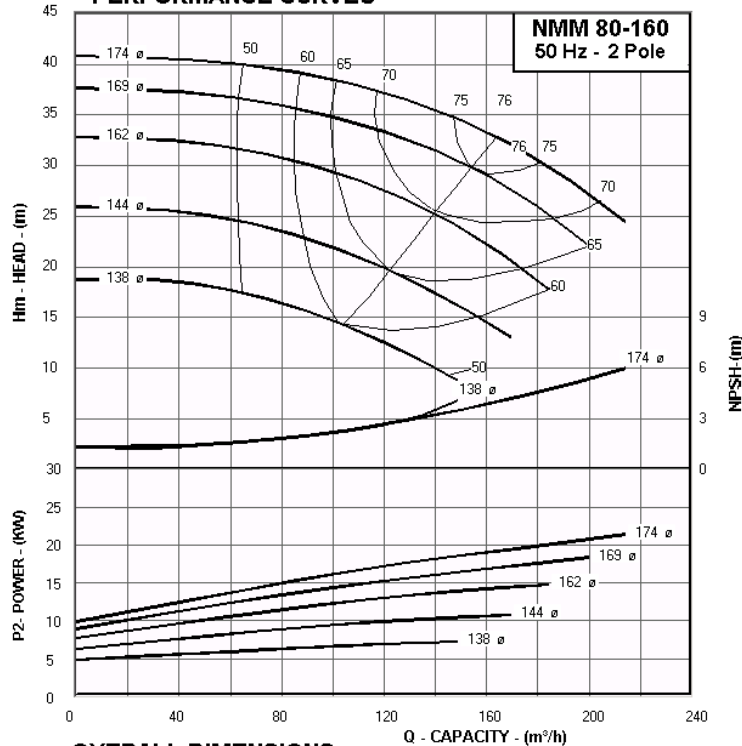
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 2900 rpm

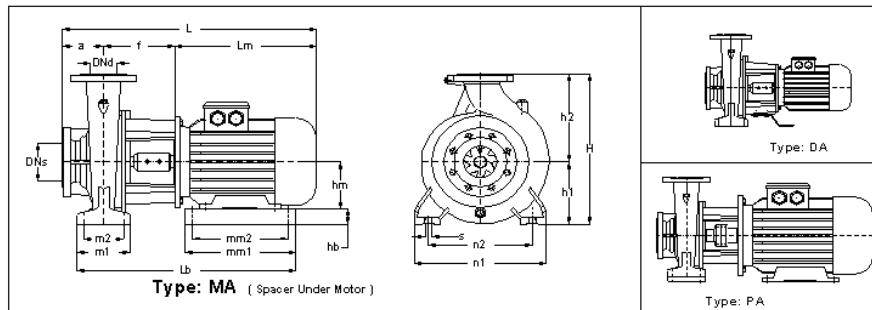


TECHNICAL DATA : NMM 80-160 - 50 Hz - 2 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



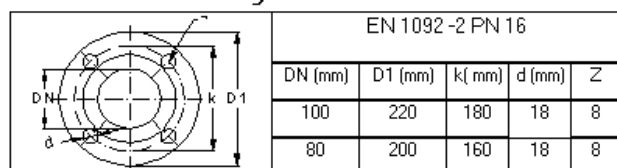
DIMENSIONS TABLE. NMM 80-160 (2940 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 80-160/ 2202	174	180M2	22	226	0	100	80	125	230	544	180	225	180	125	95	320	250	12	899	405
NMM 80-160/ 1852	169	160L2	18.5	225	MA	100	80	125	230	528	180	225	160	125	95	320	250	12	883	405
NMM 80-160/ 1502	162	160M2	15	225	MA	100	80	125	230	484	180	225	160	125	95	320	250	12	839	405
NMM 80-160/ 1102	144	160M2	11	225	MA	100	80	125	230	484	180	225	160	125	95	320	250	12	839	405
NMM 80-160/ 752	138	132S2	7.5	224	MA	100	80	140	65	375	315	400	132	200	150	500	400	20	580	715

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 80-160/ 2202	174	30	ML2c	A1.32	-
NMM 80-160/ 1852	169	30	ML2b	A1.32	-
NMM 80-160/ 1502	162	30	ML2b	A1.32	-
NMM 80-160/ 1102	144	30	ML2b	A1.32	-
NMM 80-160/ 752	138	30	ML2a	A1.22	F2

Flange Dimensions



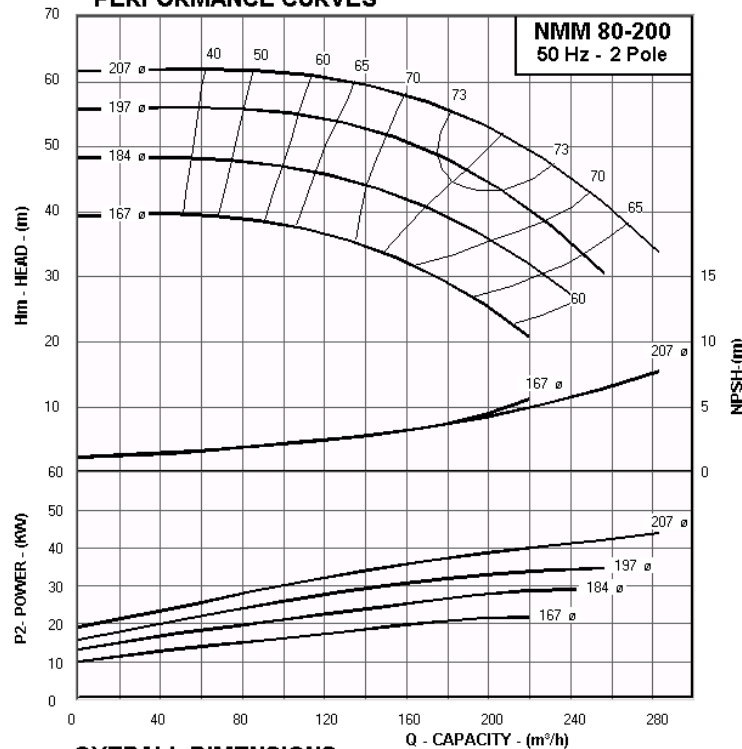
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 2900 rpm

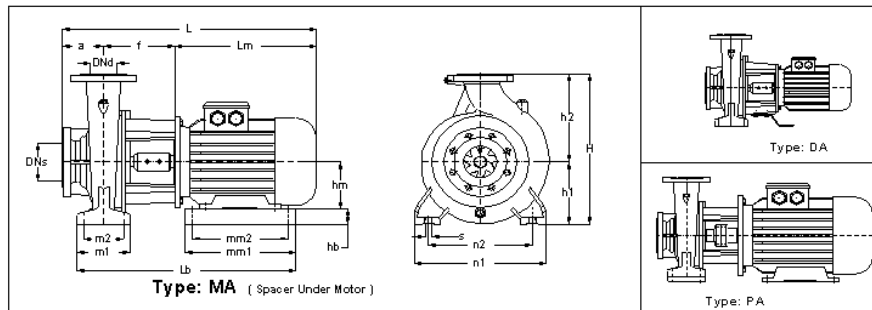


TECHNICAL DATA : NMM 80-200 - 50 Hz - 2 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 80-200 (2945 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 80-200/ 4502	207	225M2	45	518	PA	100	80	125	270	680	180	250	225	125	95	345	280	12	1075	430
NMM 80-200/ 3702	197	200L2	37	517	PA	100	80	125	270	637	180	250	200	125	95	345	280	12	1032	430
NMM 80-200/ 3002	184	200L2	30	517	PA	100	80	125	270	637	180	250	200	125	95	345	280	12	1032	430
NMM 80-200/ 2202	167	180M2	22	516	O	100	80	125	240	544	180	250	180	125	95	345	280	12	909	430

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 80-200/ 4502	207	35	ML8 + K6	B1.13	F6a
NMM 80-200/ 3702	197	35	ML8 + K6	B1.13	F6
NMM 80-200/ 3002	184	35	ML8 + K6	B1.13	F6
NMM 80-200/ 2202	167	30	ML4c	B1.12	F5

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
80	200	160	18	8

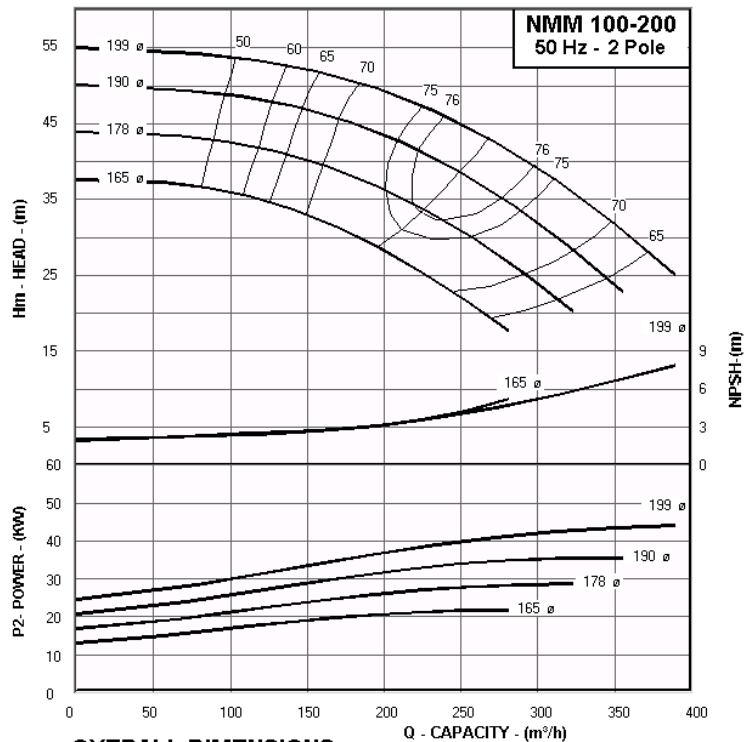
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 2900 rpm

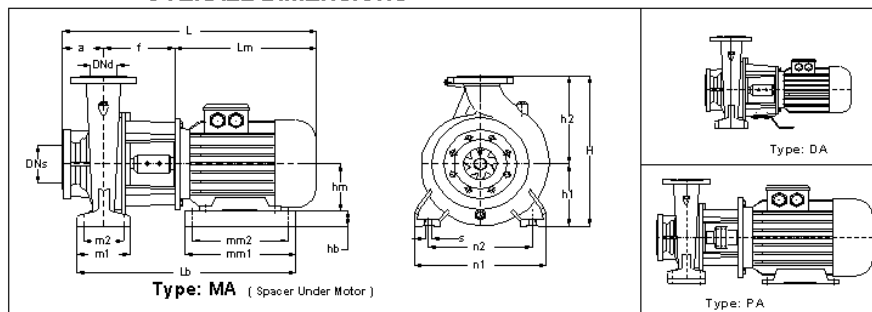


TECHNICAL DATA : NMM 100-200 - 50 Hz - 2 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 100-200 (2950 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 100-200/ 4502	199	225M2	45	528	PA	125	100	125	270	680	200	280	225	160	120	360	280	16	1075	480
NMM 100-200/ 3702	190	200L2	37	527	O	125	100	125	270	637	200	280	200	160	120	360	280	16	1032	480
NMM 100-200/ 3002	178	200L2	30	527	O	125	100	125	270	637	200	280	200	160	120	360	280	16	1032	480
NMM 100-200/ 2202	165	180M2	22	526	MA	125	100	125	240	544	200	280	180	160	120	360	280	16	909	480

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 100-200/ 4502	199	35	ML8 + K6	B1.13	F6a
NMM 100-200/ 3702	190	35	ML8 + K6	B1.13	F6
NMM 100-200/ 3002	178	35	ML8 + K6	B1.13	F6
NMM 100-200/ 2202	165	30	ML4c	B1.12	F5

Flange Dimensions

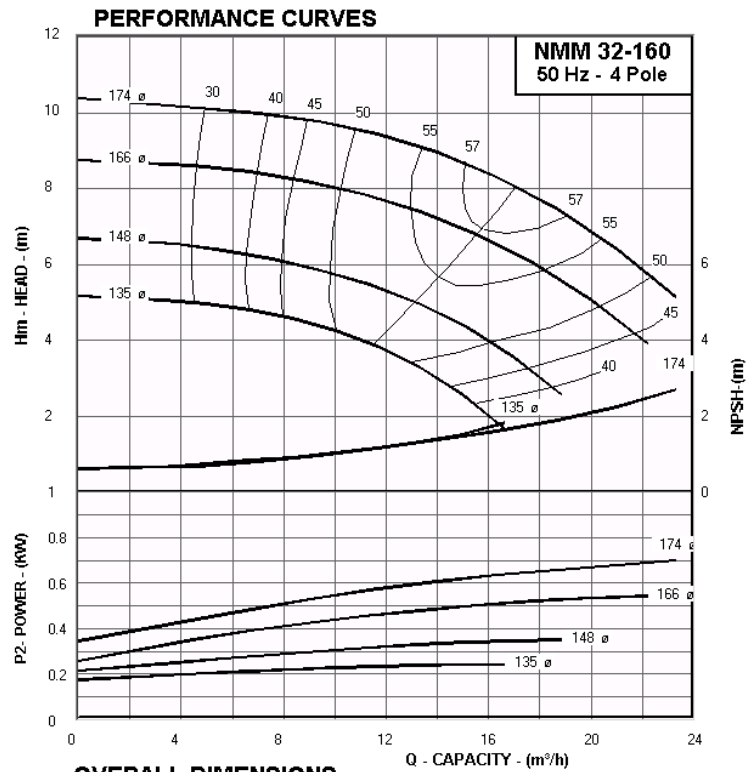
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
125	250	210	18	8
100	220	180	18	8

MAS NMM - Close Coupled Centrifugal Pumps

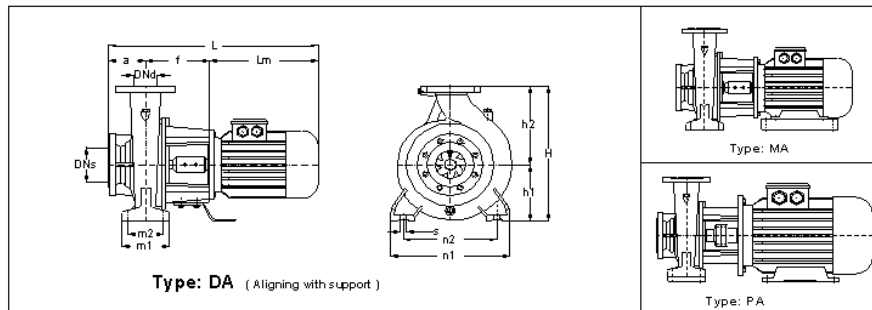
Performance Curves - 50 Hz - 1450 rpm



TECHNICAL DATA : NMM 32-160 - 50 Hz - 4 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 32-160 (1400 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 32-160/074	174	80 4b	0.75	111	DA	50	32	80	160	233	132	160	80	100	70	240	190	12	473	292
NMM 32-160/054	166	80 4a	0.55	111	DA	50	32	80	160	233	132	160	80	100	70	240	190	12	473	292
NMM 32-160/044	148	71 4b	0.37	110	DA	50	32	80	145	212	132	160	71	100	70	240	190	12	437	292
NMM 32-160/034	135	71 4a	0.25	110	DA	50	32	80	145	212	132	160	71	100	70	240	190	12	437	292

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 32-160/074	174	20	ML1a	A1.11	-
NMM 32-160/054	166	20	ML1a	A1.11	-
NMM 32-160/044	148	20	ML1k	A1.1k	T1
NMM 32-160/034	135	20	ML1k	A1.1k	T1

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
50	165	125	18	4
32	140	100	18	4

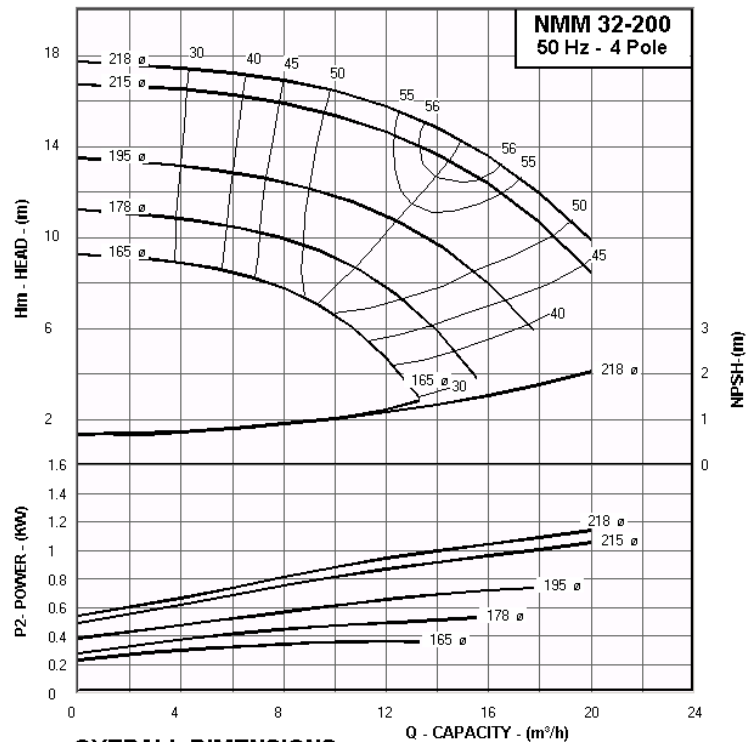
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 1450 rpm

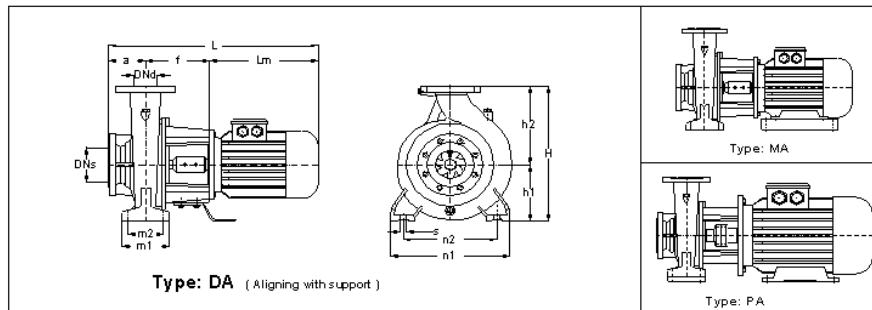


TECHNICAL DATA : NMM 32-200 - 50 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 32-200 (1420 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 32-200/154	218	90L 4	1.5	312	DA	50	32	80	160	275	160	180	90	100	70	240	190	12	515	340
NMM 32-200/114	215	90S 4	1.1	312	DA	50	32	80	160	250	160	180	90	100	70	240	190	12	490	340
NMM 32-200/074	195	80 4b	0.75	311	DA	50	32	80	160	233	160	180	80	100	70	240	190	12	473	340
NMM 32-200/054	178	80 4a	0.55	311	DA	50	32	80	160	233	160	180	80	100	70	240	190	12	473	340
NMM 32-200/044	165	71 4b	0.37	310	DA	50	32	80	145	212	160	180	71	100	70	240	190	12	437	340

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 32-200/154	218	20	ML1b	A2.11	-
NMM 32-200/114	215	20	ML1b	A2.11	-
NMM 32-200/074	195	20	ML1a	A2.11	-
NMM 32-200/054	178	20	ML1a	A2.11	-
NMM 32-200/044	165	20	ML1k	A2.1k	T1

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
50	165	125	18	4
32	140	100	18	4

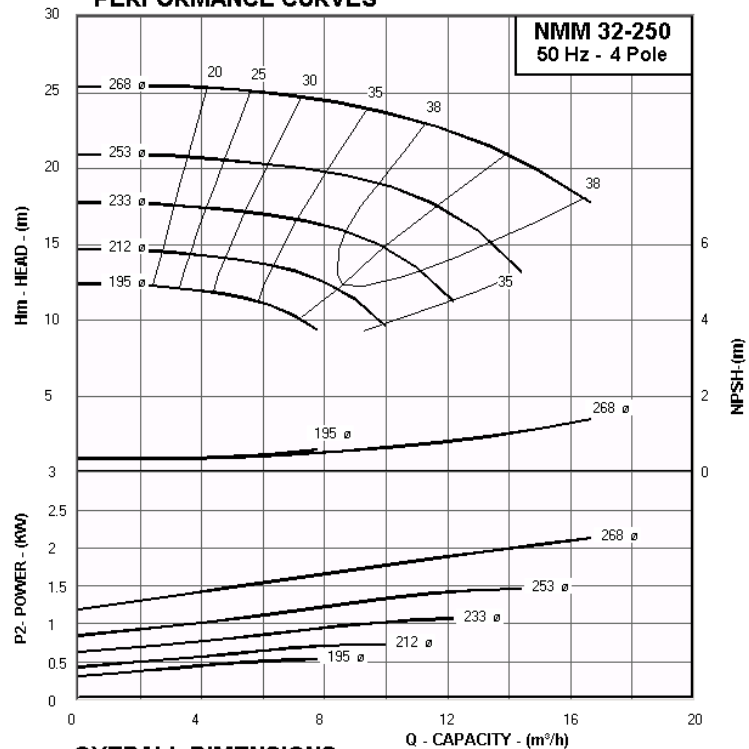
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 1450 rpm

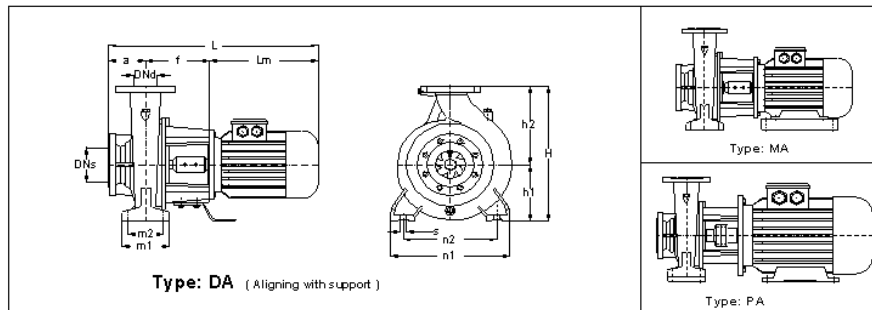


TECHNICAL DATA : NMM 32-250 - 50 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 32-250 (1420 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 32-250/ 224	268	100L4	2.2	413	DA	50	32	100	190	305	180	225	100	125	95	320	250	12	595	405
NMM 32-250/ 154	253	90L 4	1.5	412	DA	50	32	100	170	275	180	225	90	125	95	320	250	12	545	405
NMM 32-250/ 114	233	90S 4	1.1	412	DA	50	32	100	170	250	180	225	90	125	95	320	250	12	520	405
NMM 32-250/074	212	80 4b	0.75	411	DA	50	32	100	170	233	180	225	80	125	95	320	250	12	503	405
NMM 32-250/054	195	80 4a	0.55	411	DA	50	32	100	170	233	180	225	80	125	95	320	250	12	503	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 32-250/ 224	268	20	ML1c	A3.11	-
NMM 32-250/ 154	253	20	ML1b	A3.0A	-
NMM 32-250/ 114	233	20	ML1b	A3.0A	-
NMM 32-250/074	212	20	ML1a	A3.0A	-
NMM 32-250/054	195	20	ML1a	A3.0A	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
50	165	125	18	4
32	140	100	18	4

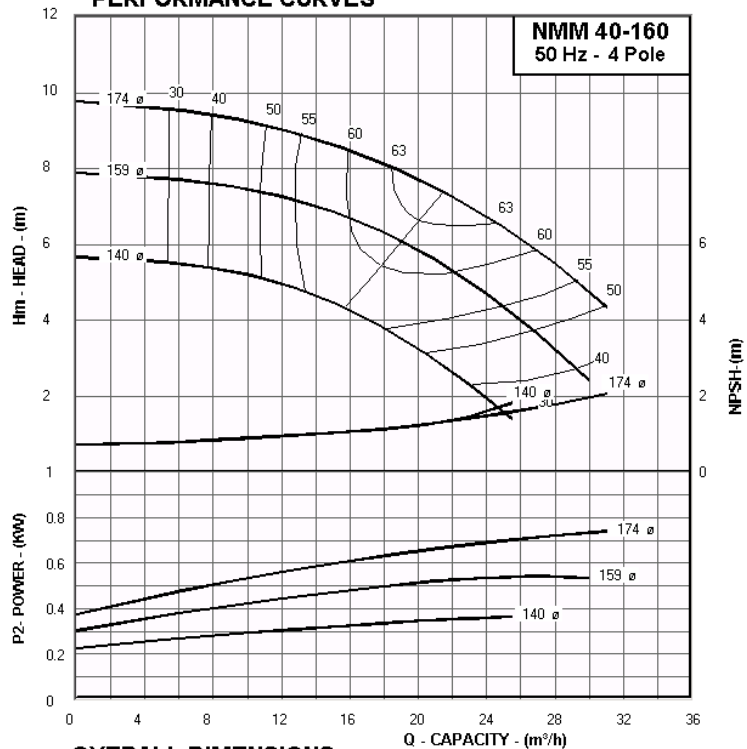
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 1450 rpm

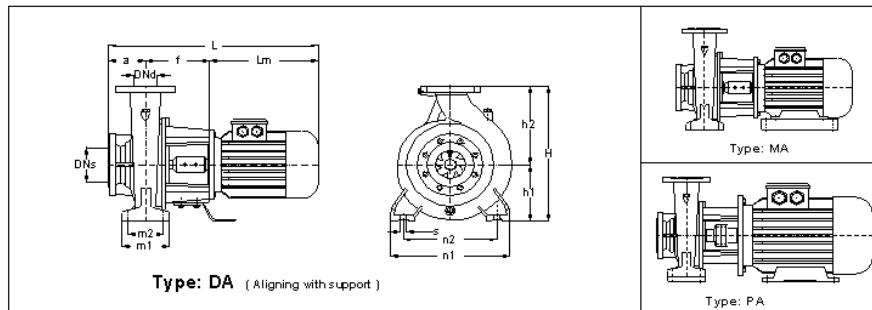


TECHNICAL DATA : NMM 40-160 - 50 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 40-160 (1410 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 40-160/074	174	80 4b	0.75	121	DA	65	40	80	160	233	132	160	80	100	70	240	190	12	473	292
NMM 40-160/054	159	80 4a	0.55	121	DA	65	40	80	160	233	132	160	80	100	70	240	190	12	473	292
NMM 40-160/044	140	71 4b	0.37	120	DA	65	40	80	145	212	132	160	71	100	70	240	190	12	437	292

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 40-160/074	174	20	ML1a	A1.11	-
NMM 40-160/054	159	20	ML1a	A1.11	-
NMM 40-160/044	140	20	ML1k	A1.1k	T1

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
40	150	110	18	4

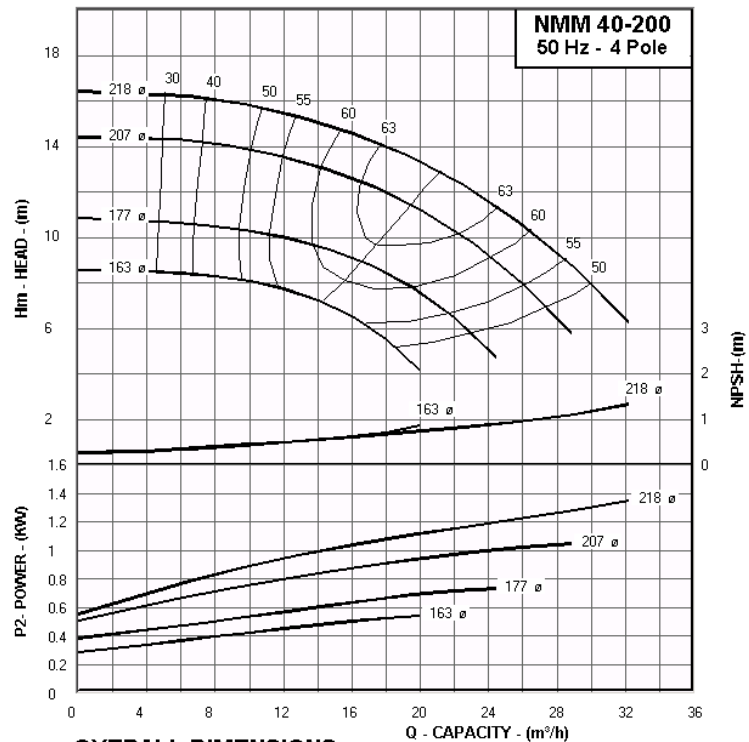
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 1450 rpm

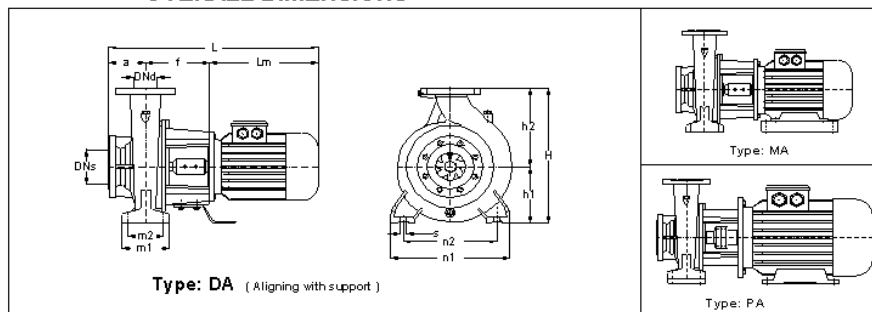


TECHNICAL DATA : NMM 40-200 - 50 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 40-200 (1420 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 40-200/ 154	218	90L 4	1.5	322	DA	65	40	140	65	275	315	400	90	200	150	500	400	20	480	715
NMM 40-200/ 114	207	90S 4	1.1	322	DA	65	40	100	160	250	160	180	90	100	70	265	212	12	510	340
NMM 40-200/ 79	177	80 4b	0.75	321	DA	65	40	140	65	233	315	400	80	200	150	500	400	20	438	715
NMM 40-200/ 59	163	80 4a	0.55	321	DA	65	40	100	160	233	160	180	80	100	70	265	212	12	493	340

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 40-200/ 154	218	20	ML1b	A2.11	-
NMM 40-200/ 114	207	20	ML1b	A2.11	-
NMM 40-200/ 79	177	20	ML1a	A2.11	-
NMM 40-200/ 59	163	20	ML1a	A2.11	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
40	150	110	18	4

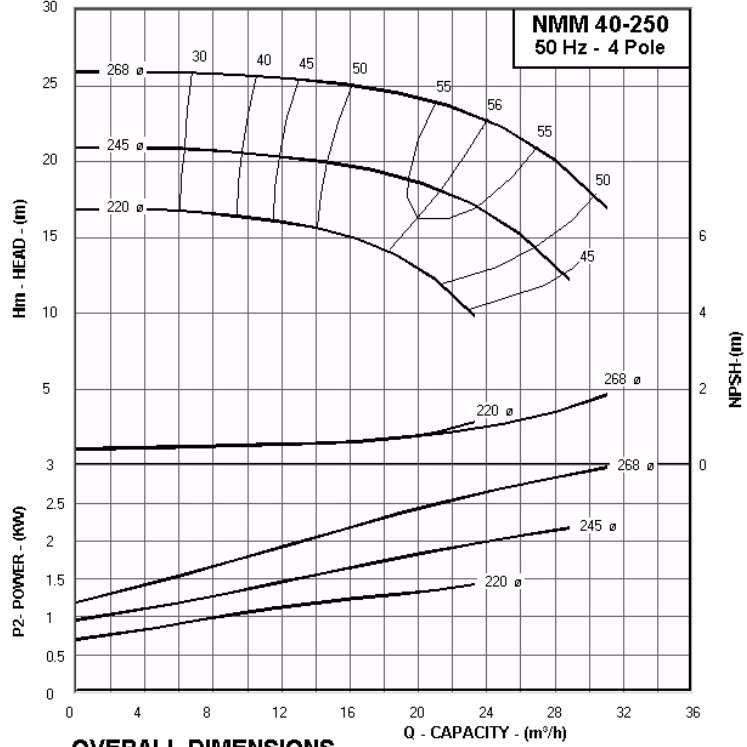
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 1450 rpm

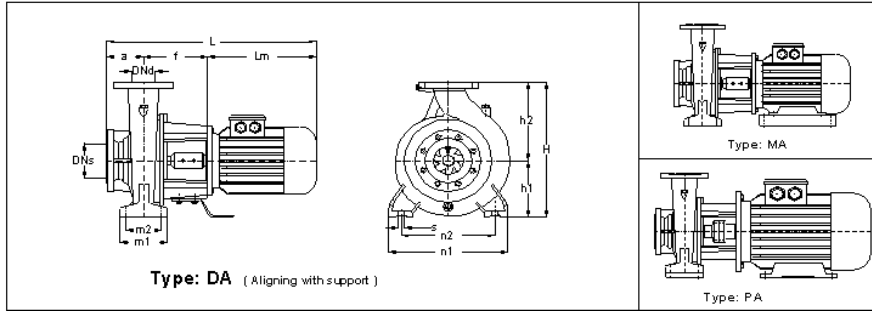


TECHNICAL DATA : NMM 40-250 - 50 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



BOYUT TABLOSU : NMM 40-250 (1430 d/dak)

Pompa Tipi	Çark ø	Motor Tipi	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM 40-250/ 304	268	100L4	3	423	DA	65	40	100	180	305	180	225	100	125	95	320	250	12	585	405
NMM 40-250/ 224	245	100L4	2.2	423	DA	65	40	100	180	305	180	225	100	125	95	320	250	12	585	405
NMM 40-250/ 154	220	90L 4	1.5	422	DA	65	40	100	160	275	180	225	90	125	95	320	250	12	535	405

Ana Parça Kodları

Pompa Tipi	Çark ø	Mek. S mm ø	Mil ve Kaplin	Adaptör	Flanş
NMM 40-250/ 304	268	20	ML1c	A3.11	-
NMM 40-250/ 224	245	20	ML1c	A3.11	-
NMM 40-250/ 154	220	20	ML1b	A3.0B	-

Flanş Boyutları

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
40	150	110	18	4

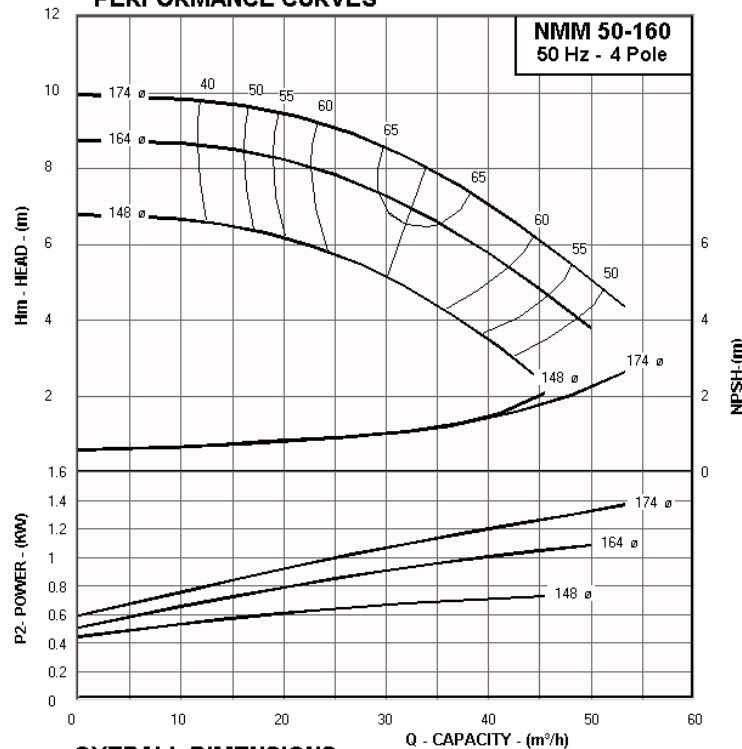
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 1450 rpm

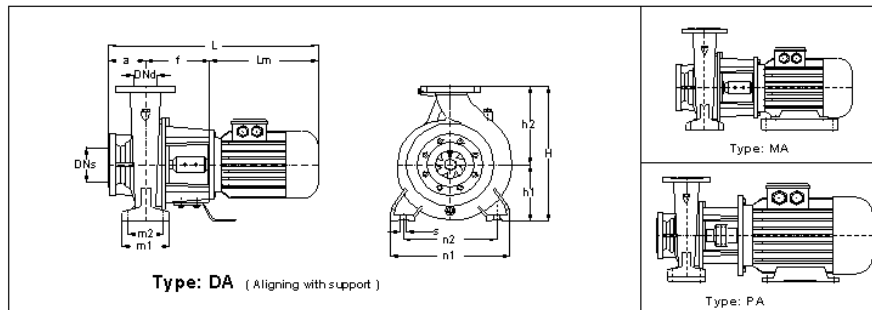


TECHNICAL DATA : NMM 50-160 - 50 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 50-160 (1420 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 50-160/ 154	174	90L 4	1.5	132	DA	65	50	100	160	275	160	180	90	100	70	265	212	12	535	340
NMM 50-160/ 114	164	90S 4	1.1	132	DA	65	50	100	160	250	160	180	90	100	70	265	212	12	510	340
NMM 50-160/074	148	80 4b	0.75	131	DA	65	50	100	160	233	160	180	80	100	70	265	212	12	493	340

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 50-160/ 154	174	20	ML1b	A1.11	-
NMM 50-160/ 114	164	20	ML1b	A1.11	-
NMM 50-160/074	148	20	ML1a	A1.11	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
50	165	125	18	4

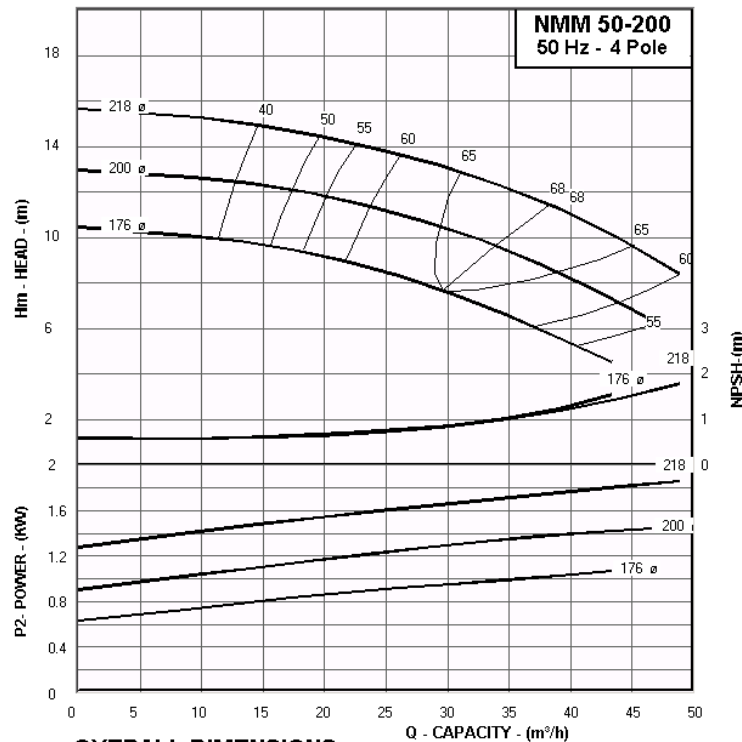
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 1450 rpm

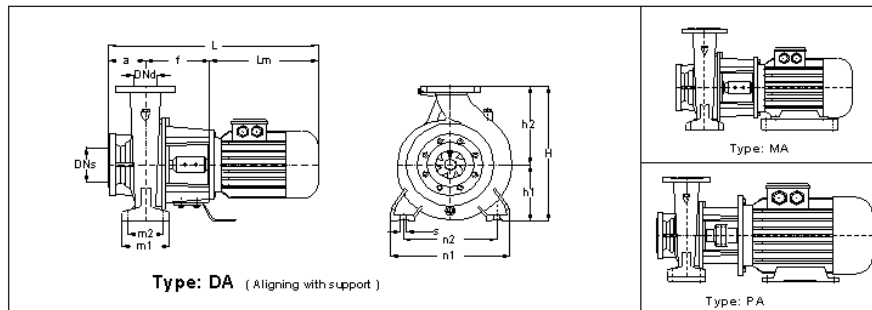


TECHNICAL DATA : NMM 50-200 - 50 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 50-200 (1420 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM 50-200/ 224	218	100L4	2.2	333	DA	65	50	100	180	305	160	200	100	100	70	265	212	12	585	360
NMM 50-200/ 154	200	90L 4	1.5	332	DA	65	50	100	160	275	160	200	90	100	70	265	212	12	535	360
NMM 50-200/ 114	176	90S 4	1.1	332	DA	65	50	100	160	250	160	200	90	100	70	265	212	12	510	360

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 50-200/ 224	218	20	ML1c	A2.21	-
NMM 50-200/ 154	200	20	ML1b	A2.11	-
NMM 50-200/ 114	176	20	ML1b	A2.11	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
50	165	125	18	4

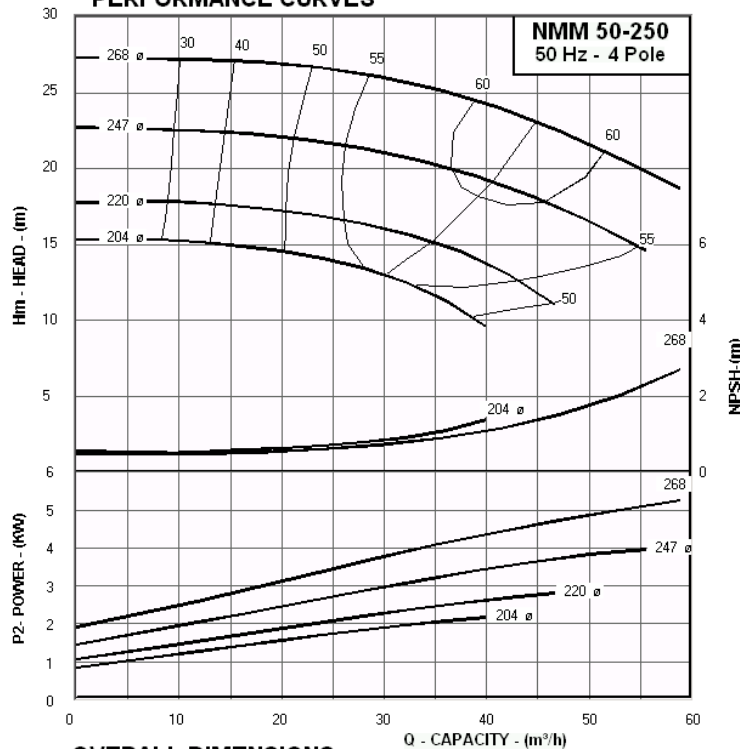
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 1450 rpm

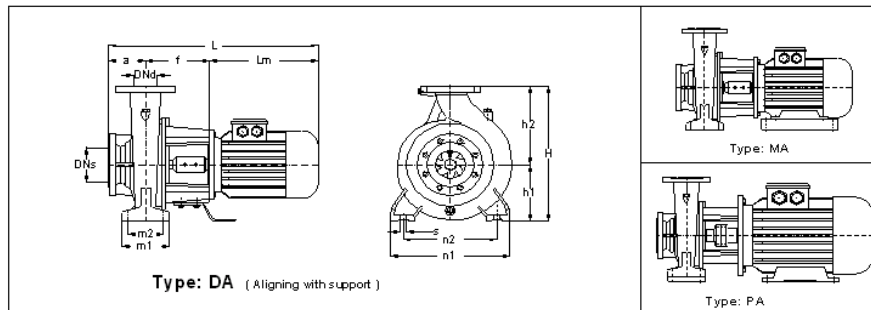


TECHNICAL DATA : NMM 50-250 - 50 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 50-250 (1445 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 50-250/ 554	268	132S4	5.5	434	MA	65	50	100	205	375	180	225	132	125	95	320	250	12	680	405
NMM 50-250/ 404	247	112M4	4	433	DA	65	50	100	180	324	180	225	112	125	95	320	250	12	604	405
NMM 50-250/ 304	220	100L4	3	433	DA	65	50	100	180	305	180	225	100	125	95	320	250	12	585	405
NMM 50-250/ 224	204	100L4	2.2	433	DA	65	50	100	180	305	180	225	100	125	95	320	250	12	585	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 50-250/ 554	268	30	ML2a	A3.12	F4
NMM 50-250/ 404	247	20	ML1c	A3.11	-
NMM 50-250/ 304	220	20	ML1c	A3.11	-
NMM 50-250/ 224	204	20	ML1c	A3.11	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
50	165	125	18	4

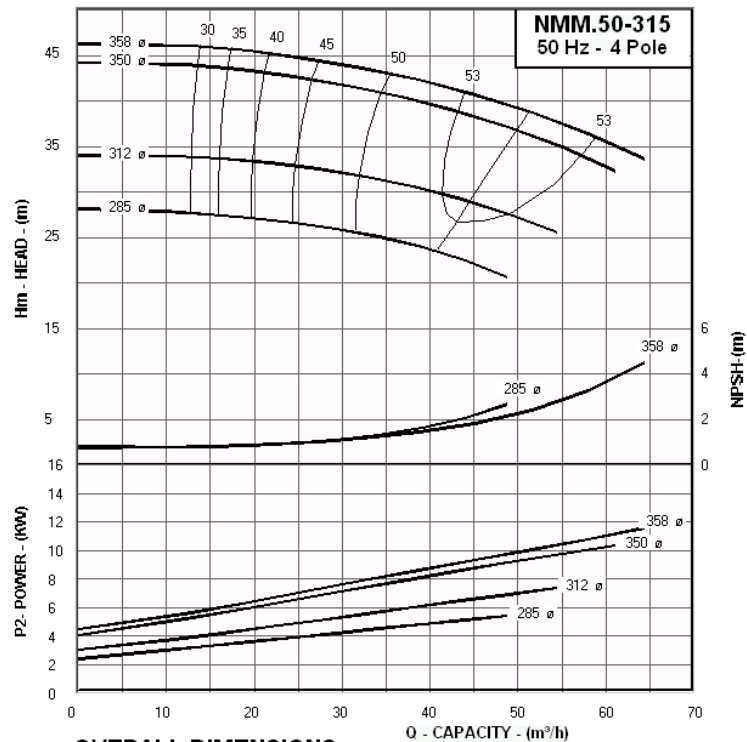
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 1450 rpm

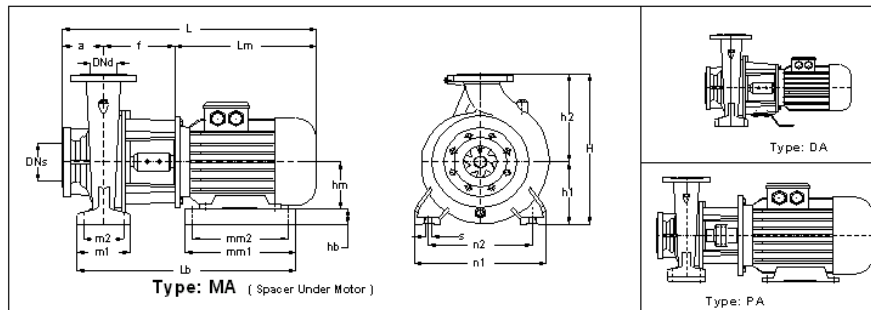


TECHNICAL DATA : NMM.50-315 - 50 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM.50-315 (1450 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM.50-315/ 1504	358	160L4	15	915	MA	80	50	125	240	528	225	280	160	125	95	345	280	12	893	505
NMM.50-315/ 1104	350	160M4	11	915	MA	80	50	125	240	484	225	280	160	125	95	345	280	12	849	505
NMM.50-315/ 754	312	132M4	7.5	914	MA	80	50	125	215	413	225	280	132	125	95	345	280	12	753	505
NMM.50-315/ 554	285	132S4	5.5	914	MA	80	50	125	215	375	225	280	132	125	95	345	280	12	715	505

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM.50-315/ 1504	358	30	ML4b	B4.12	-
NMM.50-315/ 1104	350	30	ML4b	B4.12	-
NMM.50-315/ 754	312	30	ML4a	B4.1k	T7
NMM.50-315/ 554	285	30	ML4a	B4.1k	T7

Flange Dimensions

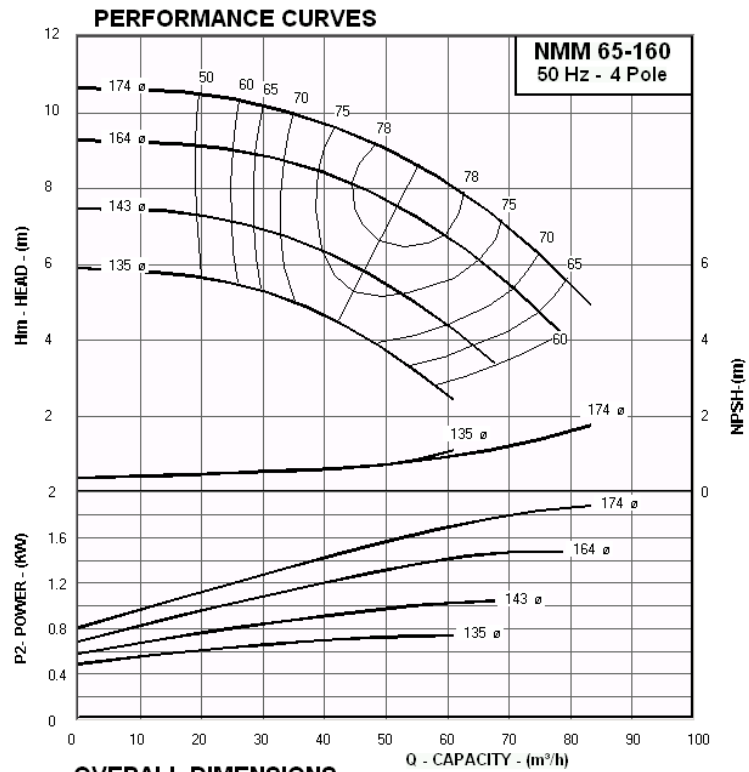
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
50	165	125	18	4

MAS NMM - Close Coupled Centrifugal Pumps

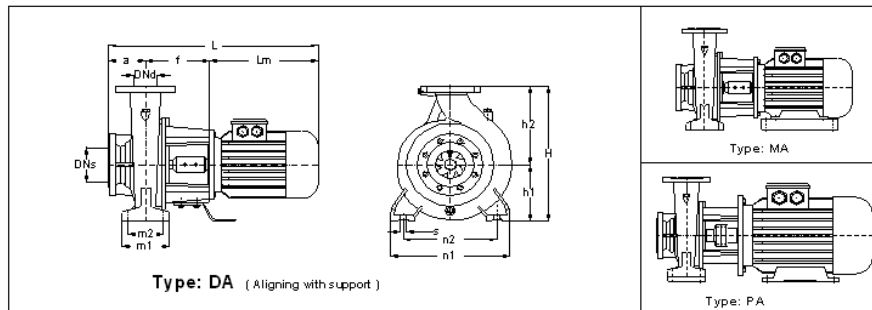
Performance Curves - 50 Hz - 1450 rpm



TECHNICAL DATA : NMM 65-160 - 50 Hz - 4 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 65-160 (1420 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 65-160/ 224	174	100L4	2.2	213	DA	80	65	100	180	305	160	200	100	125	95	280	212	12	585	360
NMM 65-160/ 154	164	90L 4	1.5	212	DA	80	65	100	160	275	160	200	90	125	95	280	212	12	535	360
NMM 65-160/ 114	143	90S 4	1.1	212	DA	80	65	100	160	250	160	200	90	125	95	280	212	12	510	360
NMM 65-160/074	135	80 4b	0.75	211	DA	80	65	100	160	233	160	200	80	125	95	280	212	12	493	360

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 65-160/ 224	174	20	ML1c	A1.21	F 1
NMM 65-160/ 154	164	20	ML1b	A1.21	-
NMM 65-160/ 114	143	20	ML1b	A1.21	-
NMM 65-160/074	135	20	ML1k	A1.2k	T 1

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
65	185	145	18	4

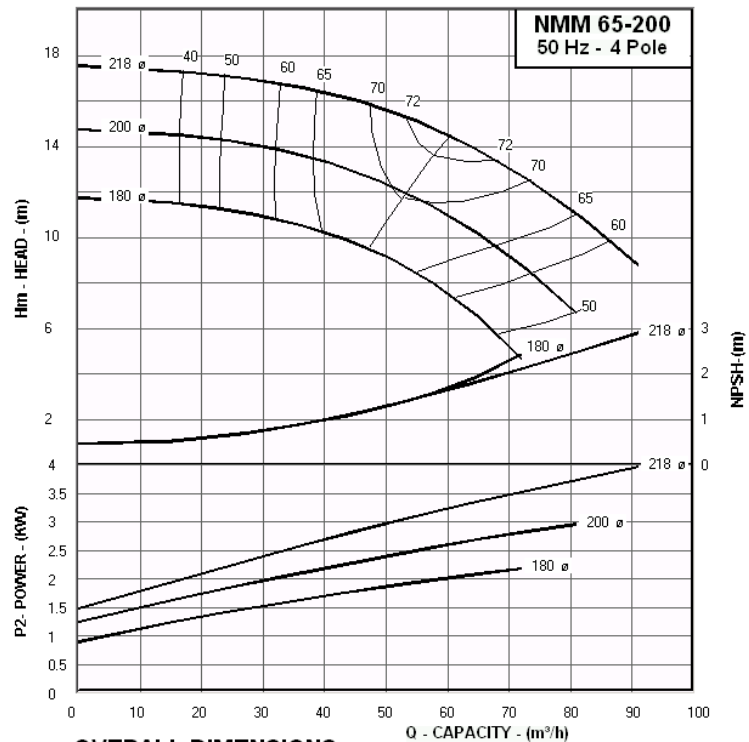
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 1450 rpm

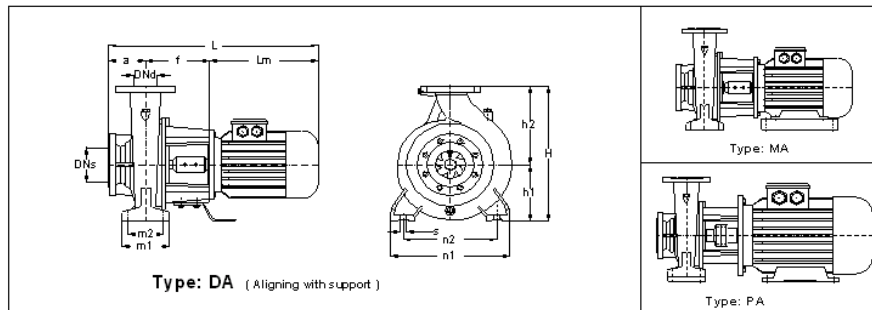


TECHNICAL DATA : NMM 65-200 - 50 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 65-200 (1440 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 65-200/ 404	218	112M4	4	343	DA	80	65	100	180	324	180	225	112	125	95	320	250	12	604	405
NMM 65-200/ 304	200	100L4	3	343	DA	80	65	100	180	305	180	225	100	125	95	320	250	12	585	405
NMM 65-200/ 224	180	100L4	2.2	343	DA	80	65	100	180	305	180	225	100	125	95	320	250	12	585	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 65-200/ 404	218	20	ML1c	A2.21	-
NMM 65-200/ 304	200	20	ML1c	A2.21	-
NMM 65-200/ 224	180	20	ML1c	A2.21	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
65	185	145	18	4

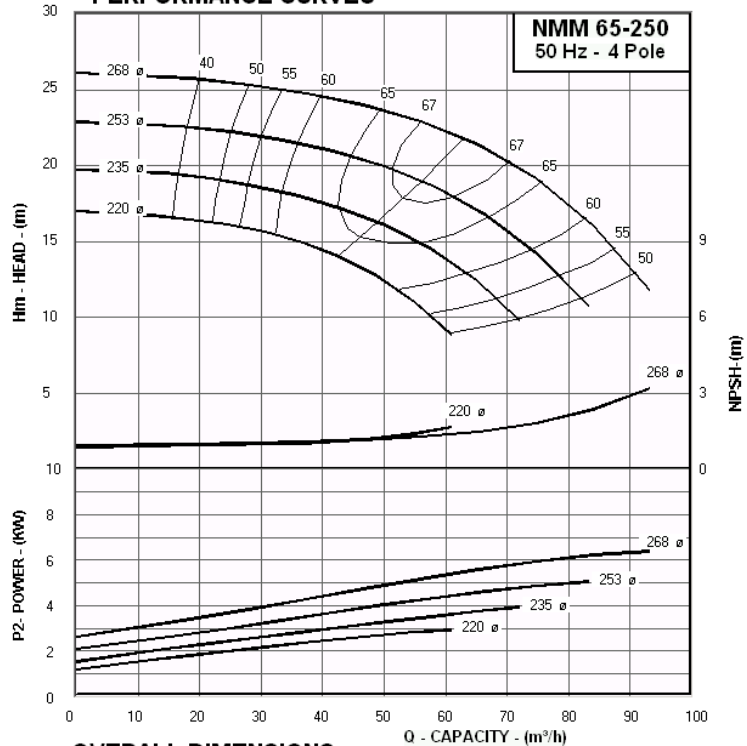
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 1450 rpm

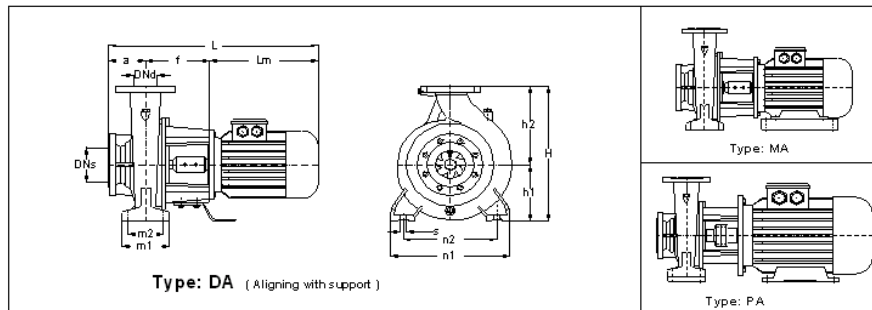


TECHNICAL DATA : NMM 65-250 - 50 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 65-250 (1450 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 65-250/ 754	268	132M4	7.5	614	MA	80	65	100	215	413	200	250	132	160	120	360	280	16	728	450
NMM 65-250/ 554	253	132S4	5.5	614	MA	80	65	100	215	375	200	250	132	160	120	360	280	16	690	450
NMM 65-250/ 404	235	112M4	4	613	DA	80	65	100	180	324	200	250	112	160	120	360	280	16	604	450
NMM 65-250/ 304	220	100L4	3	613	DA	80	65	100	180	305	200	250	100	160	120	360	280	16	585	450

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 65-250/ 754	268	30	ML4a	B2.12	-
NMM 65-250/ 554	253	30	ML4a	B2.12	-
NMM 65-250/ 404	235	20	ML1c	A3.11	-
NMM 65-250/ 304	220	20	ML1c	A3.11	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
65	185	145	18	4

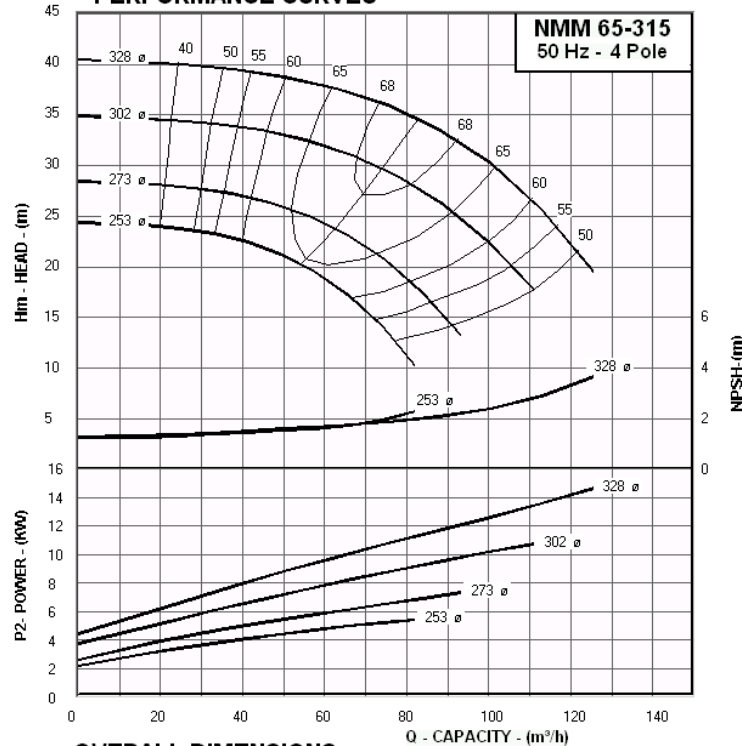
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 1450 rpm

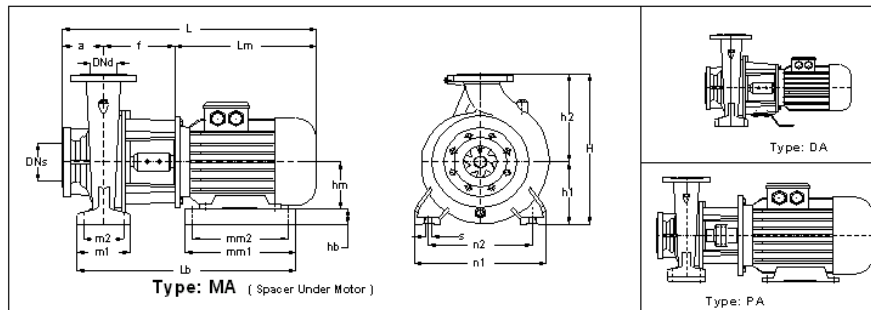


TECHNICAL DATA : NMM 65-315 - 50 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 65-315 (1450 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 65-315/ 1504	328	160L4	15	715	MA	80	65	125	240	528	225	280	160	160	120	400	315	16	893	505
NMM 65-315/ 1104	302	160M4	11	715	MA	80	65	125	240	484	225	280	160	160	120	400	315	16	849	505
NMM 65-315/ 754	273	132M4	7.5	714	MA	80	65	125	215	413	225	280	132	160	120	400	315	16	753	505
NMM 65-315/ 554	253	132S4	5.5	714	MA	80	65	125	215	375	225	280	132	160	120	400	315	16	715	505

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 65-315/ 1504	328	30	ML4b	B3.12	-
NMM 65-315/ 1104	302	30	ML4b	B3.12	-
NMM 65-315/ 754	273	30	ML4a	B3.02	-
NMM 65-315/ 554	253	30	ML4a	B3.02	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
65	185	145	18	4

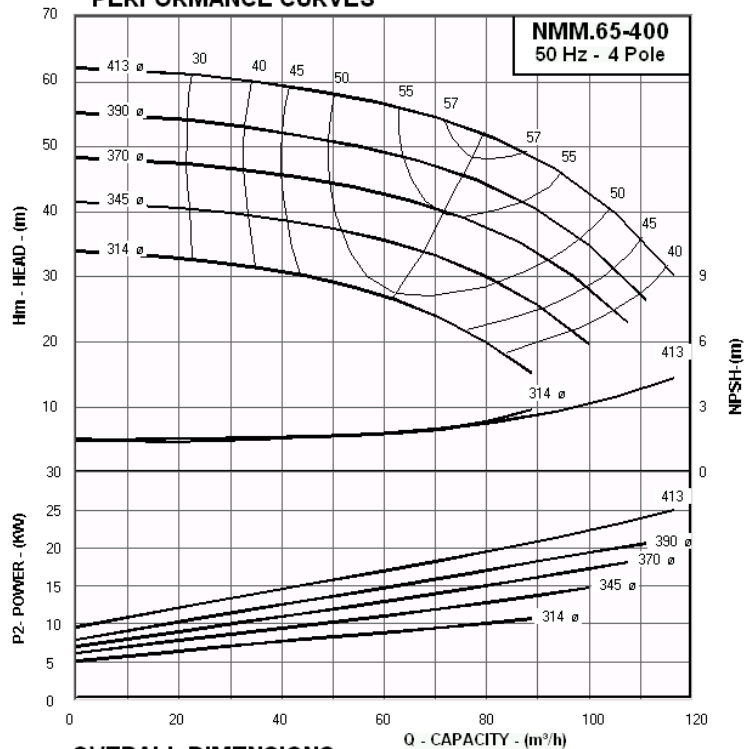
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 1450 rpm

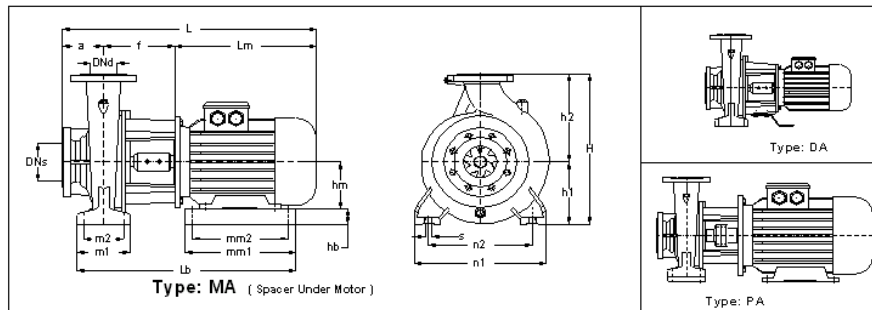


TECHNICAL DATA : NMM.65-400 - 50 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM.65-400 (1455 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM.65-400/ 3004	413	200L4	30	927	MA	100	65	125	270	637	250	355	200	160	120	400	315	16	1032	605
NMM.65-400/ 2204	390	180L4	22	926	MA	100	65	125	240	582	250	355	180	160	120	400	315	16	947	605
NMM.65-400/ 1854	370	180M4	18.5	926	MA	100	65	125	240	544	250	355	180	160	120	400	315	16	909	605
NMM.65-400/ 1504	345	160L4	15	925	MA	100	65	125	240	528	250	355	160	160	120	400	315	16	893	605
NMM.65-400/ 1104	314	160M4	11	925	MA	100	65	125	240	484	250	355	160	160	120	400	315	16	849	605

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM.65-400/ 3004	413	35	ML8 + K6	B5.1	F9
NMM.65-400/ 2204	390	30	ML4c	B5.1	-
NMM.65-400/ 1854	370	30	ML4c	B5.1	-
NMM.65-400/ 1504	345	30	ML4a	B5.1k	T7
NMM.65-400/ 1104	314	30	ML4a	B5.1k	T7

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
65	185	145	18	4

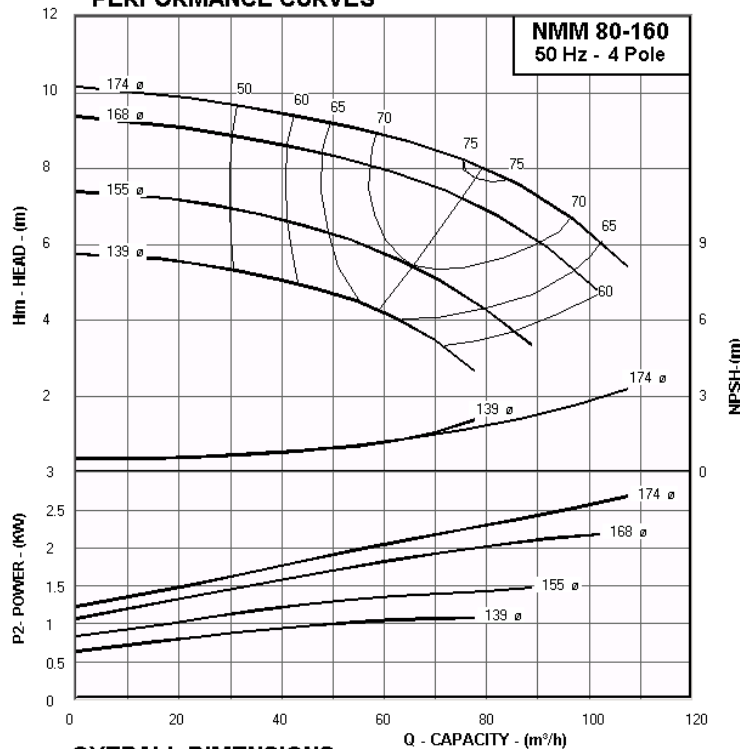
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 1450 rpm

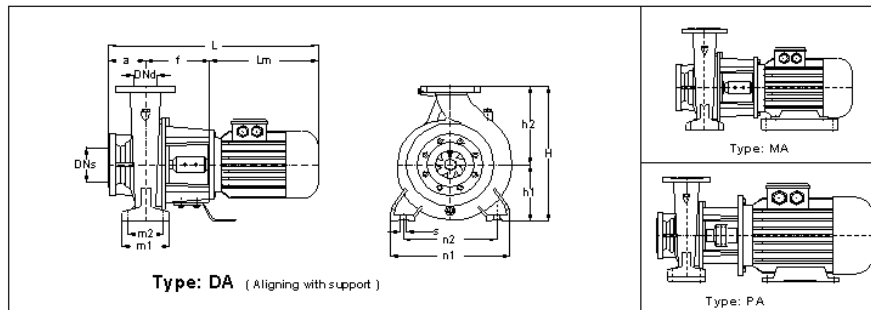


TECHNICAL DATA : NMM 80-160 - 50 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 80-160 (1430 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 80-160/ 304	174	100L4	3	223	DA	100	80	125	180	305	180	225	100	125	95	320	250	12	610	405
NMM 80-160/ 224	168	100L4	2.2	223	DA	100	80	125	180	305	180	225	100	125	95	320	250	12	610	405
NMM 80-160/ 154	155	90L 4	1.5	222	DA	100	80	125	160	275	180	225	90	125	95	320	250	12	560	405
NMM 80-160/ 114	139	90S 4	1.1	222	DA	100	80	125	160	250	180	225	90	125	95	320	250	12	535	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 80-160/ 304	174	20	ML1c	A1.21	F 1
NMM 80-160/ 224	168	20	ML1c	A1.21	F 1
NMM 80-160/ 154	155	20	ML1b	A1.21	-
NMM 80-160/ 114	139	20	ML1b	A1.21	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
80	200	160	18	8

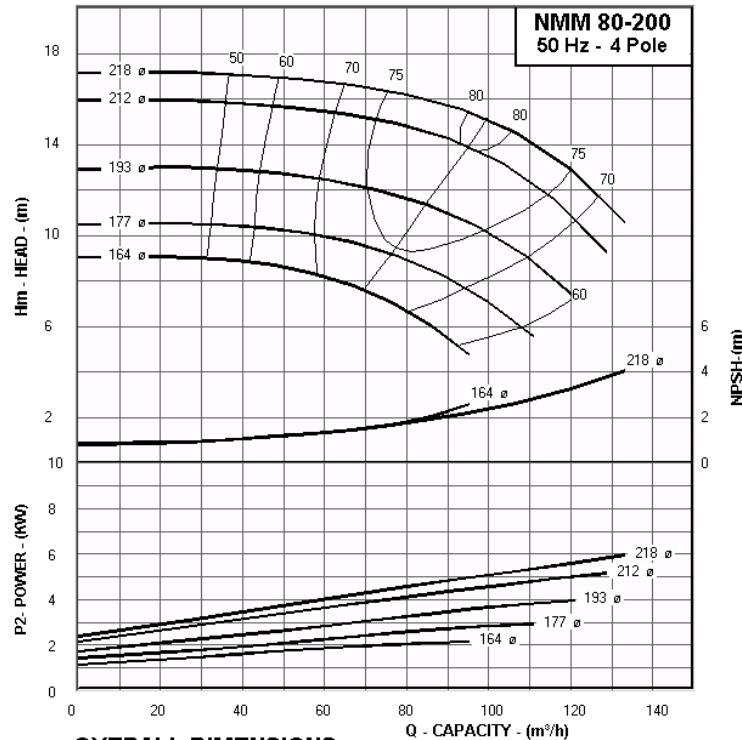
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 1450 rpm

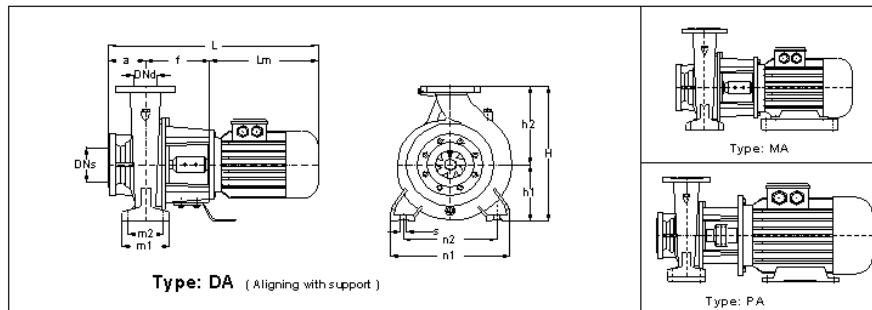


TECHNICAL DATA : NMM 80-200 - 50 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 80-200 (1450 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 80-200/ 754	218	132M4	7.5	514	MA	100	80	125	215	413	180	250	132	125	95	345	280	12	753	430
NMM 80-200/ 554	212	132S4	5.5	514	MA	100	80	125	215	375	180	250	132	125	95	345	280	12	715	430
NMM 80-200/ 404	193	112M4	4	513	DA	100	80	125	190	324	180	250	112	125	95	345	280	12	639	430
NMM 80-200/ 304	177	100L4	3	513	DA	100	80	125	190	305	180	250	100	125	95	345	280	12	620	430
NMM 80-200/ 224	164	100L4	2.2	513	DA	100	80	125	190	305	180	250	100	125	95	345	280	12	620	430

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 80-200/ 754	218	30	ML4a	B1.12	F4
NMM 80-200/ 554	212	30	ML4a	B1.12	F4
NMM 80-200/ 404	193	30	ML3	B1.12	-
NMM 80-200/ 304	177	30	ML3	B1.12	-
NMM 80-200/ 224	164	30	ML3	B1.12	-

Flange Dimensions

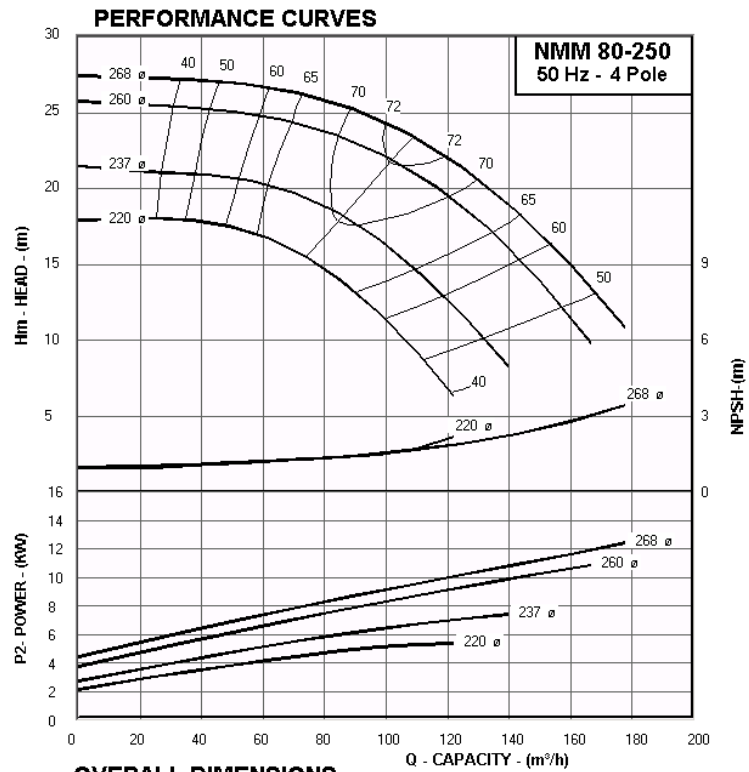
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
80	200	160	18	8

MAS NMM - Close Coupled Centrifugal Pumps

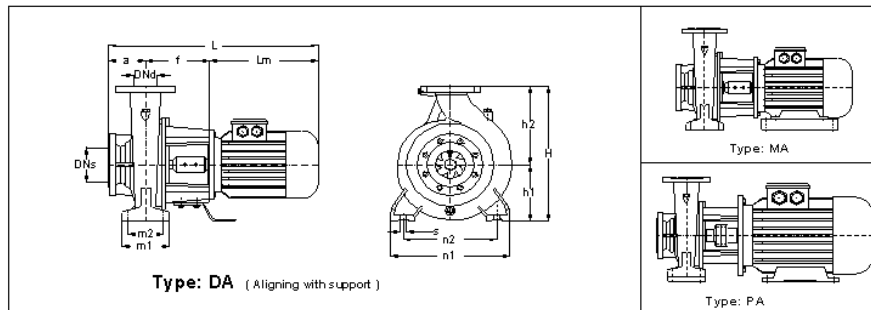
Performance Curves - 50 Hz - 1450 rpm



TECHNICAL DATA : NMM 80-250 - 50 Hz - 4 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 80-250 (1450 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 80-250/ 1504	268	160L4	15	625	MA	100	80	125	240	528	200	280	160	160	120	400	315	16	893	480
NMM 80-250/ 1104	260	160M4	11	625	MA	100	80	125	240	484	200	280	160	160	120	400	315	16	849	480
NMM 80-250/ 754	237	132M4	7.5	624	MA	100	80	125	215	413	200	280	132	160	120	400	315	16	753	480
NMM 80-250/ 554	220	132S4	5.5	624	MA	100	80	125	215	375	200	280	132	160	120	400	315	16	715	480

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 80-250/ 1504	268	30	ML4b	B.2.12	F7
NMM 80-250/ 1104	260	30	ML4b	B.2.12	F7
NMM 80-250/ 754	237	30	ML4a	B.2.12	-
NMM 80-250/ 554	220	30	ML4a	B.2.12	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
80	200	160	18	8

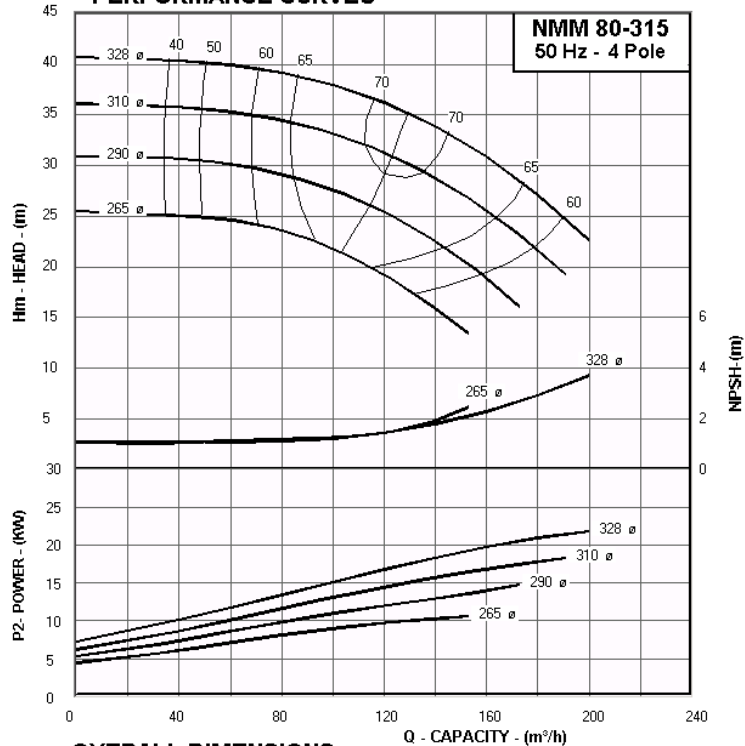
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 1450 rpm

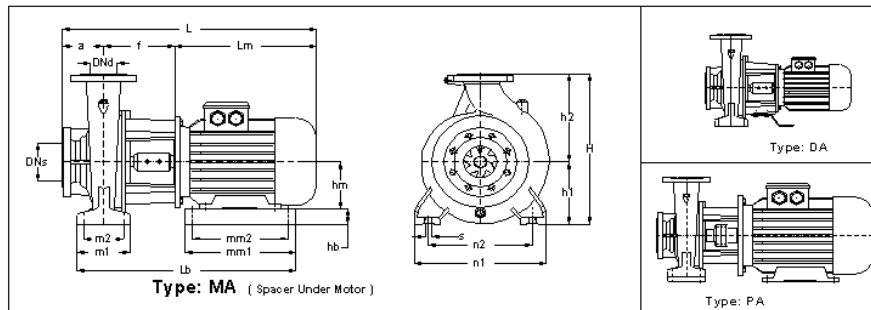


TECHNICAL DATA : NMM 80-315 - 50 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 80-315 (1455 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 80-315/ 2204	328	180L4	22	726	MA	100	80	125	240	582	250	315	180	160	120	400	315	16	947	565
NMM 80-315/ 1854	310	180M4	18.5	726	MA	100	80	125	240	544	250	315	180	160	120	400	315	16	909	565
NMM 80-315/ 1504	290	160L4	15	725	MA	100	80	125	240	528	250	315	160	160	120	400	315	16	893	565
NMM 80-315/ 1104	265	160M4	11	725	MA	100	80	125	240	484	250	315	160	160	120	400	315	16	849	565

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 80-315/ 2204	328	30	ML4k	B3.12	-
NMM 80-315/ 1854	310	30	ML4k	B3.12	-
NMM 80-315/ 1504	290	30	ML4b	B3.12	-
NMM 80-315/ 1104	265	30	ML4b	B3.12	-

Flange Dimensions

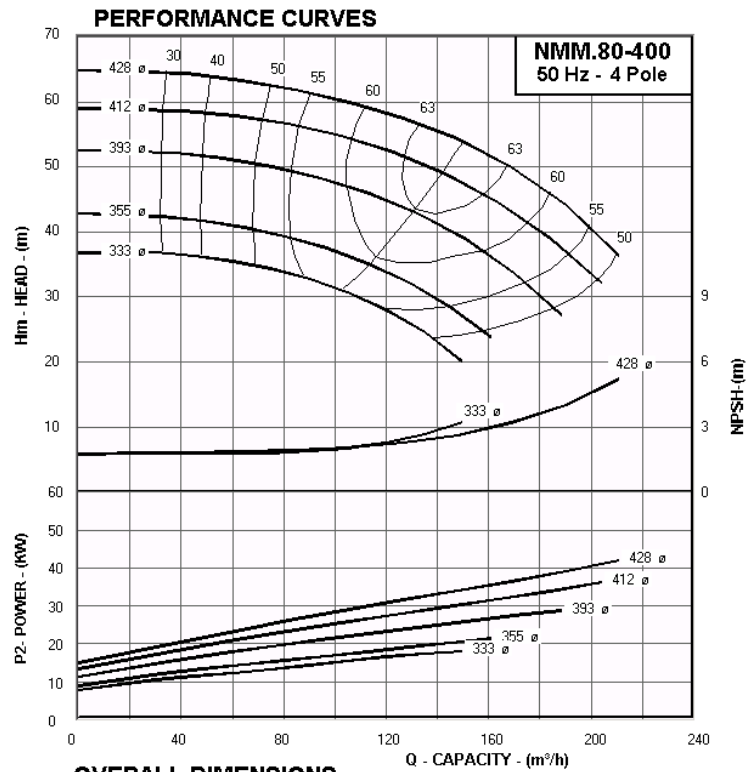
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
80	200	160	18	8

MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 1450 rpm



TECHNICAL DATA : NMM.80-400 - 50 Hz - 4 Pole



DIMENSIONS TABLE. NMM.80-400 (1460 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM.80-400/ 4504	428	225M4	45	938	MA	100	80	125	330	680	280	355	225	200	150	500	400	20	1135	635
NMM.80-400/ 3704	412	225S4	37	938	MA	100	80	125	330	655	280	355	225	200	150	500	400	20	1110	635
NMM.80-400/ 3004	393	200L4	30	937	MA	100	80	125	280	637	280	355	200	200	150	500	400	20	1042	635
NMM.80-400/ 2204	355	180L4	22	936	MA	100	80	125	250	582	280	355	180	200	150	500	400	20	957	635
NMM.80-400/ 1854	333	180M4	18.5	936	MA	100	80	125	250	544	280	355	180	200	150	500	400	20	919	635

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM.80-400/ 4504	428	45	ML11 + K7	C3.1	F10
NMM.80-400/ 3704	412	45	ML11 + K7	C3.1	F10
NMM.80-400/ 3004	393	45	ML10 + K6	C3.1	F9
NMM.80-400/ 2204	355	45	ML4f	C3.1	-
NMM.80-400/ 1854	333	45	ML4f	C3.1	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
80	200	160	18	8

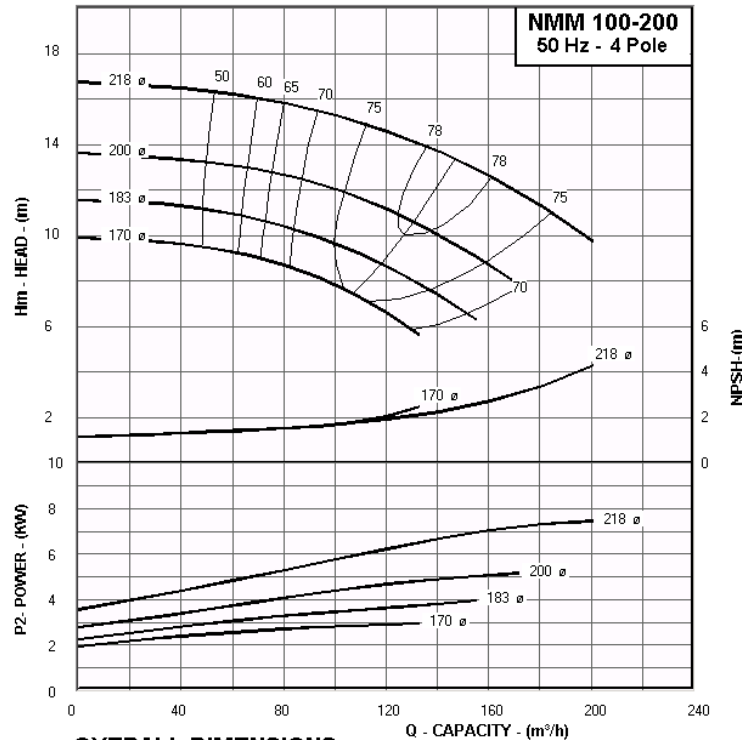
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 1450 rpm

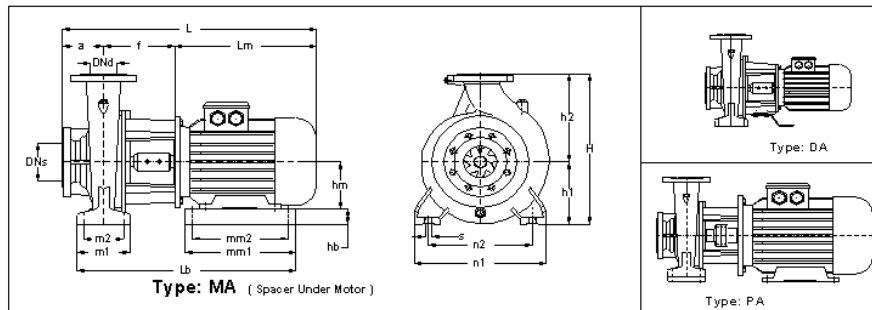


TECHNICAL DATA : NMM 100-200 - 50 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 100-200 (1450 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 100-200/ 754	218	132M4	7.5	524	MA	125	100	125	215	413	200	280	132	160	120	360	280	16	753	480
NMM 100-200/ 554	200	132S4	5.5	524	MA	125	100	125	215	375	200	280	132	160	120	360	280	16	715	480
NMM 100-200/ 404	183	112M4	4	523	DA	125	100	125	190	324	200	280	112	160	120	360	280	16	639	480
NMM 100-200/ 304	170	100L4	3	523	DA	125	100	125	190	305	200	280	100	160	120	360	280	16	620	480

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 100-200/ 754	218	30	ML4a	B1.12	F4
NMM 100-200/ 554	200	30	ML4a	B1.12	F4
NMM 100-200/ 404	183	30	ML3	B1.12	-
NMM 100-200/ 304	170	30	ML3	B1.12	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
125	250	210	18	8
100	220	180	18	8

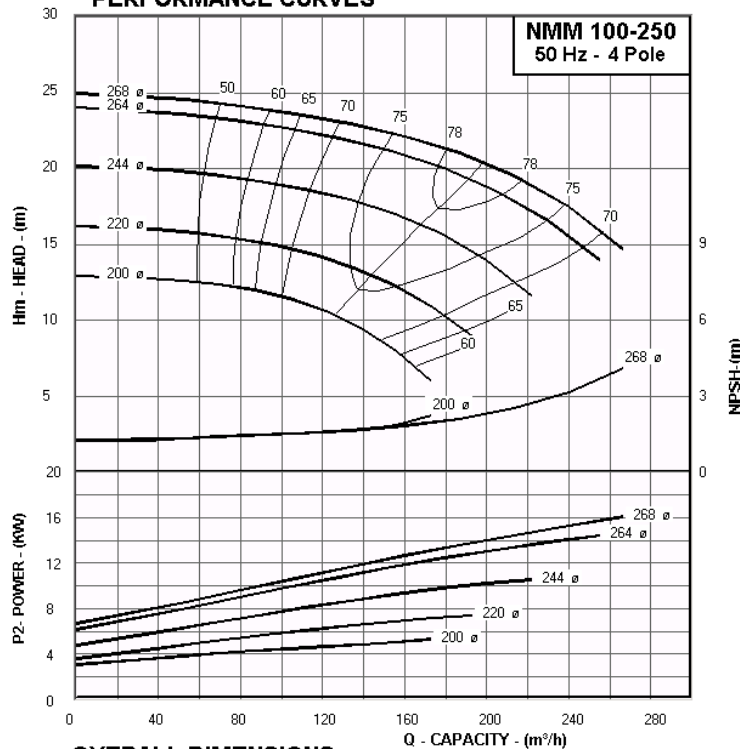
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 1450 rpm

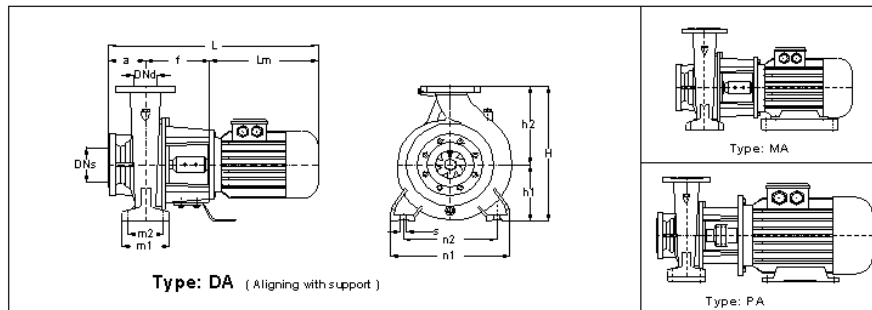


TECHNICAL DATA : NMM 100-250 - 50 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 100-250 (1450 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM 100-250/1854	268	180M4	18.5	636	MA	125	100	140	240	544	225	280	180	160	120	400	315	16	924	505
NMM 100-250/1504	264	160L4	15	635	MA	125	100	140	240	528	225	280	160	160	120	400	315	16	908	505
NMM 100-250/1104	244	160M4	11	635	MA	125	100	140	240	484	225	280	160	160	120	400	315	16	864	505
NMM 100-250/754	220	132M4	7.5	634	MA	125	100	140	215	413	225	280	132	160	120	400	315	16	768	505
NMM 100-250/554	200	132S4	5.5	634	MA	125	100	140	215	375	225	280	132	160	120	400	315	16	730	505

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 100-250/1854	268	30	ML4c	B2.12	F7
NMM 100-250/1504	264	30	ML4b	B2.12	F7
NMM 100-250/1104	244	30	ML4b	B2.12	F7
NMM 100-250/754	220	30	ML4a	B2.12	-
NMM 100-250/554	200	30	ML4a	B2.12	-

Flange Dimensions

EN 1092-2 PN 16

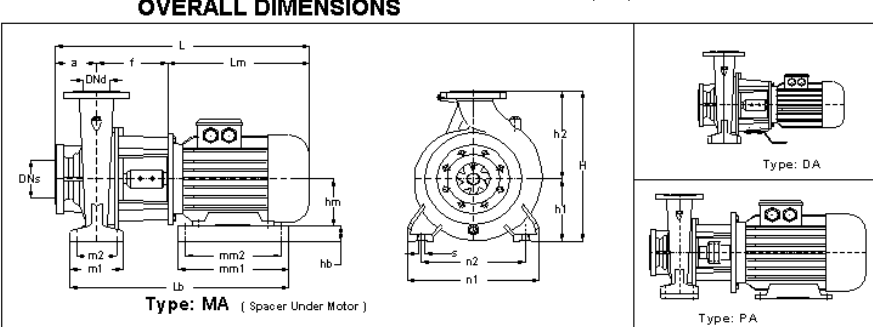
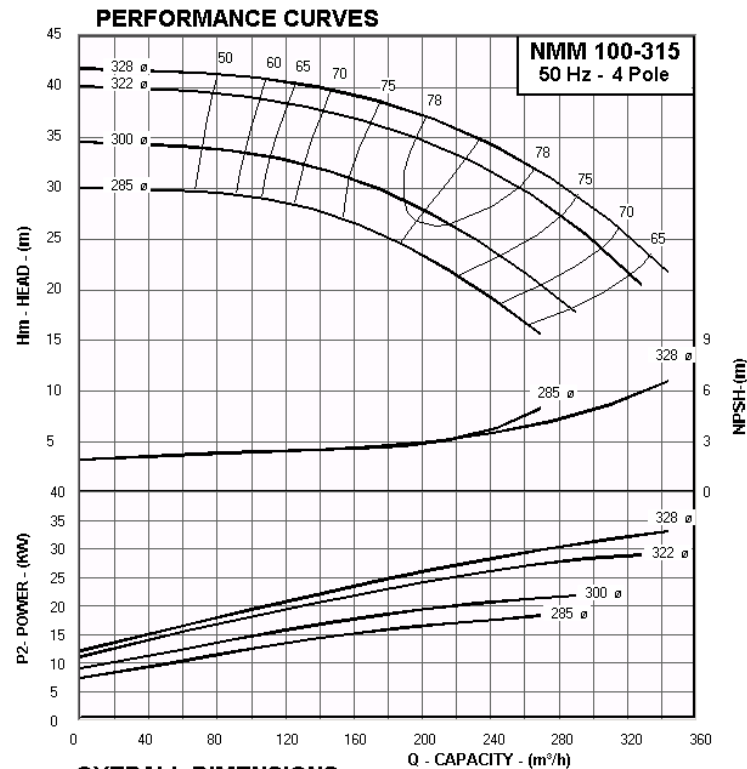
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
125	250	210	18	8
100	220	180	18	8

MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 1450 rpm



TECHNICAL DATA : NMM 100-315 - 50 Hz - 4 Pole



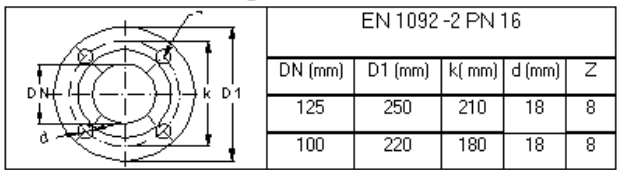
DIMENSIONS TABLE. NMM 100-315 (1460 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM 100-315/ 3704	328	225S4	37	738	MA	125	100	140	55	655	250	315	225	160	120	400	315	16	850	565
NMM 100-315/ 3004	322	200L4	30	737	MA	125	100	140	270	637	250	315	200	160	120	400	315	16	1047	565
NMM 100-315/ 2204	300	180L4	22	736	MA	125	100	140	240	582	250	315	180	160	120	400	315	16	962	565
NMM 100-315/ 1854	285	180M4	18.5	736	MA	125	100	140	240	544	250	315	180	160	120	400	315	16	924	565

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 100-315/ 3704	328	35	ML11a+K7a	B3.13	F10
NMM 100-315/ 3004	322	35	ML8 + K6	B3.13	F9
NMM 100-315/ 2204	300	30	ML4k	B3.12	-
NMM 100-315/ 1854	285	30	ML4k	B3.12	-

Flange Dimensions

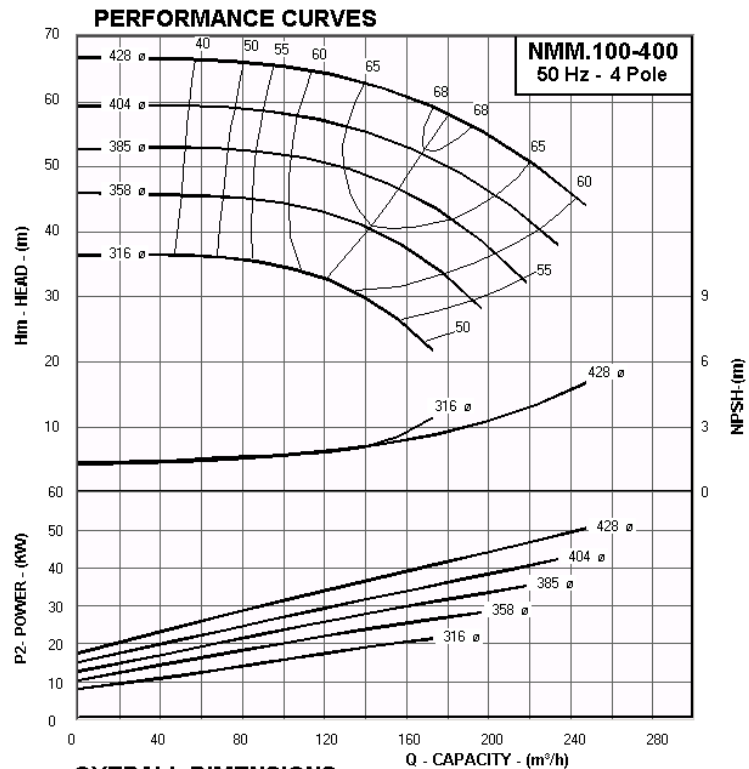


MAS NMM - Close Coupled Centrifugal Pumps

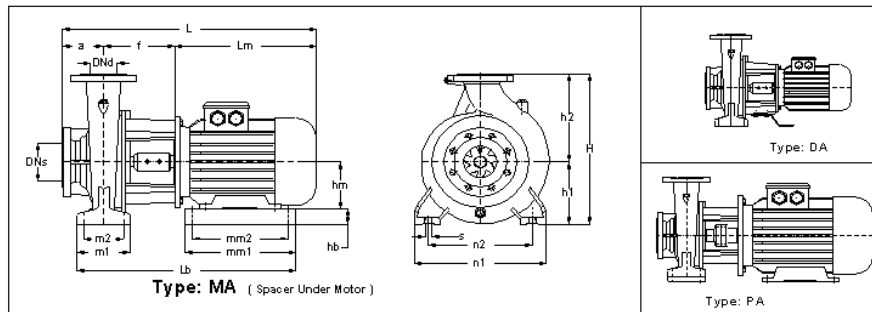
Performance Curves - 50 Hz - 1450 rpm



TECHNICAL DATA : NMM.100-400 - 50 Hz - 4 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM.100-400 (1485 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM.100-400/5504	428	250M4	55	949	MA	125	100	140	330	750	280	355	250	200	150	500	400	20	1220	635
NMM.100-400/4504	404	225M4	45	948	MA	125	100	140	330	680	280	355	225	200	150	500	400	20	1150	635
NMM.100-400/3704	385	225S4	37	948	MA	125	100	140	330	655	280	355	225	200	150	500	400	20	1125	635
NMM.100-400/3004	358	200L4	30	947	MA	125	100	140	280	637	280	355	200	200	150	500	400	20	1057	635
NMM.100-400/2204	316	180L4	22	946	MA	125	100	140	250	582	280	355	180	200	150	500	400	20	972	635

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM.100-400/5504	428	45	ML11 + K7	C3.1	F11
NMM.100-400/4504	404	45	ML11 + K7	C3.1	F10
NMM.100-400/3704	385	45	ML11 + K7	C3.1	F10
NMM.100-400/3004	358	45	ML10 + K6	C3.1	F9
NMM.100-400/2204	316	45	ML4f	C3.1	-

Flange Dimensions

EN 1092-2 PN 16

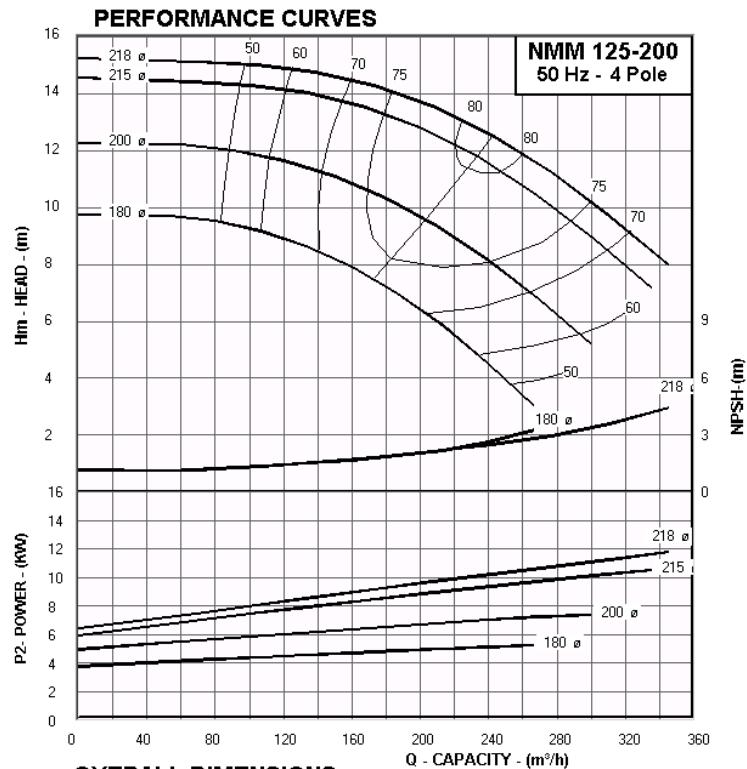
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
125	250	210	18	8
100	220	180	18	8

MAS NMM - Close Coupled Centrifugal Pumps

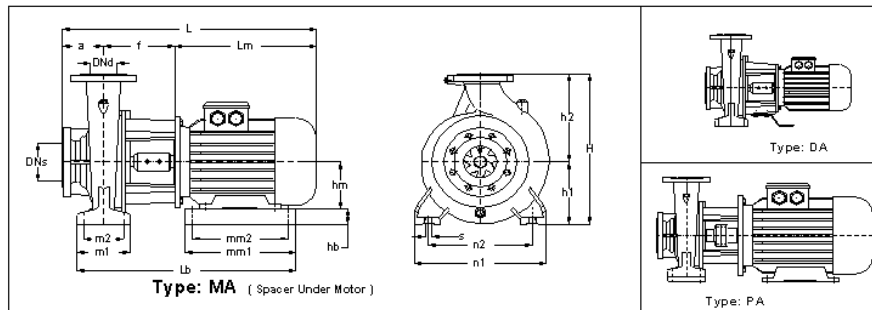
Performance Curves - 50 Hz - 1450 rpm



TECHNICAL DATA : NMM 125-200 - 50 Hz - 4 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 125-200 (1450 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 125-200/1504	218	160L4	15	535	MA	150	125	140	240	528	250	315	160	160	120	400	315	16	908	565
NMM 125-200/1104	215	160M4	11	535	MA	150	125	140	240	484	250	315	160	160	120	400	315	16	864	565
NMM 125-200/754	200	132M4	7.5	534	MA	150	125	140	215	413	250	315	132	160	120	400	315	16	768	565
NMM 125-200/554	180	132S4	5.5	534	MA	150	125	140	215	375	250	315	132	160	120	400	315	16	730	565

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 125-200/1504	218	30	ML4b	B1.12	F5
NMM 125-200/1104	215	30	ML4b	B1.12	F5
NMM 125-200/754	200	30	ML4a	B1.12	F4
NMM 125-200/554	180	30	ML4a	B1.12	F4

Flange Dimensions

EN 1092-2 PN 16

DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
150	285	240	23	8
125	250	210	18	8

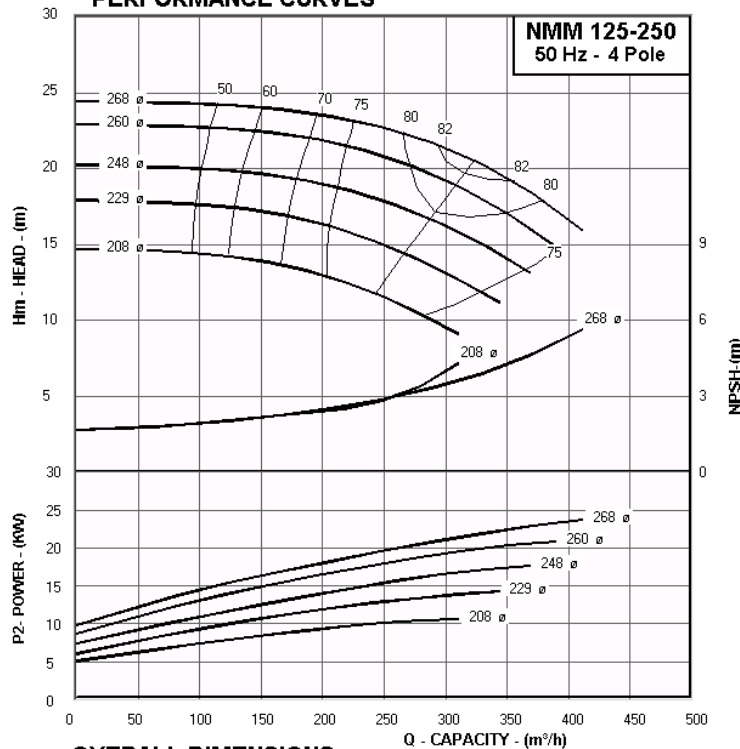
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 1450 rpm

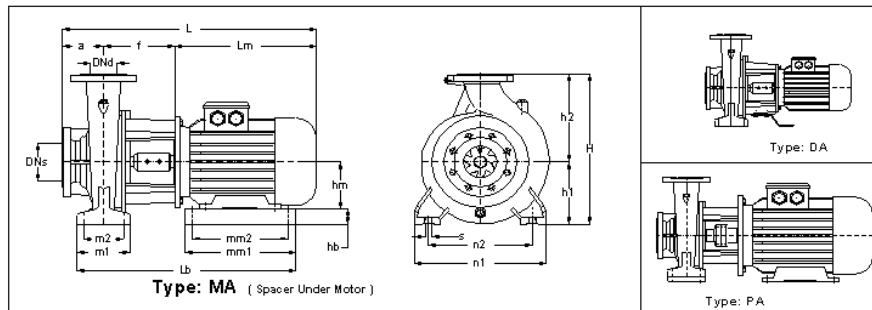


TECHNICAL DATA : NMM 125-250 - 50 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 125-250 (1455 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 125-250/3004	268	200L4	30	647	MA	150	125	140	280	637	250	355	200	160	120	400	315	16	1057	605
NMM 125-250/2204	260	180L4	22	646	MA	150	125	140	250	582	250	355	180	160	120	400	315	16	972	605
NMM 125-250/1854	248	180M4	18.5	646	MA	150	125	140	250	544	250	355	180	160	120	400	315	16	934	605
NMM 125-250/1504	229	160L4	15	645	MA	150	125	140	250	528	250	355	160	160	120	400	315	16	918	605
NMM 125-250/1104	208	160M4	11	645	MA	150	125	140	250	484	250	355	160	160	120	400	315	16	874	605

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 125-250/3004	268	35	ML8 + K6	B2.13	F8
NMM 125-250/2204	260	30	ML4c	B2.12	F7
NMM 125-250/1854	248	30	ML4c	B2.12	F7
NMM 125-250/1504	229	30	ML4b	B2.12	F7
NMM 125-250/1104	208	30	ML4b	B2.12	F7

Flange Dimensions

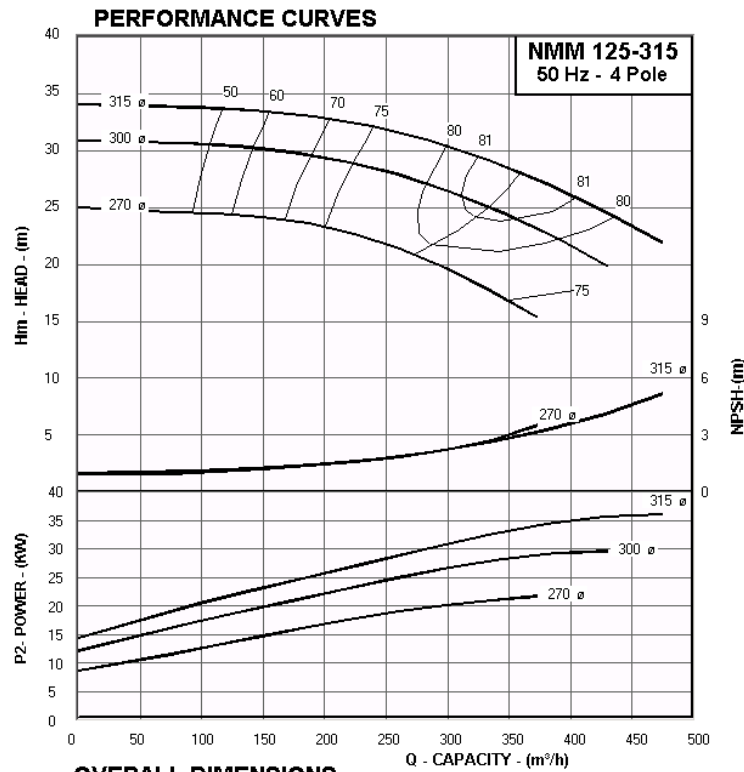
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
150	285	240	23	8
125	250	210	18	8

MAS NMM - Close Coupled Centrifugal Pumps

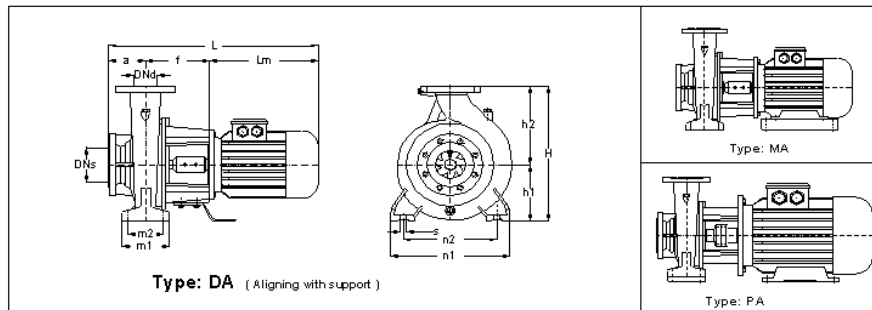
Performance Curves - 50 Hz - 1450 rpm



TECHNICAL DATA : NMM 125-315 - 50 Hz - 4 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 125-315 (1460 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 125-315/ 3704	315	225S4	37	818	MA	150	125	140	70	655	280	355	225	200	150	500	400	20	865	635
NMM 125-315/ 3004	300	200L4	30	817	MA	150	125	140	285	637	280	355	200	200	150	500	400	20	1062	635
NMM 125-315/ 2204	270	180L4	22	816	MA	150	125	140	255	582	280	355	180	200	150	500	400	20	977	635

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 125-315/ 3704	315	35	ML11b + K7a	C2.13	F10
NMM 125-315/ 3004	300	35	ML9 + K6	C2.13	F9
NMM 125-315/ 2204	270	30	ML6b	C2.12	-

Flange Dimensions

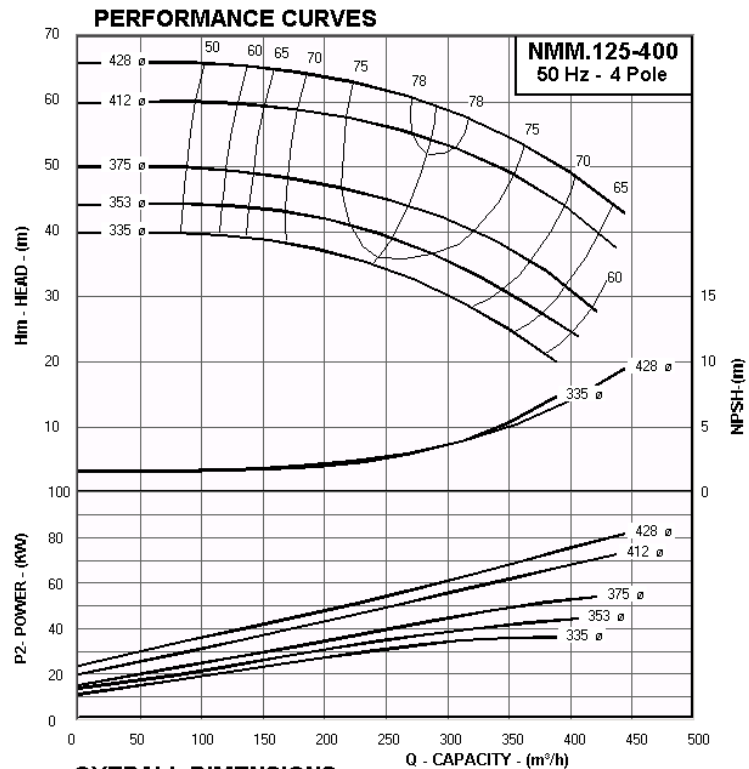
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
150	285	240	23	8
125	250	210	18	8

MAS NMM - Close Coupled Centrifugal Pumps

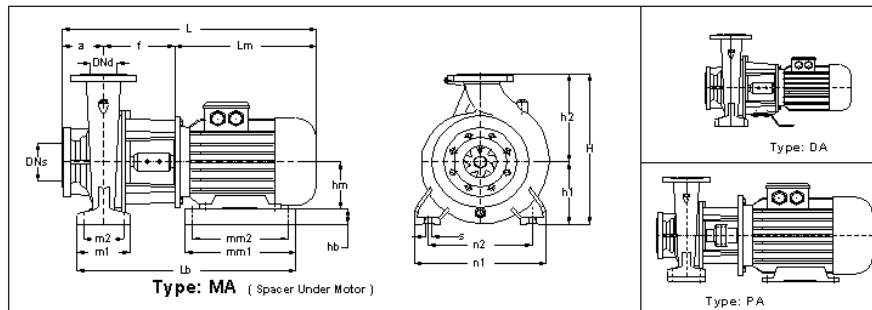
Performance Curves - 50 Hz - 1450 rpm



TECHNICAL DATA : NMM.125-400 - 50 Hz - 4 Pole



OVERALL DIMENSIONS



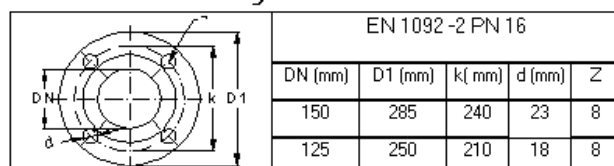
DIMENSIONS TABLE. NMM.125-400 (1480 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM.125-400/9004	428	280M4	90	9510	MA	150	125	140	330	870	315	400	280	200	150	500	400	20	1340	715
NMM.125-400/7504	412	280S4	75	9510	MA	150	125	140	330	818	315	400	280	200	150	500	400	20	1288	715
NMM.125-400/5504	375	250M4	55	959	MA	150	125	140	330	750	315	400	250	200	150	500	400	20	1220	715
NMM.125-400/4504	353	225M4	45	958	MA	150	125	140	330	680	315	400	225	200	150	500	400	20	1150	715
NMM.125-400/3704	335	225S4	37	958	MA	150	125	140	330	655	315	400	225	200	150	500	400	20	1125	715

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM.125-400/9004	428	45	ML11 + K8	C3.1	F11
NMM.125-400/7504	412	45	ML11 + K8	C3.1	F11
NMM.125-400/5504	375	45	ML11 + K7	C3.1	F11
NMM.125-400/4504	353	45	ML11 + K7	C3.1	F10
NMM.125-400/3704	335	45	ML11 + K7	C3.1	F10

Flange Dimensions



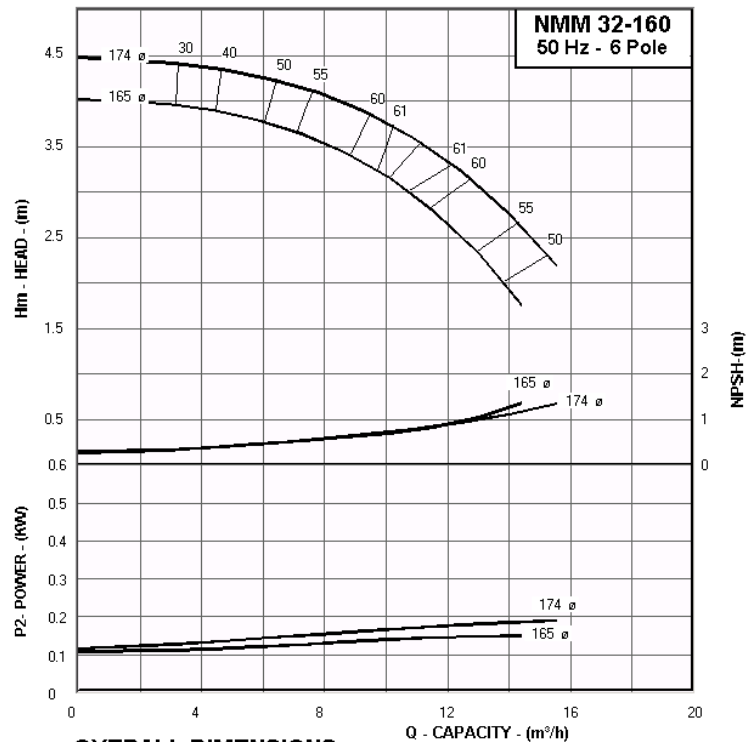
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 950 rpm

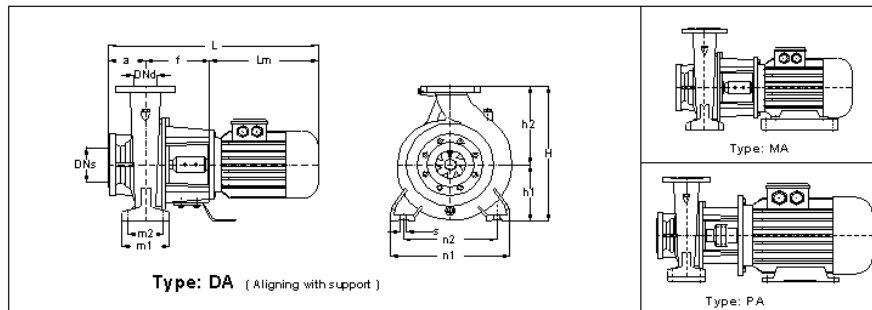


TECHNICAL DATA : NMM 32-160 - 50 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 32-160 (933 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 32-160/036	174	71 6b	0.25	110	DA	50	32	80	145	212	132	160	71	100	70	240	190	12	437	292
NMM 32-160/026	165	71 6a	0.18	110	DA	50	32	80	145	212	132	160	71	100	70	240	190	12	437	292

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 32-160/036	174	20	ML1k	A1.1k	T1
NMM 32-160/026	165	20	ML1k	A1.1k	T1

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
50	165	125	18	4
32	140	100	18	4

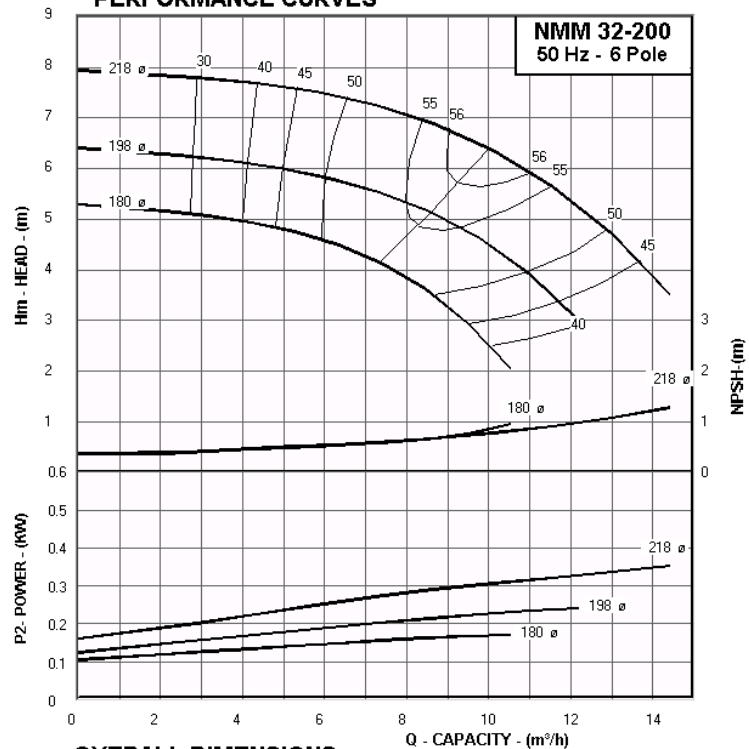
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 950 rpm

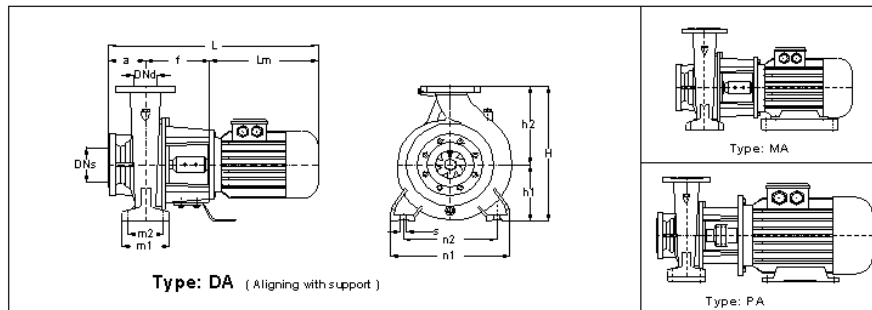


TECHNICAL DATA : NMM 32-200 - 50 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 32-200 (950 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 32-200/046	218	80 6a	0.37	311	DA	50	32	80	160	233	160	180	80	100	70	240	190	12	473	340
NMM 32-200/036	198	71 6b	0.25	310	DA	50	32	80	145	212	160	180	71	100	70	240	190	12	437	340
NMM 32-200/026	180	71 6a	0.18	310	DA	50	32	80	145	212	160	180	71	100	70	240	190	12	437	340

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 32-200/046	218	20	ML1a	A2.11	-
NMM 32-200/036	198	20	ML1k	A2.1k	T1
NMM 32-200/026	180	20	ML1k	A2.1k	T1

Flange Dimensions

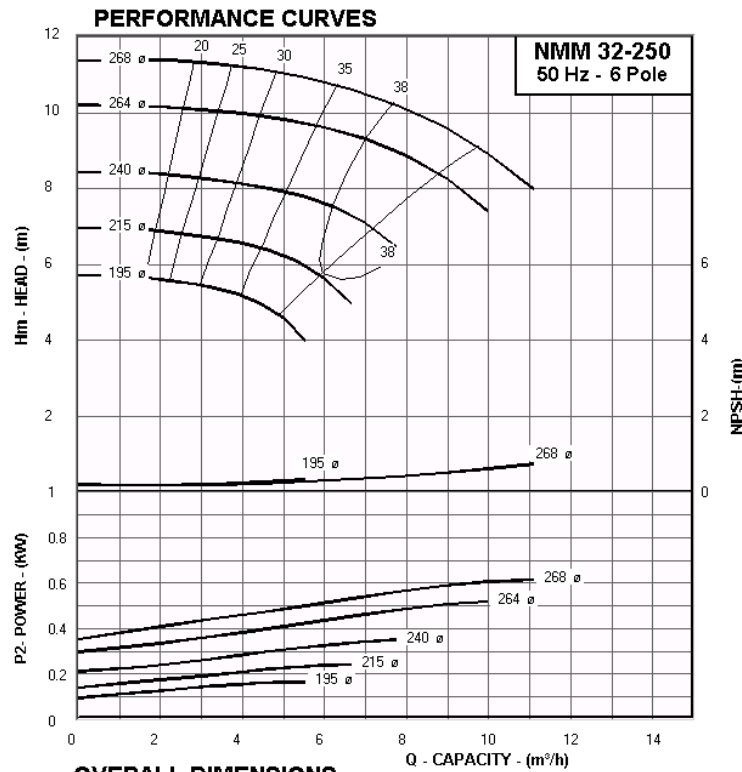
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
50	165	125	18	4
32	140	100	18	4

MAS NMM - Close Coupled Centrifugal Pumps

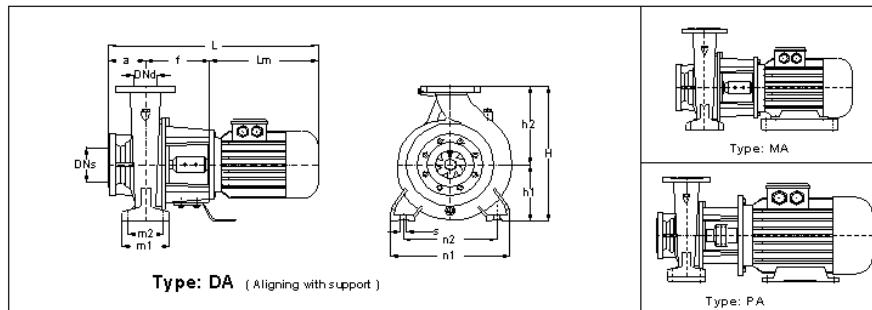
Performance Curves - 50 Hz - 950 rpm



TECHNICAL DATA : NMM 32-250 - 50 Hz - 6 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 32-250 (950 RPM)

Pump Size	Imp. ϕ	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 32-250/076	268	90S 6	0.75	412	DA	50	32	100	170	250	180	225	90	125	95	320	250	12	520	405
NMM 32-250/056	264	80 6b	0.55	411	DA	50	32	100	170	233	180	225	80	125	95	320	250	12	503	405
NMM 32-250/046	240	80 6a	0.37	411	DA	50	32	100	170	233	180	225	80	125	95	320	250	12	503	405
NMM 32-250/036	215	71 6b	0.25	410	DA	50	32	100	155	212	180	225	71	125	95	320	250	12	467	405
NMM 32-250/026	195	71 6a	0.18	410	DA	50	32	100	155	212	180	225	71	125	95	320	250	12	467	405

Main Part Codes

Pump Size	Imp. ϕ	Seal mm ϕ	Shaft and Coupling	Adapter	Flange
NMM 32-250/076	268	20	ML1b	A3.0A	-
NMM 32-250/056	264	20	ML1a	A3.0A	-
NMM 32-250/046	240	20	ML1a	A3.0A	-
NMM 32-250/036	215	20	ML1k	A3.0Ak	T1
NMM 32-250/026	195	20	ML1k	A3.0Ak	T1

Flange Dimensions

EN 1092-2 PN 16

DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
50	165	125	18	4
32	140	100	18	4

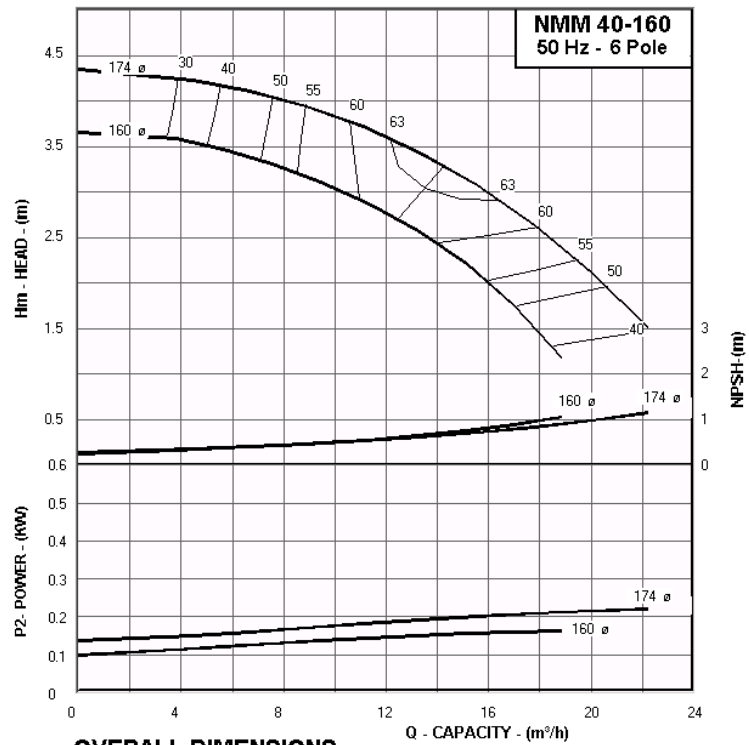
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 950 rpm

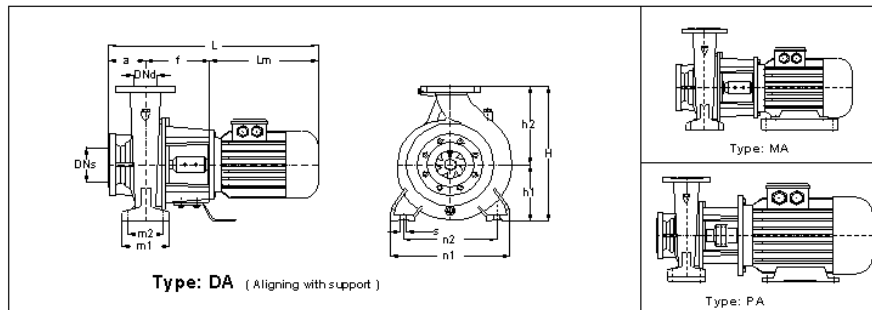


TECHNICAL DATA : NMM 40-160 - 50 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 40-160 (933 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 40-160/036	174	71 6b	0.25	120	DA	65	40	80	145	212	132	160	71	100	70	240	190	12	437	292
NMM 40-160/026	160	71 6a	0.18	120	DA	65	40	80	145	212	132	160	71	100	70	240	190	12	437	292

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 40-160/036	174	20	ML1k	A1.1k	T1
NMM 40-160/026	160	20	ML1k	A1.1k	T1

Flange Dimensions

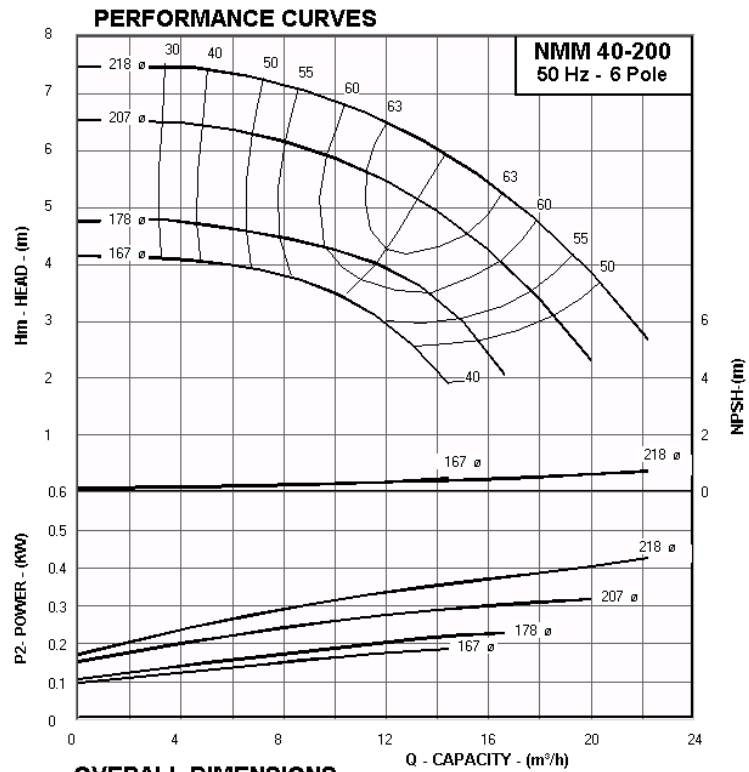
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
40	150	110	18	4

MAS NMM - Close Coupled Centrifugal Pumps

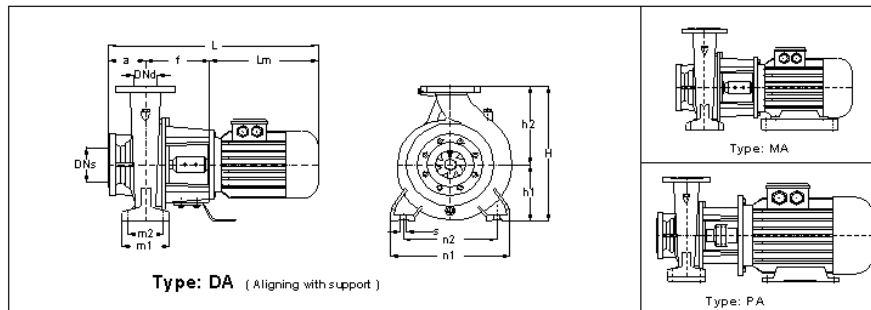
Performance Curves - 50 Hz - 950 rpm



TECHNICAL DATA : NMM 40-200 - 50 Hz - 6 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 40-200 (950 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 40-200/056	218	80 6b	0.55	321	DA	65	40	100	160	233	160	180	80	100	70	265	212	12	493	340
NMM 40-200/046	207	80 6a	0.37	321	DA	65	40	100	160	233	160	180	80	100	70	265	212	12	493	340
NMM 40-200/036	178	71 6b	0.25	320	DA	65	40	100	145	212	160	180	71	100	70	265	212	12	457	340
NMM 40-200/026	167	71 6a	0.18	320	DA	65	40	100	145	212	160	180	71	100	70	265	212	12	457	340

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 40-200/056	218	20	ML1a	A2.11	-
NMM 40-200/046	207	20	ML1a	A2.11	-
NMM 40-200/036	178	20	ML1k	A2.1k	T1
NMM 40-200/026	167	20	ML1k	A2.1k	T1

Flange Dimensions

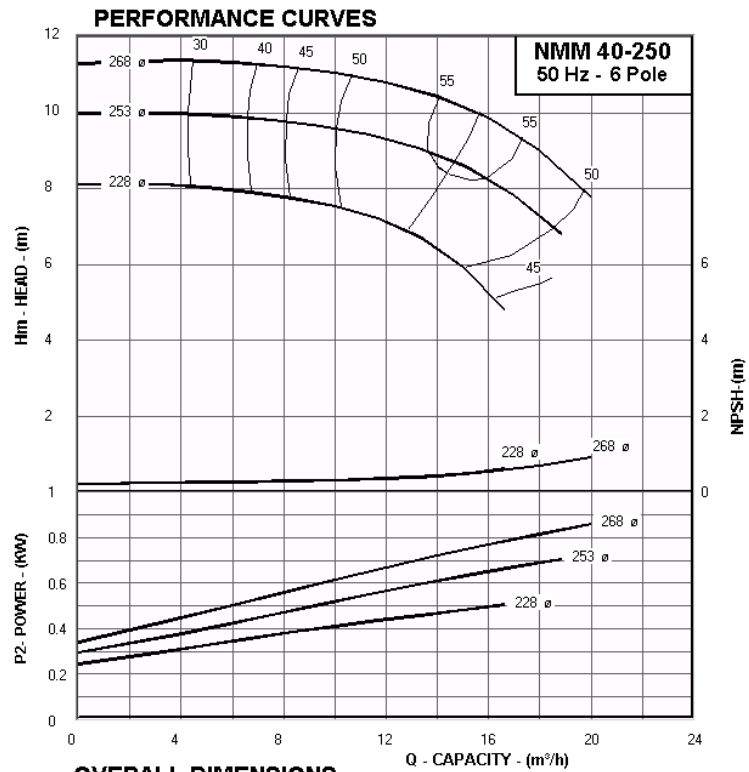
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
40	150	110	18	4

MAS NMM - Close Coupled Centrifugal Pumps

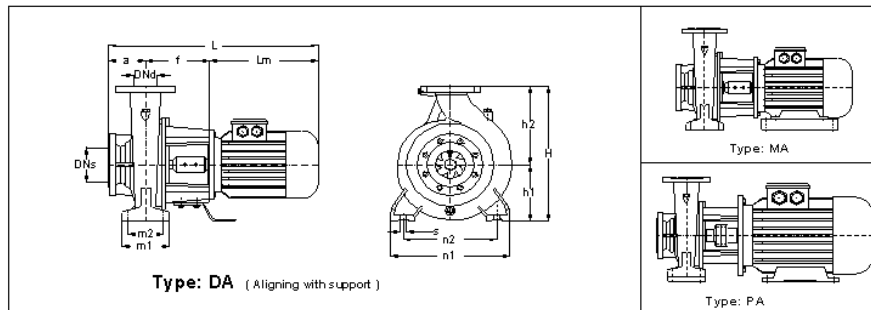
Performance Curves - 50 Hz - 950 rpm



TECHNICAL DATA : NMM 40-250 - 50 Hz - 6 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 40-250 (950 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 40-250/116	268	90L 6	1.1	422	DA	65	40	100	160	275	180	225	90	125	95	320	250	12	535	405
NMM 40-250/076	253	90S 6	0.75	422	DA	65	40	100	160	250	180	225	90	125	95	320	250	12	510	405
NMM 40-250/056	228	80 6b	0.55	421	DA	65	40	100	160	233	180	225	80	125	95	320	250	12	493	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 40-250/116	268	20	ML1b	A3.0B	-
NMM 40-250/076	253	20	ML1b	A3.0B	-
NMM 40-250/056	228	20	ML1a	A3.0B	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
40	150	110	18	4

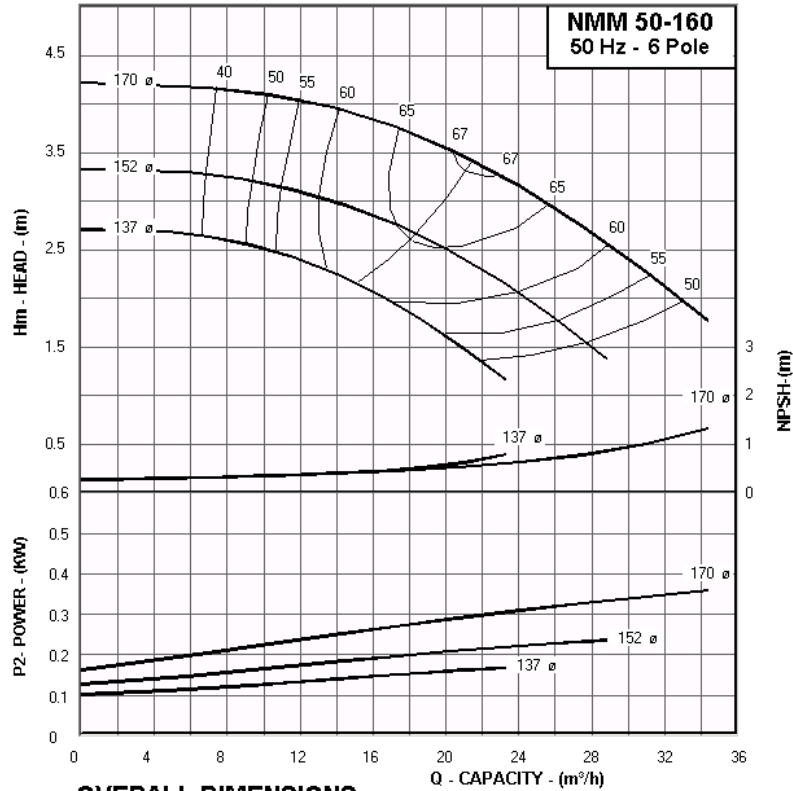
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 950 rpm

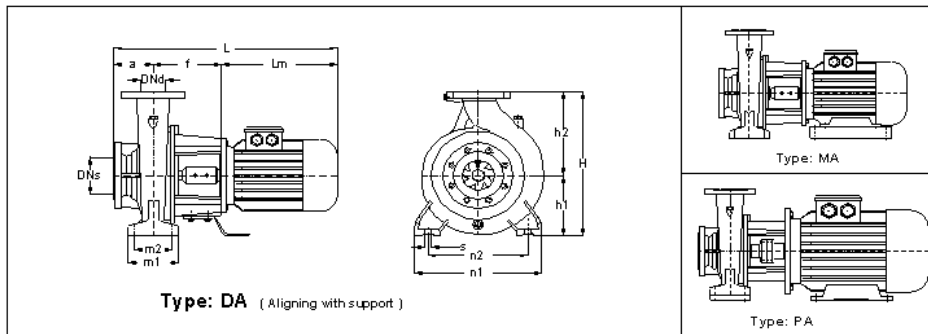


TECHNICAL DATA : NMM 50-160 - 50 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 50-160 (940 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 50-160/046	170	80 6a	0.37	131	DA	65	50	100	160	233	160	180	80	100	70	265	212	12	493	340
NMM 50-160/036	152	71 6b	0.25	130	DA	65	50	100	145	212	160	180	71	100	70	265	212	12	457	340
NMM 50-160/026	137	71 6a	0.18	130	DA	65	50	100	145	212	160	180	71	100	70	265	212	12	457	340

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 50-160/046	170	20	ML1a	A1.11	-
NMM 50-160/036	152	20	ML1k	A1.1k	T1
NMM 50-160/026	137	20	ML1k	A1.1k	T1

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
50	165	125	18	4

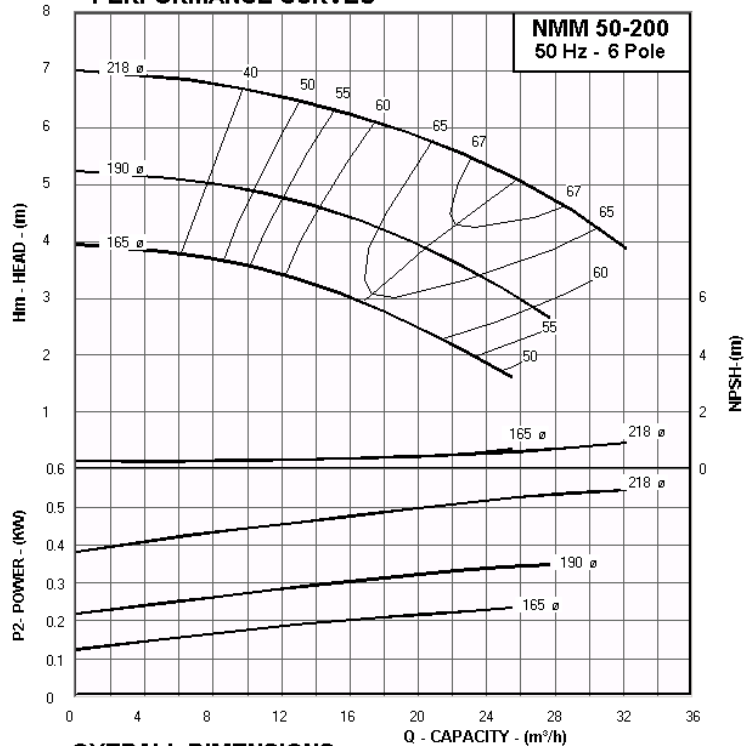
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 950 rpm

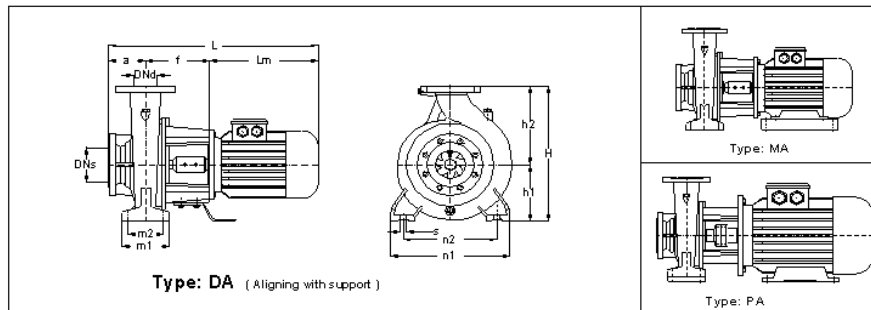


TECHNICAL DATA : NMM 50-200 - 50 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 50-200 (950 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 50-200/056	218	80 6b	0.55	331	DA	65	50	100	160	233	160	200	80	100	70	265	212	12	493	360
NMM 50-200/046	190	80 6a	0.37	331	DA	65	50	100	160	233	160	200	80	100	70	265	212	12	493	360
NMM 50-200/036	165	71 6b	0.25	330	DA	65	50	100	145	212	160	200	71	100	70	265	212	12	457	360

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 50-200/056	218	20	ML1a	A2.11	-
NMM 50-200/046	190	20	ML1a	A2.11	-
NMM 50-200/036	165	20	ML1k	A2.1k	T1

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
50	165	125	18	4

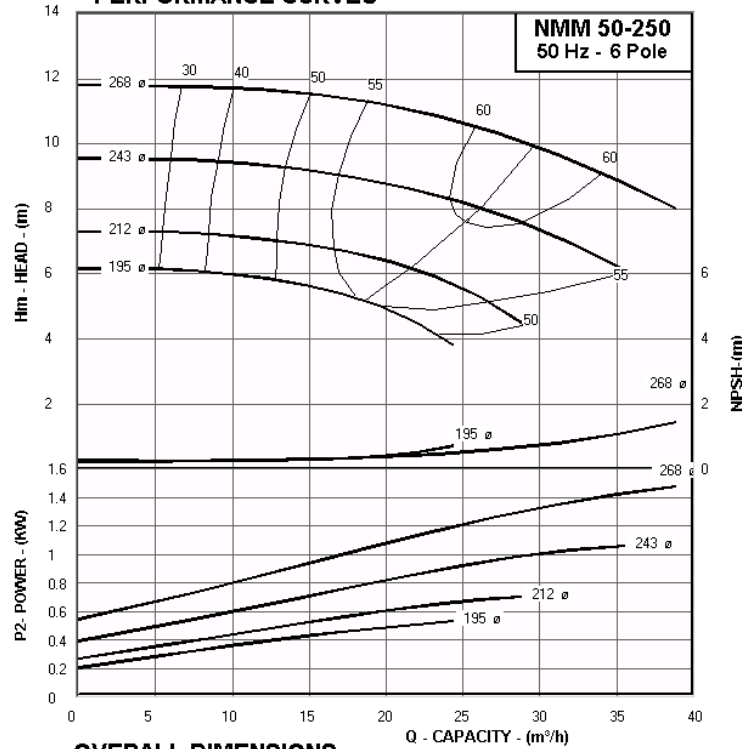
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 950 rpm

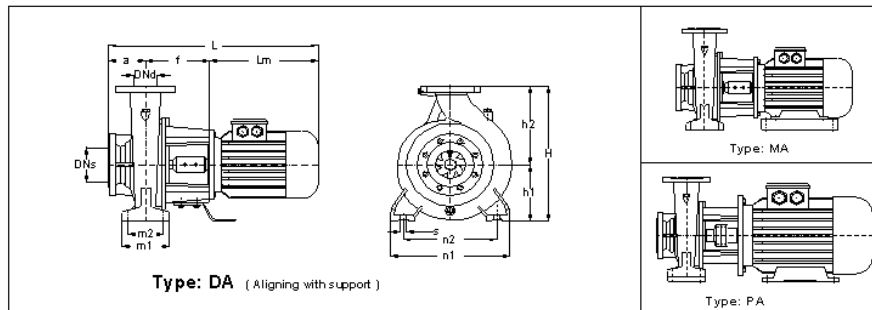


TECHNICAL DATA : NMM 50-250 - 50 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 50-250 (950 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 50-250/156	268	100L6	1.5	433	DA	65	50	100	180	305	180	225	100	125	95	320	250	12	585	405
NMM 50-250/116	243	90L 6	1.1	432	DA	65	50	100	160	275	180	225	90	125	95	320	250	12	535	405
NMM 50-250/076	212	90S 6	0.75	432	DA	65	50	100	160	250	180	225	90	125	95	320	250	12	510	405
NMM 50-250/056	195	80 6b	0.55	431	DA	65	50	100	160	233	180	225	80	125	95	320	250	12	493	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 50-250/156	268	20	ML1c	A3.11	-
NMM 50-250/116	243	20	ML1b	A3.0B	-
NMM 50-250/076	212	20	ML1b	A3.0B	-
NMM 50-250/056	195	20	ML1a	A3.0B	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
50	165	125	18	4

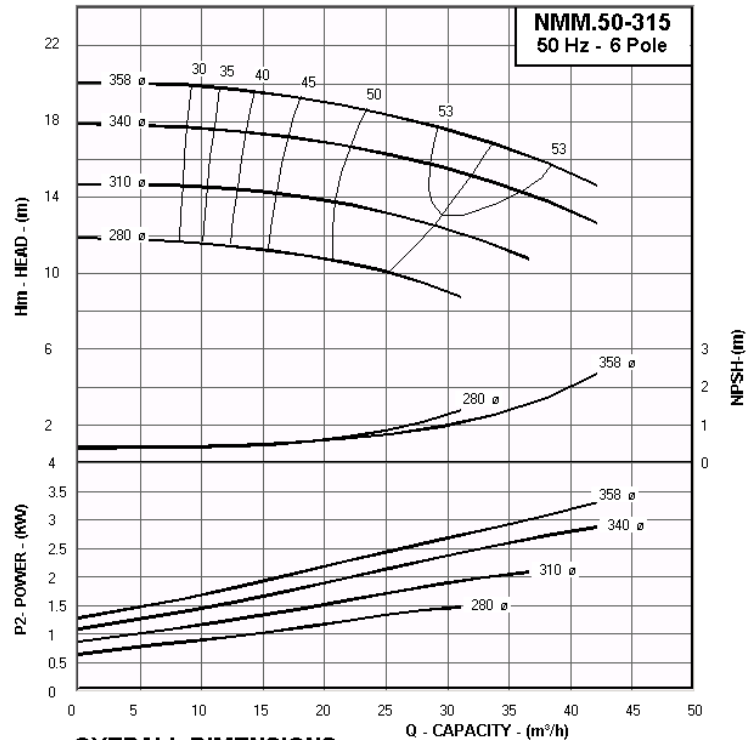
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 950 rpm

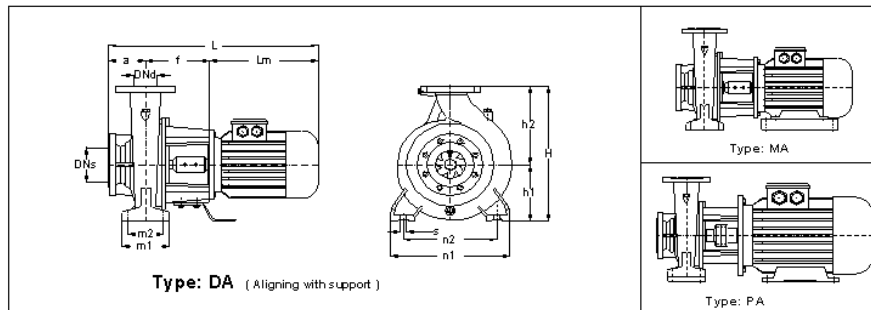


TECHNICAL DATA : NMM.50-315 - 50 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM.50-315 (955 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM.50-315/ 406	358	132M6	4	914	MA	80	50	125	215	413	225	280	132	125	95	345	280	12	753	505
NMM.50-315/ 306	340	132S6	3	914	MA	80	50	125	215	375	225	280	132	125	95	345	280	12	715	505
NMM.50-315/ 226	310	112M6	2.2	913	DA	80	50	125	190	324	225	280	112	125	95	345	280	12	639	505
NMM.50-315/ 156	280	100L6	1.5	913	DA	80	50	125	190	305	225	280	100	125	95	345	280	12	620	505

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM.50-315/ 406	358	30	ML4a	B4.1k	T7
NMM.50-315/ 306	340	30	ML4a	B4.1k	T7
NMM.50-315/ 226	310	30	ML3	B4.1k	T6
NMM.50-315/ 156	280	30	ML3	B4.1k	T6

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
50	165	125	18	4

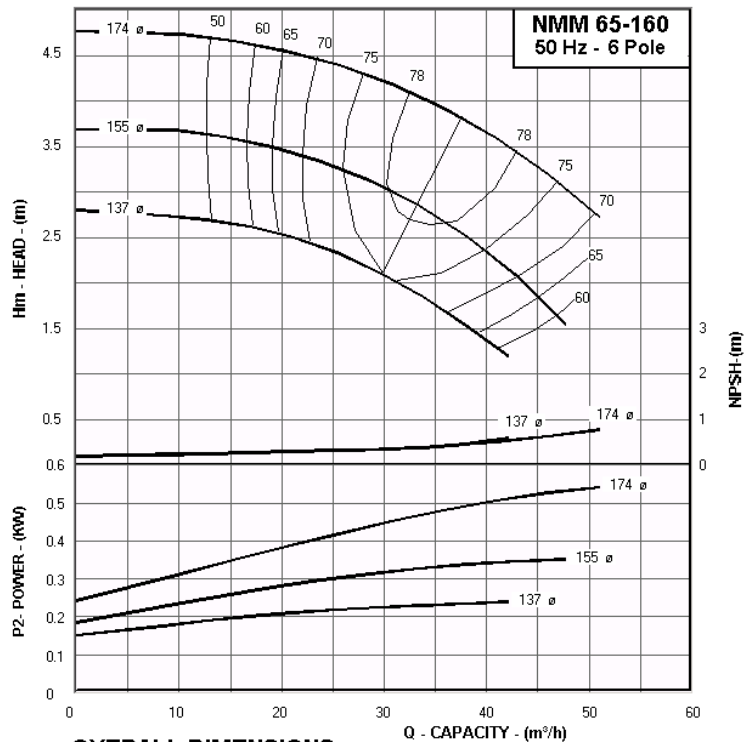
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 950 rpm

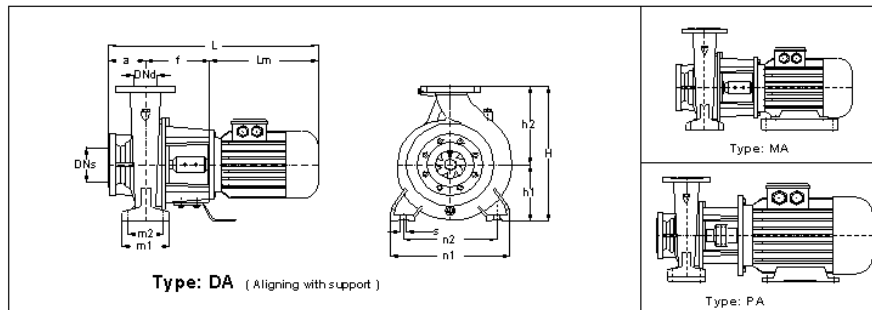


TECHNICAL DATA : NMM 65-160 - 50 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 65-160 (950 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM 65-160/056	174	80 6b	0.55	211	DA	80	65	100	160	233	160	200	80	125	95	280	212	12	493	360
NMM 65-160/046	155	80 6a	0.37	211	DA	80	65	100	160	233	160	200	80	125	95	280	212	12	493	360
NMM 65-160/036	137	71 6b	0.25	210	DA	80	65	100	145	212	160	200	71	125	95	280	212	12	457	360

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 65-160/056	174	20	ML1a	A1.21	-
NMM 65-160/046	155	20	ML1a	A1.21	-
NMM 65-160/036	137	20	ML1k	A1.2k	T1

Flange Dimensions

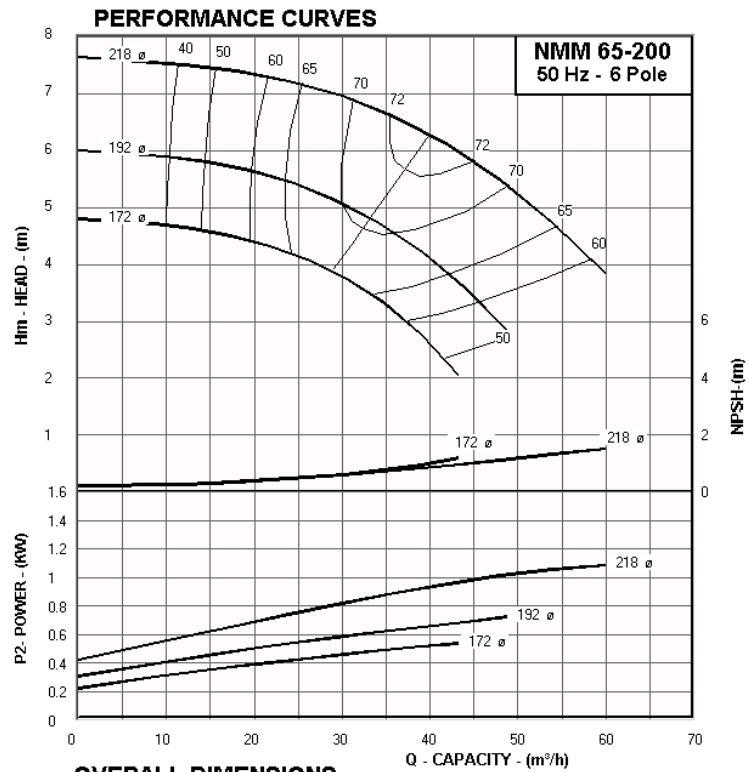
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
65	185	145	18	4

MAS NMM - Close Coupled Centrifugal Pumps

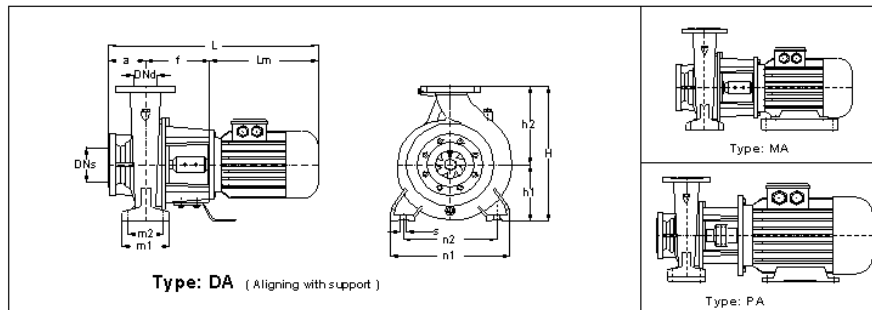
Performance Curves - 50 Hz - 950 rpm



TECHNICAL DATA : NMM 65-200 - 50 Hz - 6 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 65-200 (950 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 65-200/116	218	90L 6	1.1	342	DA	80	65	100	160	275	180	225	90	125	95	320	250	12	535	405
NMM 65-200/076	192	90S 6	0.75	342	DA	80	65	100	160	250	180	225	90	125	95	320	250	12	510	405
NMM 65-200/056	172	80 6b	0.55	341	DA	80	65	100	160	233	180	225	80	125	95	320	250	12	493	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 65-200/116	218	20	ML1b	A2.11	-
NMM 65-200/076	192	20	ML1b	A2.11	-
NMM 65-200/056	172	20	ML1a	A2.11	-

Flange Dimensions

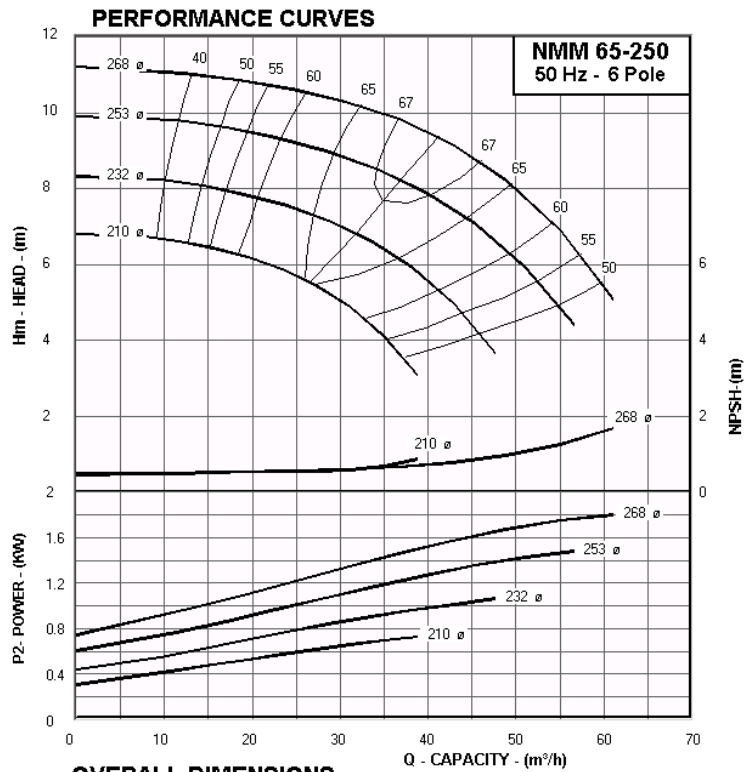
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
65	185	145	18	4

MAS NMM - Close Coupled Centrifugal Pumps

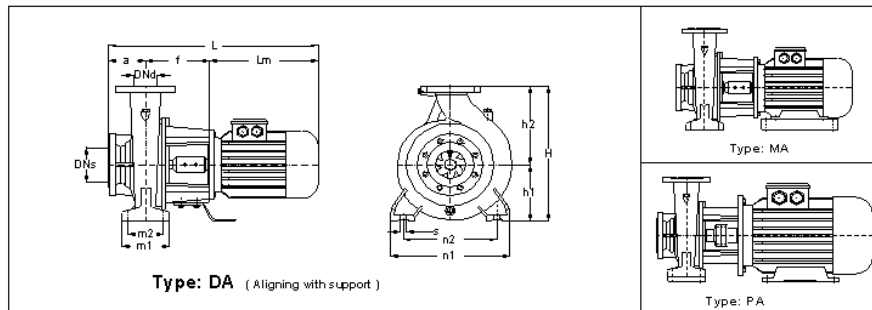
Performance Curves - 50 Hz - 950 rpm



TECHNICAL DATA : NMM 65-250 - 50 Hz - 6 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 65-250 (950 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 65-250/ 226	268	112M6	2.2	613	DA	80	65	100	180	324	200	250	112	160	120	360	280	16	604	450
NMM 65-250/ 156	253	100L6	1.5	613	DA	80	65	100	180	305	200	250	100	160	120	360	280	16	585	450
NMM 65-250/ 116	232	90L 6	1.1	612	DA	80	65	100	170	275	200	250	90	160	120	360	280	16	545	450
NMM 65-250/076	210	90S 6	0.75	612	DA	80	65	100	170	250	200	250	90	160	120	360	280	16	520	450

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 65-250/ 226	268	20	ML1c	A3.11	-
NMM 65-250/ 156	253	20	ML1c	A3.11	-
NMM 65-250/ 116	232	30	ML4k	B2.1k	T3
NMM 65-250/076	210	30	ML4k	B2.1k	T3

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
65	185	145	18	4

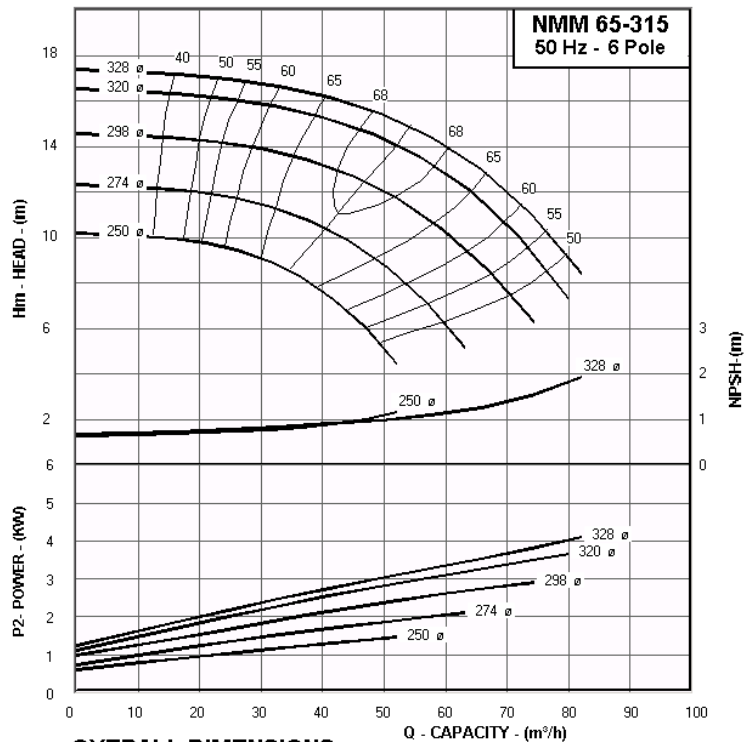
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 950 rpm

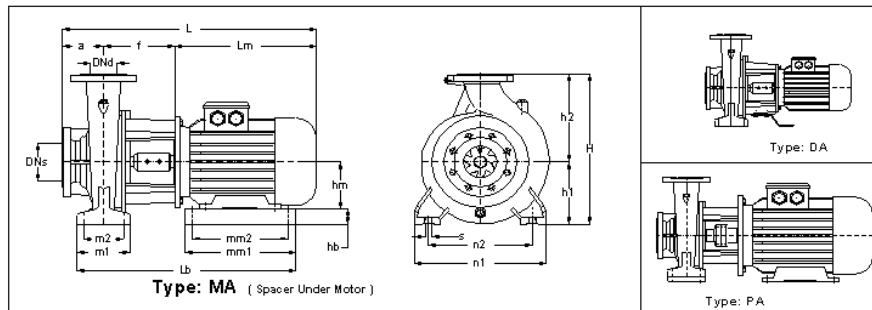


TECHNICAL DATA : NMM 65-315 - 50 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 65-315 (950 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 65-315/ 556	328	132M6	5.5	714	MA	80	65	125	215	413	225	280	132	160	120	400	315	16	753	505
NMM 65-315/ 406	320	132M6	4	714	MA	80	65	125	215	413	225	280	132	160	120	400	315	16	753	505
NMM 65-315/ 306	298	132S6	3	714	MA	80	65	125	215	375	225	280	132	160	120	400	315	16	715	505
NMM 65-315/ 226	274	112M6	2.2	713	DA	80	65	125	205	324	225	280	112	160	120	400	315	16	654	505
NMM 65-315/ 156	250	100L6	1.5	713	DA	80	65	125	205	305	225	280	100	160	120	400	315	16	635	505

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 65-315/ 556	328	30	ML4a	B3.02	-
NMM 65-315/ 406	320	30	ML4a	B3.02	-
NMM 65-315/ 306	298	30	ML4a	B3.02	-
NMM 65-315/ 226	274	30	ML3	B3.12kb	T6
NMM 65-315/ 156	250	30	ML3	B3.12kb	T6

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
65	185	145	18	4

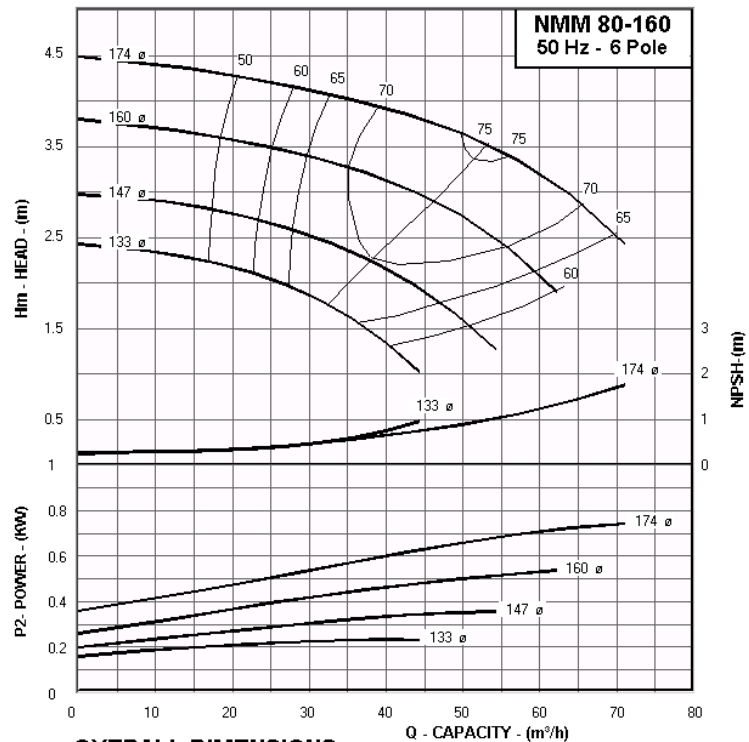
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 950 rpm

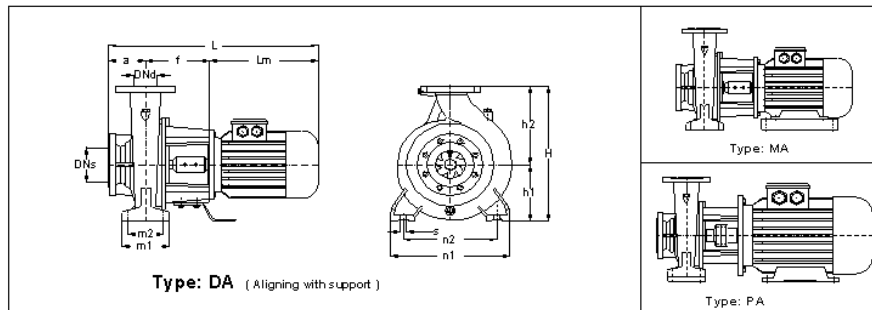


TECHNICAL DATA : NMM 80-160 - 50 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 80-160 (950 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 80-160/076	174	90S 6	0.75	222	DA	100	80	125	160	250	180	225	90	125	95	320	250	12	535	405
NMM 80-160/056	160	80 6b	0.55	221	DA	100	80	125	160	233	180	225	80	125	95	320	250	12	518	405
NMM 80-160/046	147	80 6a	0.37	221	DA	100	80	125	160	233	180	225	80	125	95	320	250	12	518	405
NMM 80-160/036	133	71 6b	0.25	220	DA	100	80	125	145	212	180	225	71	125	95	320	250	12	482	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 80-160/076	174	20	ML1b	A1.21	-
NMM 80-160/056	160	20	ML1a	A1.21	-
NMM 80-160/046	147	20	ML1a	A1.21	-
NMM 80-160/036	133	20	ML1k	A1.2k	T1

Flange Dimensions

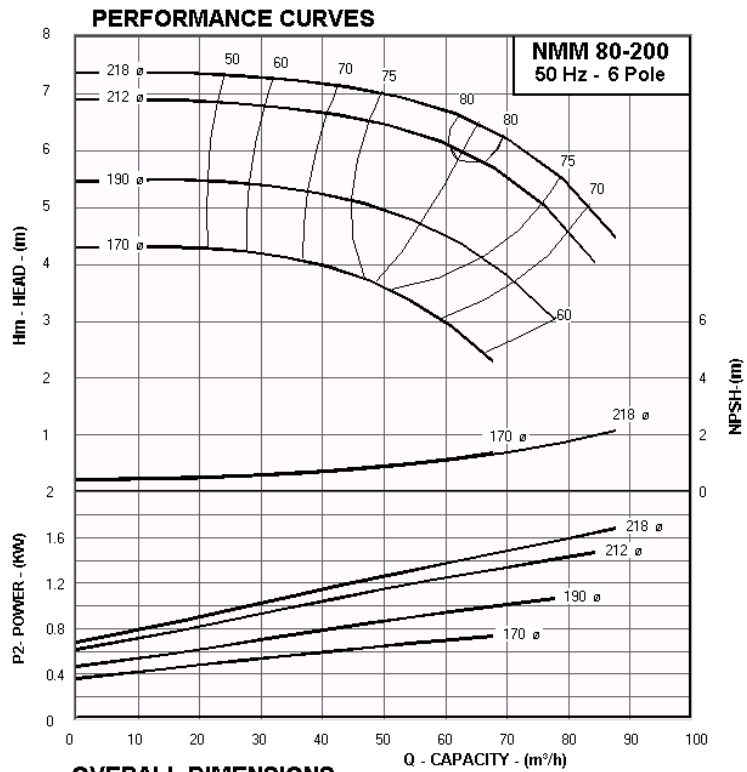
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
80	200	160	18	8

MAS NMM - Close Coupled Centrifugal Pumps

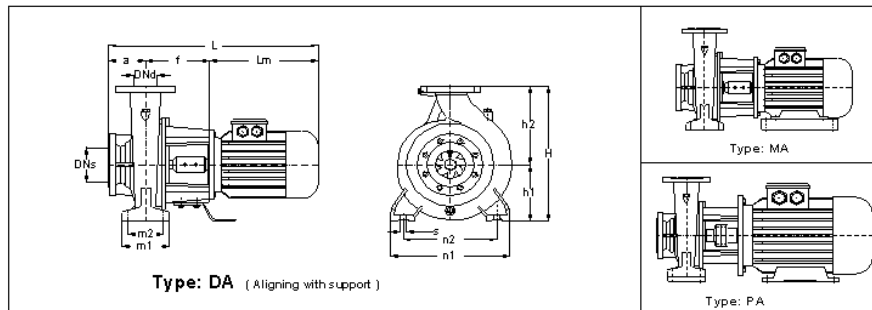
Performance Curves - 50 Hz - 950 rpm



TECHNICAL DATA : NMM 80-200 - 50 Hz - 6 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 80-200 (950 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 80-200/ 226	218	112M6	2.2	513	DA	100	80	125	190	324	180	250	112	125	95	345	280	12	639	430
NMM 80-200/ 156	212	100L6	1.5	513	DA	100	80	125	190	305	180	250	100	125	95	345	280	12	620	430
NMM 80-200/ 116	190	90L 6	1.1	512	DA	100	80	125	170	275	180	250	90	125	95	345	280	12	570	430
NMM 80-200/076	170	90S 6	0.75	512	DA	100	80	125	170	250	180	250	90	125	95	345	280	12	545	430

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 80-200/ 226	218	30	ML3	B1.12	-
NMM 80-200/ 156	212	30	ML3	B1.12	-
NMM 80-200/ 116	190	30	ML3k	B1.1k	T2
NMM 80-200/076	170	30	ML3k	B1.1k	T2

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
80	200	160	18	8

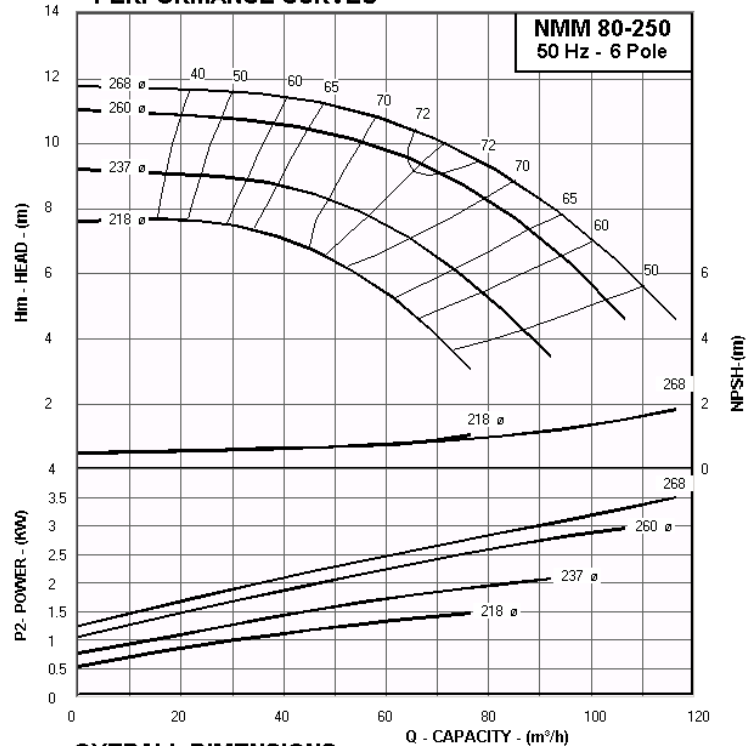
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 950 rpm

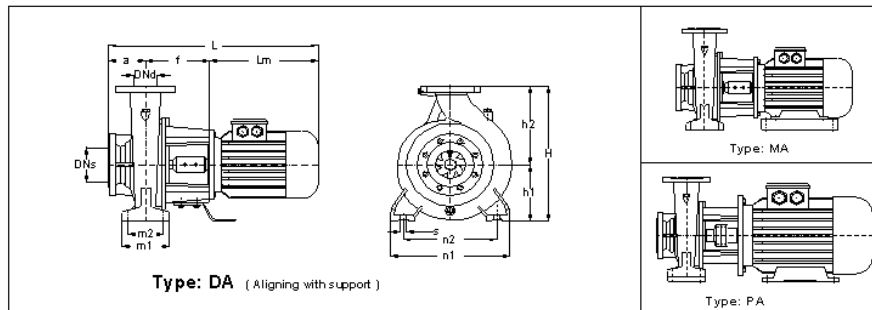


TECHNICAL DATA : NMM 80-250 - 50 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 80-250 (950 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 80-250/ 406	268	132M6	4	624	MA	100	80	125	215	413	200	280	132	160	120	400	315	16	753	480
NMM 80-250/ 306	260	132S6	3	624	MA	100	80	125	215	375	200	280	132	160	120	400	315	16	715	480
NMM 80-250/ 226	237	112M6	2.2	623	DA	100	80	125	180	324	200	280	112	160	120	400	315	16	629	480
NMM 80-250/ 156	218	100L6	1.5	623	DA	100	80	125	180	305	200	280	100	160	120	400	315	16	610	480

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 80-250/ 406	268	30	ML4a	B2.12	-
NMM 80-250/ 306	260	30	ML4a	B2.12	-
NMM 80-250/ 226	237	30	ML3	B2.1Bk	T4
NMM 80-250/ 156	218	30	ML3	B2.1Bk	T4

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
80	200	160	18	8

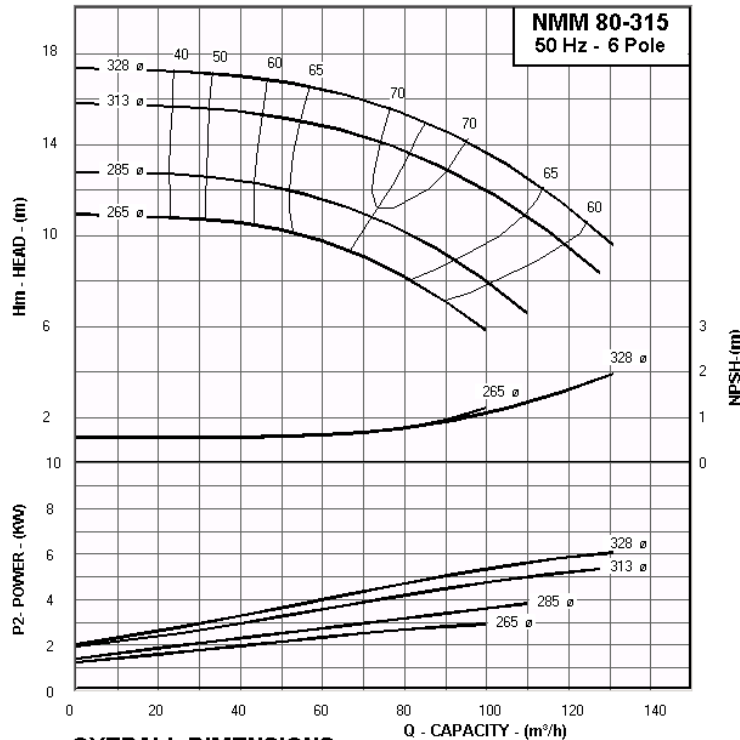
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 950 rpm

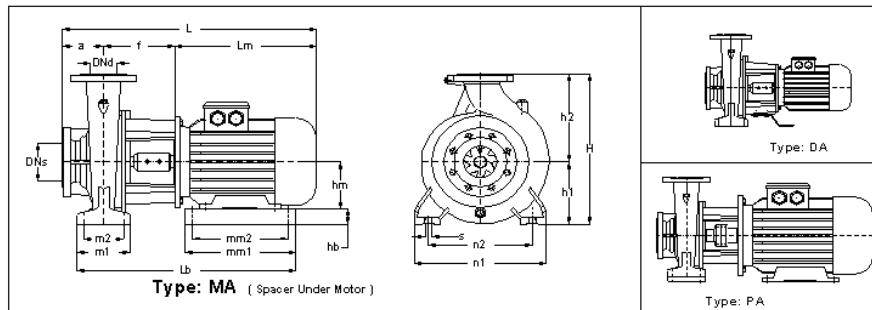


TECHNICAL DATA : NMM 80-315 - 50 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 80-315 (950 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 80-315/ 756	328	160M6	7.5	725	MA	100	80	125	240	484	250	315	160	160	120	400	400	16	849	565
NMM 80-315/ 556	313	132M6	5.5	724	MA	100	80	125	215	413	250	315	132	160	120	400	400	16	753	565
NMM 80-315/ 406	285	132M6	4	724	MA	100	80	125	215	413	250	315	132	160	120	400	400	16	753	565
NMM 80-315/ 306	265	132S6	3	724	MA	100	80	125	215	375	250	315	132	160	120	400	400	16	715	565

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 80-315/ 756	328	30	ML4b	B3.12	-
NMM 80-315/ 556	313	30	ML4a	B3.12kc	T7
NMM 80-315/ 406	285	30	ML4a	B3.12kc	T7
NMM 80-315/ 306	265	30	ML4a	B3.12kc	T7

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
80	200	160	18	8

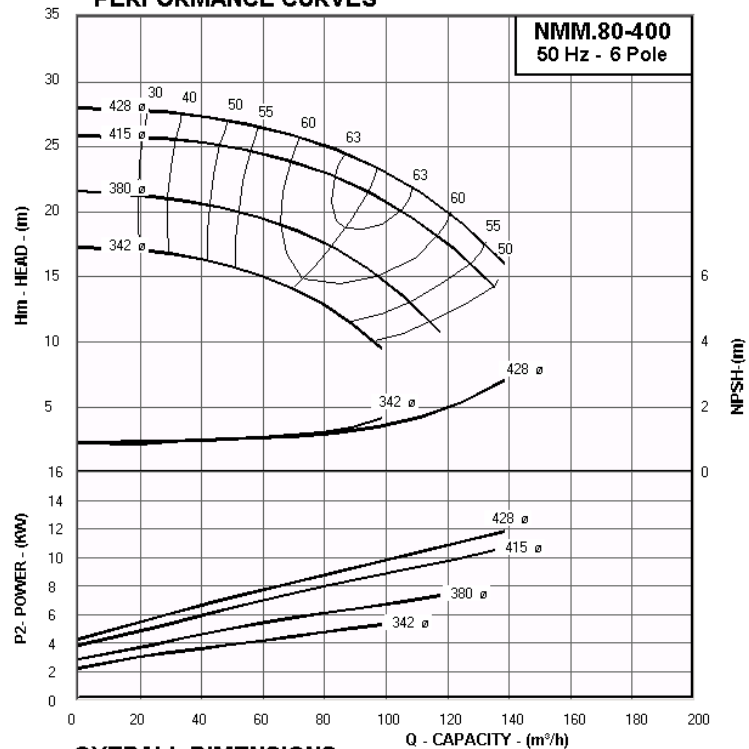
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 950 rpm

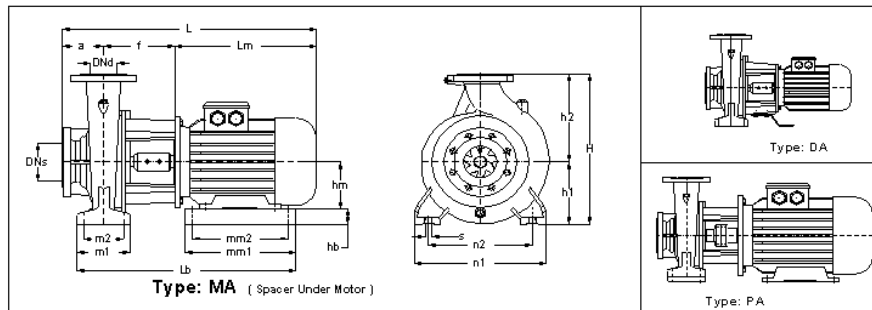


TECHNICAL DATA : NMM.80-400 - 50 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM.80-400 (960 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM.80-400/1506	428	180L6	15	936	MA	100	80	125	250	582	280	355	180	200	150	500	400	20	957	635
NMM.80-400/1106	415	160L6	11	935	MA	100	80	125	250	528	280	355	160	200	150	500	400	20	903	635
NMM.80-400/756	380	160M6	7.5	935	MA	100	80	125	250	484	280	355	160	200	150	500	400	20	859	635
NMM.80-400/556	342	132M6	5.5	934	MA	100	80	125	225	413	280	355	132	200	150	500	400	20	763	635

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM.80-400/1506	428	45	ML4f	C3.1	-
NMM.80-400/1106	415	45	ML4e	C3.1	-
NMM.80-400/756	380	45	ML4e	C3.1	-
NMM.80-400/556	342	45	ML4d	C3.1k	T7

Flange Dimensions

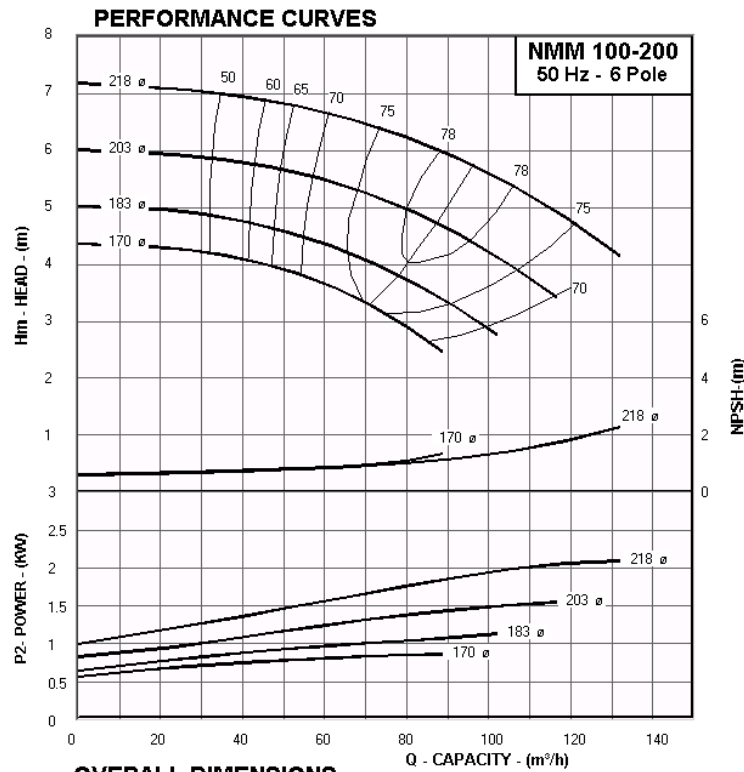
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
80	200	160	18	8

MAS NMM - Close Coupled Centrifugal Pumps

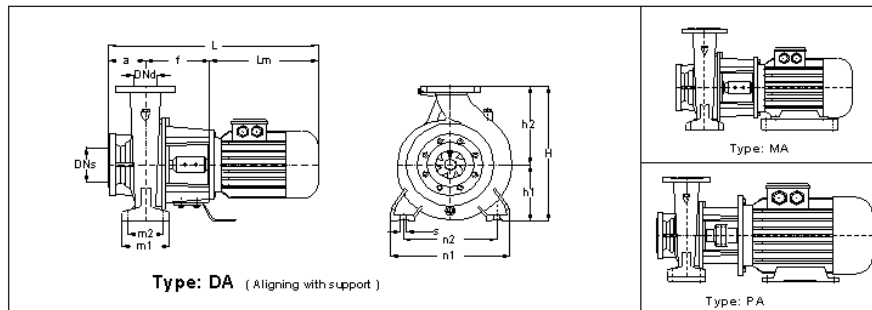
Performance Curves - 50 Hz - 950 rpm



TECHNICAL DATA : NMM 100-200 - 50 Hz - 6 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 100-200 (950 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 100-200/226	218	112M6	2.2	523	DA	125	100	125	190	324	200	280	112	160	120	360	280	16	639	480
NMM 100-200/226	203	112M6	2.2	523	DA	125	100	125	190	324	200	280	112	160	120	360	280	16	639	480
NMM 100-200/156	183	100L6	1.5	523	DA	125	100	125	190	305	200	280	100	160	120	360	280	16	620	480
NMM 100-200/116	170	90L6	1.1	522	DA	125	100	125	170	275	200	280	90	160	120	360	280	16	570	480

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 100-200/226	218	30	ML3	B1.12	-
NMM 100-200/226	203	30	ML3	B1.12	-
NMM 100-200/156	183	30	ML3	B1.12	-
NMM 100-200/116	170	30	ML3k	B1.1k	T2

Flange Dimensions

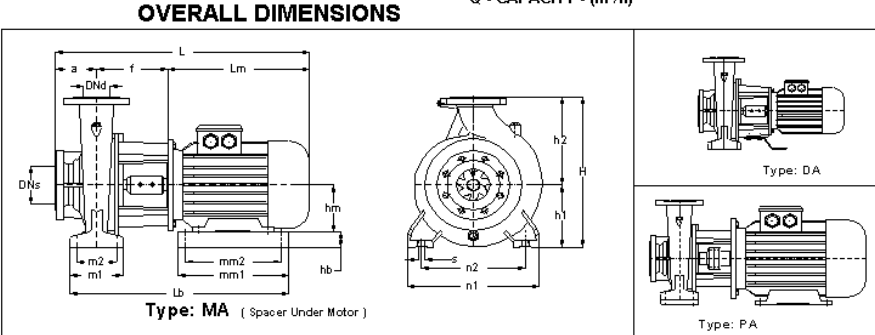
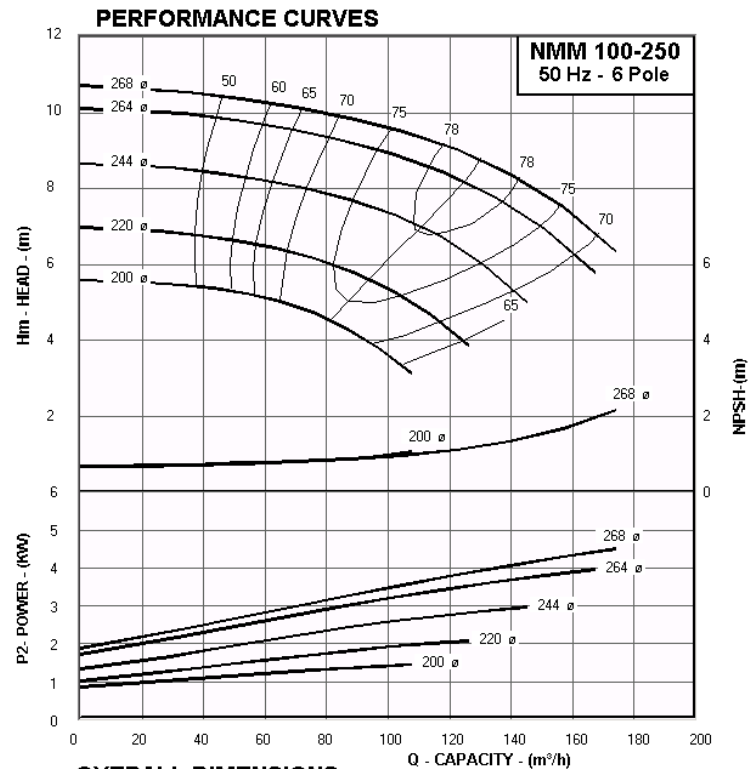
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
125	250	210	18	8
100	220	180	18	8

MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 950 rpm



TECHNICAL DATA : NMM 100-250 - 50 Hz - 6 Pole



DIMENSIONS TABLE. NMM 100-250 (950 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 100-250/ 556	268	132M6	5.5	634	MA	125	100	140	215	413	225	280	132	160	120	400	315	16	768	505
NMM 100-250/ 406	264	132M6	4	634	MA	125	100	140	215	413	225	280	132	160	120	400	315	16	768	505
NMM 100-250/ 306	244	132S6	3	634	MA	125	100	140	215	375	225	280	132	160	120	400	315	16	730	505
NMM 100-250/ 226	220	112M6	2.2	633	DA	125	100	140	180	324	225	280	112	160	120	400	315	16	644	505
NMM 100-250/ 156	200	100L6	1.5	633	DA	125	100	140	180	305	225	280	100	160	120	400	315	16	625	505

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 100-250/ 556	268	30	ML4a	B2.12	-
NMM 100-250/ 406	264	30	ML4a	B2.12	-
NMM 100-250/ 306	244	30	ML4a	B2.12	-
NMM 100-250/ 226	220	30	ML3	B2.18k	T4
NMM 100-250/ 156	200	30	ML3	B2.18k	T4

Flange Dimensions

EN 1092-2 PN 16

DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
125	250	210	18	8
100	220	180	18	8

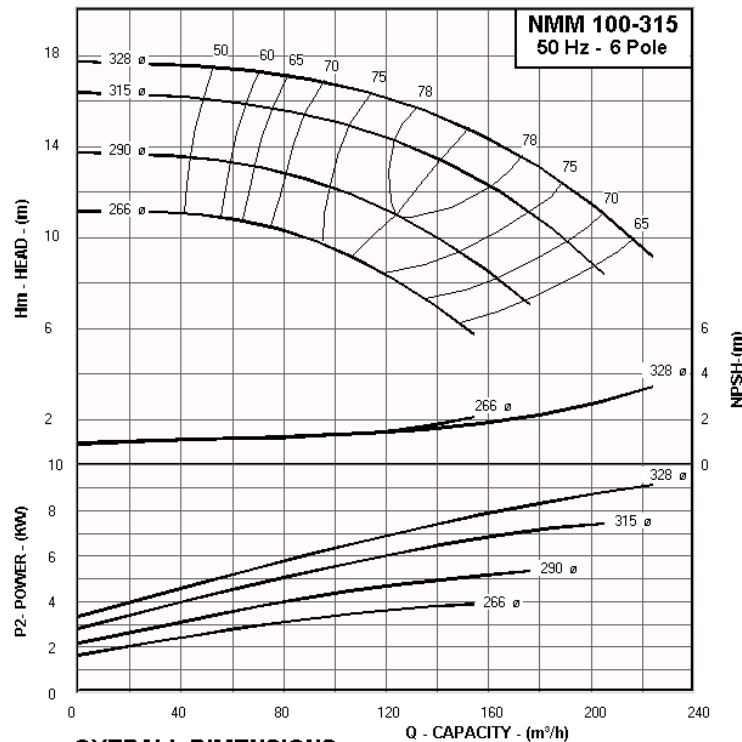
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 50 Hz - 950 rpm

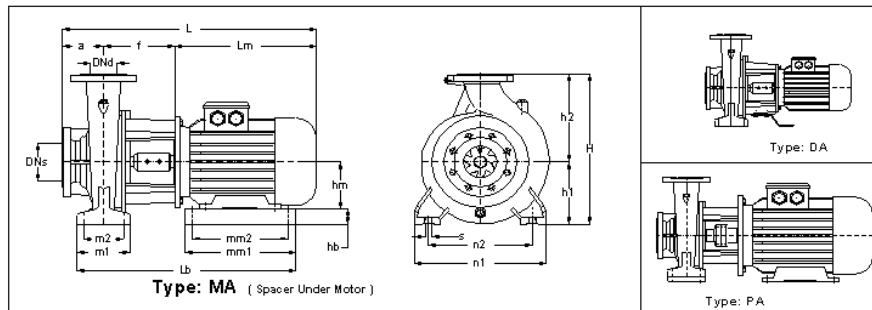


TECHNICAL DATA : NMM 100-315 - 50 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 100-315 (950 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 100-315/1106	328	160L6	11	735	MA	125	100	140	240	528	250	315	160	160	120	400	315	16	908	565
NMM 100-315/756	315	160M6	7.5	735	MA	125	100	140	240	484	250	315	160	160	120	400	315	16	864	565
NMM 100-315/556	290	132M6	5.5	734	MA	125	100	140	215	413	250	315	132	160	120	400	315	16	768	565
NMM 100-315/406	266	132M6	4	734	MA	125	100	140	215	413	250	315	132	160	120	400	315	16	768	565

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 100-315/1106	328	30	ML4b	B3.12	-
NMM 100-315/756	315	30	ML4b	B3.12	-
NMM 100-315/556	290	30	ML4a	B3.12kc	T7
NMM 100-315/406	266	30	ML4a	B3.12kc	T7

Flange Dimensions

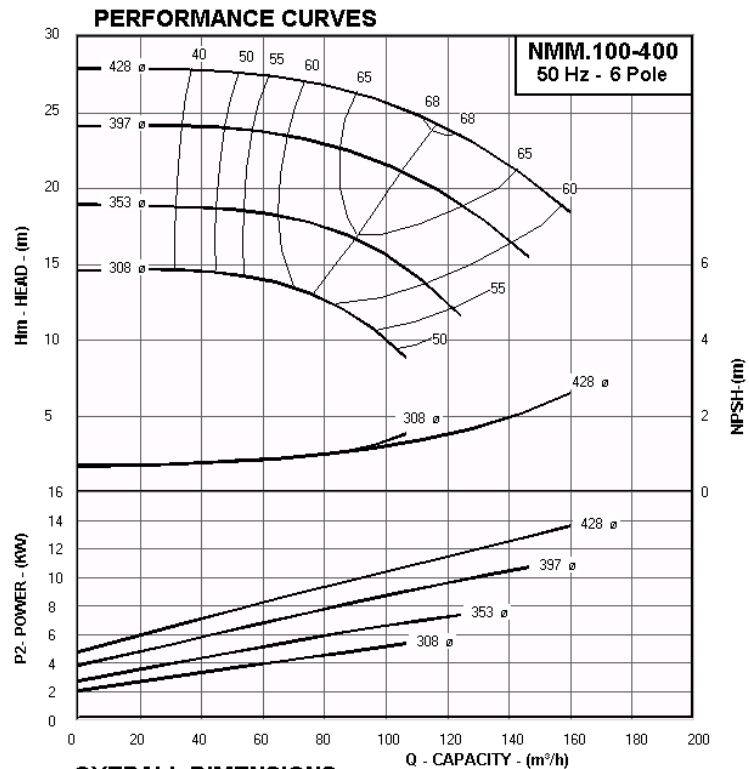
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
125	250	210	18	8
100	220	180	18	8

MAS NMM - Close Coupled Centrifugal Pumps

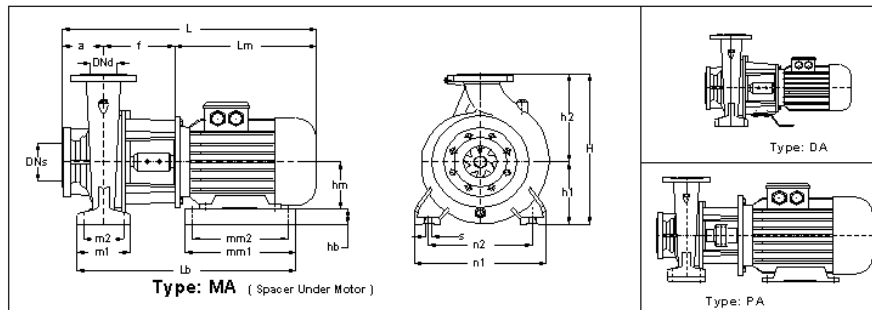
Performance Curves - 50 Hz - 950 rpm



TECHNICAL DATA : NMM.100-400 - 50 Hz - 6 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM.100-400 (960 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM.100-400/1506	428	180L6	15	946	MA	125	100	140	250	582	280	355	180	200	150	500	400	20	972	635
NMM.100-400/1106	397	160L6	11	945	MA	125	100	140	250	528	280	355	160	200	150	500	400	20	918	635
NMM.100-400/756	353	160M6	7.5	945	MA	125	100	140	250	484	280	355	160	200	150	500	400	20	874	635
NMM.100-400/556	308	132M6	5.5	944	MA	125	100	140	225	413	280	355	132	200	150	500	400	20	778	635

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM.100-400/1506	428	45	ML4f	C3.1	-
NMM.100-400/1106	397	45	ML4e	C3.1	-
NMM.100-400/756	353	45	ML4e	C3.1	-
NMM.100-400/556	308	45	ML4d	C3.1k	T7

Flange Dimensions

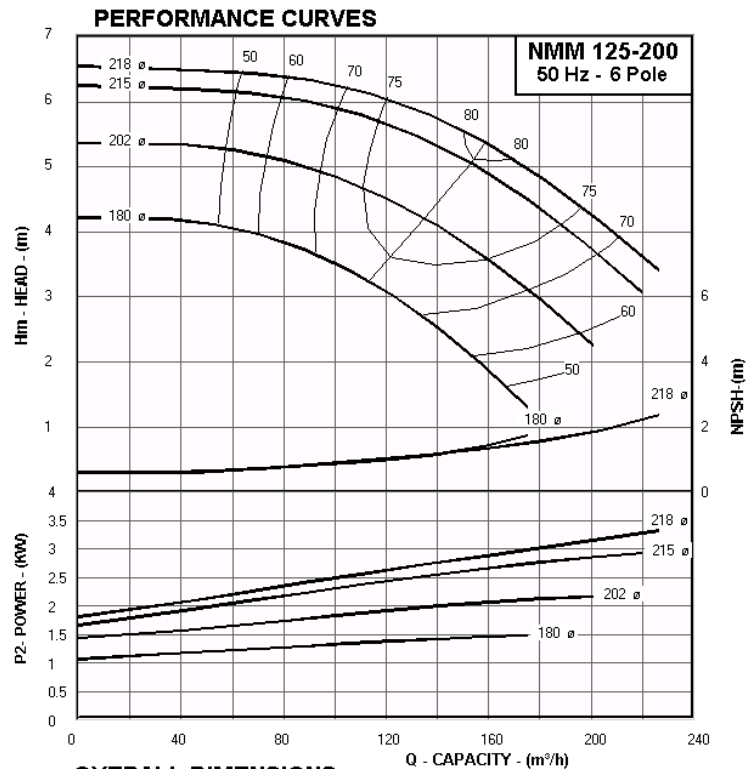
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
125	250	210	18	8
100	220	180	18	8

MAS NMM - Close Coupled Centrifugal Pumps

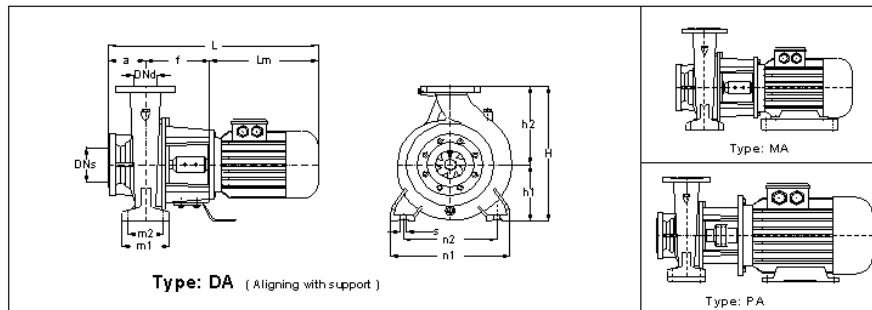
Performance Curves - 50 Hz - 950 rpm



TECHNICAL DATA : NMM 125-200 - 50 Hz - 6 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 125-200 (950 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 125-200/ 406	218	132M6	4	534	MA	150	125	140	215	413	250	315	132	160	120	400	315	16	768	565
NMM 125-200/ 306	215	132S6	3	534	MA	150	125	140	215	375	250	315	132	160	120	400	315	16	730	565
NMM 125-200/ 226	202	112M6	2.2	533	DA	150	125	140	190	324	250	315	112	160	120	400	315	16	654	565
NMM 125-200/ 156	180	100L6	1.5	533	DA	150	125	140	190	305	250	315	100	160	120	400	315	16	635	565

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 125-200/ 406	218	30	ML4a	B1.12	F4
NMM 125-200/ 306	215	30	ML4a	B1.12	F4
NMM 125-200/ 226	202	30	ML3	B1.12	-
NMM 125-200/ 156	180	30	ML3	B1.12	-

Flange Dimensions

EN 1092-2 PN 16

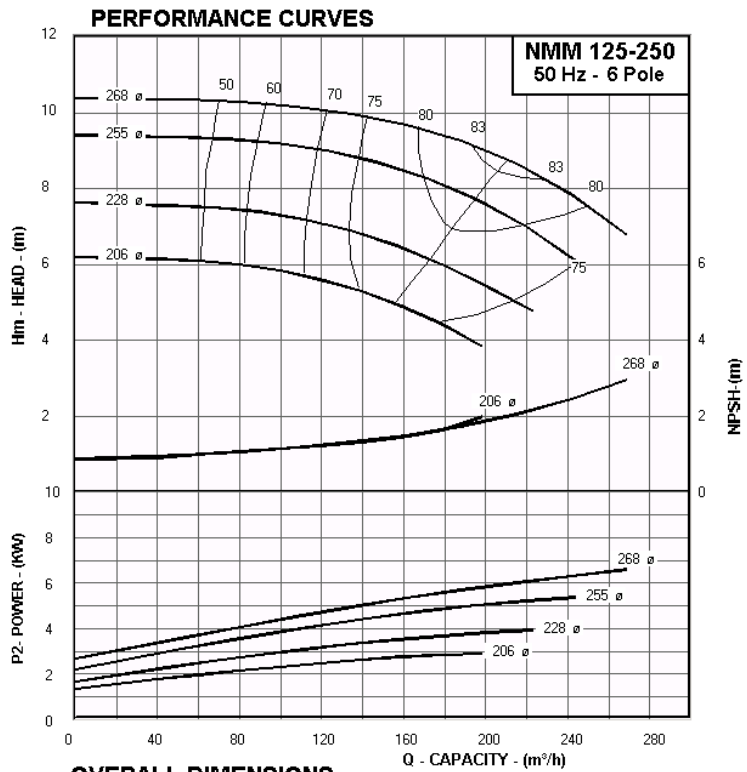
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
150	285	240	23	8
125	250	210	18	8

MAS NMM - Close Coupled Centrifugal Pumps

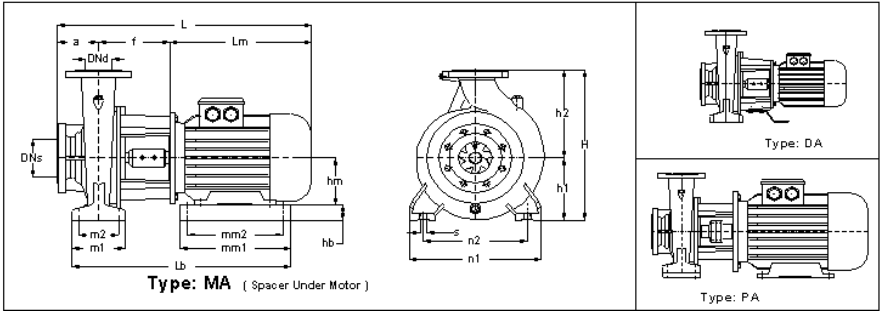
Performance Curves - 50 Hz - 950 rpm



TECHNICAL DATA : NMM 125-250 - 50 Hz - 6 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 125-250 (950 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 125-250/ 756	268	160M6	7.5	645	MA	150	125	140	250	484	250	355	160	160	120	400	315	16	874	605
NMM 125-250/ 556	255	132M6	5.5	644	MA	150	125	140	225	413	250	355	132	160	120	400	315	16	778	605
NMM 125-250/ 406	228	132M6	4	644	MA	150	125	140	225	413	250	355	132	160	120	400	315	16	778	605
NMM 125-250/ 306	206	132S6	3	644	MA	150	125	140	225	375	250	355	132	160	120	400	315	16	740	605

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 125-250/ 756	268	30	ML4b	B2.12	F7
NMM 125-250/ 556	255	30	ML4a	B2.12	-
NMM 125-250/ 406	228	30	ML4a	B2.12	-
NMM 125-250/ 306	206	30	ML4a	B2.12	-

Flange Dimensions

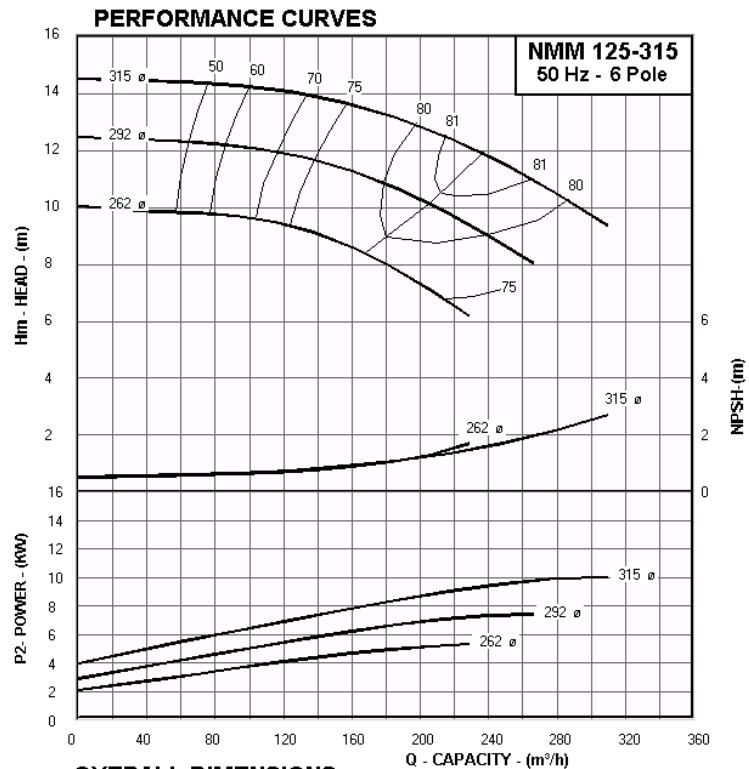
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
150	285	240	23	8
125	250	210	18	8

MAS NMM - Close Coupled Centrifugal Pumps

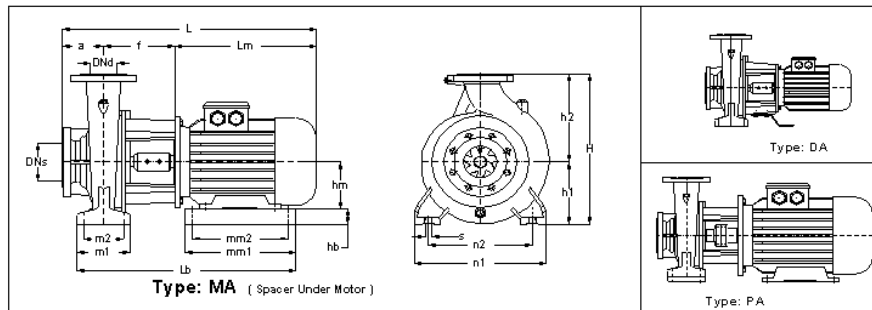
Performance Curves - 50 Hz - 950 rpm



TECHNICAL DATA : NMM 125-315 - 50 Hz - 6 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 125-315 (950 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 125-315/1106	315	160L6	11	815	MA	150	125	140	255	528	280	355	160	200	150	500	400	20	923	635
NMM 125-315/756	292	160M6	7.5	815	MA	150	125	140	255	484	280	355	160	200	150	500	400	20	879	635
NMM 125-315/556	262	132M6	5.5	814	MA	150	125	140	230	413	280	355	132	200	150	500	400	20	783	635

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 125-315/1106	315	30	ML6a	C2.12	-
NMM 125-315/756	292	30	ML6a	C2.12	-
NMM 125-315/556	262	30	ML6k	C2.12k	T7

Flange Dimensions

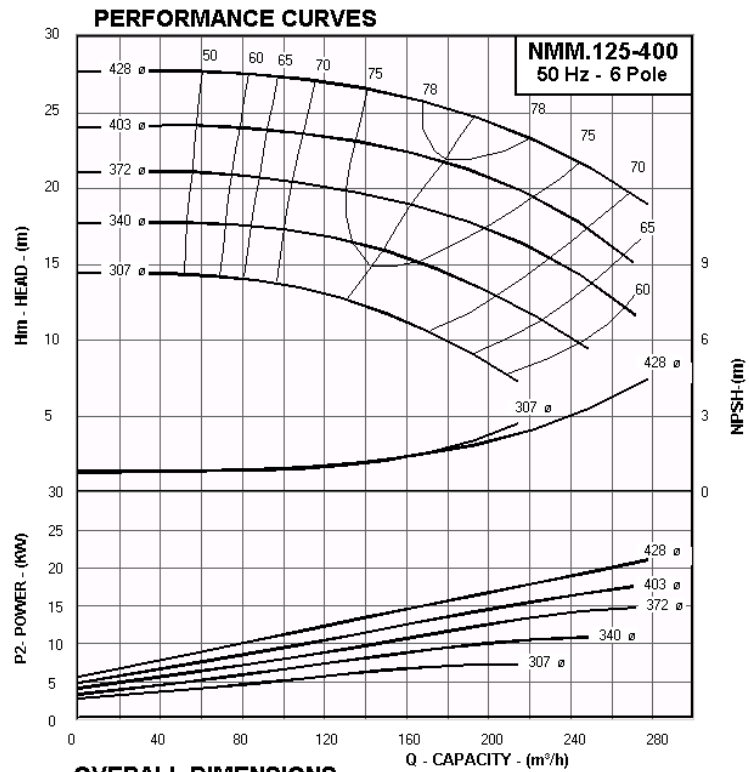
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
150	285	240	23	8
125	250	210	18	8

MAS NMM - Close Coupled Centrifugal Pumps

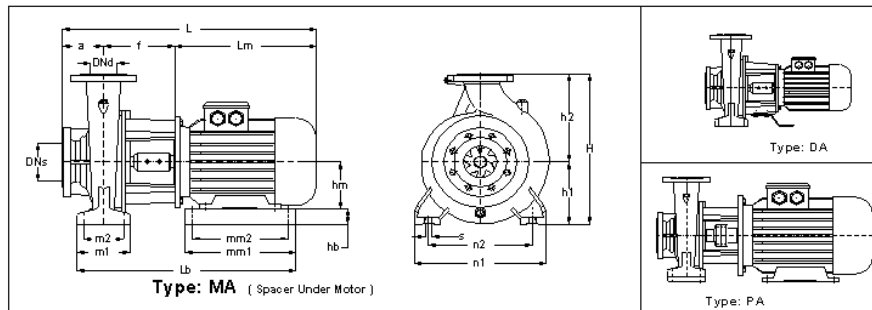
Performance Curves - 50 Hz - 950 rpm



TECHNICAL DATA : NMM.125-400 - 50 Hz - 6 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM.125-400 (960 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM.125-400/2206	428	200L6	22	957	MA	150	125	140	280	637	315	400	200	200	150	500	400	20	1057	715
NMM.125-400/1856	403	200L6	18.5	957	MA	150	125	140	280	637	315	400	200	200	150	500	400	20	1057	715
NMM.125-400/1506	372	180L6	15	956	MA	150	125	140	250	582	315	400	180	200	150	500	400	20	972	715
NMM.125-400/1506	340	180L6	15	956	MA	150	125	140	250	582	315	400	180	200	150	500	400	20	972	715
NMM.125-400/756	307	160M6	7.5	955	MA	150	125	140	250	484	315	400	160	200	150	500	400	20	874	715

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM.125-400/2206	428	45	ML10 + K6	C3.1	F9
NMM.125-400/1856	403	45	ML10 + K6	C3.1	F9
NMM.125-400/1506	372	45	ML4f	C3.1	-
NMM.125-400/1506	340	45	ML4f	C3.1	-
NMM.125-400/756	307	45	ML4e	C3.1	-

Flange Dimensions

EN 1092-2 PN 16

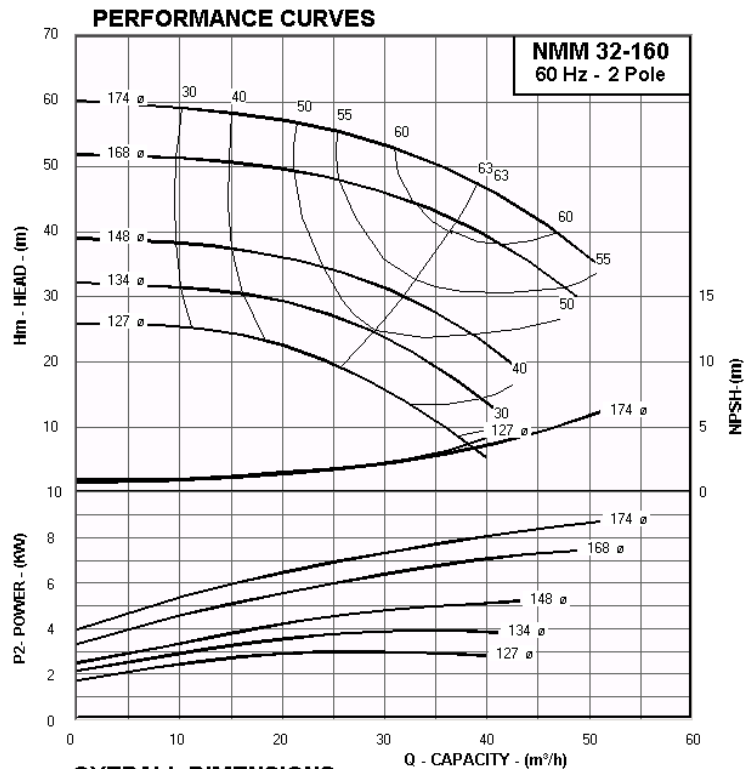
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
150	285	240	23	8
125	250	210	18	8

MAS NMM - Close Coupled Centrifugal Pumps

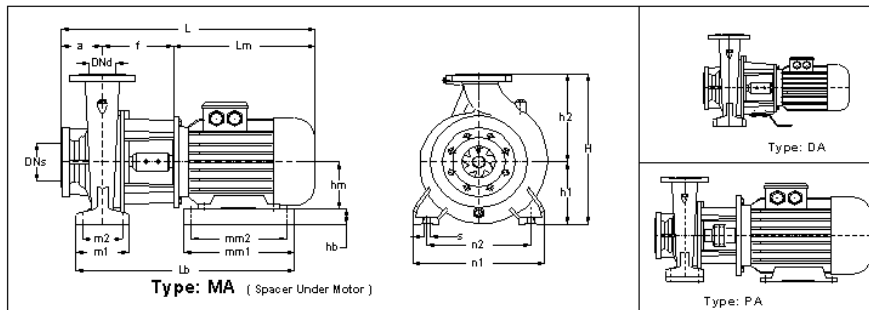
Performance Curves - 60 Hz - 3500 rpm



TECHNICAL DATA : NMM 32-160 - 60 Hz - 2 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 32-160 (2880 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 32-160/ 552	174	132S2	5.5	114	O	50	32	80	200	375	132	160	132	100	70	240	190	12	655	292
NMM 32-160/ 402	163	112M2	4	113	DA	50	32	80	180	324	132	160	112	100	70	240	190	12	584	292
NMM 32-160/ 302	146	100L2	3	113	DA	50	32	80	180	305	132	160	100	100	70	240	190	12	565	292
NMM 32-160/ 222	135	90L 2	2.2	112	DA	50	32	80	160	275	132	160	90	100	70	240	190	12	515	292
NMM 32-160/ 152	123	90S 2	1.5	112	DA	50	32	80	160	250	132	160	90	100	70	240	190	12	490	292

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 32-160/ 552	174	30	ML2a	A1.12	F 2
NMM 32-160/ 402	163	20	ML1c	A1.11	F 1
NMM 32-160/ 302	146	20	ML1c	A1.11	F 1
NMM 32-160/ 222	135	20	ML1b	A1.11	-
NMM 32-160/ 152	123	20	ML1b	A1.11	-

Flange Dimensions

EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
50	165	125	18	4
32	140	100	18	4

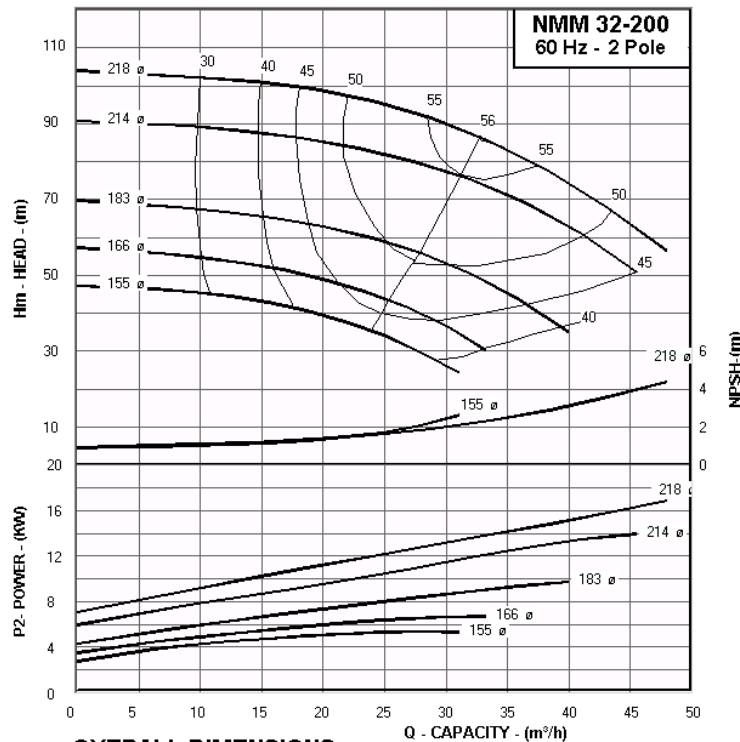
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 3500 rpm

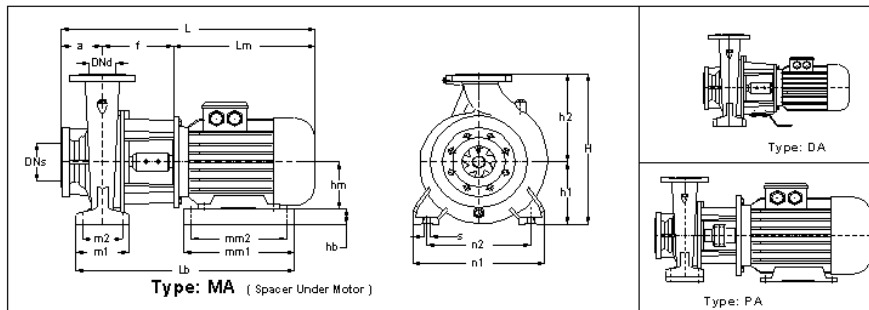


TECHNICAL DATA : NMM 32-200 - 60 Hz - 2 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 32-200 (2900 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 32-200/ 1102	218	160M2	11	315	O	50	32	80	230	484	160	180	160	100	70	240	190	12	794	340
NMM 32-200/ 752	209	132S2	7.5	314	MA	50	32	80	205	375	160	180	132	100	70	240	190	12	660	340
NMM 32-200/ 552	182	132S2	5.5	314	MA	50	32	80	205	375	160	180	132	100	70	240	190	12	660	340
NMM 32-200/ 402	165	112M2	4	313	DA	50	32	80	180	324	160	180	112	100	70	240	190	12	584	340

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 32-200/ 1102	218	30	ML2b	A2.22	F5
NMM 32-200/ 752	209	30	ML2a	A2.22	F4
NMM 32-200/ 552	182	30	ML2a	A2.22	F4
NMM 32-200/ 402	165	20	ML1c	A2.21	-

Flange Dimensions

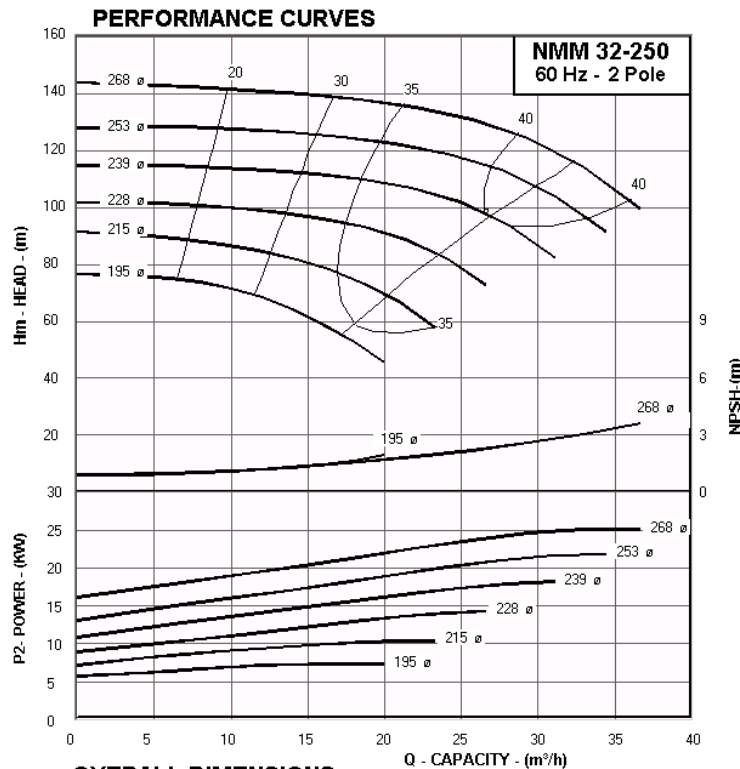
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
50	165	125	18	4
32	140	100	18	4

MAS NMM - Close Coupled Centrifugal Pumps

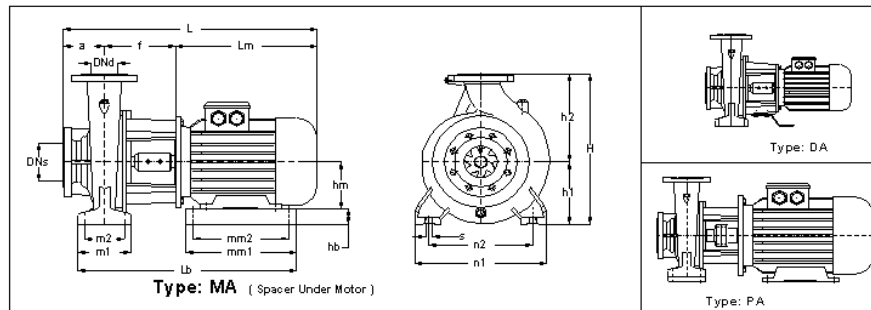
Performance Curves - 60 Hz - 3500 rpm



TECHNICAL DATA : NMM 32-250 - 60 Hz - 2 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 32-250 (3456 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 32-250/ 3002	268	200L2	30	417	PA	50	32	100	270	637	180	225	200	125	95	320	250	12	1007	405
NMM 32-250/ 2202	253	180M2	22	416	O	50	32	100	240	544	180	225	180	125	95	320	250	12	884	405
NMM 32-250/ 1852	239	160L2	18.5	415	MA	50	32	100	240	528	180	225	160	125	95	320	250	12	868	405
NMM 32-250/ 1502	228	160M2	15	415	MA	50	32	100	240	484	180	225	160	125	95	320	250	12	824	405
NMM 32-250/ 1102	215	160M2	11	415	MA	50	32	100	240	484	180	225	160	125	95	320	250	12	824	405
NMM 32-250/ 752	195	132S2	7.5	414	MA	50	32	100	215	375	180	225	132	125	95	320	250	12	690	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 32-250/ 3002	268	35	ML7+K6	A3.13a	F6
NMM 32-250/ 2202	253	30	ML2c	A3.12a	F5
NMM 32-250/ 1852	239	30	ML2b	A3.12a	F5
NMM 32-250/ 1502	228	30	ML2b	A3.12a	F5
NMM 32-250/ 1102	215	30	ML2b	A3.12a	F5
NMM 32-250/ 752	195	30	ML2a	A3.12a	F4

Flange Dimensions

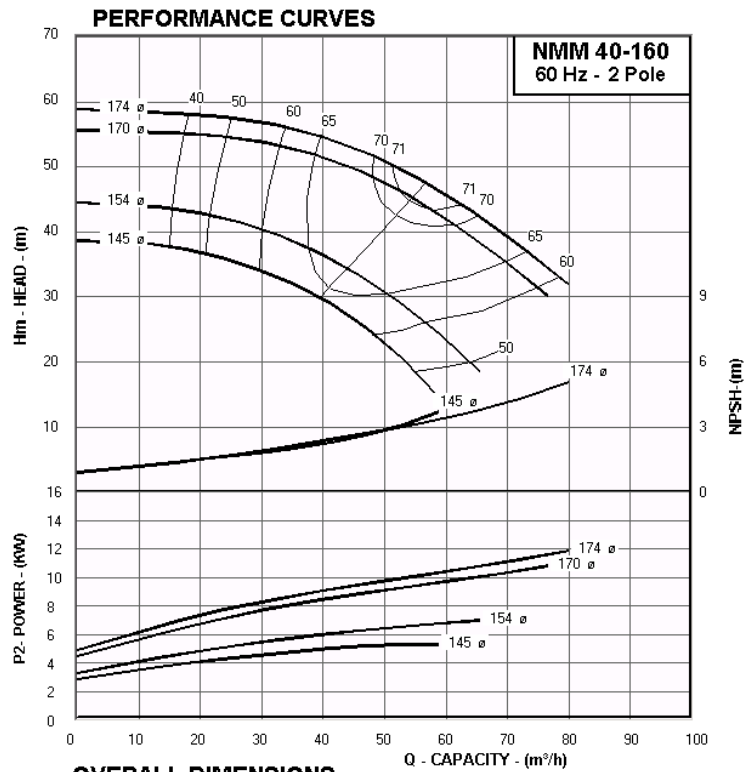
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
50	165	125	18	4
32	140	100	18	4

MAS NMM - Close Coupled Centrifugal Pumps

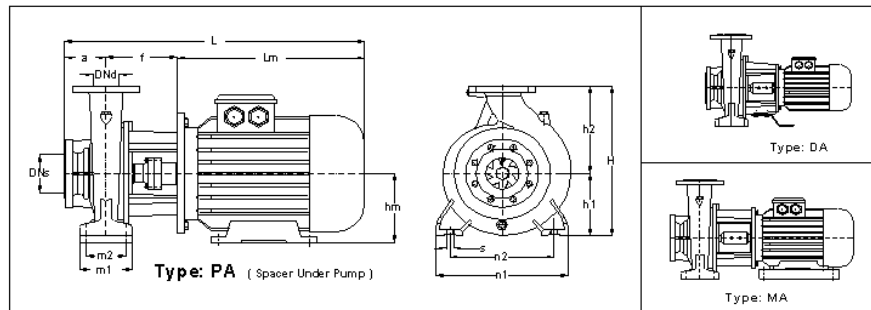
Performance Curves - 60 Hz - 3500 rpm



TECHNICAL DATA : NMM 40-160 - 60 Hz - 2 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 40-160 (3444 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 40-160/ 1502	174	160M2	15	125	PA	65	40	80	45	484	132	160	160	100	70	240	190	12	609	292
NMM 40-160/ 1102	170	160M2	11	125	PA	65	40	80	45	484	132	160	160	100	70	240	190	12	609	292
NMM 40-160/ 752	154	132S2	7.5	124	O	65	40	80	200	375	132	160	132	100	70	240	190	12	655	292
NMM 40-160/ 552	145	132S2	5.5	124	O	65	40	80	200	375	132	160	132	100	70	240	190	12	655	292

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 40-160/ 1502	174	30	ML2b	A1.32	F 136
NMM 40-160/ 1102	170	30	ML2b	A1.32	F 136
NMM 40-160/ 752	154	30	ML2a	A1.12	F 2
NMM 40-160/ 552	145	30	ML2a	A1.12	F 2

Flange Dimensions

EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
40	150	110	18	4

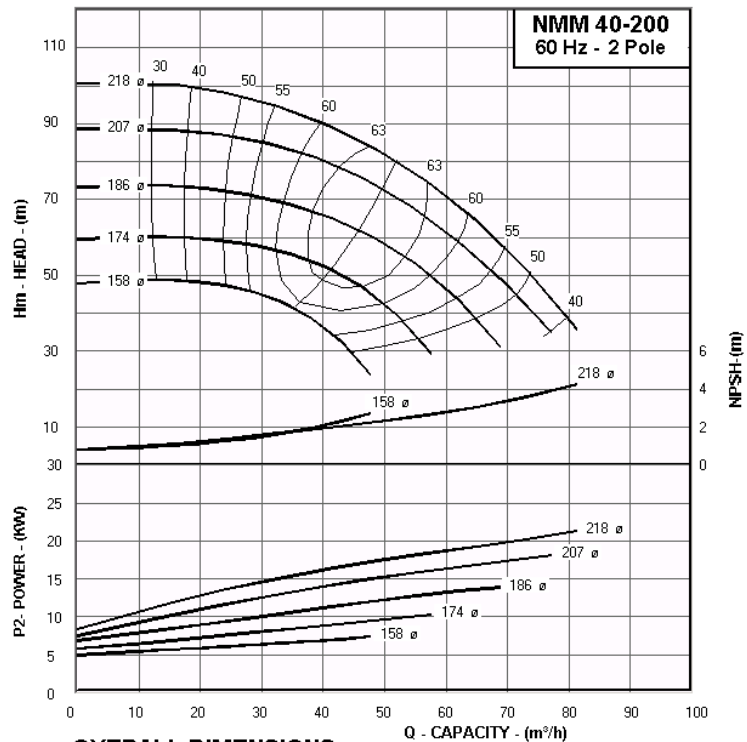
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 3500 rpm

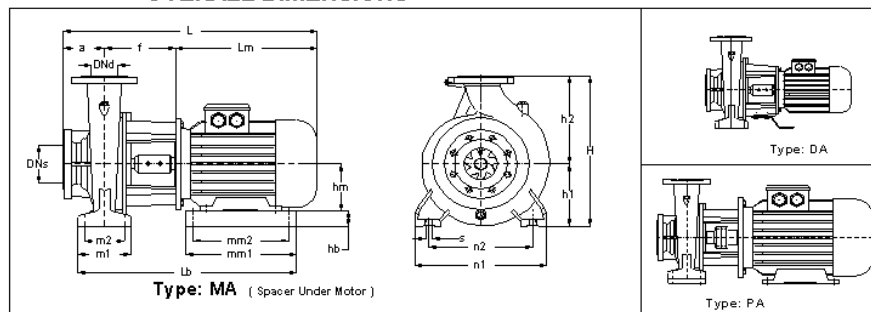


TECHNICAL DATA : NMM 40-200 - 60 Hz - 2 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 40-200 (3480 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM 40-200/ 2202	218	180M2	22	326	PA	65	40	100	230	544	160	180	180	100	70	265	212	12	874	340
NMM 40-200/ 1852	207	160L2	18.5	325	O	65	40	100	230	528	160	180	160	100	70	265	212	12	858	340
NMM 40-200/ 1502	186	160M2	15	325	O	65	40	100	230	484	160	180	160	100	70	265	212	12	814	340
NMM 40-200/ 1102	174	160M2	11	325	O	65	40	100	230	484	160	180	160	100	70	265	212	12	814	340
NMM 40-200/ 1102	158	160M2	11	325	O	65	40	100	230	484	160	180	160	100	70	265	212	12	814	340

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 40-200/ 2202	218	30	ML2c	A2.22	F5
NMM 40-200/ 1852	207	30	ML2b	A2.22	F5
NMM 40-200/ 1502	186	30	ML2b	A2.22	F5
NMM 40-200/ 1102	174	30	ML2b	A2.22	F5
NMM 40-200/ 1102	158	30	ML2b	A2.22	F5

Flange Dimensions

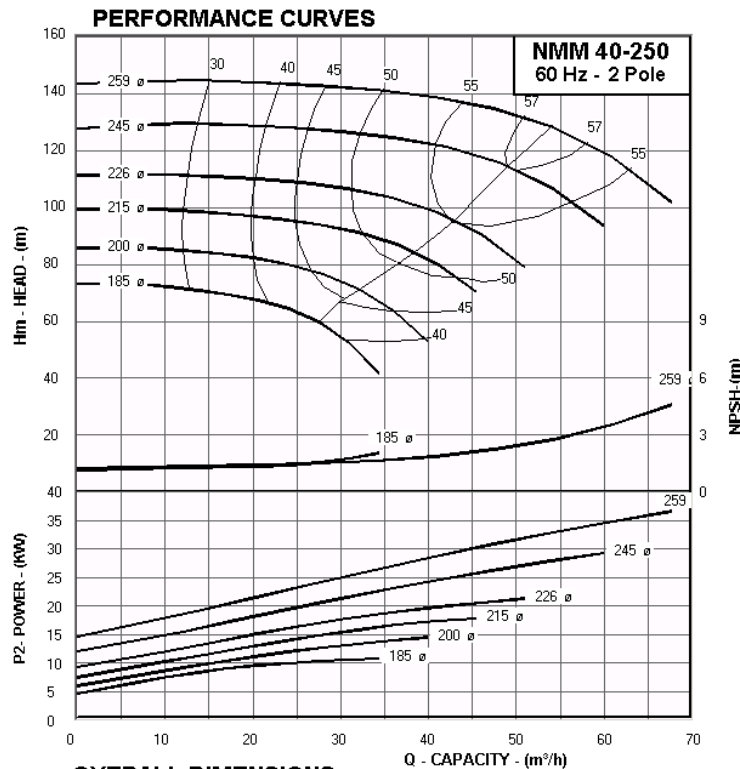
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
40	150	110	18	4

MAS NMM - Close Coupled Centrifugal Pumps

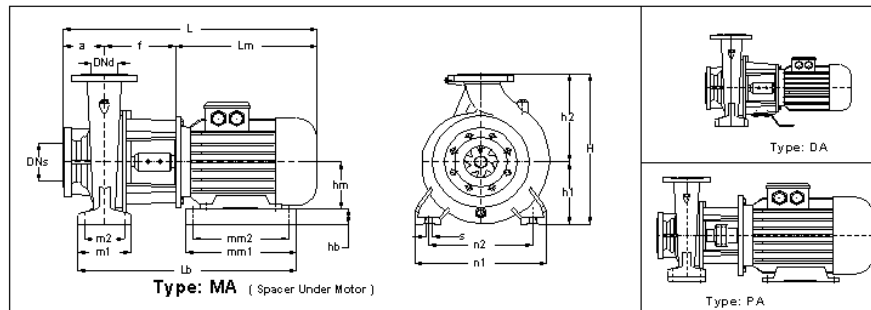
Performance Curves - 60 Hz - 3500 rpm



TECHNICAL DATA : NMM 40-250 - 60 Hz - 2 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 40-250 (3480 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 40-250/ 3702	259	200L2	37	427	PA	65	40	100	260	637	180	225	200	125	95	320	250	12	997	405
NMM 40-250/ 3002	245	200L2	30	427	PA	65	40	100	260	637	180	225	200	125	95	320	250	12	997	405
NMM 40-250/ 2202	226	180M2	22	426	O	65	40	100	230	544	180	225	180	125	95	320	250	12	874	405
NMM 40-250/ 1852	215	160L2	18.5	425	MA	65	40	100	230	528	180	225	160	125	95	320	250	12	858	405
NMM 40-250/ 1502	200	160M2	15	425	MA	65	40	100	230	484	180	225	160	125	95	320	250	12	814	405
NMM 40-250/ 1102	185	160M2	11	425	MA	65	40	100	230	484	180	225	160	125	95	320	250	12	814	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 40-250/ 3702	259	35	ML7+K6	A3.13	F6
NMM 40-250/ 3002	245	35	ML7+K6	A3.13	F6
NMM 40-250/ 2202	226	30	ML2c	A3.12	F5
NMM 40-250/ 1852	215	30	ML2b	A3.12	F5
NMM 40-250/ 1502	200	30	ML2b	A3.12	F5
NMM 40-250/ 1102	185	30	ML2b	A3.12	F5

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
40	150	110	18	4

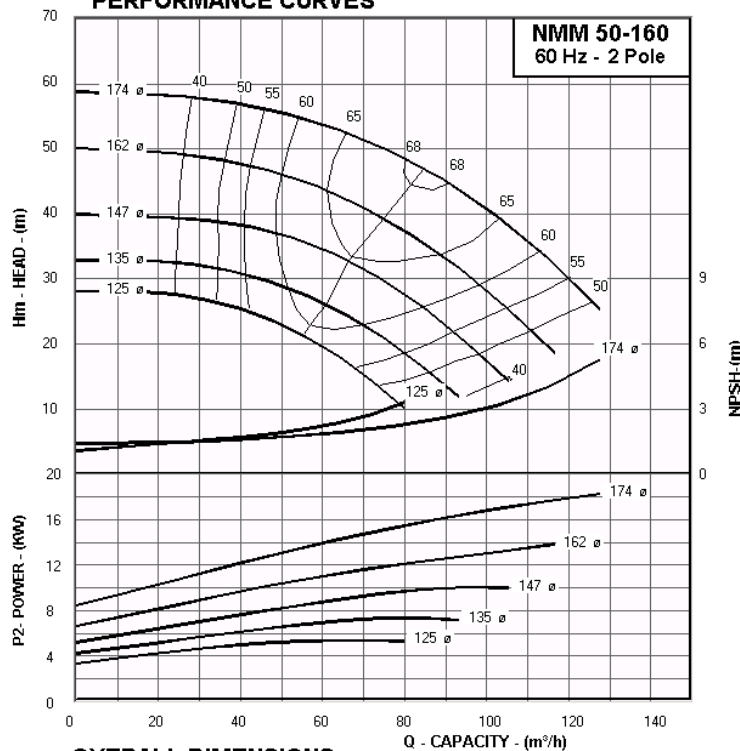
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 3500 rpm

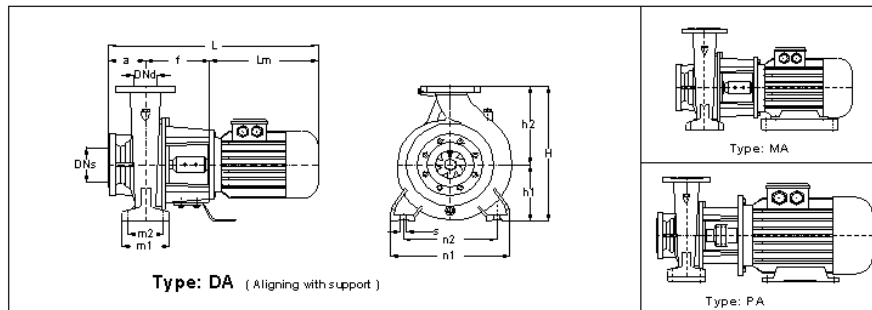


TECHNICAL DATA : NMM 50-160 - 60 Hz - 2 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 50-160 (3444 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 50-160/1852	174	160L2	18.5	135	O	65	50	100	230	528	160	180	160	100	70	265	212	12	858	340
NMM 50-160/1502	162	160M2	15	135	O	65	50	100	230	484	160	180	160	100	70	265	212	12	814	340
NMM 50-160/1102	147	160M2	11	135	O	65	50	100	230	484	160	180	160	100	70	265	212	12	814	340
NMM 50-160/752	135	132S2	7.5	134	MA	65	50	100	200	375	160	180	132	100	70	265	212	12	675	340
NMM 50-160/552	125	132S2	5.5	134	MA	65	50	100	200	375	160	180	132	100	70	265	212	12	675	340

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 50-160/1852	174	30	ML2b	A1.32	F 136
NMM 50-160/1502	162	30	ML2b	A1.32	F 136
NMM 50-160/1102	147	30	ML2b	A1.32	F 136
NMM 50-160/752	135	30	ML2a	A1.12	F 2
NMM 50-160/552	125	30	ML2a	A1.12	F 2

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
50	165	125	18	4

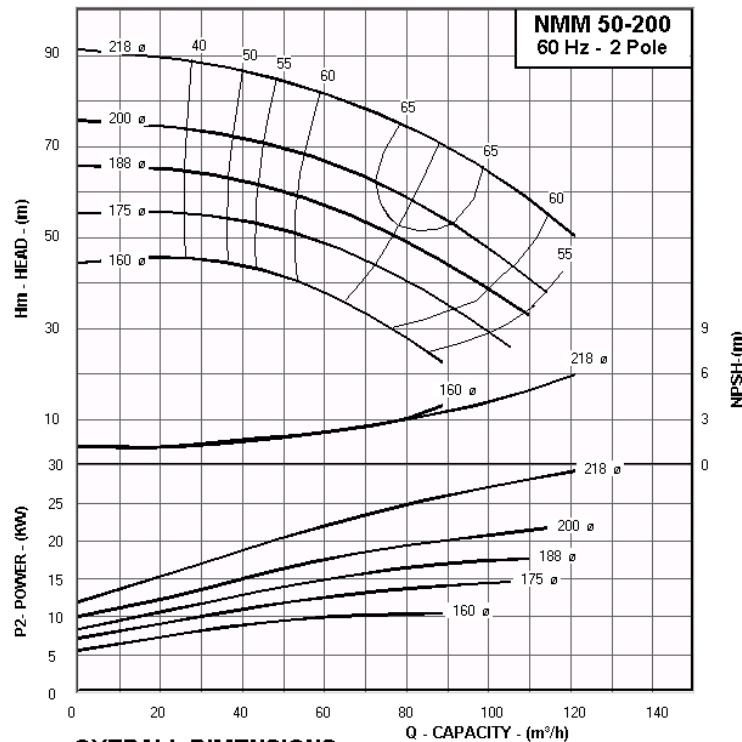
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 3500 rpm

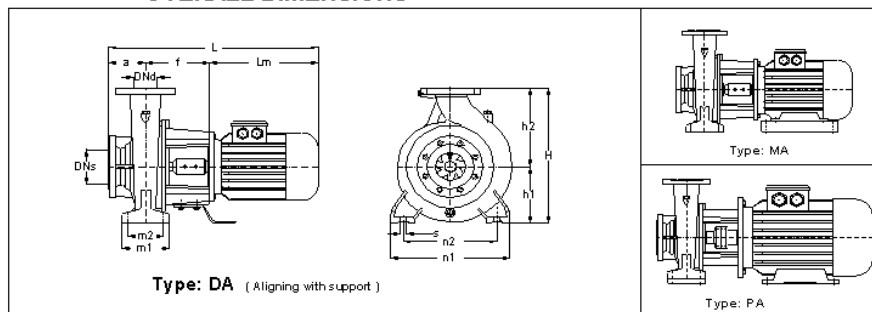


TECHNICAL DATA : NMM 50-200 - 60 Hz - 2 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 50-200 (3456 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 50-200/ 3002	218	200L2	30	337	PA	65	50	100	45	637	160	200	200	100	70	265	212	12	782	360
NMM 50-200/ 2202	200	180M2	22	336	PA	65	50	100	230	544	160	200	180	100	70	265	212	12	874	360
NMM 50-200/ 1852	188	160L2	18.5	335	O	65	50	100	230	528	160	200	160	100	70	265	212	12	858	360
NMM 50-200/ 1502	175	160M2	15	335	O	65	50	100	230	484	160	200	160	100	70	265	212	12	814	360
NMM 50-200/ 1102	160	160M2	11	335	O	65	50	100	230	484	160	200	160	100	70	265	212	12	814	360

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 50-200/ 3002	218	35	ML7+K6	A2.23	F6
NMM 50-200/ 2202	200	30	ML2c	A2.22	F5
NMM 50-200/ 1852	188	30	ML2b	A2.22	F5
NMM 50-200/ 1502	175	30	ML2b	A2.22	F5
NMM 50-200/ 1102	160	30	ML2b	A2.22	F5

Flange Dimensions

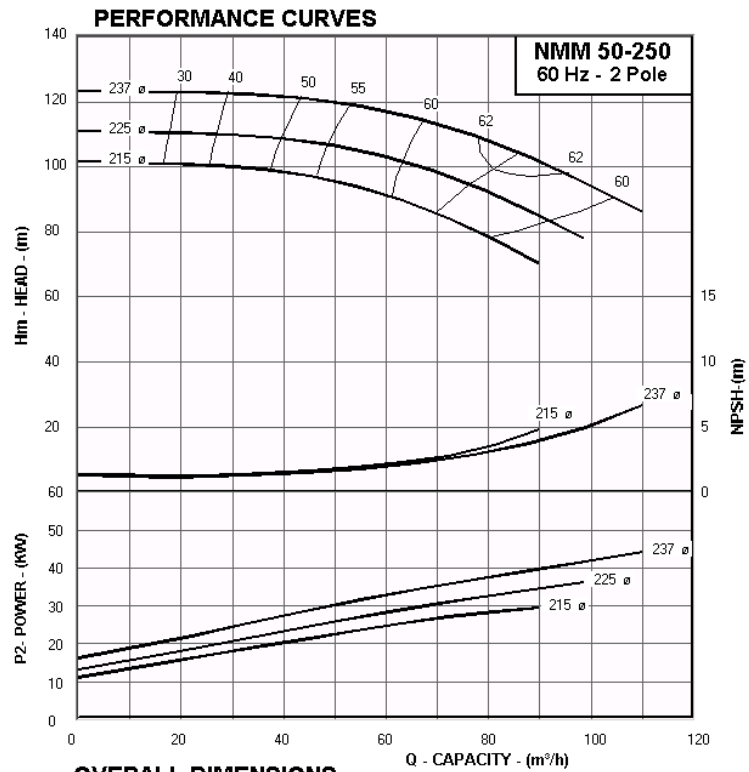
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
50	165	125	18	4

MAS NMM - Close Coupled Centrifugal Pumps

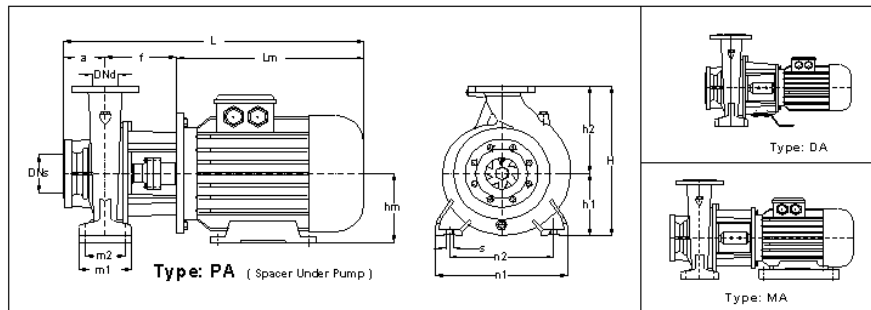
Performance Curves - 60 Hz - 3500 rpm



TECHNICAL DATA : NMM 50-250 - 60 Hz - 2 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 50-250 (3480 RPM)

Pump Size	Imp. \varnothing	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 50-250/ 4502	237	225M2	45	438	PA	65	50	100	45	680	180	225	225	125	95	320	250	12	825	405
NMM 50-250/ 3702	225	200L2	37	437	PA	65	50	100	45	637	180	225	200	125	95	320	250	12	782	405
NMM 50-250/ 3002	215	200L2	30	437	PA	65	50	100	45	637	180	225	200	125	95	320	250	12	782	405

Main Part Codes

Pump Size	Imp. \varnothing	Seal mm \varnothing	Shaft and Coupling	Adapter	Flange
NMM 50-250/ 4502	237	35	ML7+K6	A3.13	F6a
NMM 50-250/ 3702	225	35	ML7+K6	A3.13	F6
NMM 50-250/ 3002	215	35	ML7+K6	A3.13	F6

Flange Dimensions

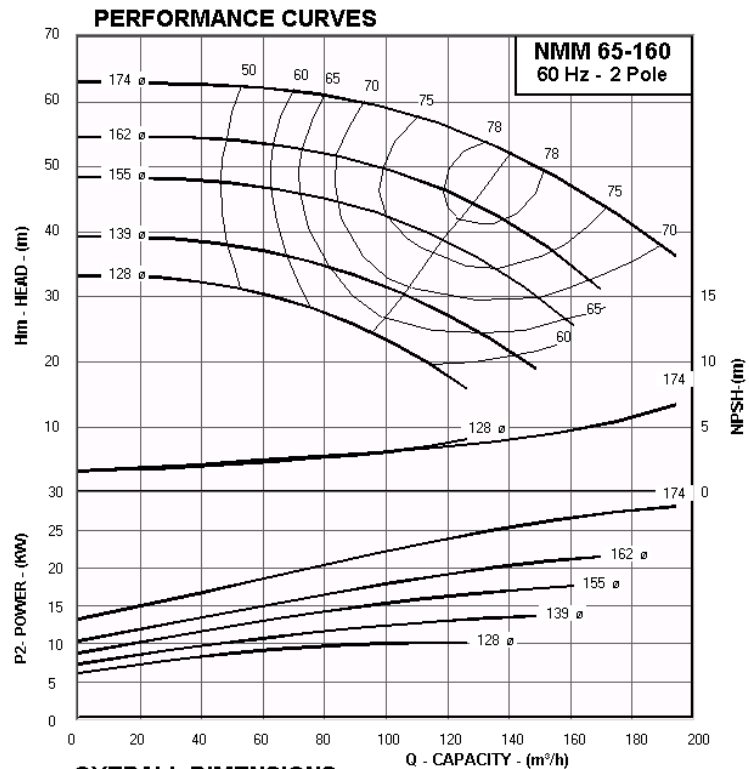
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
50	165	125	18	4

MAS NMM - Close Coupled Centrifugal Pumps

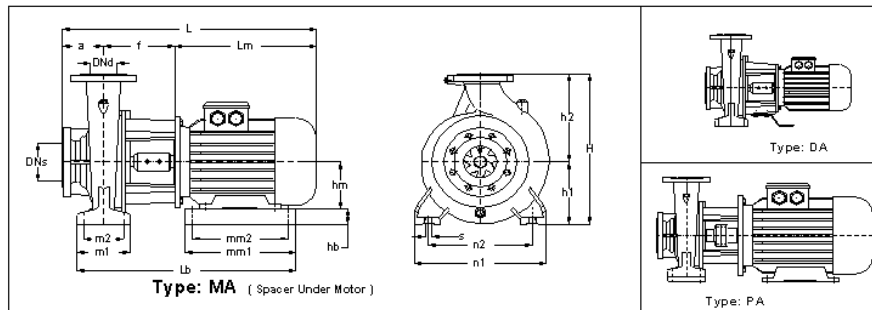
Performance Curves - 60 Hz - 3500 rpm



TECHNICAL DATA : NMM 65-160 - 60 Hz - 2 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 65-160 (3480 RPM)

Pump Size	Imp. \varnothing	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 65-160/ 3002	174	200L2	30	217	PA	80	65	100	260	637	160	200	200	125	95	280	212	12	997	360
NMM 65-160/ 2202	162	180M2	22	216	PA	80	65	100	230	544	160	200	180	125	95	280	212	12	874	360
NMM 65-160/ 1852	155	160L2	18.5	215	O	80	65	100	230	528	160	200	160	125	95	280	212	12	858	360
NMM 65-160/ 1502	139	160M2	15	215	O	80	65	100	230	484	160	200	160	125	95	280	212	12	814	360
NMM 65-160/ 1102	128	160M2	11	215	O	80	65	100	230	484	160	200	160	125	95	280	212	12	814	360

Main Part Codes

Pump Size	Imp. \varnothing	Seal mm \varnothing	Shaft and Coupling	Adapter	Flange
NMM 65-160/ 3002	174	35	ML7+K6	A1.32	F9
NMM 65-160/ 2202	162	30	ML2c	A1.32	-
NMM 65-160/ 1852	155	30	ML2b	A1.32	-
NMM 65-160/ 1502	139	30	ML2b	A1.32	-
NMM 65-160/ 1102	128	30	ML2b	A1.32	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
65	185	145	18	4

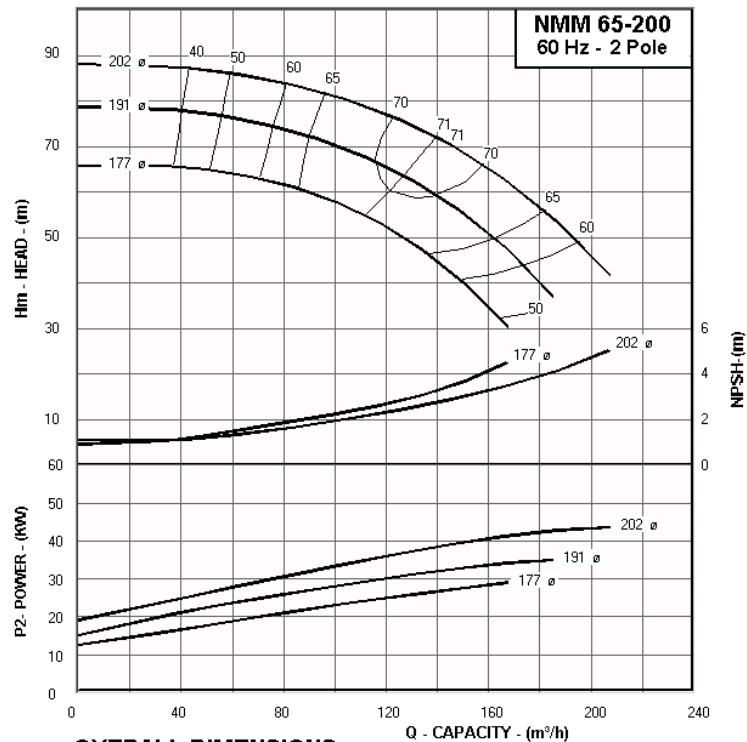
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 3500 rpm

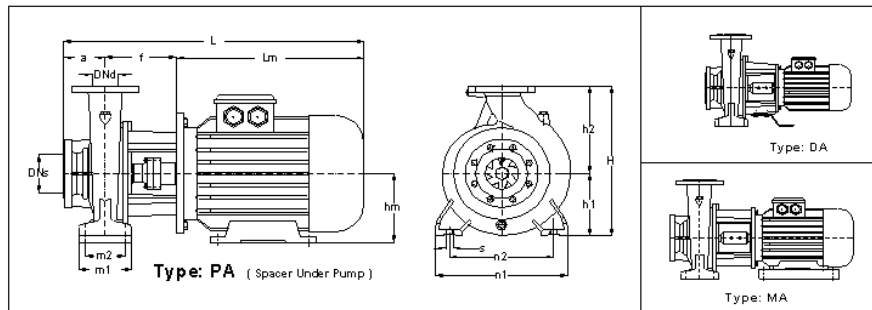


TECHNICAL DATA : NMM 65-200 - 60 Hz - 2 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 65-200 (3528 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 65-200/ 4502	202	225M2	45	348	PA	80	65	100	45	680	180	225	225	125	95	320	250	12	825	405
NMM 65-200/ 3702	191	200L2	37	347	PA	80	65	100	260	637	180	225	200	125	95	320	250	12	997	405
NMM 65-200/ 3002	177	200L2	30	347	PA	80	65	100	260	637	180	225	200	125	95	320	250	12	997	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 65-200/ 4502	202	35	ML7+K6	A2.23	F6a
NMM 65-200/ 3702	191	35	ML7+K6	A2.23	F6
NMM 65-200/ 3002	177	35	ML7+K6	A2.23	F6

Flange Dimensions

EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
65	185	145	18	4

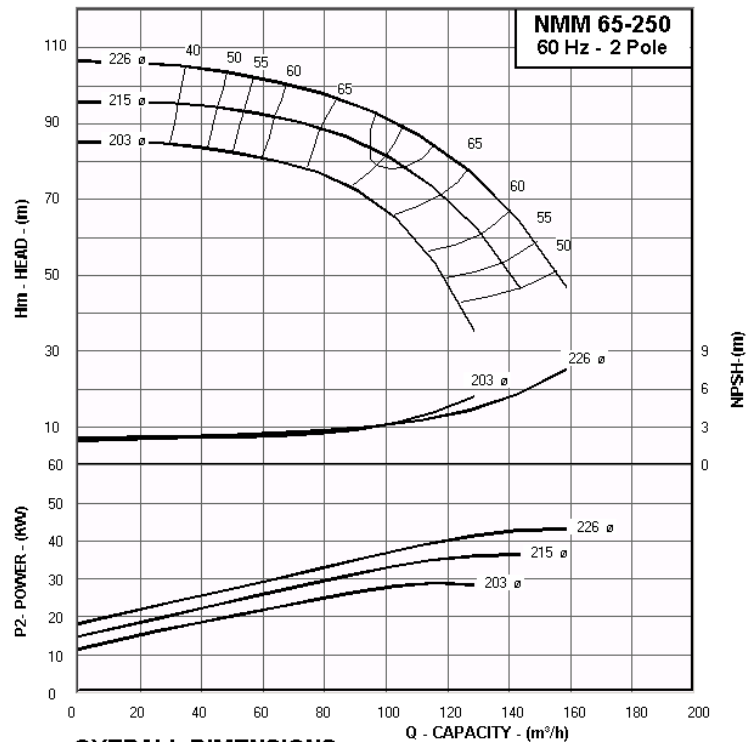
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 3500 rpm

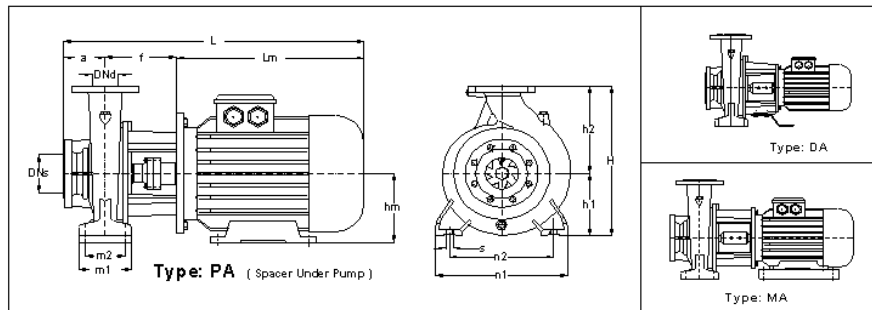


TECHNICAL DATA : NMM 65-250 - 60 Hz - 2 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 65-250 (3480 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 65-250/ 4502	226	225M2	45	618	PA	80	65	100	55	680	200	250	225	160	120	360	280	16	835	450
NMM 65-250/ 3702	215	200L2	37	617	O	80	65	100	270	637	200	250	200	160	120	360	280	16	1007	450
NMM 65-250/ 3002	203	200L2	30	617	O	80	65	100	270	637	200	250	200	160	120	360	280	16	1007	450

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 65-250/ 4502	226	35	ML8 + K6	B2.13	F8a
NMM 65-250/ 3702	215	35	ML8 + K6	B2.13	F8
NMM 65-250/ 3002	203	35	ML8 + K6	B2.13	F8

Flange Dimensions

EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
65	185	145	18	4

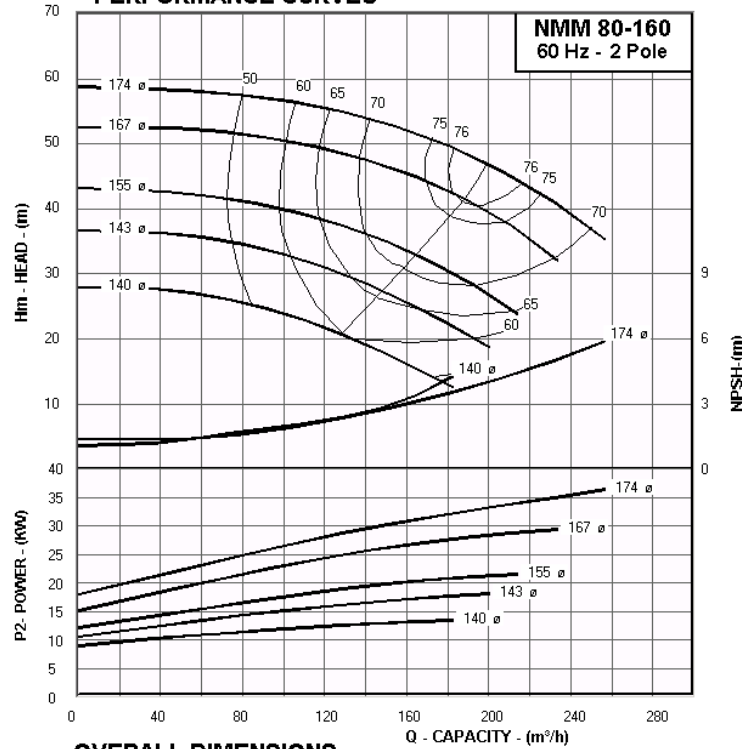
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 3500 rpm

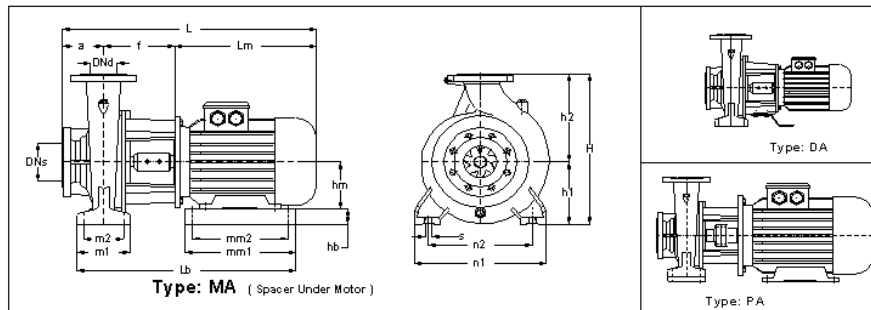


TECHNICAL DATA : NMM 80-160 - 60 Hz - 2 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 80-160 (3456 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 80-160/ 3702	174	200L2	37	227	PA	100	80	125	260	637	180	225	200	125	95	320	250	12	1022	405
NMM 80-160/ 3002	167	200L2	30	227	PA	100	80	125	260	637	180	225	200	125	95	320	250	12	1022	405
NMM 80-160/ 2202	155	180M2	22	226	O	100	80	125	230	544	180	225	180	125	95	320	250	12	899	405
NMM 80-160/ 1852	143	160L2	18.5	225	MA	100	80	125	230	528	180	225	160	125	95	320	250	12	883	405
NMM 80-160/ 1502	140	160M2	15	225	MA	100	80	125	230	484	180	225	160	125	95	320	250	12	839	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 80-160/ 3702	174	35	ML7+K6	A1.32	F9
NMM 80-160/ 3002	167	35	ML7+K6	A1.32	F9
NMM 80-160/ 2202	155	30	ML2c	A1.32	-
NMM 80-160/ 1852	143	30	ML2b	A1.32	-
NMM 80-160/ 1502	140	30	ML2b	A1.32	-

Flange Dimensions

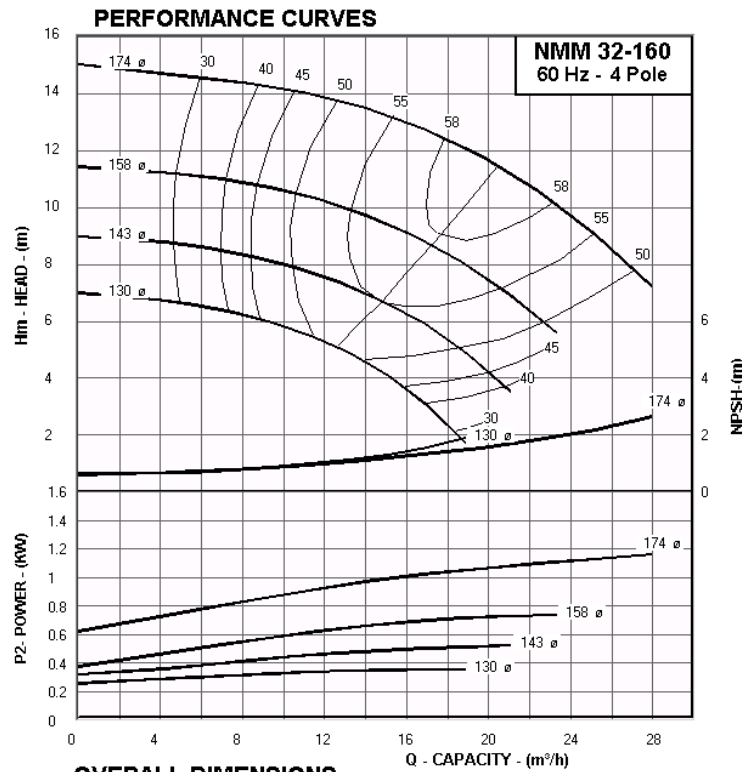
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
80	200	160	18	8

MAS NMM - Close Coupled Centrifugal Pumps

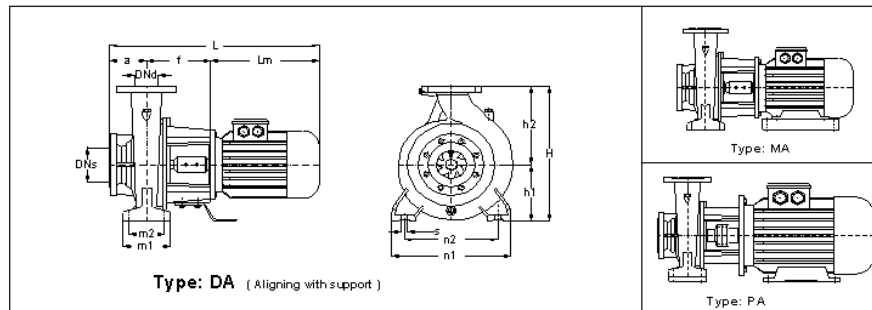
Performance Curves - 60 Hz - 1750 rpm



TECHNICAL DATA : NMM 32-160 - 60 Hz - 4 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 32-160 (1680 RPM)

Pump Size	Imp. \varnothing	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 32-160/114	174	90S 4	1.1	112	DA	50	32	80	160	250	132	160	90	100	70	240	190	12	490	292
NMM 32-160/074	158	80 4b	0.75	111	DA	50	32	80	160	233	132	160	80	100	70	240	190	12	473	292
NMM 32-160/054	143	80 4a	0.55	111	DA	50	32	80	160	233	132	160	80	100	70	240	190	12	473	292
NMM 32-160/044	130	71 4b	0.37	110	DA	50	32	80	145	212	132	160	71	100	70	240	190	12	437	292

Main Part Codes

Pump Size	Imp. \varnothing	Seal mm \varnothing	Shaft and Coupling	Adapter	Flange
NMM 32-160/114	174	20	ML1b	A1.11	-
NMM 32-160/074	158	20	ML1a	A1.11	-
NMM 32-160/054	143	20	ML1a	A1.11	-
NMM 32-160/044	130	20	ML1k	A1.1k	T1

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
50	165	125	18	4
32	140	100	18	4

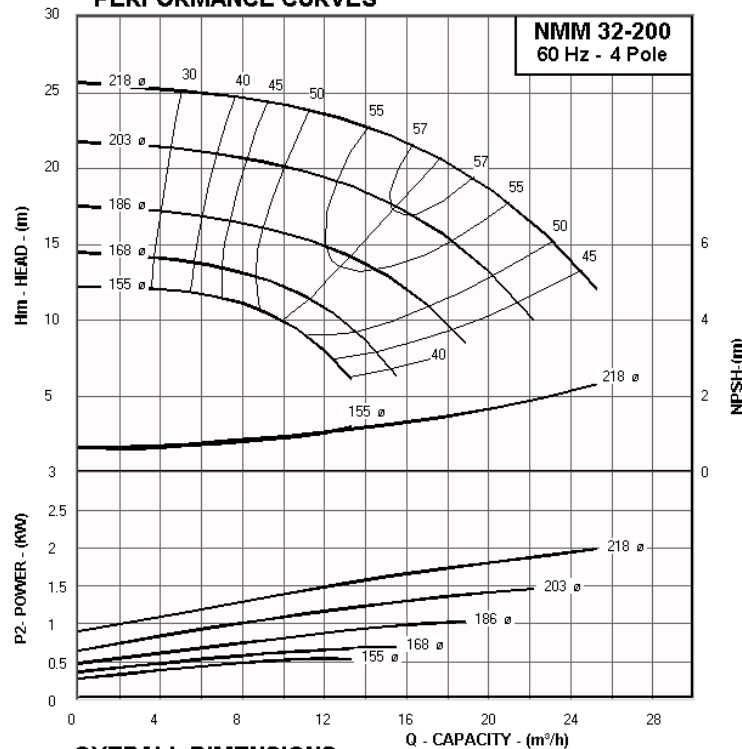
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1750 rpm

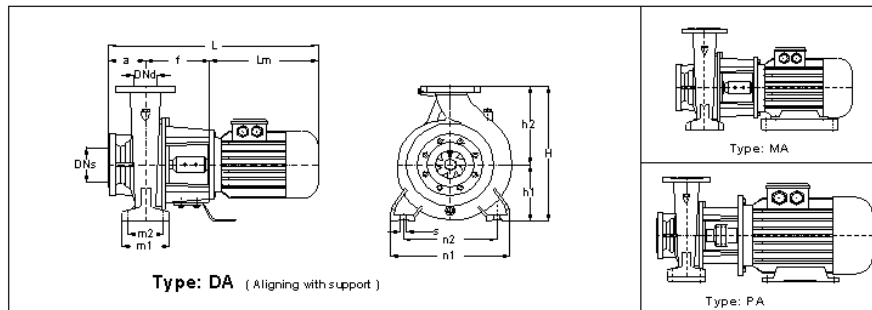


TECHNICAL DATA : NMM 32-200 - 60 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 32-200 (1680 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 32-200/ 224	218	100L4	2.2	313	DA	50	32	80	180	305	160	180	100	100	70	240	190	12	565	340
NMM 32-200/ 154	203	90L 4	1.5	312	DA	50	32	80	160	275	160	180	90	100	70	240	190	12	515	340
NMM 32-200/ 114	186	90S 4	1.1	312	DA	50	32	80	160	250	160	180	90	100	70	240	190	12	490	340
NMM 32-200/074	168	80 4b	0.75	311	DA	50	32	80	160	233	160	180	80	100	70	240	190	12	473	340
NMM 32-200/054	155	80 4a	0.55	311	DA	50	32	80	160	233	160	180	80	100	70	240	190	12	473	340

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 32-200/ 224	218	20	ML1c	A2.21	-
NMM 32-200/ 154	203	20	ML1b	A2.11	-
NMM 32-200/ 114	186	20	ML1b	A2.11	-
NMM 32-200/074	168	20	ML1a	A2.11	-
NMM 32-200/054	155	20	ML1a	A2.11	-

Flange Dimensions

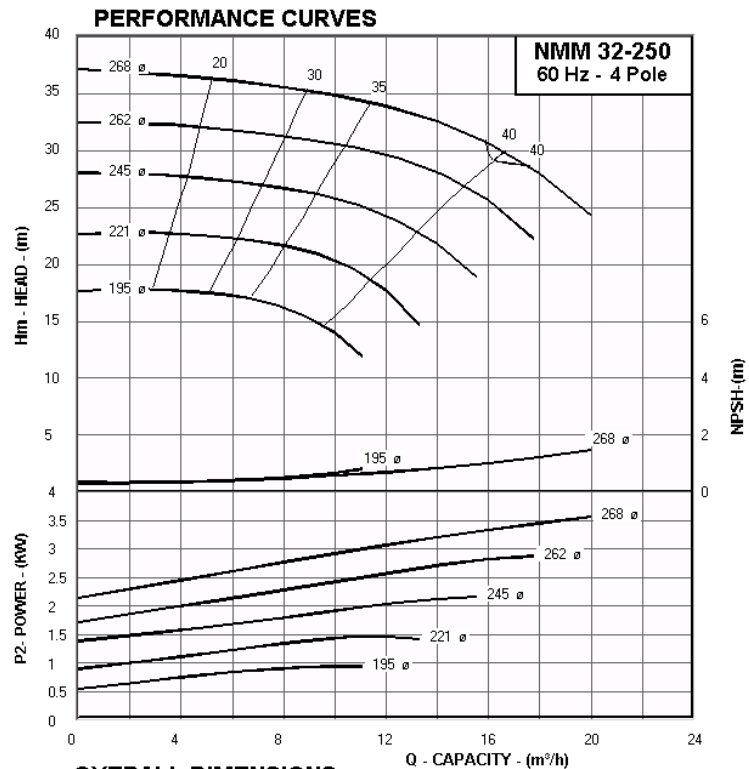
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
50	165	125	18	4
32	140	100	18	4

MAS NMM - Close Coupled Centrifugal Pumps

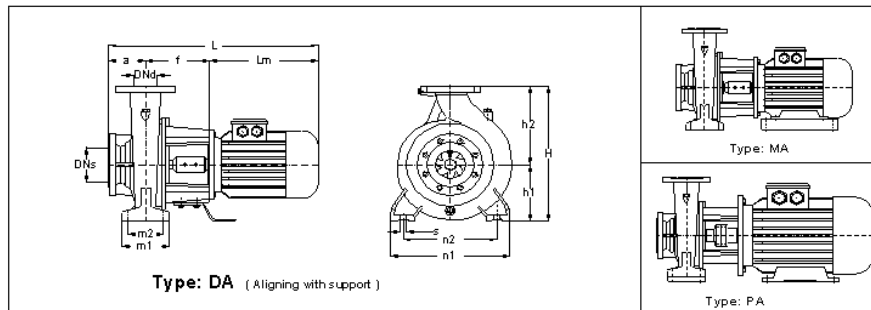
Performance Curves - 60 Hz - 1750 rpm



TECHNICAL DATA : NMM 32-250 - 60 Hz - 4 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 32-250 (1680 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 32-250/ 404	268	112M4	4	413	DA	50	32	100	190	324	180	225	112	125	95	320	250	12	614	405
NMM 32-250/ 304	262	100L4	3	413	DA	50	32	100	190	305	180	225	100	125	95	320	250	12	595	405
NMM 32-250/ 224	245	100L4	2.2	413	DA	50	32	100	190	305	180	225	100	125	95	320	250	12	595	405
NMM 32-250/ 154	221	90L 4	1.5	412	DA	50	32	100	170	275	180	225	90	125	95	320	250	12	545	405
NMM 32-250/ 114	195	90S 4	1.1	412	DA	50	32	100	170	250	180	225	90	125	95	320	250	12	520	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 32-250/ 404	268	20	ML1c	A3.11	-
NMM 32-250/ 304	262	20	ML1c	A3.11	-
NMM 32-250/ 224	245	20	ML1c	A3.11	-
NMM 32-250/ 154	221	20	ML1b	A3.0A	-
NMM 32-250/ 114	195	20	ML1b	A3.0A	-

Flange Dimensions

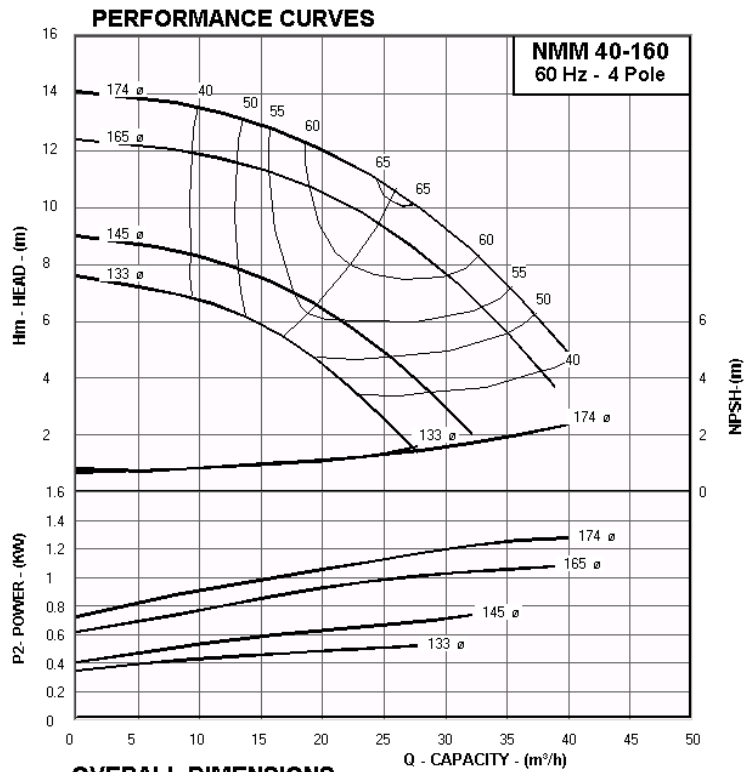
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
50	165	125	18	4
32	140	100	18	4

MAS NMM - Close Coupled Centrifugal Pumps

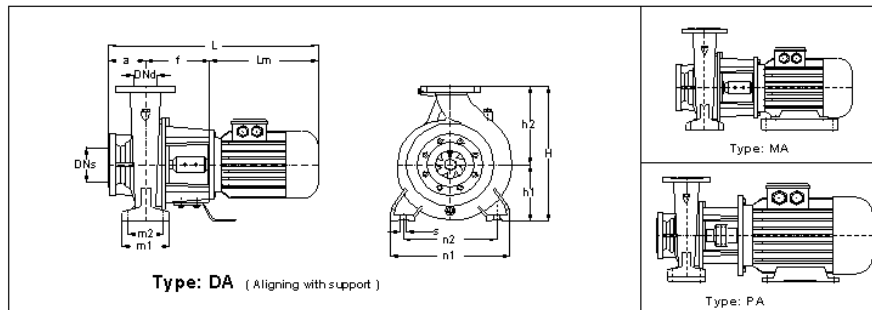
Performance Curves - 60 Hz - 1750 rpm



TECHNICAL DATA : NMM 40-160 - 60 Hz - 4 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 40-160 (1668 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 40-160/154	174	90L 4	1.5	122	DA	65	40	80	160	275	132	160	90	100	70	240	190	12	515	292
NMM 40-160/114	165	90S 4	1.1	122	DA	65	40	80	160	250	132	160	90	100	70	240	190	12	490	292
NMM 40-160/074	145	80 4b	0.75	121	DA	65	40	80	160	233	132	160	80	100	70	240	190	12	473	292
NMM 40-160/054	133	80 4a	0.55	121	DA	65	40	80	160	233	132	160	80	100	70	240	190	12	473	292

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 40-160/154	174	20	ML1b	A1.11	-
NMM 40-160/114	165	20	ML1b	A1.11	-
NMM 40-160/074	145	20	ML1a	A1.11	-
NMM 40-160/054	133	20	ML1a	A1.11	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
40	150	110	18	4

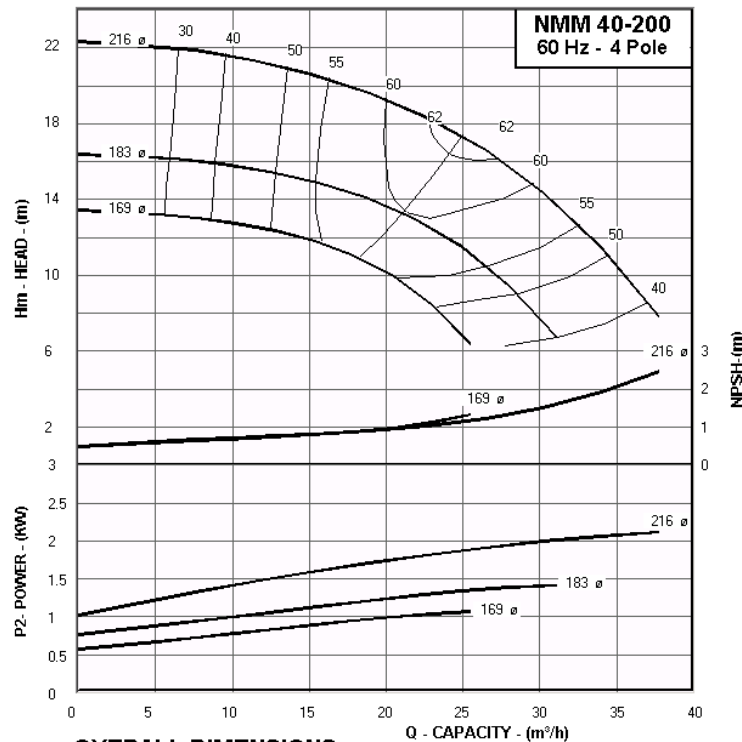
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1750 rpm

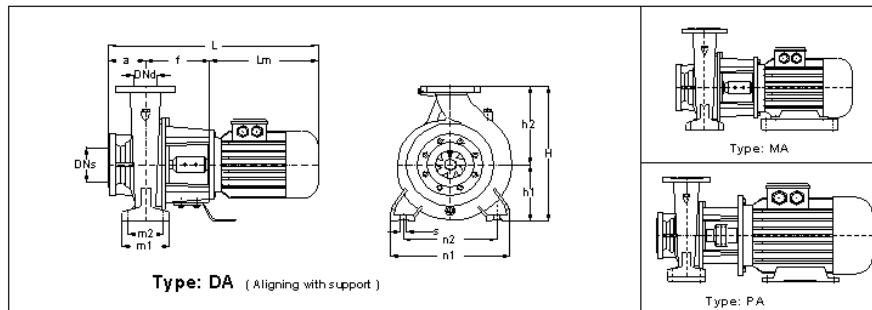


TECHNICAL DATA : NMM 40-200 - 60 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 40-200 (1680 RPM)

Pump Size	Imp. \varnothing	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 40-200/ 224	216	100L4	2.2	323	DA	65	40	100	180	305	160	180	100	100	70	265	212	12	585	340
NMM 40-200/ 154	183	90L 4	1.5	322	DA	65	40	100	160	275	160	180	90	100	70	265	212	12	535	340
NMM 40-200/ 114	169	90S 4	1.1	322	DA	65	40	100	160	250	160	180	90	100	70	265	212	12	510	340

Main Part Codes

Pump Size	Imp. \varnothing	Seal mm \varnothing	Shaft and Coupling	Adapter	Flange
NMM 40-200/ 224	216	20	ML1c	A2.21	-
NMM 40-200/ 154	183	20	ML1b	A2.11	-
NMM 40-200/ 114	169	20	ML1b	A2.11	-

Flange Dimensions

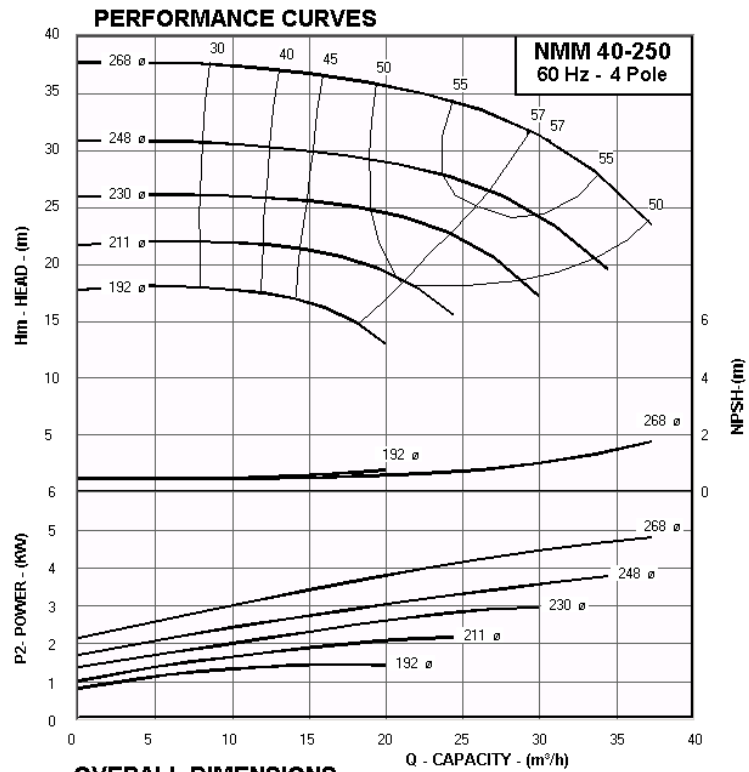
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
40	150	110	18	4

MAS NMM - Close Coupled Centrifugal Pumps

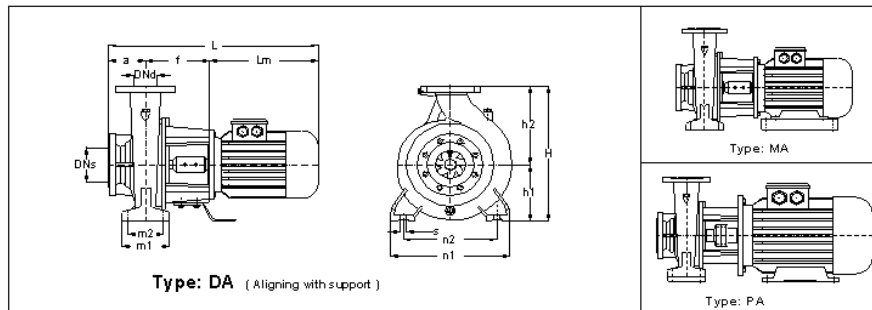
Performance Curves - 60 Hz - 1750 rpm



TECHNICAL DATA : NMM 40-250 - 60 Hz - 4 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 40-250 (1704 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 40-250/ 554	268	132S4	5.5	424	MA	65	40	100	205	375	180	225	132	125	95	320	250	12	680	405
NMM 40-250/ 404	248	112M4	4	423	DA	65	40	100	180	324	180	225	112	125	95	320	250	12	604	405
NMM 40-250/ 304	230	100L4	3	423	DA	65	40	100	180	305	180	225	100	125	95	320	250	12	585	405
NMM 40-250/ 224	211	100L4	2.2	423	DA	65	40	100	180	305	180	225	100	125	95	320	250	12	585	405
NMM 40-250/ 154	192	90L 4	1.5	422	DA	65	40	100	160	275	180	225	90	125	95	320	250	12	535	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 40-250/ 554	268	30	ML2a	A3.12	F4
NMM 40-250/ 404	248	20	ML1c	A3.11	-
NMM 40-250/ 304	230	20	ML1c	A3.11	-
NMM 40-250/ 224	211	20	ML1c	A3.11	-
NMM 40-250/ 154	192	20	ML1b	A3.0B	-

Flange Dimensions

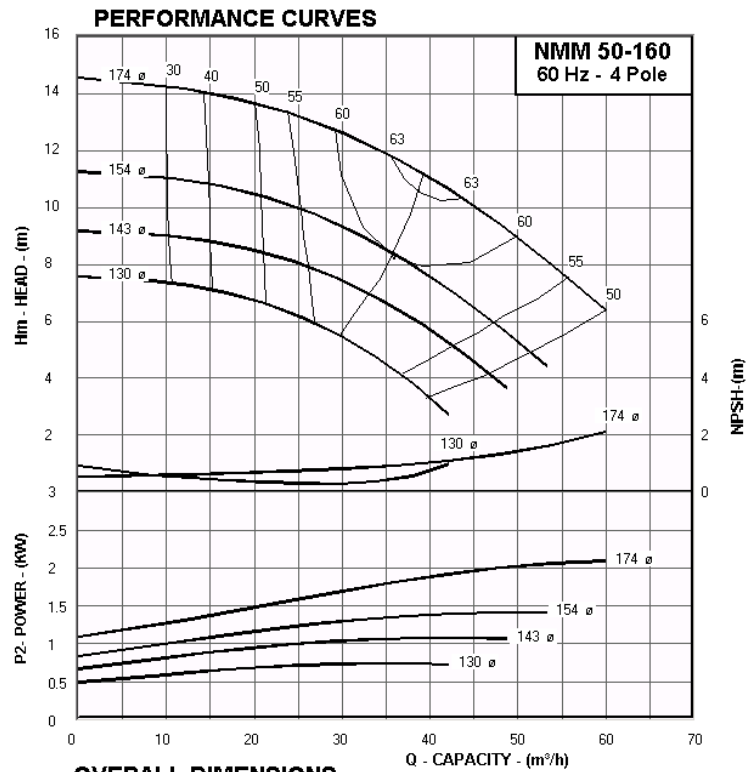
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
40	150	110	18	4

MAS NMM - Close Coupled Centrifugal Pumps

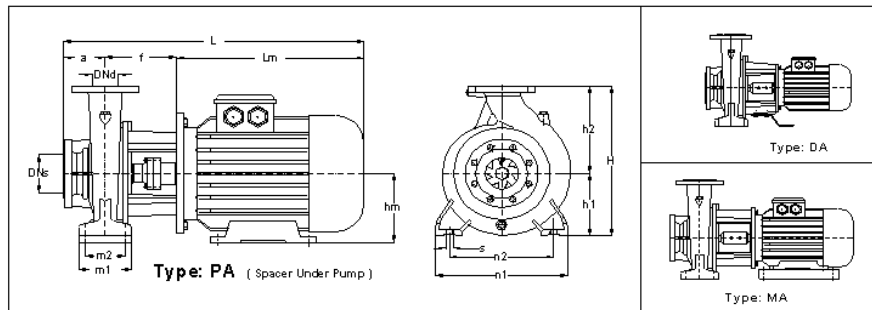
Performance Curves - 60 Hz - 1750 rpm



TECHNICAL DATA : NMM 50-160 - 60 Hz - 4 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 50-160 (1680 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 50-160/ 224	174	100L4	2.2	133	DA	65	50	100	180	305	160	180	100	100	70	265	212	12	585	340
NMM 50-160/ 154	154	90L 4	1.5	132	DA	65	50	100	160	275	160	180	90	100	70	265	212	12	535	340
NMM 50-160/ 114	143	90S 4	1.1	132	DA	65	50	100	160	250	160	180	90	100	70	265	212	12	510	340
NMM 50-160/074	130	80 4b	0.75	131	DA	65	50	100	160	233	160	180	80	100	70	265	212	12	493	340

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 50-160/ 224	174	20	ML1c	A1.11	F1
NMM 50-160/ 154	154	20	ML1b	A1.11	-
NMM 50-160/ 114	143	20	ML1b	A1.11	-
NMM 50-160/074	130	20	ML1a	A1.11	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
50	165	125	18	4

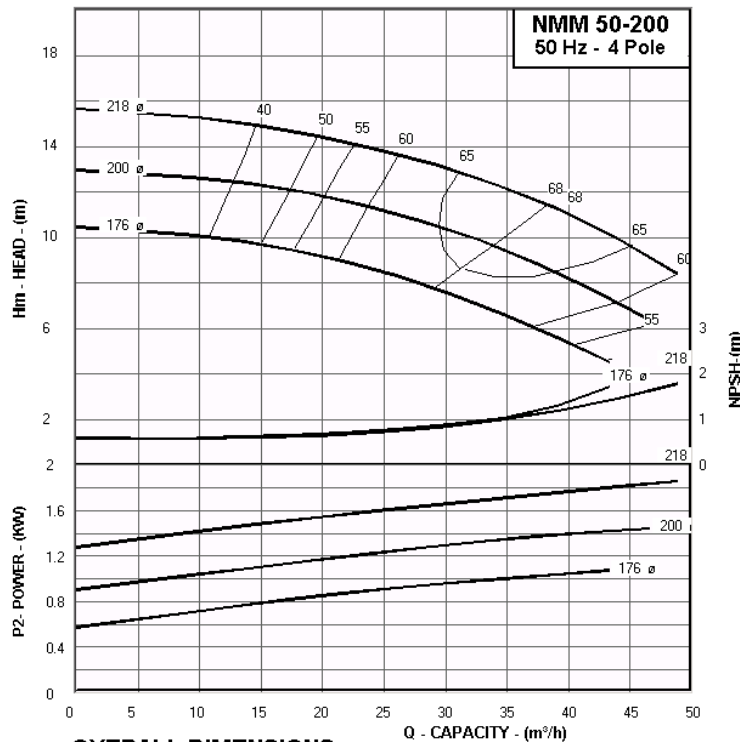
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1750 rpm

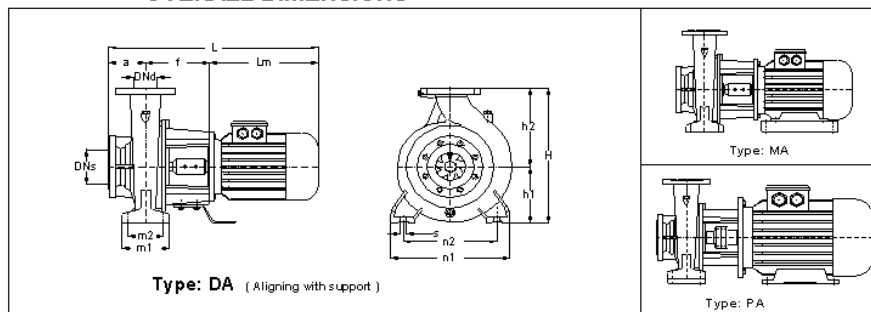


TECHNICAL DATA : NMM 50-200 - 50 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 50-200 (1740 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 50-200/ 404	218	112M4	4	333	DA	65	50	100	180	324	160	200	112	100	70	265	212	12	604	360
NMM 50-200/ 304	208	100L4	3	333	DA	65	50	100	180	305	160	200	100	100	70	265	212	12	585	360
NMM 50-200/ 224	184	100L4	2.2	333	DA	65	50	100	180	305	160	200	100	100	70	265	212	12	585	360
NMM 50-200/ 154	168	90L 4	1.5	332	DA	65	50	100	160	275	160	200	90	100	70	265	212	12	535	360

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 50-200/ 404	218	20	ML1c	A2.21	-
NMM 50-200/ 304	208	20	ML1c	A2.21	-
NMM 50-200/ 224	184	20	ML1c	A2.21	-
NMM 50-200/ 154	168	20	ML1b	A2.11	-

Flange Dimensions

EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
50	165	125	18	4

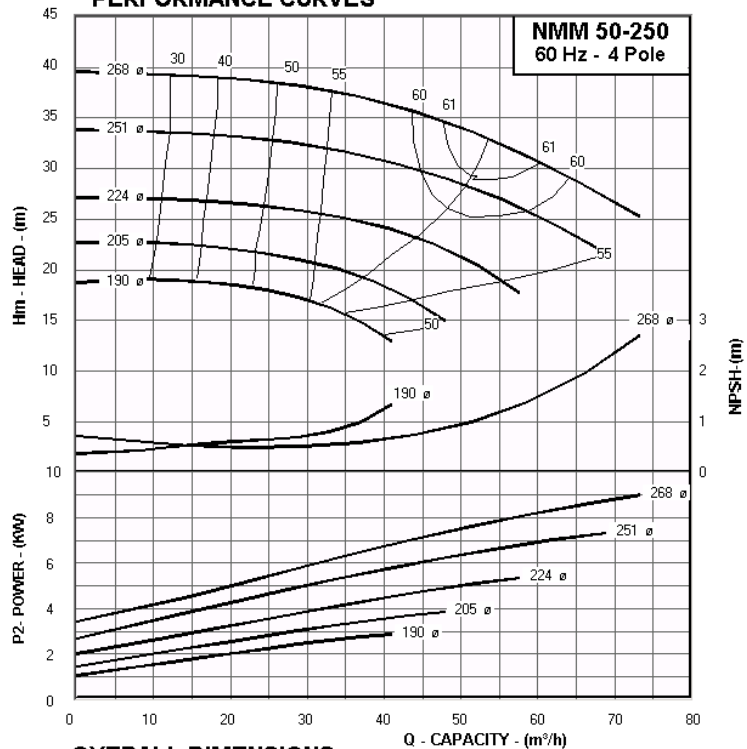
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1750 rpm

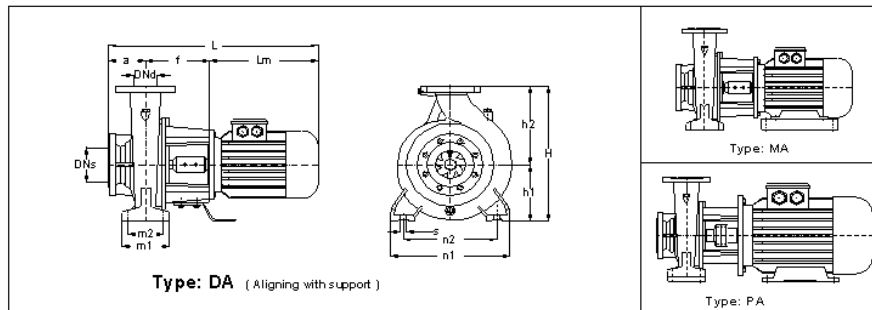


TECHNICAL DATA : NMM 50-250 - 60 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 50-250 (1716 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 50-250/ 1104	268	160M4	11	435	MA	65	50	100	230	484	180	225	160	125	95	320	250	12	814	405
NMM 50-250/ 754	251	132M4	7.5	434	MA	65	50	100	205	413	180	225	132	125	95	320	250	12	718	405
NMM 50-250/ 554	224	132S4	5.5	434	MA	65	50	100	205	375	180	225	132	125	95	320	250	12	680	405
NMM 50-250/ 404	205	112M4	4	433	DA	65	50	100	180	324	180	225	112	125	95	320	250	12	604	405
NMM 50-250/ 304	190	100L4	3	433	DA	65	50	100	180	305	180	225	100	125	95	320	250	12	585	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 50-250/ 1104	268	30	ML2b	A3.12	F5
NMM 50-250/ 754	251	30	ML2a	A3.12	F4
NMM 50-250/ 554	224	30	ML2a	A3.12	F4
NMM 50-250/ 404	205	20	ML1c	A3.11	-
NMM 50-250/ 304	190	20	ML1c	A3.11	-

Flange Dimensions

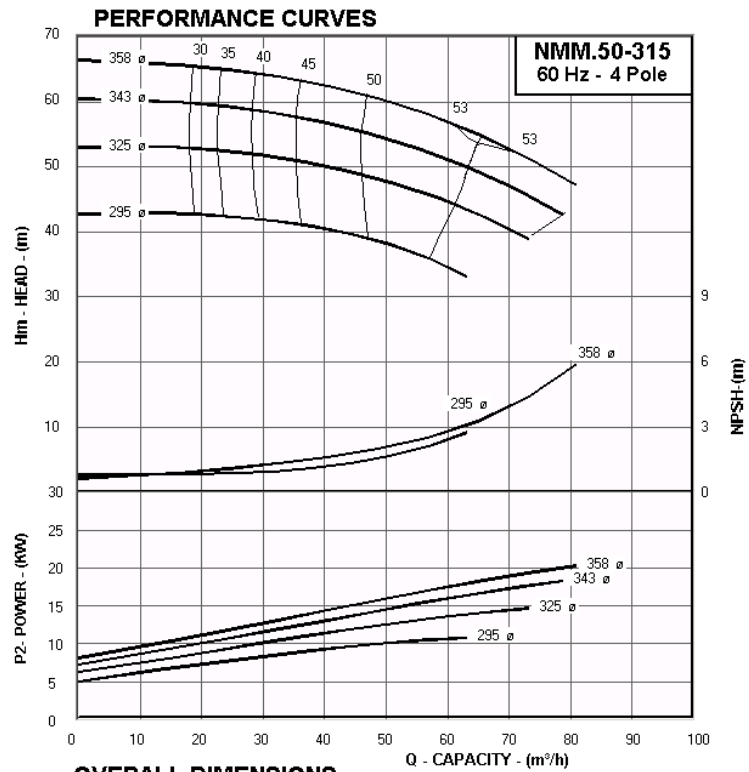
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
50	165	125	18	4

MAS NMM - Close Coupled Centrifugal Pumps

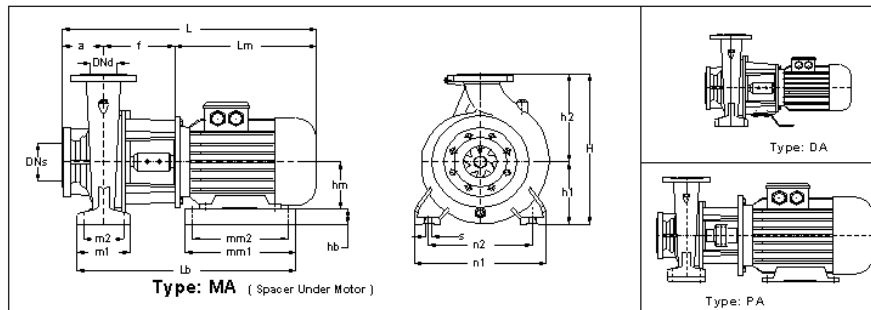
Performance Curves - 60 Hz - 1750 rpm



TECHNICAL DATA : NMM.50-315 - 60 Hz - 4 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM.50-315 (1740 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM.50-315/ 2204	358	180L4	22	916	MA	80	50	125	240	582	225	280	180	125	95	345	280	12	947	505
NMM.50-315/ 1854	343	180M4	18.5	916	MA	80	50	125	240	544	225	280	180	125	95	345	280	12	909	505
NMM.50-315/ 1504	325	160L4	15	915	MA	80	50	125	240	528	225	280	160	125	95	345	280	12	893	505
NMM.50-315/ 1104	295	160M4	11	915	MA	80	50	125	240	484	225	280	160	125	95	345	280	12	849	505

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM.50-315/ 2204	358	30	ML4c	B4.12	-
NMM.50-315/ 1854	343	30	ML4c	B4.12	-
NMM.50-315/ 1504	325	30	ML4b	B4.12	-
NMM.50-315/ 1104	295	30	ML4b	B4.12	-

Flange Dimensions

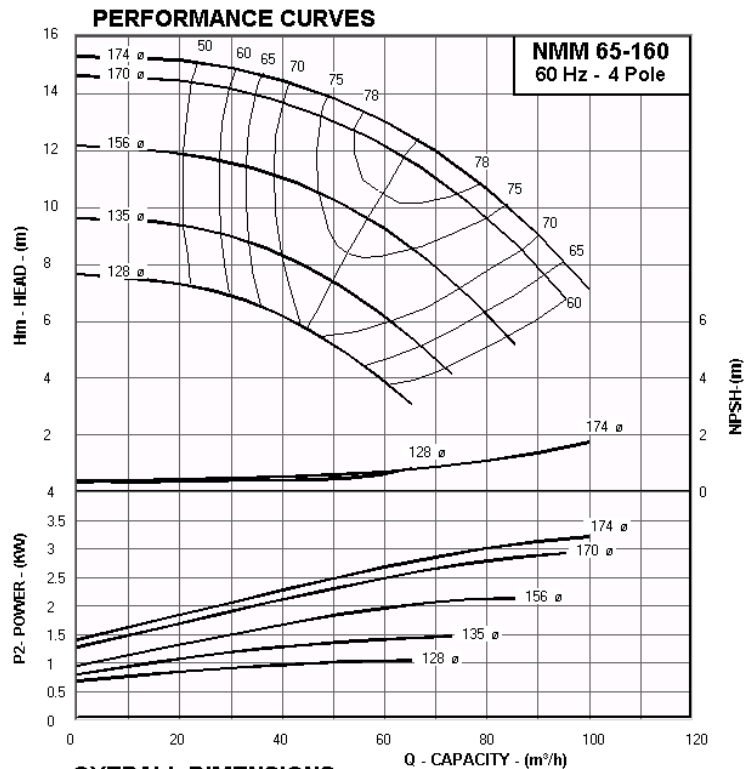
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
50	165	125	18	4

MAS NMM - Close Coupled Centrifugal Pumps

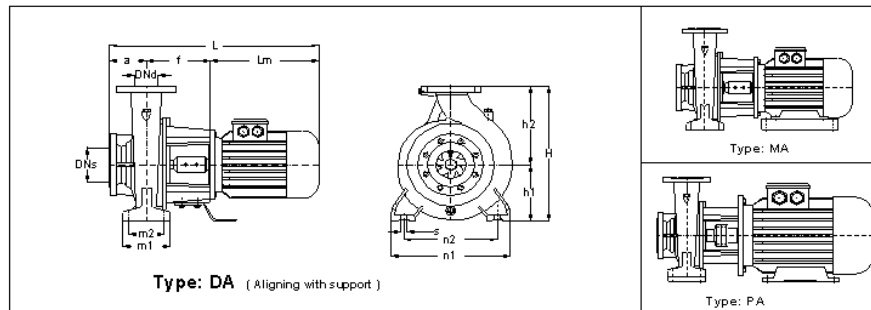
Performance Curves - 60 Hz - 1750 rpm



TECHNICAL DATA : NMM 65-160 - 60 Hz - 4 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 65-160 (1704 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 65-160/ 404	174	112M4	4	213	DA	80	65	100	180	324	160	200	112	125	95	280	212	12	604	360
NMM 65-160/ 304	170	100L4	3	213	DA	80	65	100	180	305	160	200	100	125	95	280	212	12	585	360
NMM 65-160/ 224	156	100L4	2.2	213	DA	80	65	100	180	305	160	200	100	125	95	280	212	12	585	360
NMM 65-160/ 154	135	90L 4	1.5	212	DA	80	65	100	160	275	160	200	90	125	95	280	212	12	535	360
NMM 65-160/ 114	128	90S 4	1.1	212	DA	80	65	100	160	250	160	200	90	125	95	280	212	12	510	360

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 65-160/ 404	174	20	ML1c	A1.21	F1
NMM 65-160/ 304	170	20	ML1c	A1.21	F1
NMM 65-160/ 224	156	20	ML1c	A1.21	F1
NMM 65-160/ 154	135	20	ML1b	A1.21	-
NMM 65-160/ 114	128	20	ML1b	A1.21	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
65	185	145	18	4

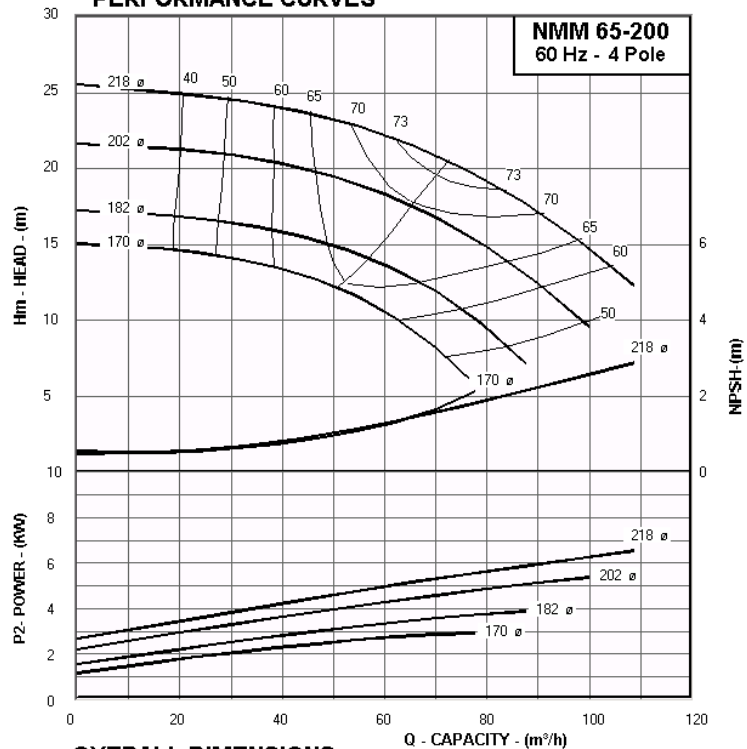
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1750 rpm

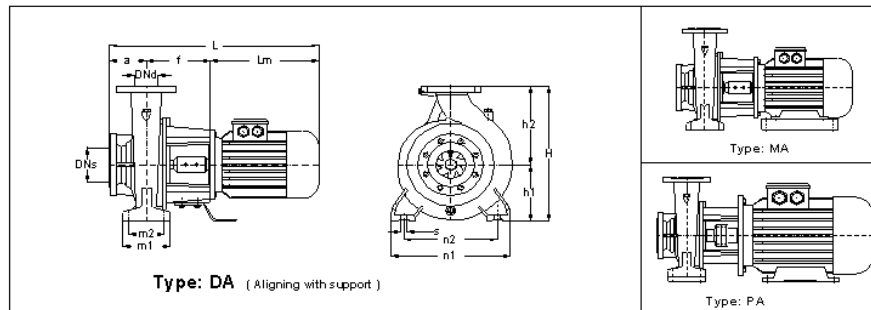


TECHNICAL DATA : NMM 65-200 - 60 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 65-200 (1704 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 65-200/ 754	218	132M4	7.5	344	MA	80	65	100	205	413	180	225	132	125	95	320	250	12	718	405
NMM 65-200/ 554	202	132S4	5.5	344	MA	80	65	100	205	375	180	225	132	125	95	320	250	12	680	405
NMM 65-200/ 404	182	112M4	4	343	DA	80	65	100	180	324	180	225	112	125	95	320	250	12	604	405
NMM 65-200/ 304	170	100L4	3	343	DA	80	65	100	180	305	180	225	100	125	95	320	250	12	585	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 65-200/ 754	218	30	ML2a	A2.22	F4
NMM 65-200/ 554	202	30	ML2a	A2.22	F4
NMM 65-200/ 404	182	20	ML1c	A2.21	-
NMM 65-200/ 304	170	20	ML1c	A2.21	-

Flange Dimensions

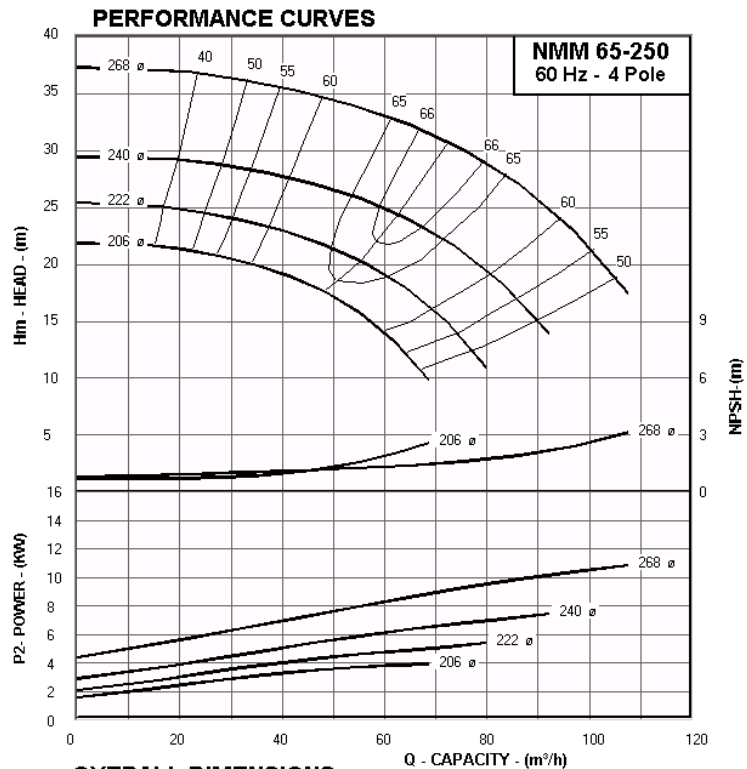
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
65	185	145	18	4

MAS NMM - Close Coupled Centrifugal Pumps

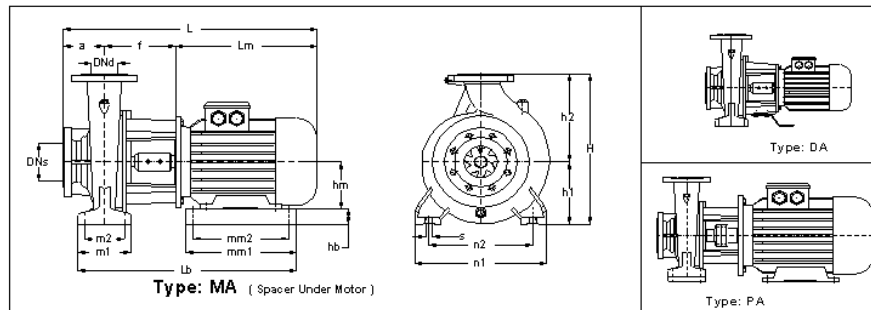
Performance Curves - 60 Hz - 1750 rpm



TECHNICAL DATA : NMM 65-250 - 60 Hz - 4 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 65-250 (1734 RPM)

Pump Size	Imp. \varnothing	Motor Size	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM 65-250/1104	268	160M4	11	615	MA	80	65	100	240	484	200	250	160	160	120	360	280	16	824	450
NMM 65-250/1104	240	160M4	11	615	MA	80	65	100	240	484	200	250	160	160	120	360	280	16	824	450
NMM 65-250/554	222	132S4	5.5	614	MA	80	65	100	215	375	200	250	132	160	120	360	280	16	690	450
NMM 65-250/404	206	112M4	4	613	DA	80	65	100	180	324	200	250	112	160	120	360	280	16	604	450

Main Part Codes

Pump Size	Imp. \varnothing	Seal mm \varnothing	Shaft and Coupling	Adapter	Flange
NMM 65-250/1104	268	30	ML4b	B2.12	F7
NMM 65-250/1104	240	30	ML4b	B2.12	F7
NMM 65-250/554	222	30	ML4a	B2.12	-
NMM 65-250/404	206	20	ML1c	A3.11	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
65	185	145	18	4

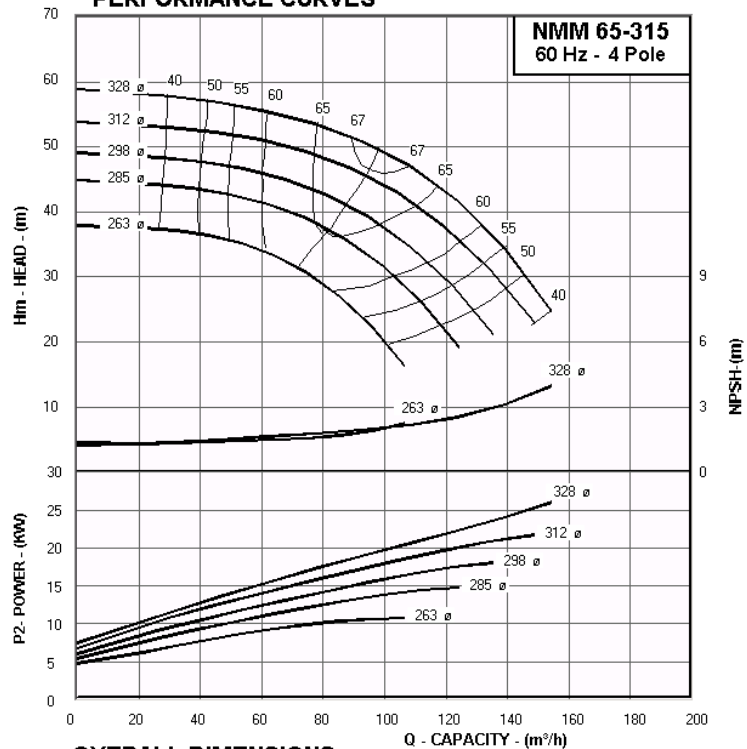
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1750 rpm

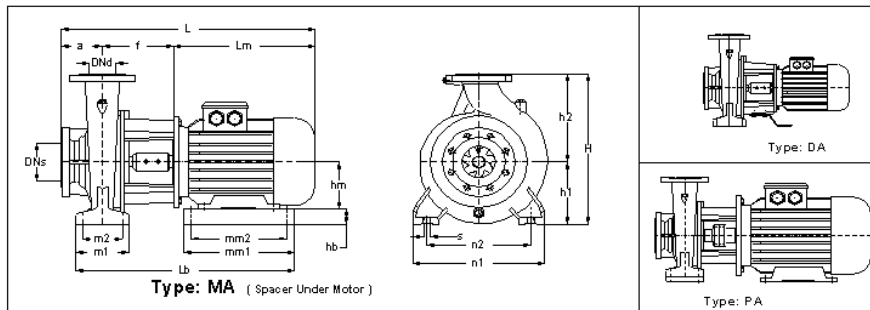


TECHNICAL DATA : NMM 65-315 - 60 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 65-315 (1740 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 65-315/ 3004	328	200L4	30	717	MA	80	65	125	270	637	225	280	200	160	120	400	315	16	1032	505
NMM 65-315/ 2204	312	180L4	22	716	MA	80	65	125	240	582	225	280	180	160	120	400	315	16	947	505
NMM 65-315/ 1854	298	180M4	18.5	716	MA	80	65	125	240	544	225	280	180	160	120	400	315	16	909	505
NMM 65-315/ 1504	285	160L4	15	715	MA	80	65	125	240	528	225	280	160	160	120	400	315	16	893	505
NMM 65-315/ 1104	263	160M4	11	715	MA	80	65	125	240	484	225	280	160	160	120	400	315	16	849	505

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 65-315/ 3004	328	35	ML8 + K6	B3.13	F9
NMM 65-315/ 2204	312	30	ML4k	B3.12	-
NMM 65-315/ 1854	298	30	ML4k	B3.12	-
NMM 65-315/ 1504	285	30	ML4b	B3.12	-
NMM 65-315/ 1104	263	30	ML4b	B3.12	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
65	185	145	18	4

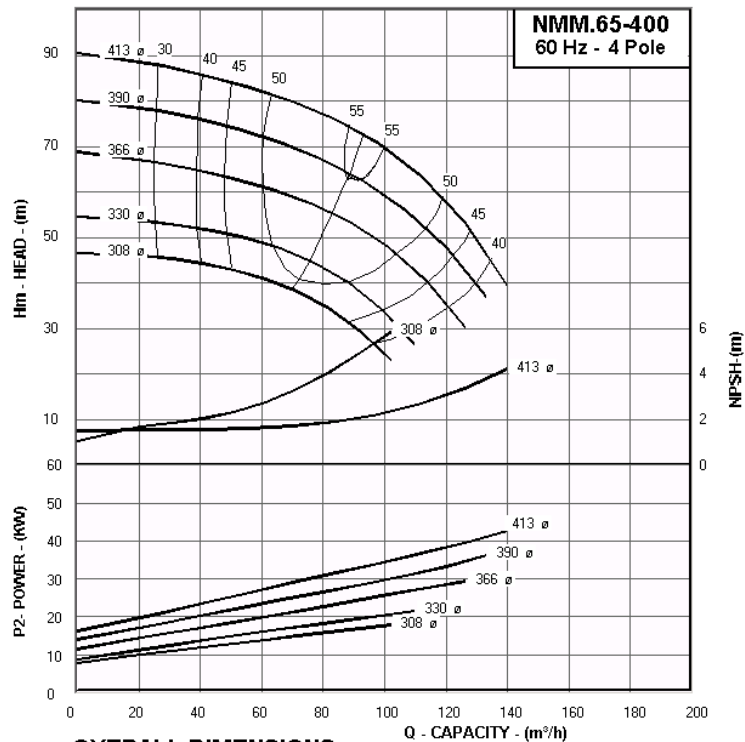
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1750 rpm

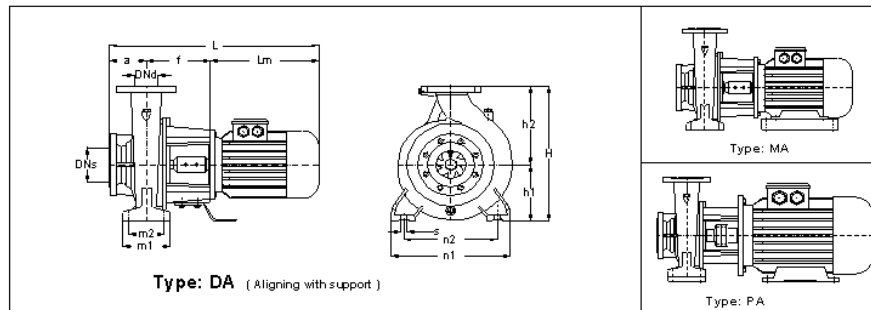


TECHNICAL DATA : NMM.65-400 - 60 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM.65-400 (1740 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM.65-400/ 4504	413	225M4	45	928	MA	100	65	125	55	680	250	355	225	160	120	400	315	16	860	605
NMM.65-400/ 3704	390	225S4	37	928	MA	100	65	125	55	655	250	355	225	160	120	400	315	16	835	605
NMM.65-400/ 3004	366	200L4	30	927	MA	100	65	125	270	637	250	355	200	160	120	400	315	16	1032	605
NMM.65-400/ 2204	330	180L4	22	926	MA	100	65	125	240	582	250	355	180	160	120	400	315	16	947	605
NMM.65-400/ 1854	308	180M4	18.5	926	MA	100	65	125	240	544	250	355	180	160	120	400	315	16	909	605

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM.65-400/ 4504	413	35	ML11a + K7a	B5.1	F10
NMM.65-400/ 3704	390	35	ML11a + K7a	B5.1	F10
NMM.65-400/ 3004	366	35	ML8 + K6	B5.1	F9
NMM.65-400/ 2204	330	30	ML4c	B5.1	-
NMM.65-400/ 1854	308	30	ML4c	B5.1	-

Flange Dimensions

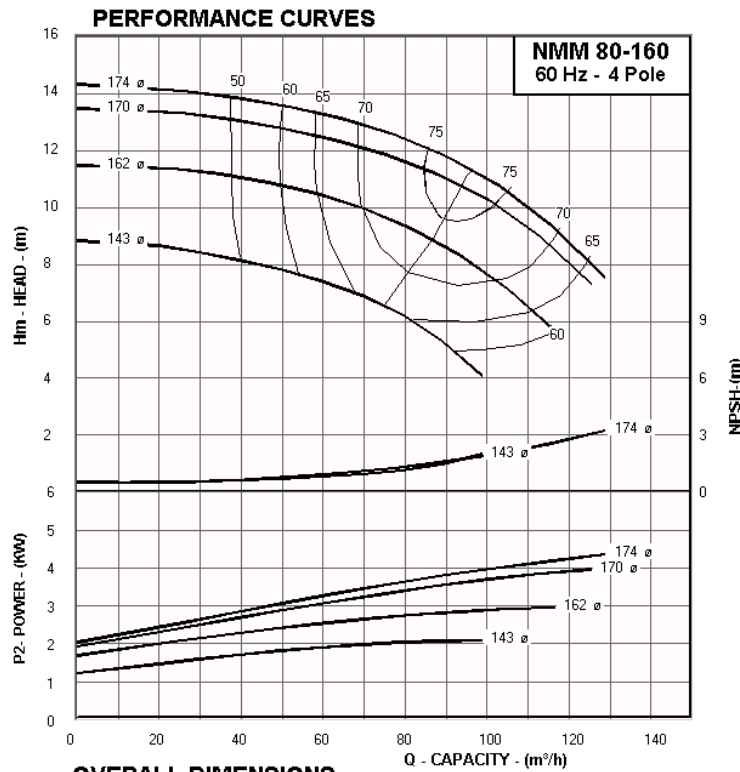
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
65	185	145	18	4

MAS NMM - Close Coupled Centrifugal Pumps

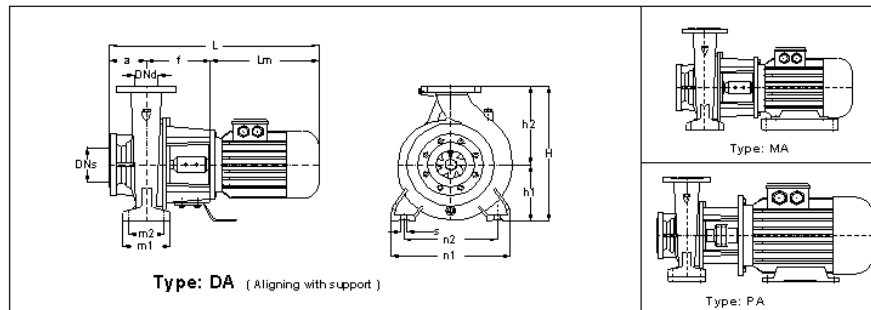
Performance Curves - 60 Hz - 1750 rpm



TECHNICAL DATA : NMM 80-160 - 60 Hz - 4 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 80-160 (1692 RPM)

Pump Size	Imp. \varnothing	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 80-160/ 554	174	132S4	5.5	224	MA	100	80	125	200	375	180	225	132	125	95	320	250	12	700	405
NMM 80-160/ 404	170	112M4	4	223	DA	100	80	125	180	324	180	225	112	125	95	320	250	12	629	405
NMM 80-160/ 304	162	100L4	3	223	DA	100	80	125	180	305	180	225	100	125	95	320	250	12	610	405
NMM 80-160/ 224	143	100L4	2.2	223	DA	100	80	125	180	305	180	225	100	125	95	320	250	12	610	405

Main Part Codes

Pump Size	Imp. \varnothing	Seal mm \varnothing	Shaft and Coupling	Adapter	Flange
NMM 80-160/ 554	174	30	ML2a	A1.22	F2
NMM 80-160/ 404	170	20	ML1c	A1.21	F1
NMM 80-160/ 304	162	20	ML1c	A1.21	F1
NMM 80-160/ 224	143	20	ML1c	A1.21	F1

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
80	200	160	18	8

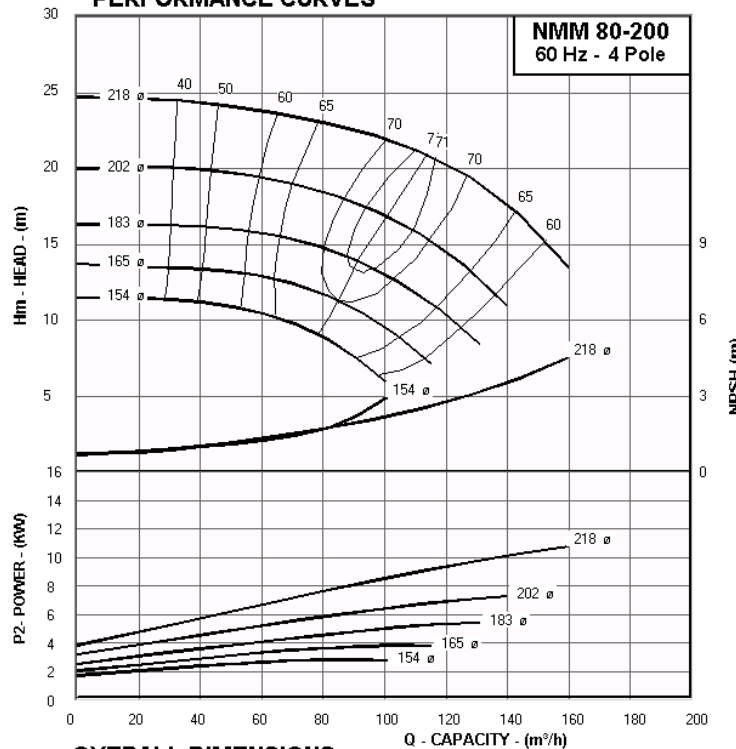
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1750 rpm

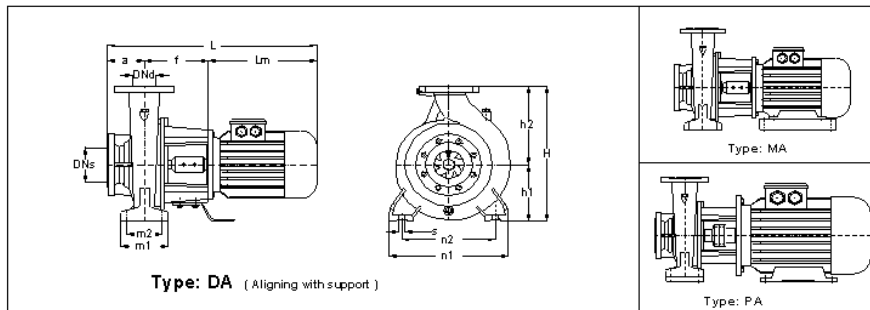


TECHNICAL DATA : NMM 80-200 - 60 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 80-200 (1716 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 80-200/ 1104	218	160M4	11	515	MA	100	80	125	240	484	180	250	160	125	95	345	280	12	849	430
NMM 80-200/ 754	202	132M4	7.5	514	MA	100	80	125	215	413	180	250	132	125	95	345	280	12	753	430
NMM 80-200/ 554	183	132S4	5.5	514	MA	100	80	125	215	375	180	250	132	125	95	345	280	12	715	430
NMM 80-200/ 404	165	112M4	4	513	DA	100	80	125	190	324	180	250	112	125	95	345	280	12	639	430
NMM 80-200/ 304	154	100L4	3	513	DA	100	80	125	190	305	180	250	100	125	95	345	280	12	620	430

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 80-200/ 1104	218	30	ML4b	B1.12	F5
NMM 80-200/ 754	202	30	ML4a	B1.12	F4
NMM 80-200/ 554	183	30	ML4a	B1.12	F4
NMM 80-200/ 404	165	30	ML3	B1.12	-
NMM 80-200/ 304	154	30	ML3	B1.12	-

Flange Dimensions

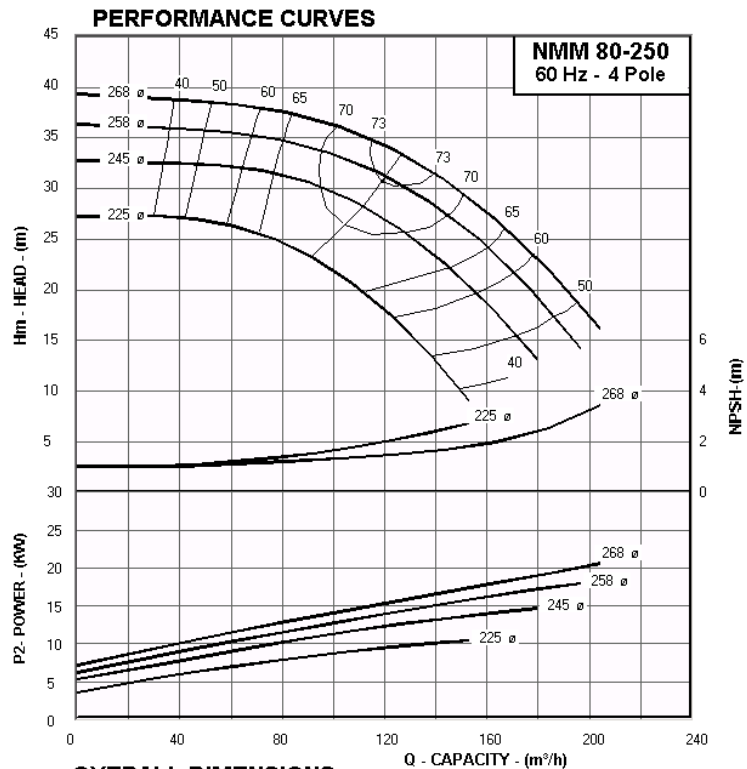
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
80	200	160	18	8

MAS NMM - Close Coupled Centrifugal Pumps

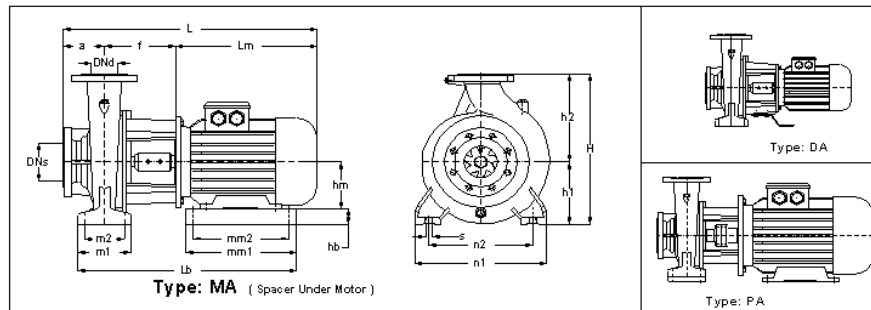
Performance Curves - 60 Hz - 1750 rpm



TECHNICAL DATA : NMM 80-250 - 60 Hz - 4 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 80-250 (1734 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM 80-250/ 2204	268	180L4	22	626	MA	100	80	125	240	582	200	280	180	160	120	400	315	16	947	480
NMM 80-250/ 1854	258	180M4	18.5	626	MA	100	80	125	240	544	200	280	180	160	120	400	315	16	909	480
NMM 80-250/ 1504	245	160L4	15	625	MA	100	80	125	240	528	200	280	160	160	120	400	315	16	893	480
NMM 80-250/ 1104	225	160M4	11	625	MA	100	80	125	240	484	200	280	160	160	120	400	315	16	849	480

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 80-250/ 2204	268	30	ML4c	B2.12	F7
NMM 80-250/ 1854	258	30	ML4c	B2.12	F7
NMM 80-250/ 1504	245	30	ML4b	B2.12	F7
NMM 80-250/ 1104	225	30	ML4b	B2.12	F7

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
80	200	160	18	8

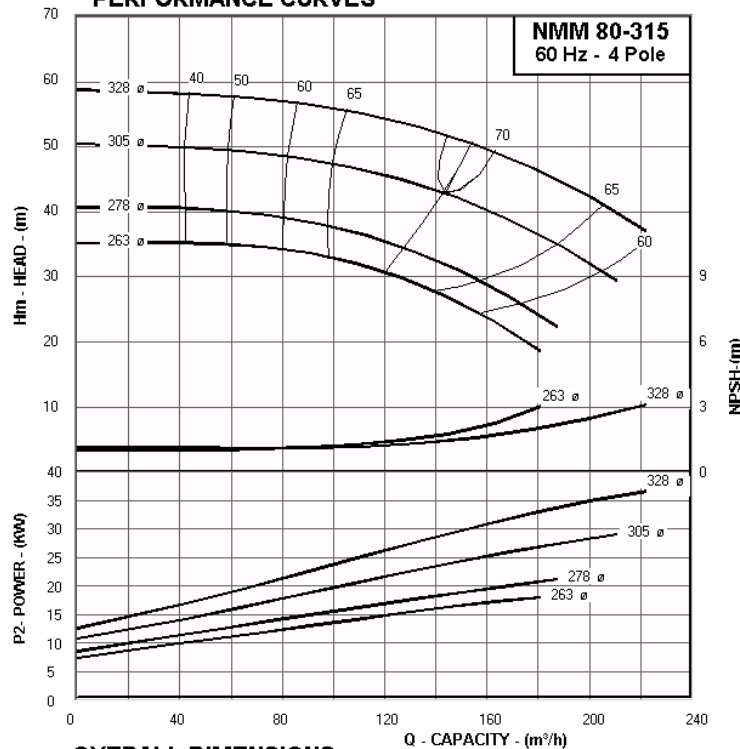
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1750 rpm

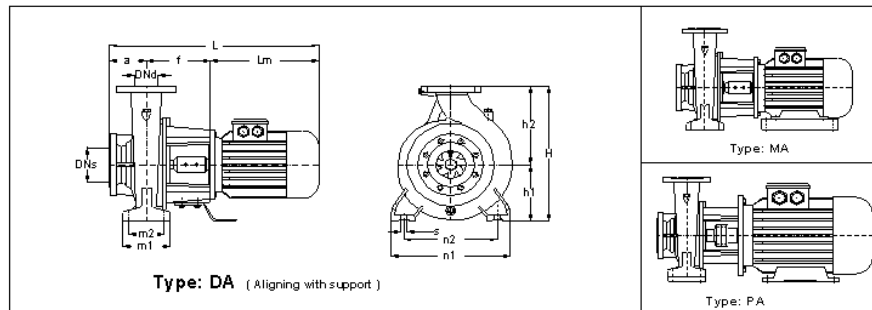


TECHNICAL DATA : NMM 80-315 - 60 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 80-315 (1740 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 80-315/ 3704	328	225S4	37	728	MA	100	80	125	55	655	250	315	225	160	120	400	315	16	835	565
NMM 80-315/ 3004	305	200L4	30	727	MA	100	80	125	270	637	250	315	200	160	120	400	315	16	1032	565
NMM 80-315/ 2204	278	180L4	22	726	MA	100	80	125	240	582	250	315	180	160	120	400	315	16	947	565
NMM 80-315/ 1854	263	180M4	18.5	726	MA	100	80	125	240	544	250	315	180	160	120	400	315	16	909	565

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 80-315/ 3704	328	35	ML11a+K7a	B3.13	F10
NMM 80-315/ 3004	305	35	ML8 + K6	B3.13	F9
NMM 80-315/ 2204	278	30	ML4k	B3.12	-
NMM 80-315/ 1854	263	30	ML4k	B3.12	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
80	200	160	18	8

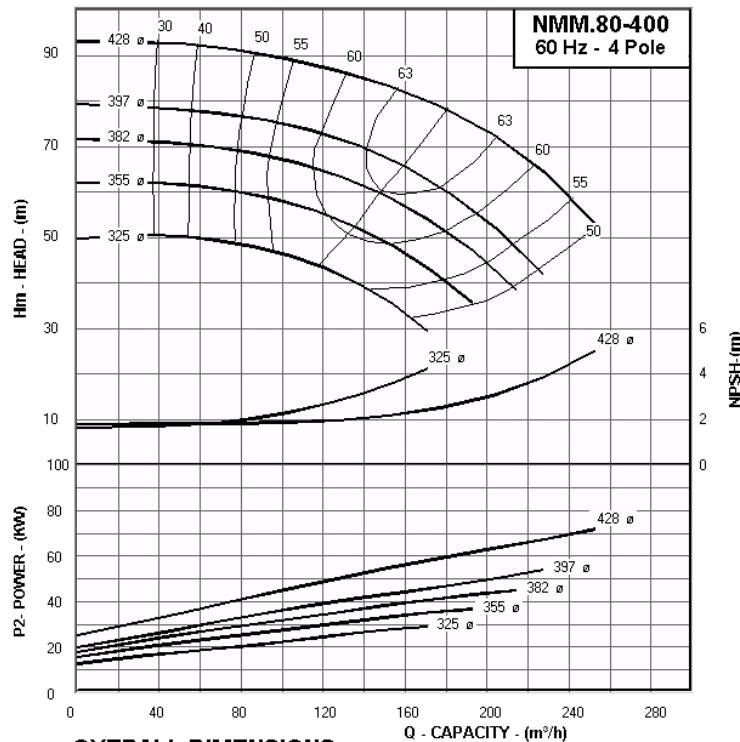
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1750 rpm

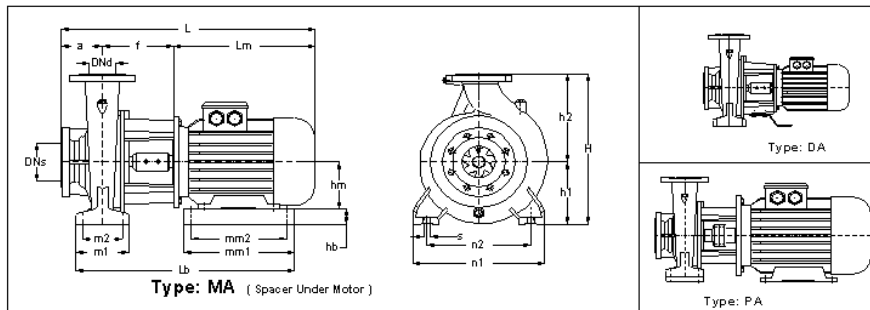


TECHNICAL DATA : NMM.80-400 - 60 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM.80-400 (1740 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM.80-400/ 7504	428	280S4	75	9310	O	100	80	125	65	818	280	355	280	200	150	500	400	20	1008	635
NMM.80-400/ 5504	397	250M4	55	939	MA	100	80	125	65	750	280	355	250	200	150	500	400	20	940	635
NMM.80-400/ 5504	382	250M4	55	939	MA	100	80	125	65	750	280	355	250	200	150	500	400	20	940	635
NMM.80-400/ 4504	355	225M4	45	938	MA	100	80	125	330	680	280	355	225	200	150	500	400	20	1135	635
NMM.80-400/ 3004	325	200L4	30	937	MA	100	80	125	280	637	280	355	200	200	150	500	400	20	1042	635

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM.80-400/ 7504	428	45	ML11 + K8	C3.1	F11
NMM.80-400/ 5504	397	45	ML11 + K7	C3.1	F11
NMM.80-400/ 5504	382	45	ML11 + K7	C3.1	F11
NMM.80-400/ 4504	355	45	ML11 + K7	C3.1	F10
NMM.80-400/ 3004	325	45	ML10 + K6	C3.1	F9

Flange Dimensions

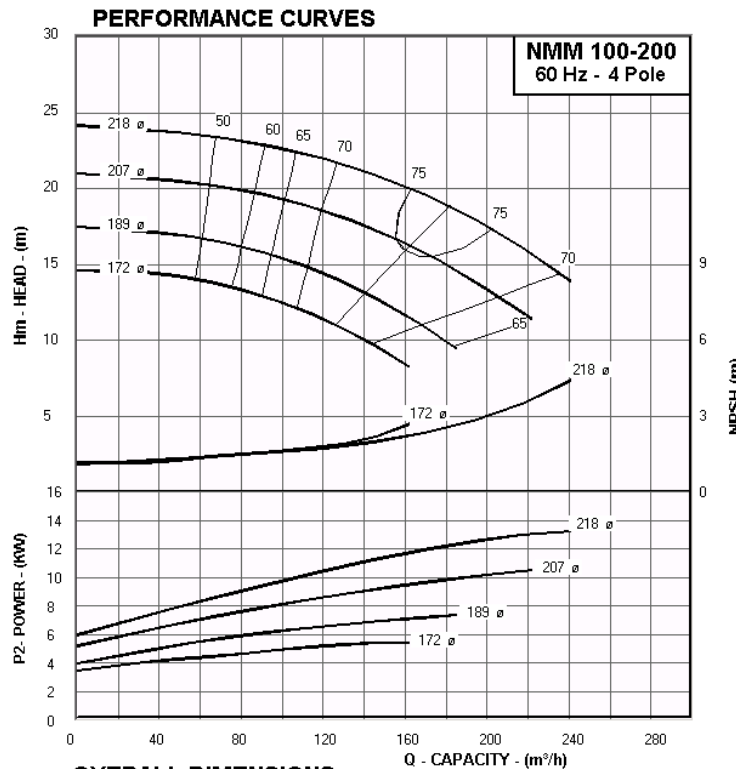
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
80	200	160	18	8

MAS NMM - Close Coupled Centrifugal Pumps

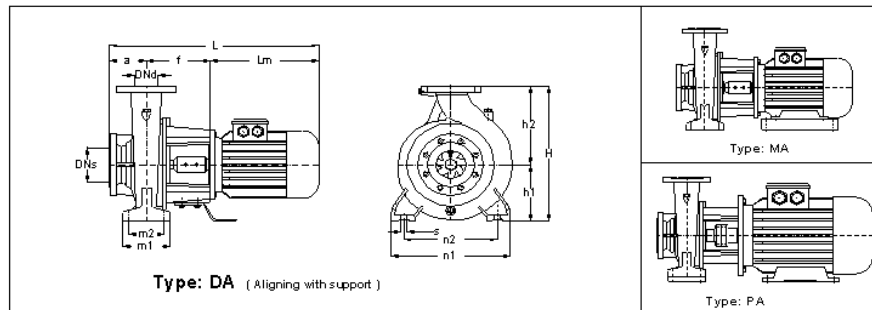
Performance Curves - 60 Hz - 1750 rpm



TECHNICAL DATA : NMM 100-200 - 60 Hz - 4 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 100-200 (1728 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 100-200/ 1504	218	160L4	15	525	MA	125	100	125	240	528	200	280	160	160	120	360	280	16	893	480
NMM 100-200/ 1104	207	160M4	11	525	MA	125	100	125	240	484	200	280	160	160	120	360	280	16	849	480
NMM 100-200/ 754	189	132M4	7.5	524	MA	125	100	125	215	413	200	280	132	160	120	360	280	16	753	480
NMM 100-200/ 554	172	132S4	5.5	524	MA	125	100	125	215	375	200	280	132	160	120	360	280	16	715	480

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 100-200/ 1504	218	30	ML4b	B1.12	F5
NMM 100-200/ 1104	207	30	ML4b	B1.12	F5
NMM 100-200/ 754	189	30	ML4a	B1.12	F4
NMM 100-200/ 554	172	30	ML4a	B1.12	F4

Flange Dimensions

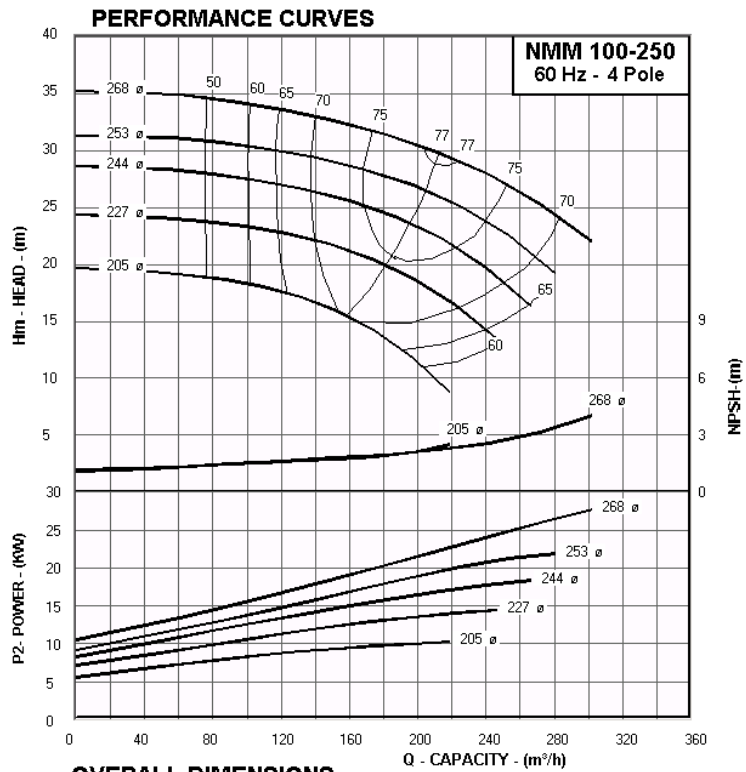
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
125	250	210	18	8
100	220	180	18	8

MAS NMM - Close Coupled Centrifugal Pumps

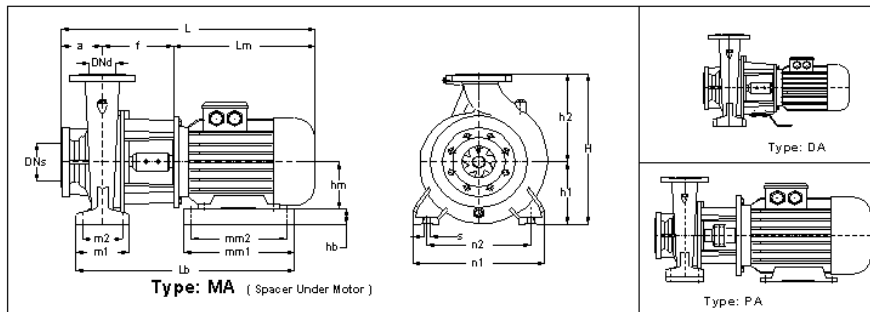
Performance Curves - 60 Hz - 1750 rpm



TECHNICAL DATA : NMM 100-250 - 60 Hz - 4 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 100-250 (1734 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 100-250/ 3004	268	200L4	30	637	MA	125	100	140	270	637	225	280	200	160	120	400	315	16	1047	505
NMM 100-250/ 3004	253	200L4	30	637	MA	125	100	140	270	637	225	280	200	160	120	400	315	16	1047	505
NMM 100-250/ 1854	244	180M4	18.5	636	MA	125	100	140	240	544	225	280	180	160	120	400	315	16	924	505
NMM 100-250/ 1504	227	160L4	15	635	MA	125	100	140	240	528	225	280	160	160	120	400	315	16	908	505
NMM 100-250/ 1104	205	160M4	11	635	MA	125	100	140	240	484	225	280	160	160	120	400	315	16	864	505

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 100-250/ 3004	268	35	ML8 + K6	B2.13	F8
NMM 100-250/ 3004	253	35	ML8 + K6	B2.13	F8
NMM 100-250/ 1854	244	30	ML4c	B2.12	F7
NMM 100-250/ 1504	227	30	ML4b	B2.12	F7
NMM 100-250/ 1104	205	30	ML4b	B2.12	F7

Flange Dimensions

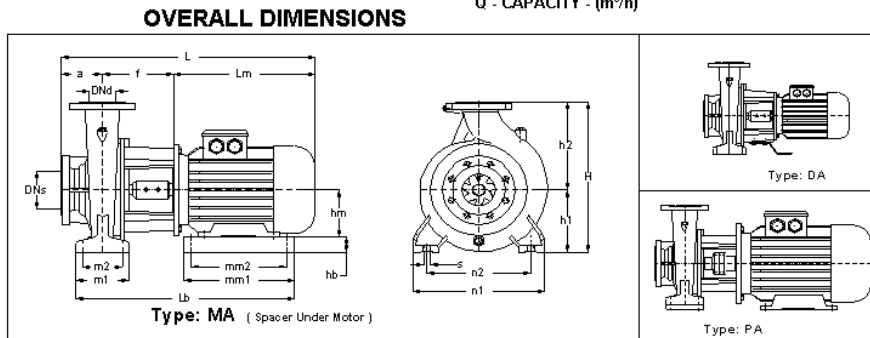
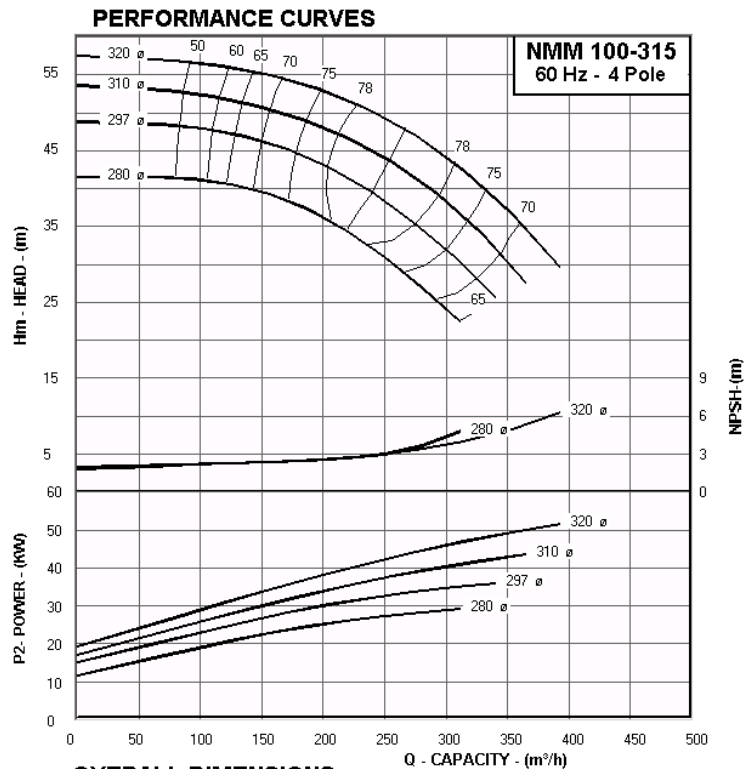
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
125	250	210	18	8
100	220	180	18	8

MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1750 rpm



TECHNICAL DATA : NMM 100-315 - 60 Hz - 4 Pole



DIMENSIONS TABLE. NMM 100-315 (1740 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 100-315/ 5504	320	250M4	55	739	O	125	100	140	55	750	250	315	250	160	120	400	315	16	945	565
NMM 100-315/ 4504	310	225M4	45	738	MA	125	100	140	55	680	250	315	225	160	120	400	315	16	875	565
NMM 100-315/ 3704	297	225S4	37	738	MA	125	100	140	55	655	250	315	225	160	120	400	315	16	850	565
NMM 100-315/ 3004	280	200L4	30	737	MA	125	100	140	270	637	250	315	200	160	120	400	315	16	1047	565

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 100-315/ 5504	320	35	ML11b+K7a	B3.13	F11
NMM 100-315/ 4504	310	35	ML11a+K7a	B3.13	F10
NMM 100-315/ 3704	297	35	ML11a+K7a	B3.13	F10
NMM 100-315/ 3004	280	35	ML8 + K6	B3.13	F9

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
125	250	210	18	8
100	220	180	18	8

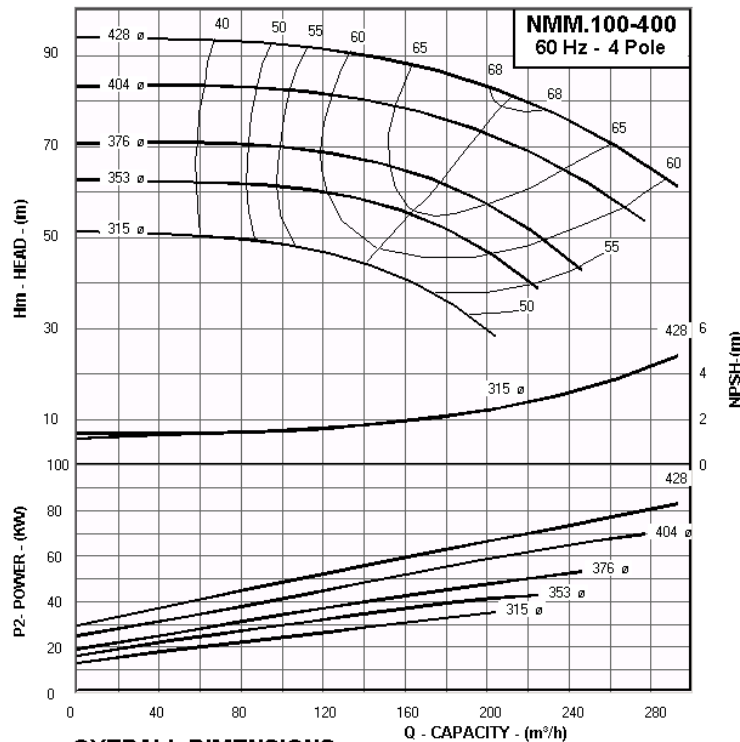
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1750 rpm

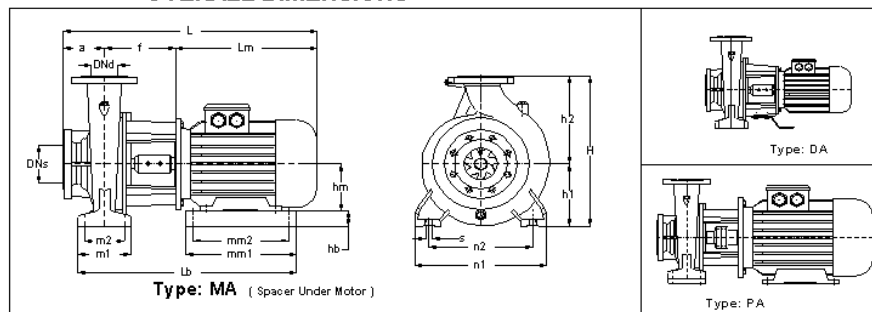


TECHNICAL DATA : NMM.100-400 - 60 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM.100-400 (1758 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM.100-400/ 9004	428	280M4	90	9410	O	125	100	140	330	870	280	355	280	200	150	500	400	20	1340	635
NMM.100-400/ 7504	404	280S4	75	9410	O	125	100	140	330	818	280	355	280	200	150	500	400	20	1288	635
NMM.100-400/ 5504	376	250M4	55	949	MA	125	100	140	330	750	280	355	250	200	150	500	400	20	1220	635
NMM.100-400/ 4504	353	225M4	45	948	MA	125	100	140	330	680	280	355	225	200	150	500	400	20	1150	635
NMM.100-400/ 3704	315	225S4	37	948	MA	125	100	140	330	655	280	355	225	200	150	500	400	20	1125	635

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM.100-400/ 9004	428	45	ML11 + K8	C3.1	F11
NMM.100-400/ 7504	404	45	ML11 + K8	C3.1	F11
NMM.100-400/ 5504	376	45	ML11 + K7	C3.1	F11
NMM.100-400/ 4504	353	45	ML11 + K7	C3.1	F10
NMM.100-400/ 3704	315	45	ML11 + K7	C3.1	F10

Flange Dimensions

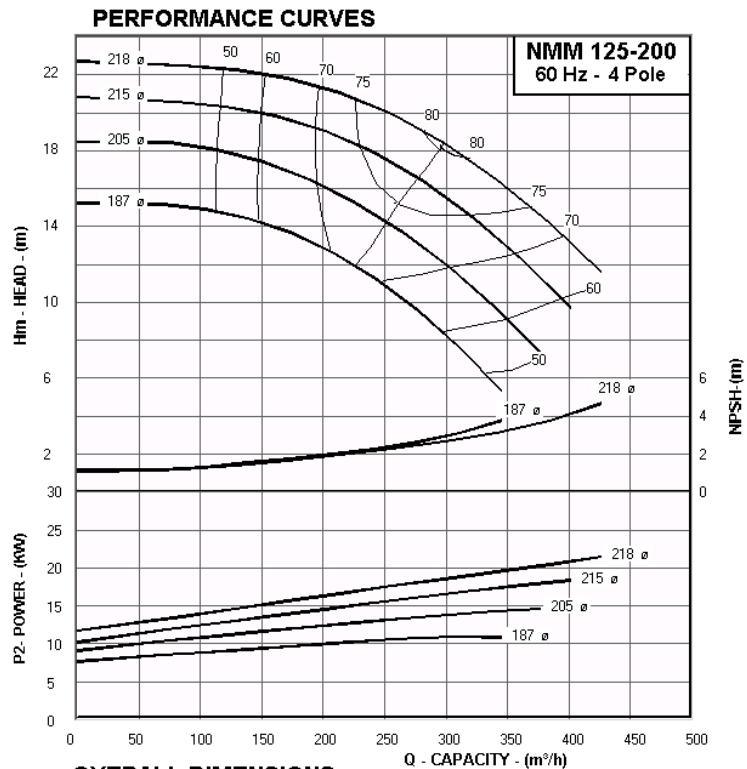
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
125	250	210	18	8
100	220	180	18	8

MAS NMM - Close Coupled Centrifugal Pumps

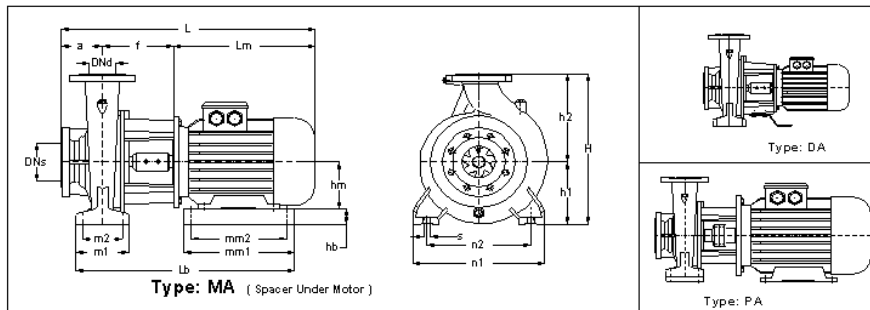
Performance Curves - 60 Hz - 1750 rpm



TECHNICAL DATA : NMM 125-200 - 60 Hz - 4 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 125-200 (1734 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 125-200/ 2204	218	180L4	22	536	MA	150	125	140	240	582	250	315	180	160	120	400	315	16	962	565
NMM 125-200/ 1854	215	180M4	18.5	536	MA	150	125	140	240	544	250	315	180	160	120	400	315	16	924	565
NMM 125-200/ 1504	205	160L4	15	535	MA	150	125	140	240	528	250	315	160	160	120	400	315	16	908	565
NMM 125-200/ 1104	187	160M4	11	535	MA	150	125	140	240	484	250	315	160	160	120	400	315	16	864	565

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 125-200/ 2204	218	30	ML4c	B1.12	F5
NMM 125-200/ 1854	215	30	ML4c	B1.12	F5
NMM 125-200/ 1504	205	30	ML4b	B1.12	F5
NMM 125-200/ 1104	187	30	ML4b	B1.12	F5

Flange Dimensions

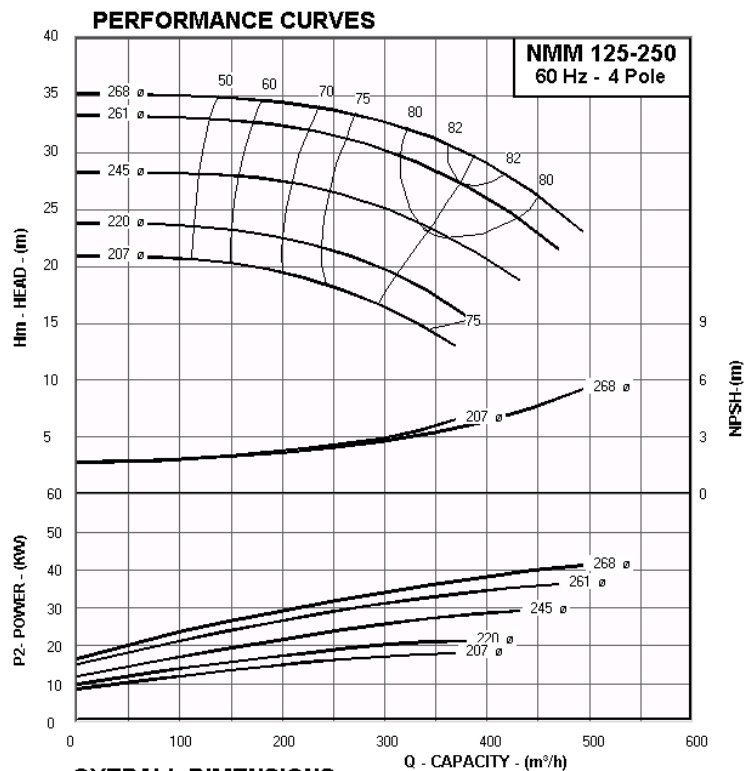
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
150	285	240	23	8
125	250	210	18	8

MAS NMM - Close Coupled Centrifugal Pumps

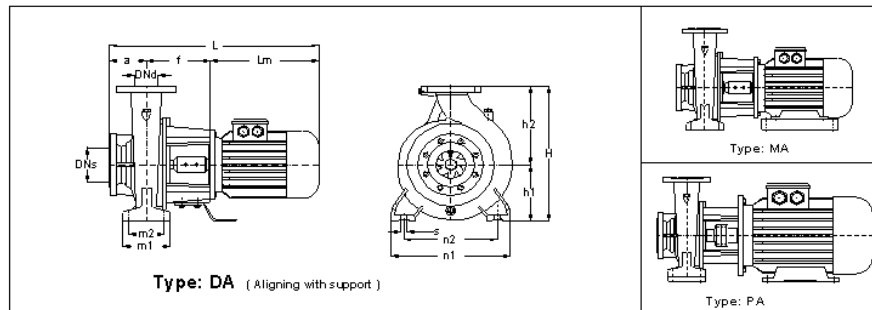
Performance Curves - 60 Hz - 1750 rpm



TECHNICAL DATA : NMM 125-250 - 60 Hz - 4 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 125-250 (1746 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 125-250/ 4504	268	225M4	45	648	MA	150	125	140	65	680	250	355	225	160	120	400	315	16	885	605
NMM 125-250/ 3704	261	225S4	37	648	MA	150	125	140	65	655	250	355	225	160	120	400	315	16	860	605
NMM 125-250/ 3004	245	200L4	30	647	MA	150	125	140	280	637	250	355	200	160	120	400	315	16	1057	605
NMM 125-250/ 2204	220	180L4	22	646	MA	150	125	140	250	582	250	355	180	160	120	400	315	16	972	605
NMM 125-250/ 1854	207	180M4	18.5	646	MA	150	125	140	250	544	250	355	180	160	120	400	315	16	934	605

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 125-250/ 4504	268	35	ML8 + K6	B2.13	F8a
NMM 125-250/ 3704	261	35	ML8 + K6	B2.13	F8a
NMM 125-250/ 3004	245	35	ML8 + K6	B2.13	F8
NMM 125-250/ 2204	220	30	ML4c	B2.12	F7
NMM 125-250/ 1854	207	30	ML4c	B2.12	F7

Flange Dimensions

EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
150	285	240	23	8
125	250	210	18	8

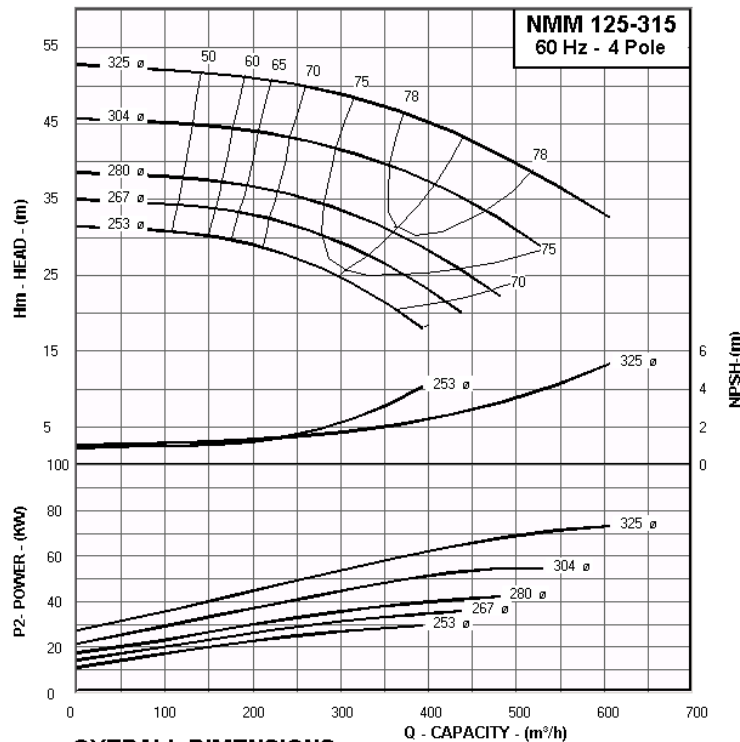
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1750 rpm

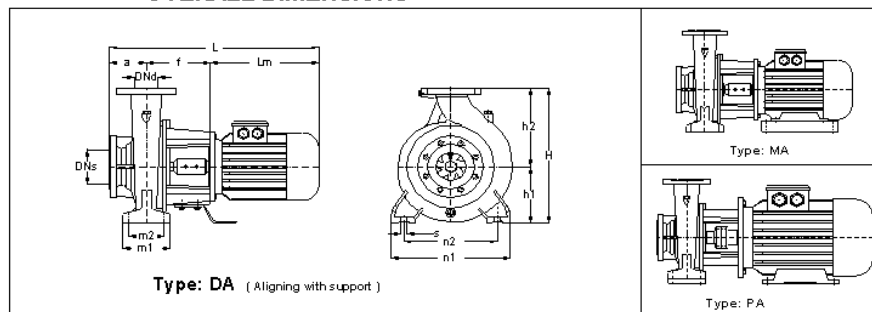


TECHNICAL DATA : NMM 125-315 - 60 Hz - 4 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM 125-315 (1746 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 125-315/ 7504	325	280S4	75	8110	O	150	125	140	70	818	280	355	280	200	150	500	400	20	1028	635
NMM 125-315/ 5504	304	250M4	55	819	MA	150	125	140	70	750	280	355	250	200	150	500	400	20	960	635
NMM 125-315/ 4504	280	225M4	45	818	MA	150	125	140	70	680	280	355	225	200	150	500	400	20	890	635
NMM 125-315/ 3704	267	225S4	37	818	MA	150	125	140	70	655	280	355	225	200	150	500	400	20	865	635
NMM 125-315/ 3004	253	200L4	30	817	MA	150	125	140	285	637	280	355	200	200	150	500	400	20	1062	635

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 125-315/ 7504	325	35	ML11b + K8	C2.13	F11
NMM 125-315/ 5504	304	35	ML11b + K7a	C2.13	F11
NMM 125-315/ 4504	280	35	ML11b + K7a	C2.13	F10
NMM 125-315/ 3704	267	35	ML11b + K7a	C2.13	F10
NMM 125-315/ 3004	253	35	ML9 + K6	C2.13	F9

Flange Dimensions

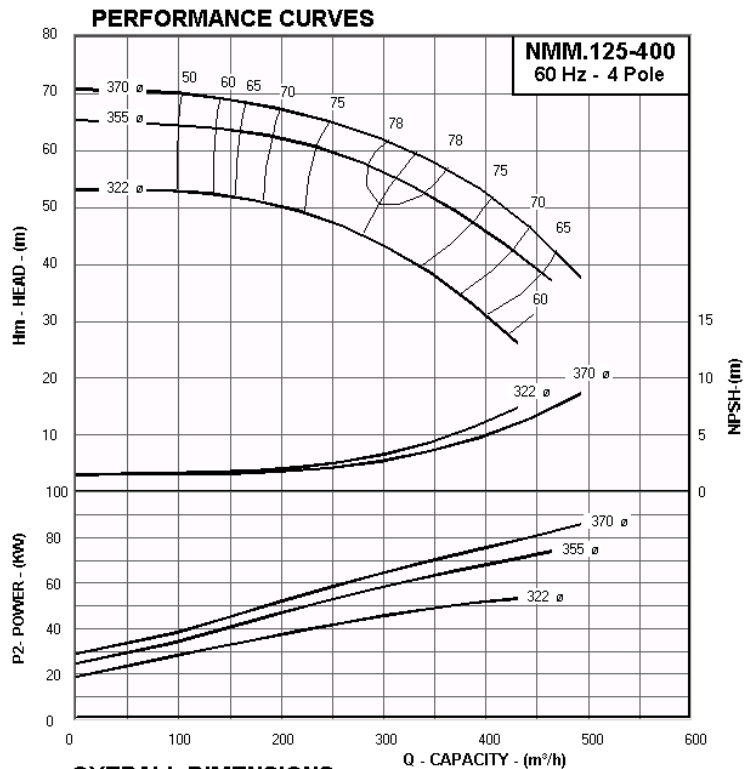
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
150	285	240	23	8
125	250	210	18	8

MAS NMM - Close Coupled Centrifugal Pumps

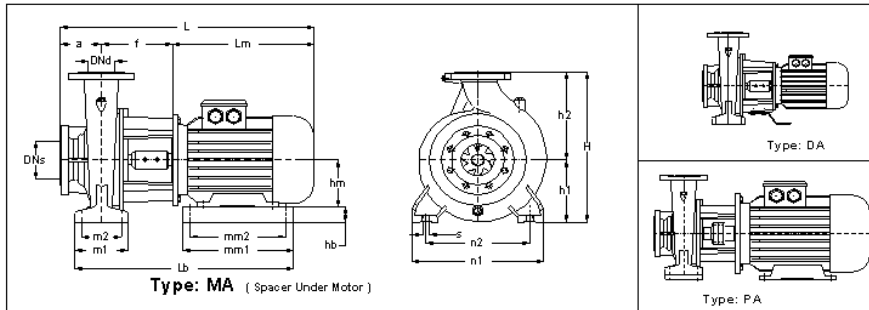
Performance Curves - 60 Hz - 1750 rpm



TECHNICAL DATA : NMM.125-400 - 60 Hz - 4 Pole



OVERALL DIMENSIONS



DIMENSIONS TABLE. NMM.125-400 (1752 RPM)

Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM.125-400/ 9004	370	280M4	90	9510	MA	150	125	140	330	870	315	400	280	200	150	500	400	20	1340	715
NMM.125-400/ 7504	355	280S4	75	9510	MA	150	125	140	330	818	315	400	280	200	150	500	400	20	1288	715
NMM.125-400/ 5504	322	250M4	55	959	MA	150	125	140	330	750	315	400	250	200	150	500	400	20	1220	715

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM.125-400/ 9004	370	45	ML11 + K8	C3.1	F11
NMM.125-400/ 7504	355	45	ML11 + K8	C3.1	F11
NMM.125-400/ 5504	322	45	ML11 + K7	C3.1	F11

Flange Dimensions

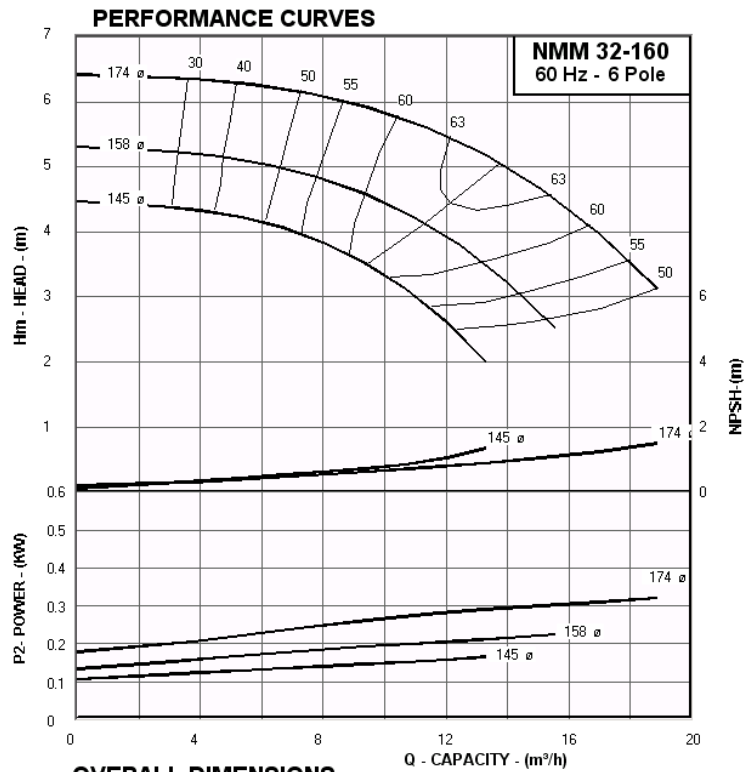
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
150	285	240	23	8
125	250	210	18	8

MAS NMM - Close Coupled Centrifugal Pumps

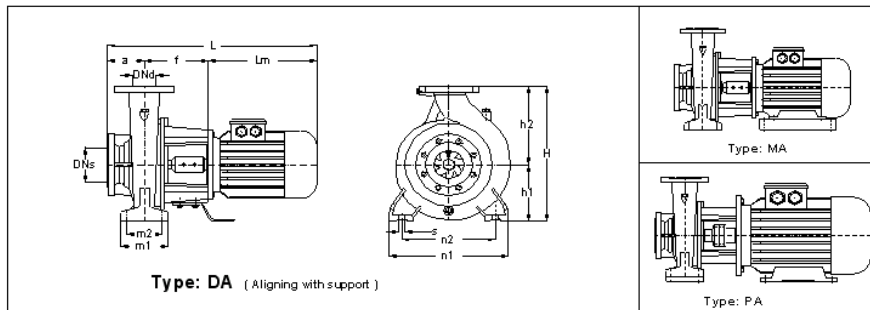
Performance Curves - 60 Hz - 1100 rpm



TECHNICAL DATA : NMM 32-160 - 60 Hz - 6 Pole



OVERALL DIMENSIONS



Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 32-160/046	174	80 6a	0.37	111	DA	50	32	80	160	233	132	160	80	100	70	240	190	12	473	292
NMM 32-160/036	158	71 6b	0.25	110	DA	50	32	80	145	212	132	160	71	100	70	240	190	12	437	292
NMM 32-160/026	145	71 6a	0.18	110	DA	50	32	80	145	212	132	160	71	100	70	240	190	12	437	292

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 32-160/046	174	20	ML1a	A1.11	-
NMM 32-160/036	158	20	ML1k	A1.1k	T1
NMM 32-160/026	145	20	ML1k	A1.1k	T1

Flange Dimensions

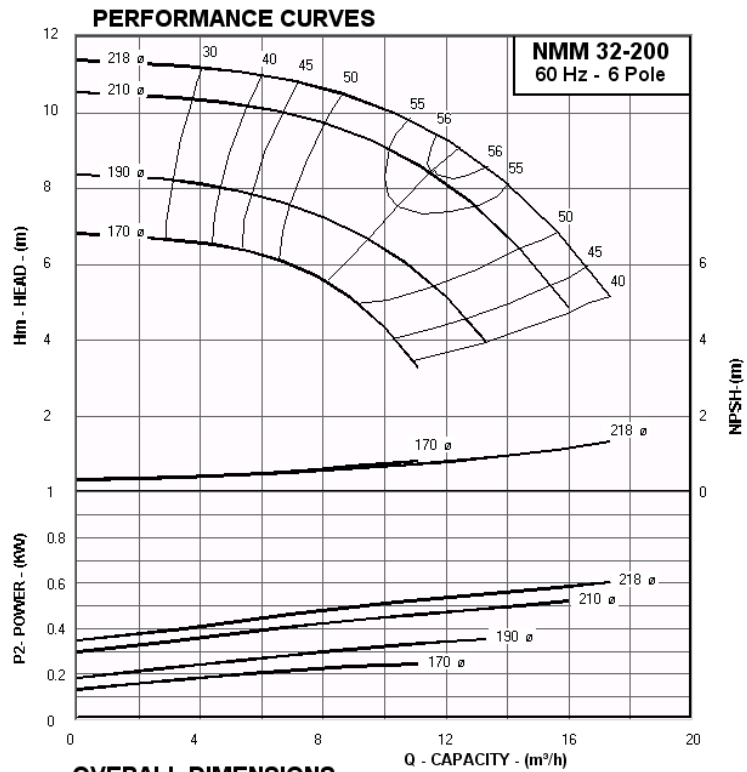
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
50	165	125	18	4
32	140	100	18	4

MAS NMM - Close Coupled Centrifugal Pumps

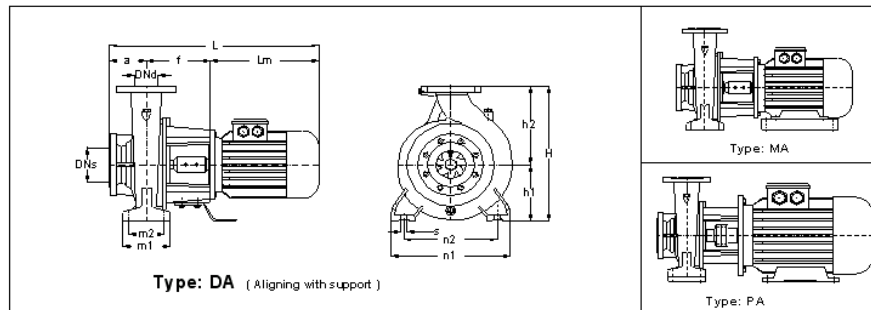
Performance Curves - 60 Hz - 1100 rpm



TECHNICAL DATA : NMM 32-200 - 60 Hz - 6 Pole



OVERALL DIMENSIONS



Pump Size	Imp. ø	Motor Size	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM 32-200/076	218	90S 6	0.75	312	DA	50	32	80	160	250	160	180	90	100	70	240	190	12	490	340
NMM 32-200/056	210	80 6b	0.55	311	DA	50	32	80	160	233	160	180	80	100	70	240	190	12	473	340
NMM 32-200/046	190	80 6a	0.37	311	DA	50	32	80	160	233	160	180	80	100	70	240	190	12	473	340
NMM 32-200/036	170	71 6b	0.25	310	DA	50	32	80	145	212	160	180	71	100	70	240	190	12	437	340

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 32-200/076	218	20	ML1b	A2.11	-
NMM 32-200/056	210	20	ML1a	A2.11	-
NMM 32-200/046	190	20	ML1a	A2.11	-
NMM 32-200/036	170	20	ML1k	A2.1k	T1

Flange Dimensions

EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
50	165	125	18	4
32	140	100	18	4

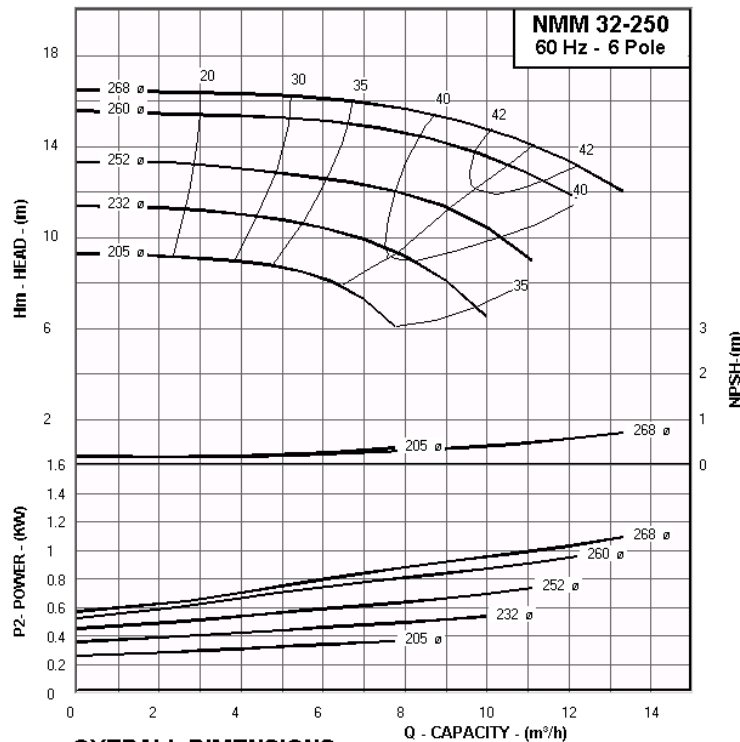
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1100 rpm

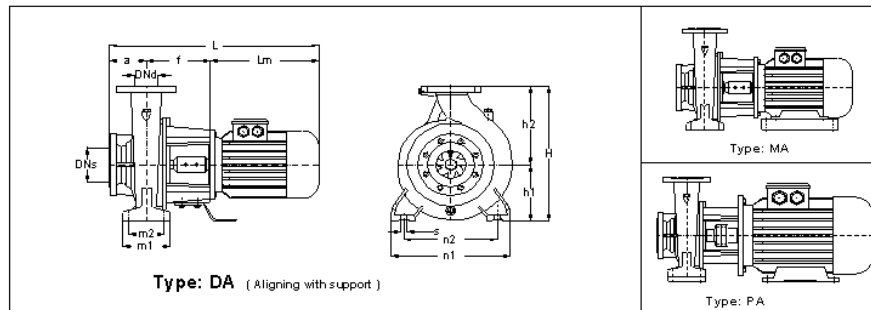


TECHNICAL DATA : NMM 32-250 - 60 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 32-250/156	268	100L6	1.5	413	DA	50	32	100	190	305	180	225	100	125	95	320	250	12	595	405
NMM 32-250/116	260	90L6	1.1	412	DA	50	32	100	170	275	180	225	90	125	95	320	250	12	545	405
NMM 32-250/076	252	90S 6	0.75	412	DA	50	32	100	170	250	180	225	90	125	95	320	250	12	520	405
NMM 32-250/056	232	80 6b	0.55	411	DA	50	32	100	170	233	180	225	80	125	95	320	250	12	503	405
NMM 32-250/046	205	80 6a	0.37	411	DA	50	32	100	170	233	180	225	80	125	95	320	250	12	503	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 32-250/156	268	20	ML1c	A3.11	-
NMM 32-250/116	260	20	ML1b	A3.0A	-
NMM 32-250/076	252	20	ML1b	A3.0A	-
NMM 32-250/056	232	20	ML1a	A3.0A	-
NMM 32-250/046	205	20	ML1a	A3.0A	-

Flange Dimensions

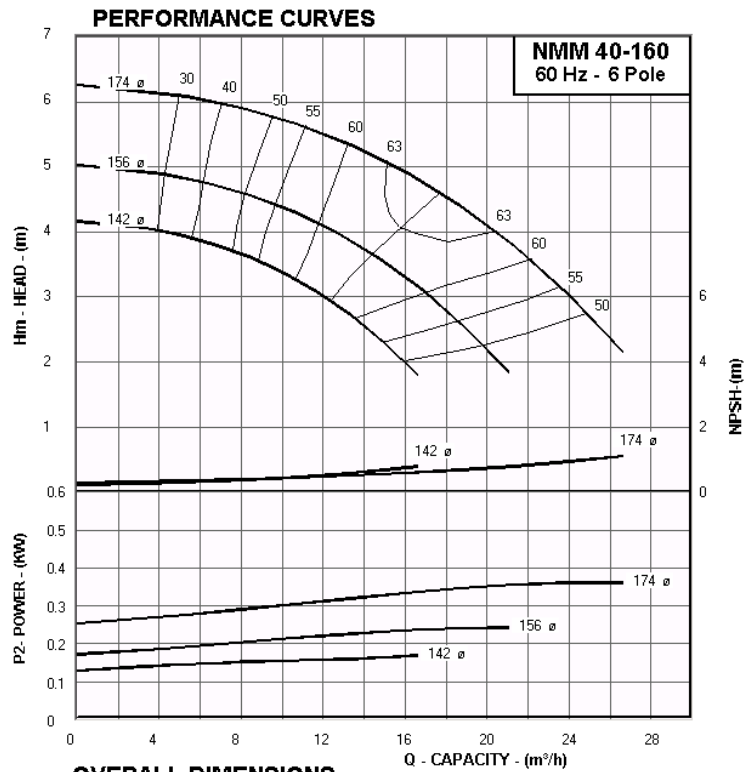
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
50	165	125	18	4
32	140	100	18	4

MAS NMM - Close Coupled Centrifugal Pumps

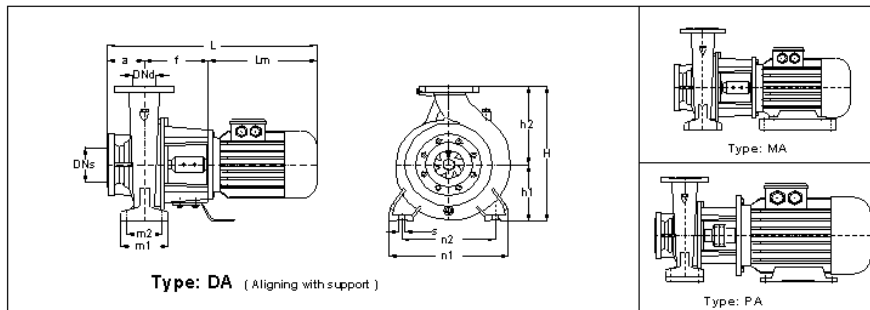
Performance Curves - 60 Hz - 1100 rpm



TECHNICAL DATA : NMM 40-160 - 60 Hz - 6 Pole



OVERALL DIMENSIONS



Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 40-160/046	174	80 6a	0.37	121	DA	65	40	80	160	233	132	160	80	100	70	240	190	12	473	292
NMM 40-160/036	156	71 6b	0.25	120	DA	65	40	80	145	212	132	160	71	100	70	240	190	12	437	292
NMM 40-160/026	142	71 6a	0.18	120	DA	65	40	80	145	212	132	160	71	100	70	240	190	12	437	292

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 40-160/046	174	20	ML1a	A1.11	-
NMM 40-160/036	156	20	ML1k	A1.1k	T1
NMM 40-160/026	142	20	ML1k	A1.1k	T1

Flange Dimensions

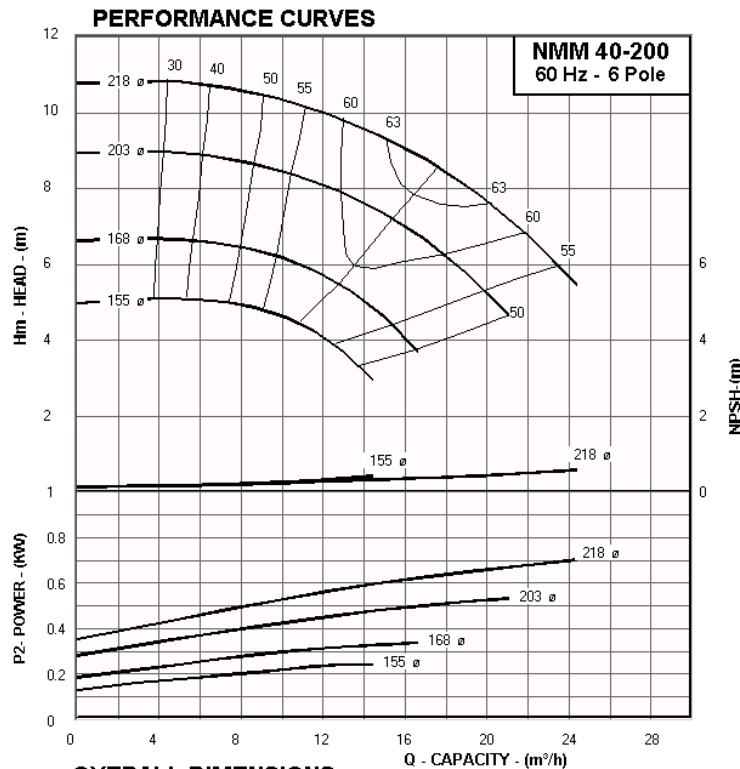
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
40	150	110	18	4

MAS NMM - Close Coupled Centrifugal Pumps

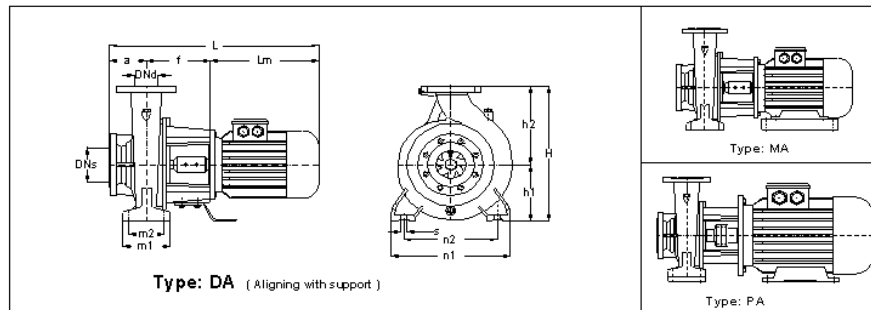
Performance Curves - 60 Hz - 1100 rpm



TECHNICAL DATA : NMM 40-200 - 60 Hz - 6 Pole



OVERALL DIMENSIONS



Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 40-200/076	218	90S 6	0.75	322	DA	65	40	100	160	250	160	180	90	100	70	265	212	12	510	340
NMM 40-200/056	203	80 6b	0.55	321	DA	65	40	100	160	233	160	180	80	100	70	265	212	12	493	340
NMM 40-200/046	168	80 6a	0.37	321	DA	65	40	100	160	233	160	180	80	100	70	265	212	12	493	340
NMM 40-200/036	155	71 6b	0.25	320	DA	65	40	100	145	212	160	180	71	100	70	265	212	12	457	340

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 40-200/076	218	20	ML1b	A2.11	-
NMM 40-200/056	203	20	ML1a	A2.11	-
NMM 40-200/046	168	20	ML1a	A2.11	-
NMM 40-200/036	155	20	ML1k	A2.1k	T1

Flange Dimensions

EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
40	150	110	18	4

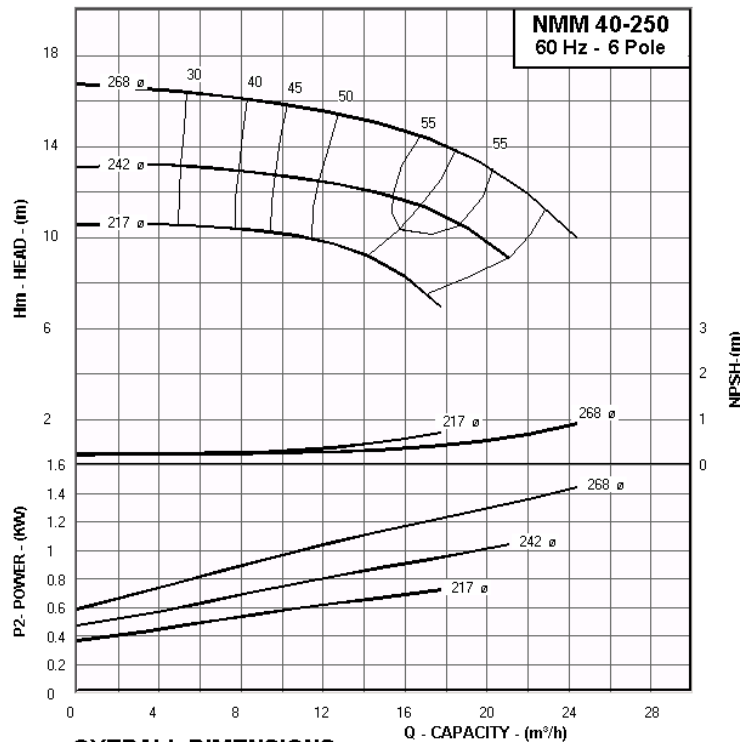
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1100 rpm

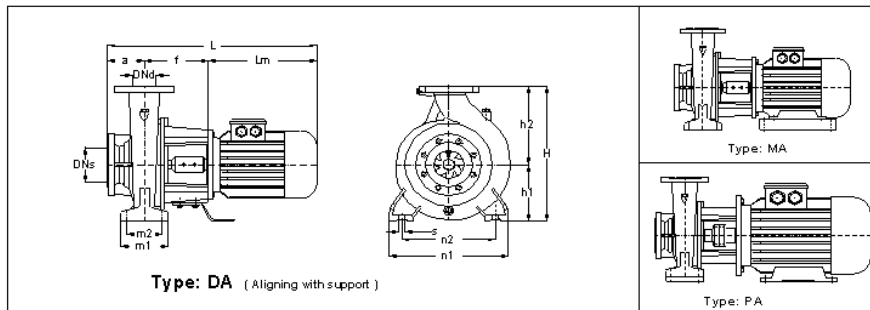


TECHNICAL DATA : NMM 40-250 - 60 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



Pump Size	Imp. ø	Motor Size	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM 40-250/156	268	100L6	1.5	423	DA	65	40	100	180	305	180	225	100	125	95	320	250	12	585	405
NMM 40-250/116	242	90L6	1.1	422	DA	65	40	100	160	275	180	225	90	125	95	320	250	12	535	405
NMM 40-250/076	217	90S6	0.75	422	DA	65	40	100	160	250	180	225	90	125	95	320	250	12	510	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 40-250/156	268	20	ML1c	A3.11	-
NMM 40-250/116	242	20	ML1b	A3.0B	-
NMM 40-250/076	217	20	ML1b	A3.0B	-

Flange Dimensions

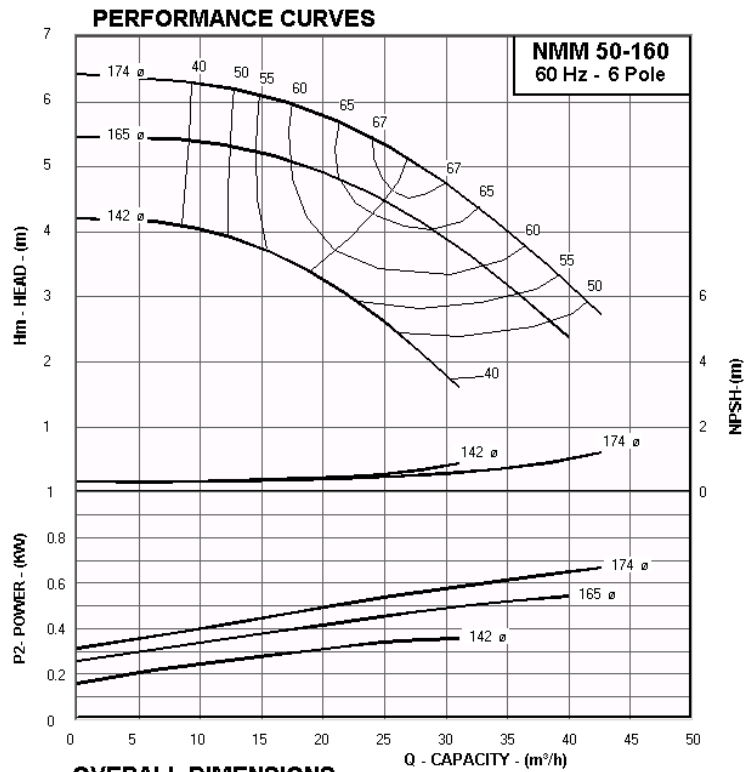
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
40	150	110	18	4

MAS NMM - Close Coupled Centrifugal Pumps

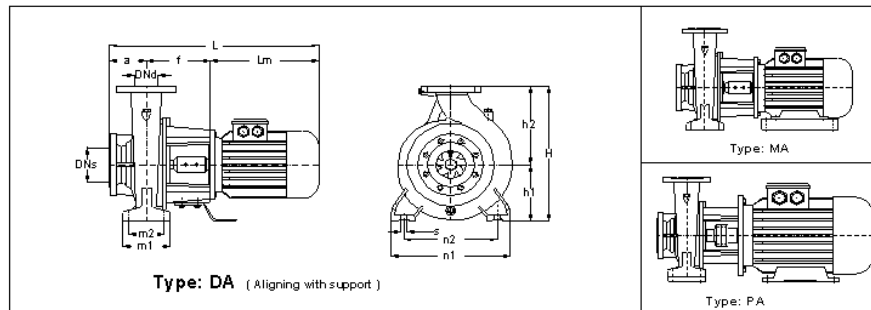
Performance Curves - 60 Hz - 1100 rpm



TECHNICAL DATA : NMM 50-160 - 60 Hz - 6 Pole



OVERALL DIMENSIONS



Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 50-160/076	174	90S 6	0.75	132	DA	65	50	100	160	250	160	180	90	100	70	265	212	12	510	340
NMM 50-160/056	165	80 6b	0.55	131	DA	65	50	100	160	233	160	180	80	100	70	265	212	12	493	340
NMM 50-160/046	142	80 6a	0.37	131	DA	65	50	100	160	233	160	180	80	100	70	265	212	12	493	340

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 50-160/076	174	20	ML1b	A1.11	-
NMM 50-160/056	165	20	ML1a	A1.11	-
NMM 50-160/046	142	20	ML1a	A1.11	-

Flange Dimensions

EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
50	165	125	18	4

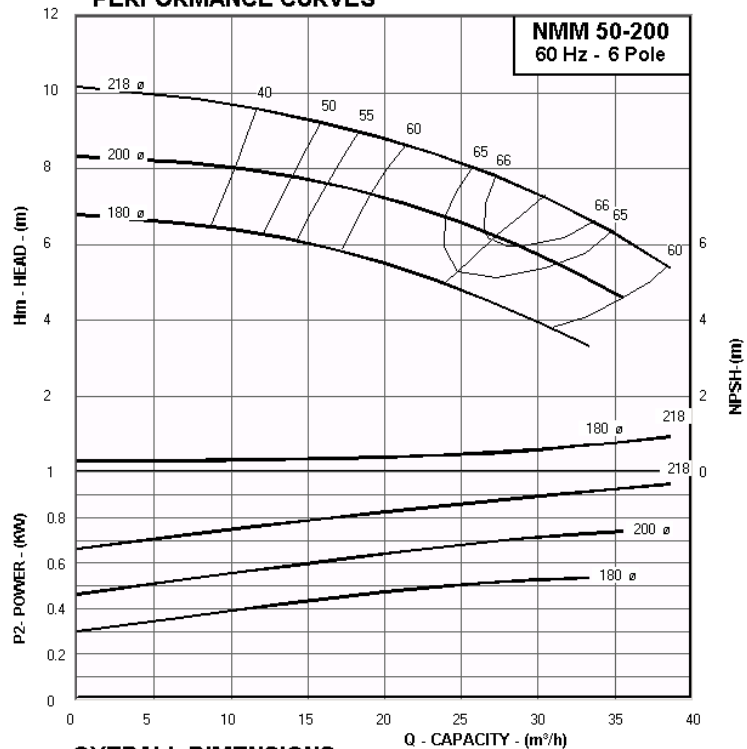
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1100 rpm

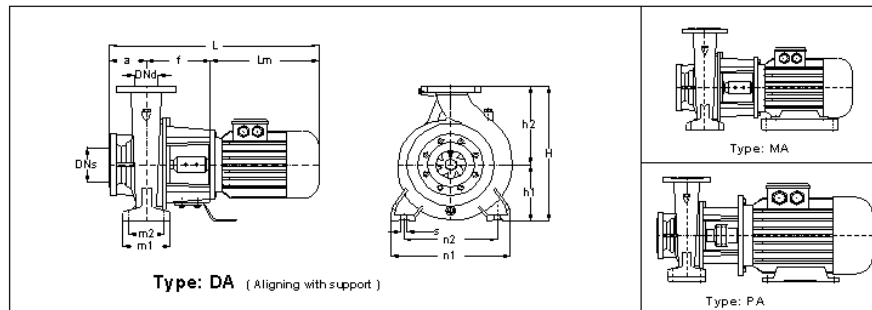


TECHNICAL DATA : NMM 50-200 - 60 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



Pump Size	Imp. ø	Motor Size	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM 50-200/116	218	90L 6	1.1	332	DA	65	50	100	160	275	160	200	90	100	70	265	212	12	535	360
NMM 50-200/076	200	90S 6	0.75	332	DA	65	50	100	160	250	160	200	90	100	70	265	212	12	510	360
NMM 50-200/056	180	80 6b	0.55	331	DA	65	50	100	160	233	160	200	80	100	70	265	212	12	493	360

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 50-200/116	218	20	ML1b	A2.11	-
NMM 50-200/076	200	20	ML1b	A2.11	-
NMM 50-200/056	180	20	ML1a	A2.11	-

Flange Dimensions

EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
50	165	125	18	4

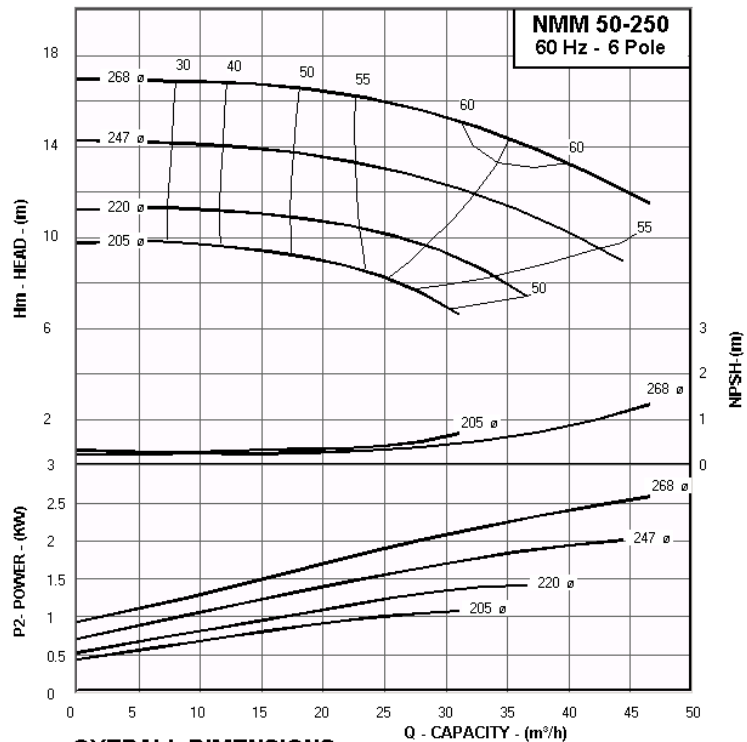
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1100 rpm

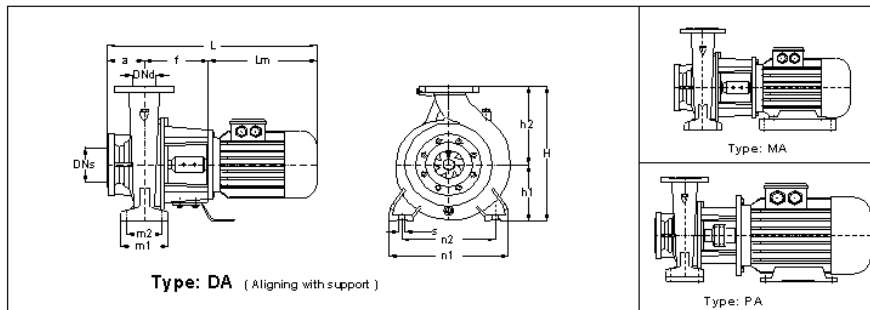


TECHNICAL DATA : NMM 50-250 - 60 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



Pump Size	Imp. \varnothing	Motor Size	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM 50-250/306	268	132S6	3	434	MA	65	50	100	205	375	180	225	132	125	95	320	250	12	680	405
NMM 50-250/226	250	112M6	2.2	433	DA	65	50	100	180	324	180	225	112	125	95	320	250	12	604	405
NMM 50-250/156	220	100L6	1.5	433	DA	65	50	100	180	305	180	225	100	125	95	320	250	12	585	405
NMM 50-250/116	205	90L6	1.1	432	DA	65	50	100	160	275	180	225	90	125	95	320	250	12	535	405

Main Part Codes

Pump Size	Imp. \varnothing	Seal mm \varnothing	Shaft and Coupling	Adapter	Flange
NMM 50-250/306	268	30	ML2a	A3.12	F4
NMM 50-250/226	250	20	ML1c	A3.11	-
NMM 50-250/156	220	20	ML1c	A3.11	-
NMM 50-250/116	205	20	ML1b	A3.0B	-

Flange Dimensions

EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
65	185	145	18	4
50	165	125	18	4

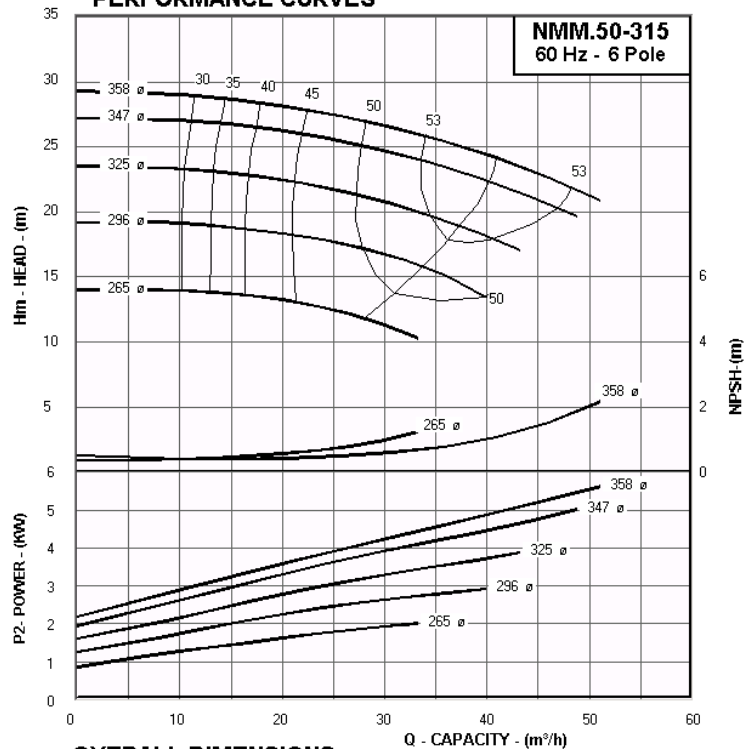
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1100 rpm

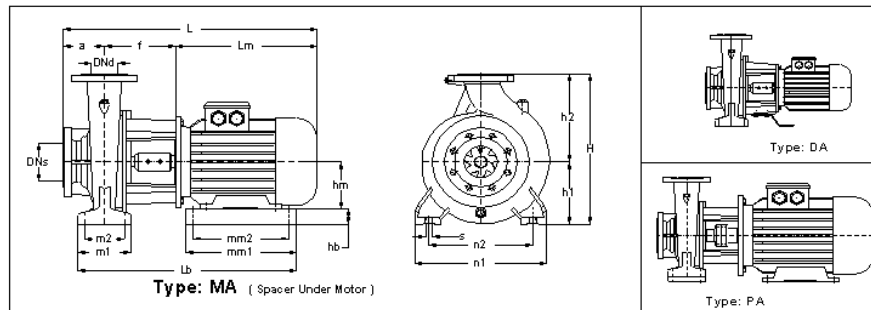


TECHNICAL DATA : NMM.50-315 - 60 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS

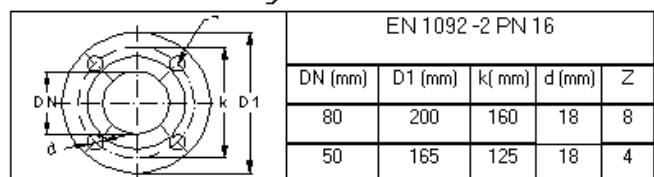


Pump Size	Imp. ø	Motor Size	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM.50-315/ 556	358	132M6	5.5	914	MA	80	50	125	215	413	225	280	132	125	95	345	280	12	753	505
NMM.50-315/ 556	347	132M6	5.5	914	MA	80	50	125	215	413	225	280	132	125	95	345	280	12	753	505
NMM.50-315/ 406	325	132M6	4	914	MA	80	50	125	215	413	225	280	132	125	95	345	280	12	753	505
NMM.50-315/ 306	296	132S6	3	914	MA	80	50	125	215	375	225	280	132	125	95	345	280	12	715	505
NMM.50-315/ 226	265	112M6	2.2	913	DA	80	50	125	190	324	225	280	112	125	95	345	280	12	639	505

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM.50-315/ 556	358	30	ML4a	B4.1k	T7
NMM.50-315/ 556	347	30	ML4a	B4.1k	T7
NMM.50-315/ 406	325	30	ML4a	B4.1k	T7
NMM.50-315/ 306	296	30	ML4a	B4.1k	T7
NMM.50-315/ 226	265	30	ML3	B4.1k	T6

Flange Dimensions



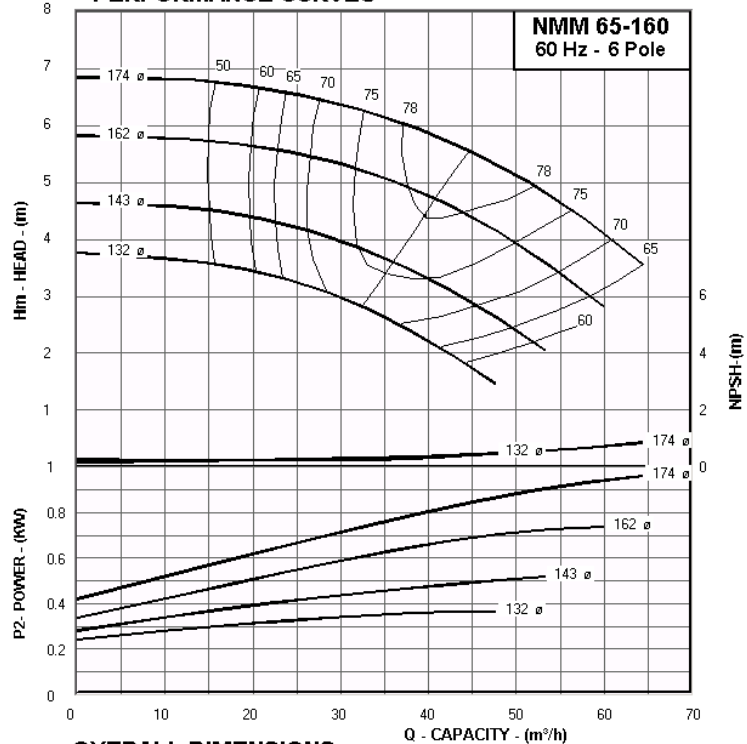
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1100 rpm

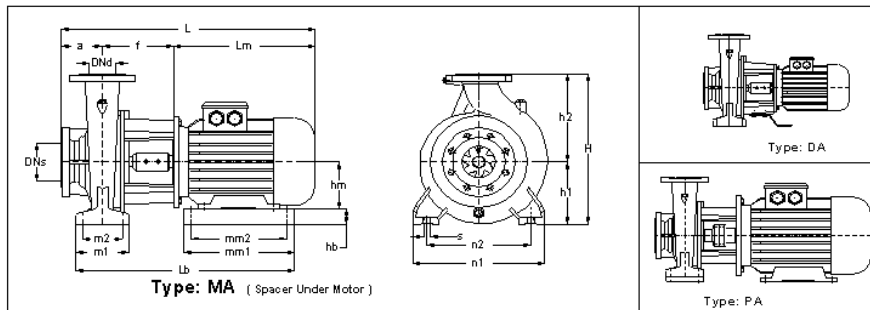


TECHNICAL DATA : NMM 65-160 - 60 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



Pump Size	Imp. \varnothing	Motor Size	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM 65-160/116	174	90L 6	1.1	212	DA	80	65	100	160	275	160	200	90	125	95	280	212	12	535	360
NMM 65-160/076	162	90S 6	0.75	212	DA	80	65	100	160	250	160	200	90	125	95	280	212	12	510	360
NMM 65-160/056	143	80 6b	0.55	211	DA	80	65	100	160	233	160	200	80	125	95	280	212	12	493	360
NMM 65-160/046	132	80 6a	0.37	211	DA	80	65	100	160	233	160	200	80	125	95	280	212	12	493	360

Main Part Codes

Pump Size	Imp. \varnothing	Seal mm \varnothing	Shaft and Coupling	Adapter	Flange
NMM 65-160/116	174	20	ML1b	A1.21	-
NMM 65-160/076	162	20	ML1b	A1.21	-
NMM 65-160/056	143	20	ML1a	A1.21	-
NMM 65-160/046	132	20	ML1a	A1.21	-

Flange Dimensions

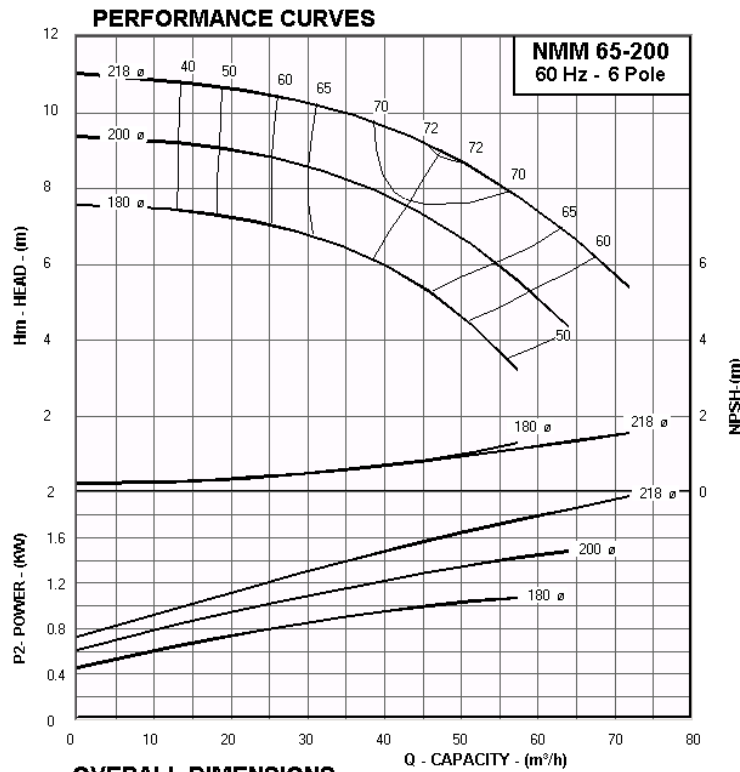
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
65	185	145	18	4

MAS NMM - Close Coupled Centrifugal Pumps

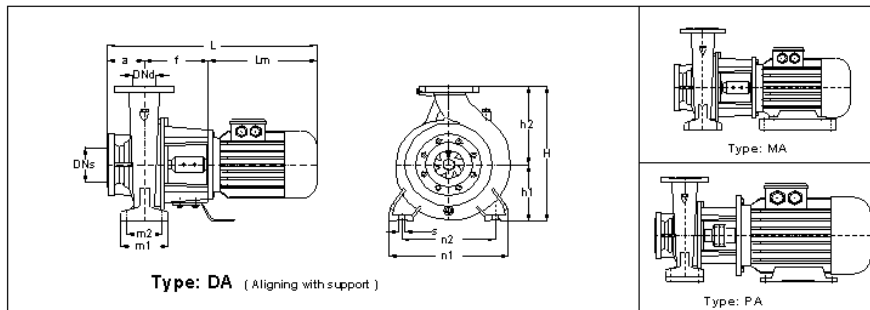
Performance Curves - 60 Hz - 1100 rpm



TECHNICAL DATA : NMM 65-200 - 60 Hz - 6 Pole



OVERALL DIMENSIONS



Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 65-200/226	218	112M6	2.2	343	DA	80	65	100	180	324	180	225	112	125	95	320	250	12	604	405
NMM 65-200/156	200	100L6	1.5	343	DA	80	65	100	180	305	180	225	100	125	95	320	250	12	585	405
NMM 65-200/116	180	90L6	1.1	342	DA	80	65	100	160	275	180	225	90	125	95	320	250	12	535	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 65-200/226	218	20	ML1c	A2.21	-
NMM 65-200/156	200	20	ML1c	A2.21	-
NMM 65-200/116	180	20	ML1b	A2.11	-

Flange Dimensions

EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
65	185	145	18	4

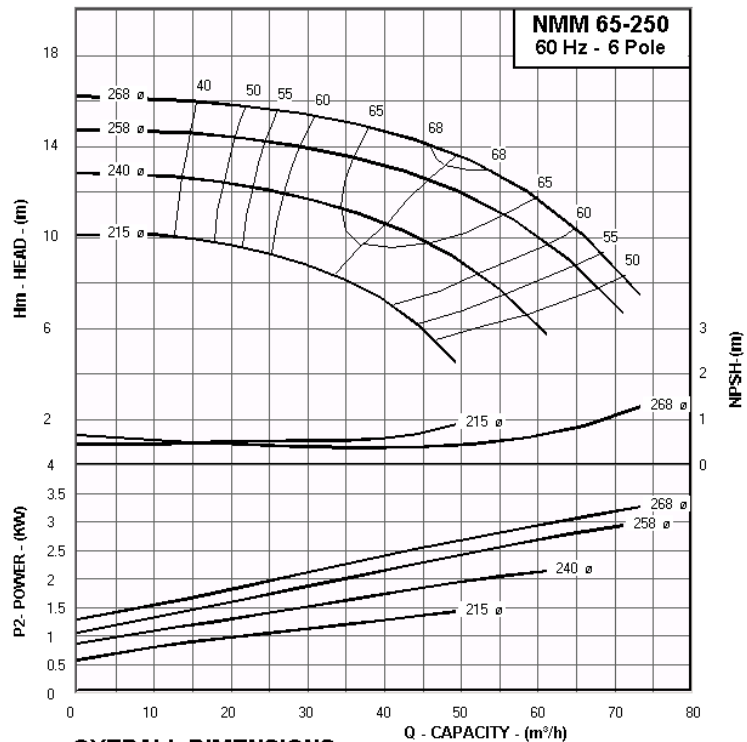
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1100 rpm

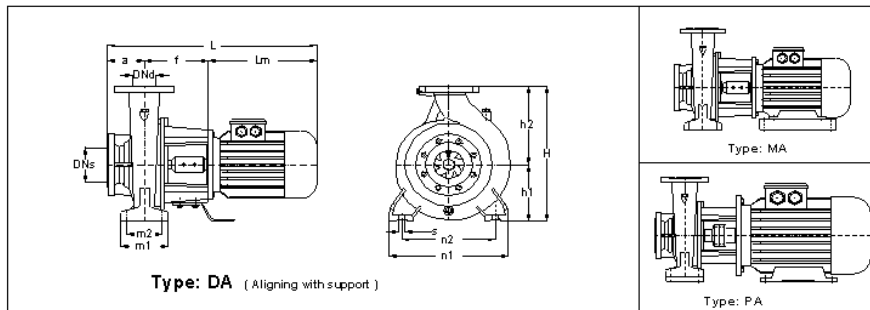


TECHNICAL DATA : NMM 65-250 - 60 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 65-250/ 406	268	132M6	4	614	MA	80	65	100	215	413	200	250	132	160	120	360	280	16	728	450
NMM 65-250/ 306	258	132S6	3	614	MA	80	65	100	215	375	200	250	132	160	120	360	280	16	690	450
NMM 65-250/ 226	240	112M6	2.2	613	DA	80	65	100	180	324	200	250	112	160	120	360	280	16	604	450
NMM 65-250/ 156	215	100L6	1.5	613	DA	80	65	100	180	305	200	250	100	160	120	360	280	16	585	450

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 65-250/ 406	268	30	ML4a	B2.12	-
NMM 65-250/ 306	258	30	ML4a	B2.12	-
NMM 65-250/ 226	240	20	ML1c	A3.11	-
NMM 65-250/ 156	215	20	ML1c	A3.11	-

Flange Dimensions

EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
65	185	145	18	4

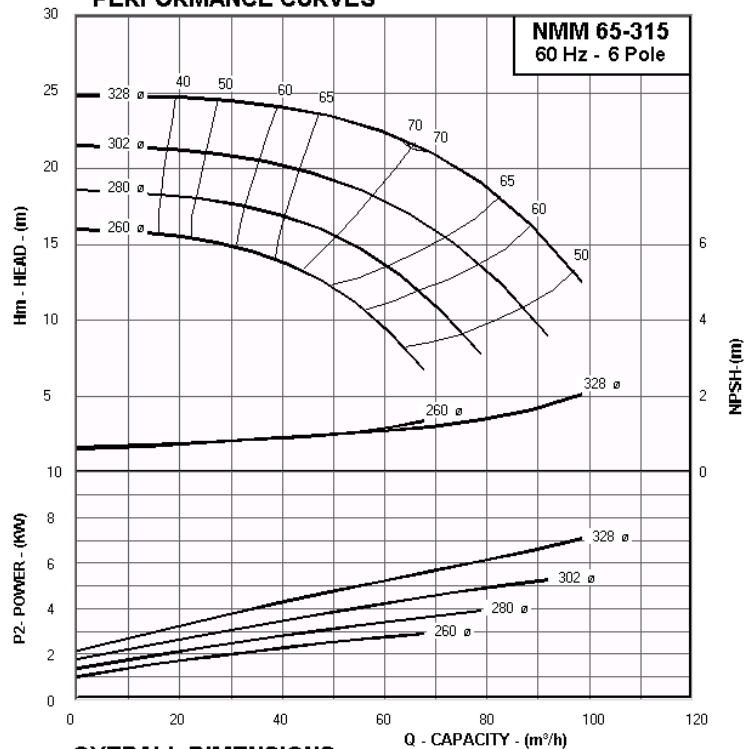
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1100 rpm

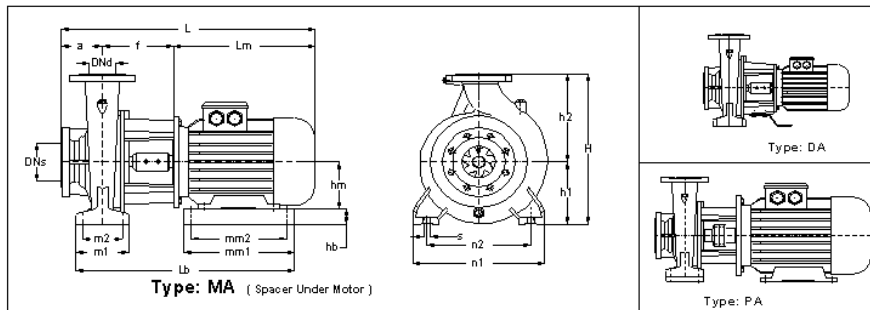


TECHNICAL DATA : NMM 65-315 - 60 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 65-315/ 756	328	160M6	7.5	715	MA	80	65	125	240	484	225	280	160	160	120	400	315	16	849	505
NMM 65-315/ 556	302	132M6	5.5	714	MA	80	65	125	215	413	225	280	132	160	120	400	315	16	753	505
NMM 65-315/ 406	280	132M6	4	714	MA	80	65	125	215	413	225	280	132	160	120	400	315	16	753	505
NMM 65-315/ 306	260	132S6	3	714	MA	80	65	125	215	375	225	280	132	160	120	400	315	16	715	505

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 65-315/ 756	328	30	ML4b	B3.12	-
NMM 65-315/ 556	302	30	ML4a	B3.02	-
NMM 65-315/ 406	280	30	ML4a	B3.02	-
NMM 65-315/ 306	260	30	ML4a	B3.02	-

Flange Dimensions

EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
80	200	160	18	8
65	185	145	18	4

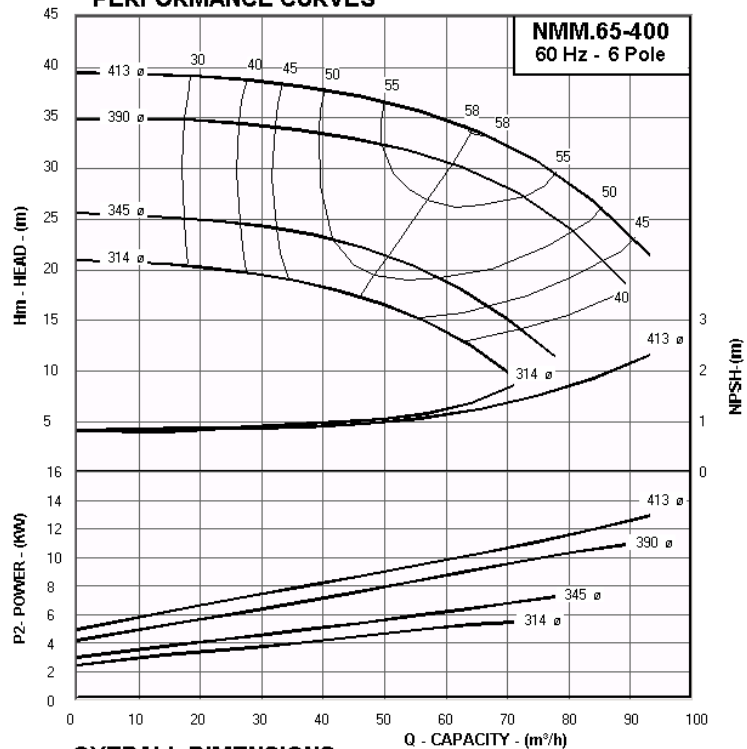
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1100 rpm

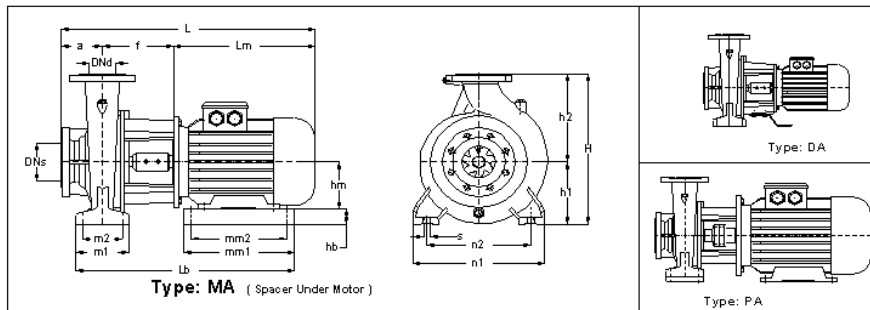


TECHNICAL DATA : NMM.65-400 - 60 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



Pump Size	Imp. ø	Motor Size	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM.65-400/1506	413	180L6	15	926	MA	100	65	125	240	582	250	355	180	160	120	400	315	16	947	605
NMM.65-400/1106	390	160L6	11	925	MA	100	65	125	240	528	250	355	160	160	120	400	315	16	893	605
NMM.65-400/756	345	160M6	7.5	925	MA	100	65	125	240	484	250	355	160	160	120	400	315	16	849	605
NMM.65-400/756	314	160M6	7.5	925	MA	100	65	125	240	484	250	355	160	160	120	400	315	16	849	605

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM.65-400/1506	413	30	ML4c	B5.1	-
NMM.65-400/1106	390	30	ML4a	B5.1k	T7
NMM.65-400/756	345	30	ML4a	B5.1k	T7
NMM.65-400/756	314	30	ML4a	B5.1k	T7

Flange Dimensions

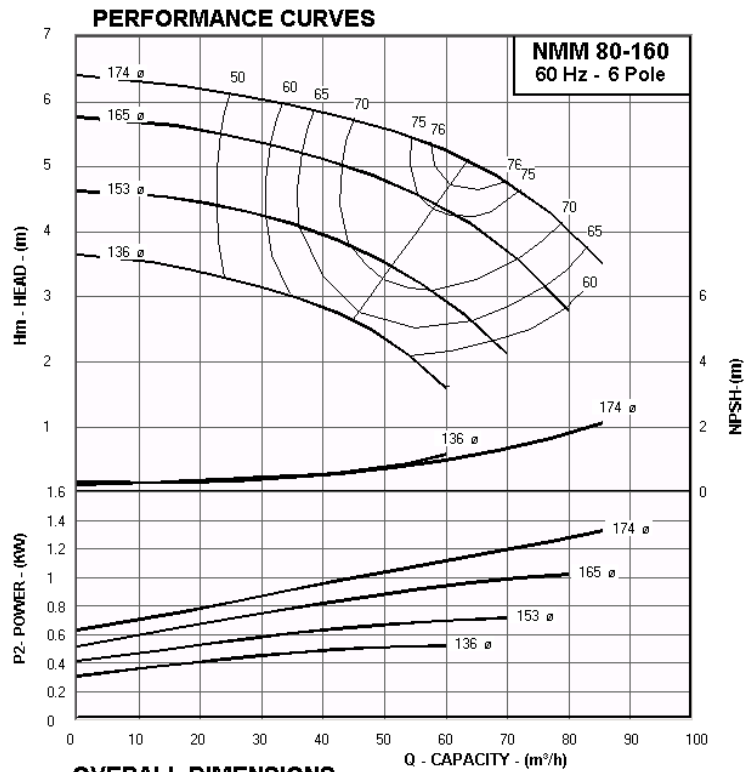
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
65	185	145	18	4

MAS NMM - Close Coupled Centrifugal Pumps

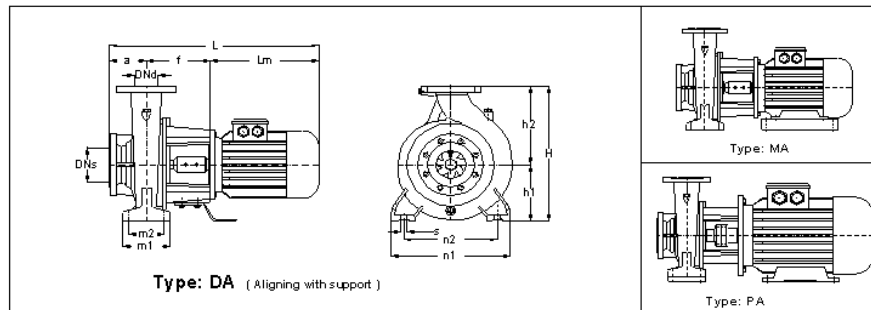
Performance Curves - 60 Hz - 1100 rpm



TECHNICAL DATA : NMM 80-160 - 60 Hz - 6 Pole



OVERALL DIMENSIONS



Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 80-160/156	174	100L6	1.5	223	DA	100	80	125	180	305	180	225	100	125	95	320	250	12	610	405
NMM 80-160/116	165	90L6	1.1	222	DA	100	80	125	160	275	180	225	90	125	95	320	250	12	560	405
NMM 80-160/076	153	90S 6	0.75	222	DA	100	80	125	160	250	180	225	90	125	95	320	250	12	535	405
NMM 80-160/056	136	80 6b	0.55	221	DA	100	80	125	160	233	180	225	80	125	95	320	250	12	518	405

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 80-160/156	174	20	ML1c	A1.21	F 1
NMM 80-160/116	165	20	ML1b	A1.21	-
NMM 80-160/076	153	20	ML1b	A1.21	-
NMM 80-160/056	136	20	ML1a	A1.21	-

Flange Dimensions

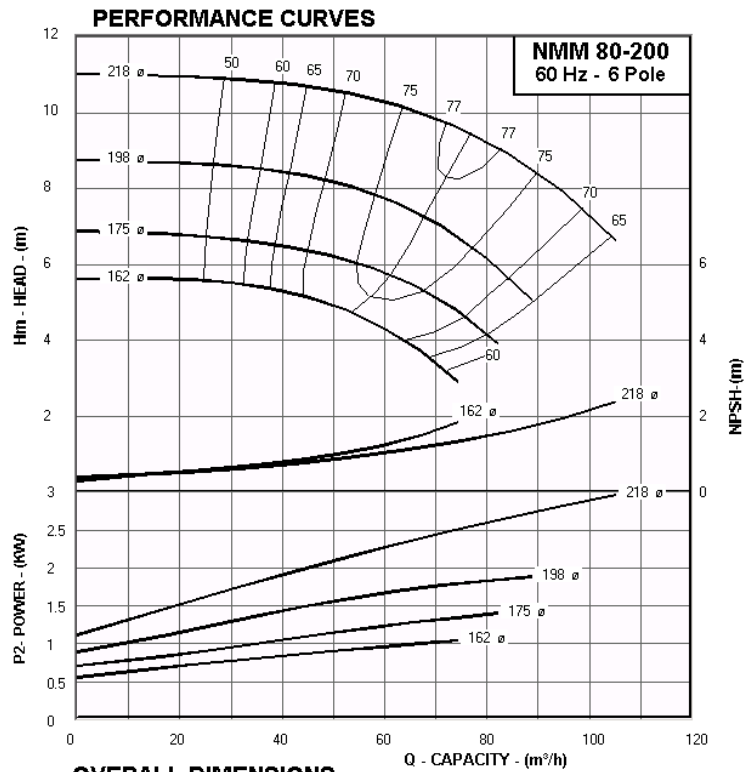
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
80	200	160	18	8

MAS NMM - Close Coupled Centrifugal Pumps

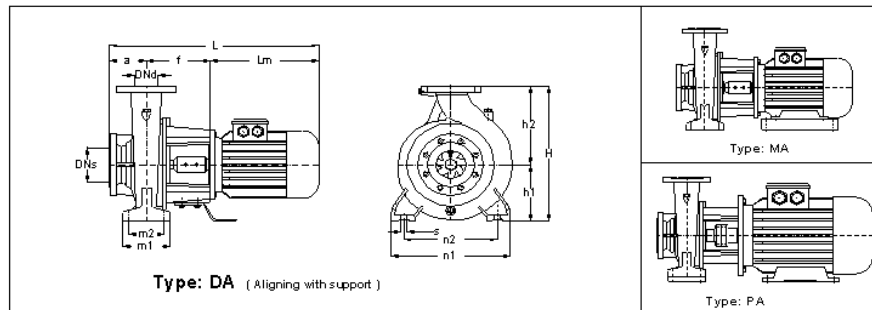
Performance Curves - 60 Hz - 1100 rpm



TECHNICAL DATA : NMM 80-200 - 60 Hz - 6 Pole



OVERALL DIMENSIONS



Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 80-200/306	218	132S6	3	514	MA	100	80	125	215	375	180	250	132	125	95	345	280	12	715	430
NMM 80-200/226	198	112M6	2.2	513	DA	100	80	125	190	324	180	250	112	125	95	345	280	12	639	430
NMM 80-200/156	175	100L6	1.5	513	DA	100	80	125	190	305	180	250	100	125	95	345	280	12	620	430
NMM 80-200/116	162	90L6	1.1	512	DA	100	80	125	170	275	180	250	90	125	95	345	280	12	570	430

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 80-200/306	218	30	ML4a	B1.12	F4
NMM 80-200/226	198	30	ML3	B1.12	-
NMM 80-200/156	175	30	ML3	B1.12	-
NMM 80-200/116	162	30	ML3k	B1.1k	T2

Flange Dimensions

EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
80	200	160	18	8

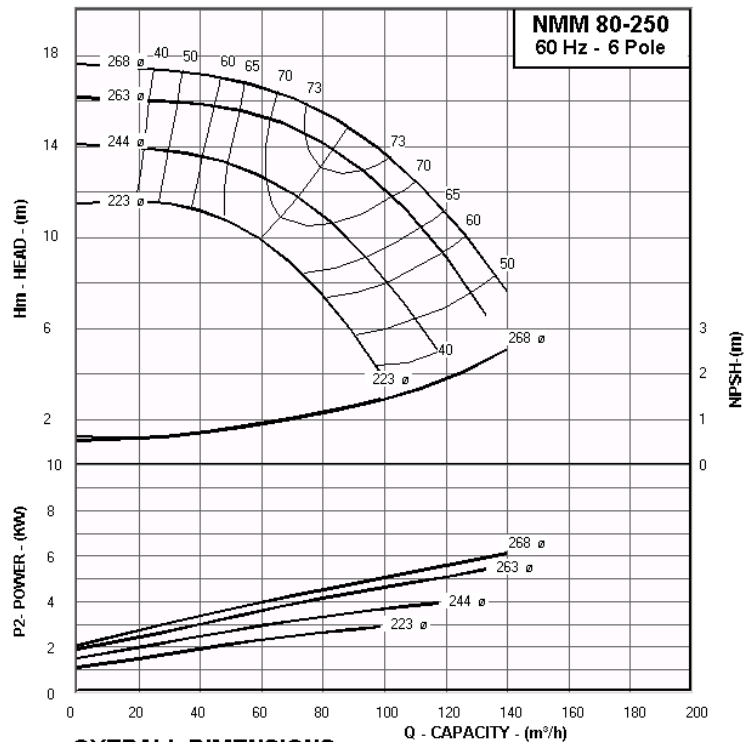
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1100 rpm

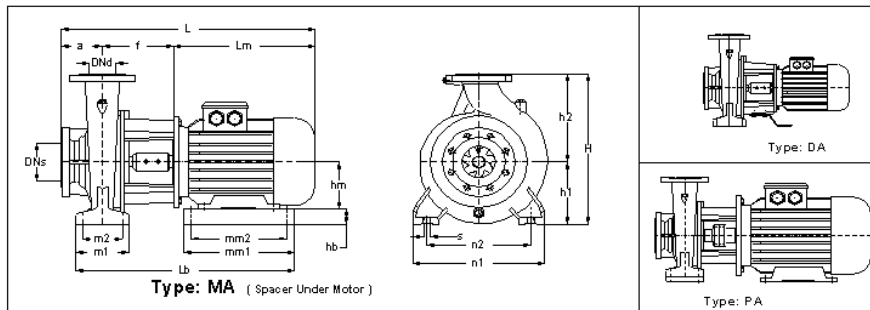


TECHNICAL DATA : NMM 80-250 - 60 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 80-250/ 756	268	160M6	7.5	625	MA	100	80	125	240	484	200	280	160	160	120	400	315	16	849	480
NMM 80-250/ 556	263	132M6	5.5	624	MA	100	80	125	215	413	200	280	132	160	120	400	315	16	753	480
NMM 80-250/ 406	244	132M6	4	624	MA	100	80	125	215	413	200	280	132	160	120	400	315	16	753	480
NMM 80-250/ 306	223	132S6	3	624	MA	100	80	125	215	375	200	280	132	160	120	400	315	16	715	480

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 80-250/ 756	268	30	ML4b	B2.12	F7
NMM 80-250/ 556	263	30	ML4a	B2.12	-
NMM 80-250/ 406	244	30	ML4a	B2.12	-
NMM 80-250/ 306	223	30	ML4a	B2.12	-

Flange Dimensions

EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
80	200	160	18	8

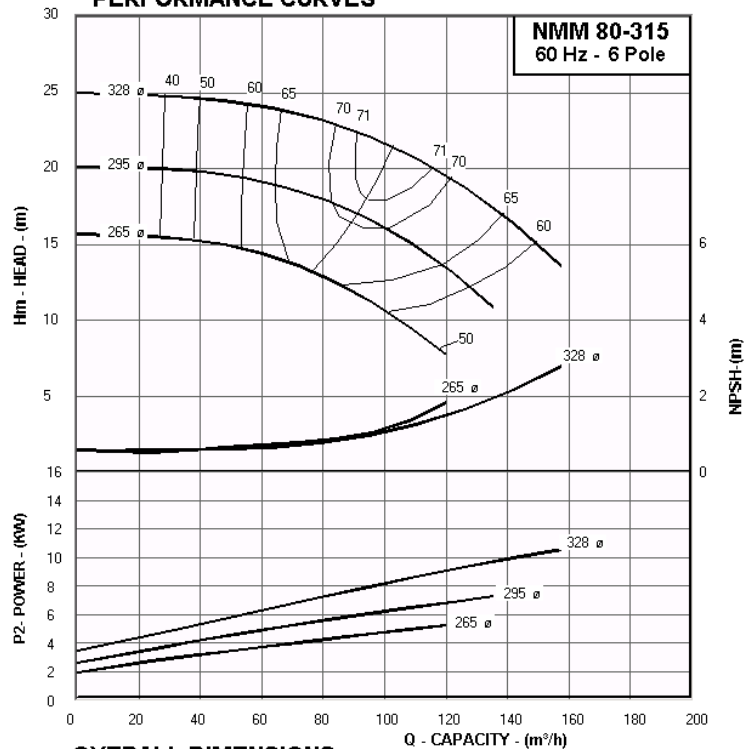
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1100 rpm

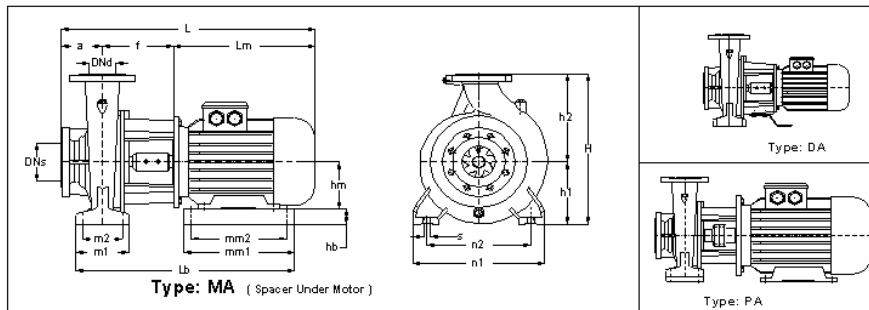


TECHNICAL DATA : NMM 80-315 - 60 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



Pump Size	Imp. \varnothing	Motor Size	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM 80-315/1106	328	160L6	11	725	MA	100	80	125	240	528	250	315	160	160	120	400	315	16	893	565
NMM 80-315/756	295	160M6	7.5	725	MA	100	80	125	240	484	250	315	160	160	120	400	315	16	849	565
NMM 80-315/556	265	132M6	5.5	724	MA	100	80	125	215	413	250	315	132	160	120	400	315	16	753	565

Main Part Codes

Pump Size	Imp. \varnothing	Seal mm \varnothing	Shaft and Coupling	Adapter	Flange
NMM 80-315/1106	328	30	ML4b	B3.12	-
NMM 80-315/756	295	30	ML4b	B3.12	-
NMM 80-315/556	265	30	ML4a	B3.12kc	T7

Flange Dimensions

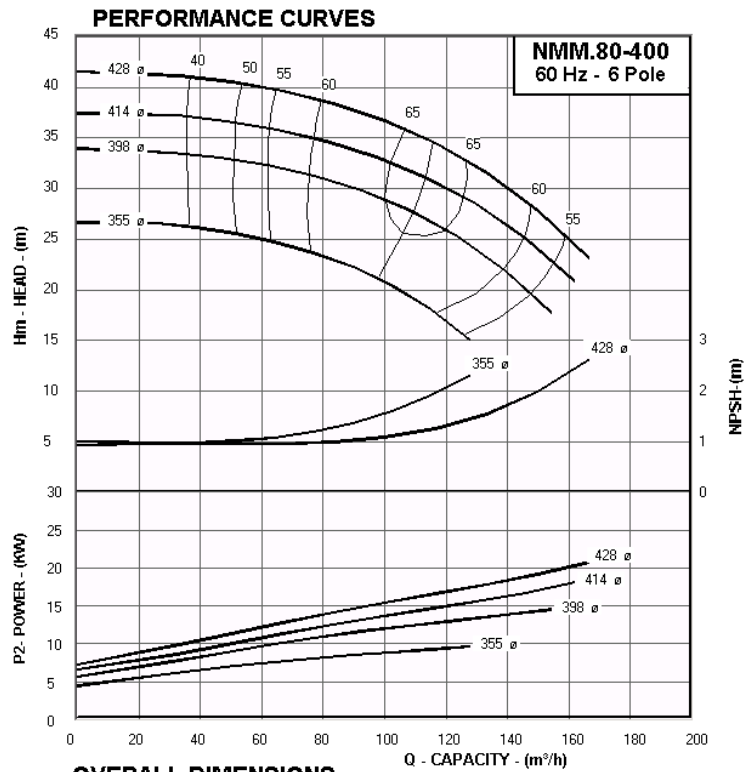
EN 1092-2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
80	200	160	18	8

MAS NMM - Close Coupled Centrifugal Pumps

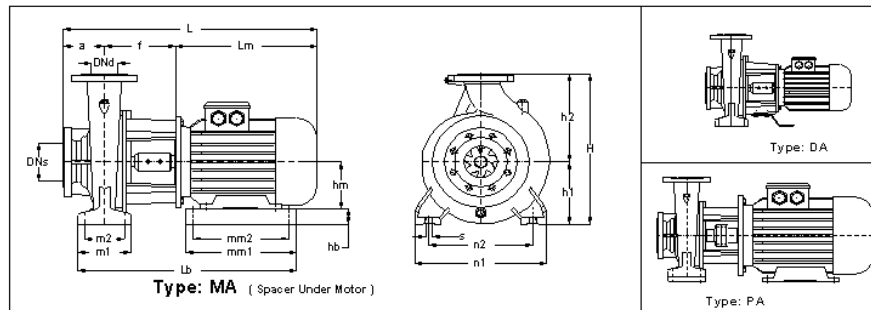
Performance Curves - 60 Hz - 1100 rpm



TECHNICAL DATA : NMM.80-400 - 60 Hz - 6 Pole



OVERALL DIMENSIONS



Pump Size	Imp. \varnothing	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM.80-400/2206	428	200L6	22	937	MA	100	80	125	280	637	280	355	200	200	150	500	400	20	1042	635
NMM.80-400/1856	414	200L6	18.5	937	MA	100	80	125	280	637	280	355	200	200	150	500	400	20	1042	635
NMM.80-400/1506	398	180L6	15	936	MA	100	80	125	250	582	280	355	180	200	150	500	400	20	957	635
NMM.80-400/1106	355	160L6	11	935	MA	100	80	125	250	528	280	355	160	200	150	500	400	20	903	635

Main Part Codes

Pump Size	Imp. \varnothing	Seal mm \varnothing	Shaft and Coupling	Adapter	Flange
NMM.80-400/2206	428	45	ML10 + K6	C3.1	F9
NMM.80-400/1856	414	45	ML10 + K6	C3.1	F9
NMM.80-400/1506	398	45	ML4f	C3.1	-
NMM.80-400/1106	355	45	ML4e	C3.1	-

Flange Dimensions

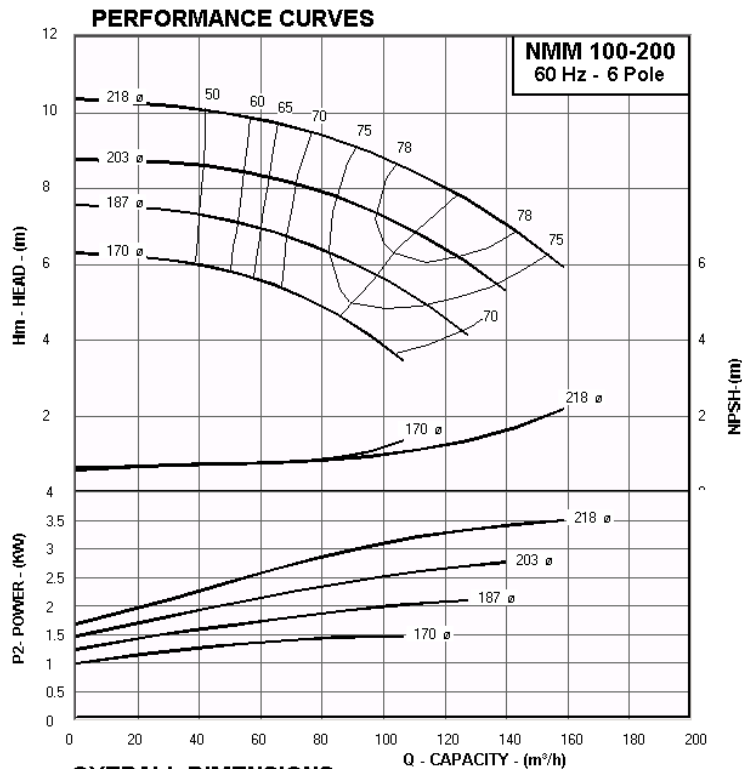
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
100	220	180	18	8
80	200	160	18	8

MAS NMM - Close Coupled Centrifugal Pumps

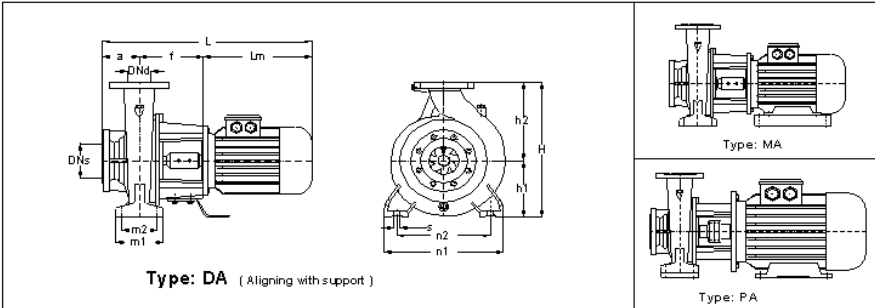
Performance Curves - 60 Hz - 1100 rpm



TECHNICAL DATA : NMM 100-200 - 60 Hz - 6 Pole



OVERALL DIMENSIONS

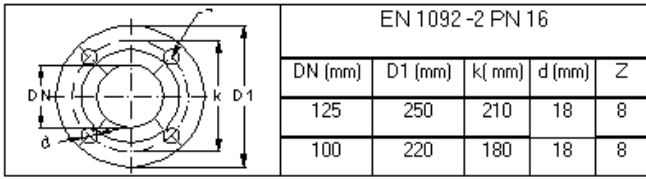


Pump Size	Imp. ø	Motor Size	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM 100-200/ 406	218	132M6	4	524	MA	125	100	125	215	413	200	280	132	160	120	360	280	16	753	480
NMM 100-200/ 306	203	132S6	3	524	MA	125	100	125	215	375	200	280	132	160	120	360	280	16	715	480
NMM 100-200/ 226	187	112M6	2.2	523	DA	125	100	125	190	324	200	280	112	160	120	360	280	16	639	480
NMM 100-200/ 156	170	100L6	1.5	523	DA	125	100	125	190	305	200	280	100	160	120	360	280	16	620	480

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 100-200/ 406	218	30	ML4a	B1.12	F4
NMM 100-200/ 306	203	30	ML4a	B1.12	F4
NMM 100-200/ 226	187	30	ML3	B1.12	-
NMM 100-200/ 156	170	30	ML3	B1.12	-

Flange Dimensions

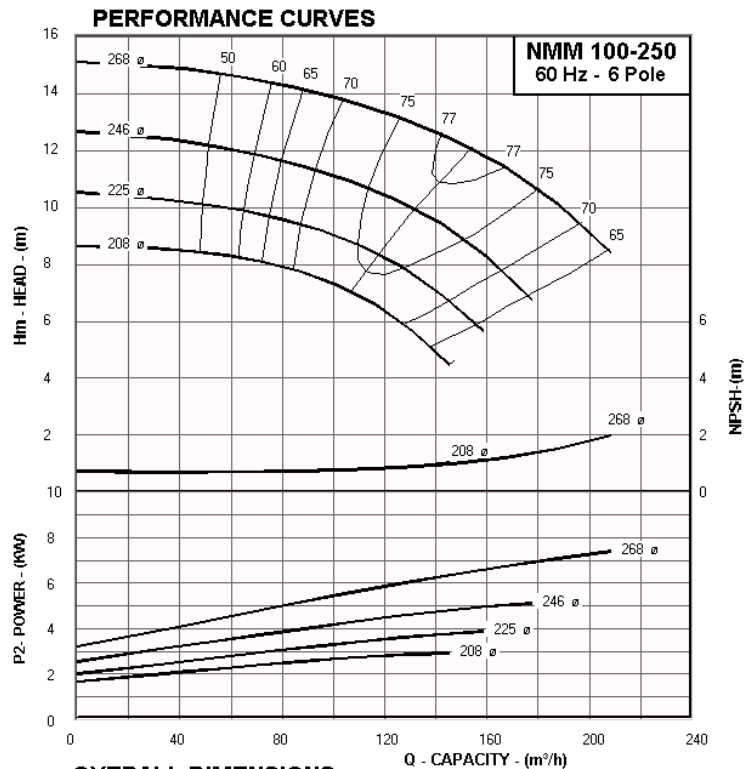


MAS NMM - Close Coupled Centrifugal Pumps

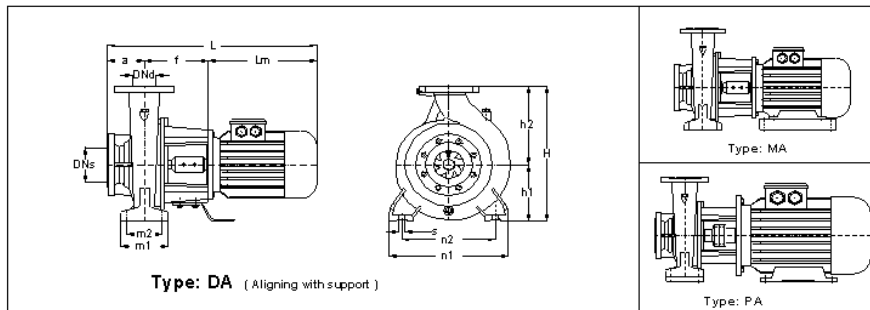
Performance Curves - 60 Hz - 1100 rpm



TECHNICAL DATA : NMM 100-250 - 60 Hz - 6 Pole



OVERALL DIMENSIONS



Pump Size	Imp. ø	Motor Size	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM 100-250/ 756	268	160M6	7.5	635	MA	125	100	140	240	484	225	280	160	160	120	400	315	16	864	505
NMM 100-250/ 556	246	132M6	5.5	634	MA	125	100	140	215	413	225	280	132	160	120	400	315	16	768	505
NMM 100-250/ 406	225	132M6	4	634	MA	125	100	140	215	413	225	280	132	160	120	400	315	16	768	505
NMM 100-250/ 306	208	132S6	3	634	MA	125	100	140	215	375	225	280	132	160	120	400	315	16	730	505

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 100-250/ 756	268	30	ML4b	B2.12	F7
NMM 100-250/ 556	246	30	ML4a	B2.12	-
NMM 100-250/ 406	225	30	ML4a	B2.12	-
NMM 100-250/ 306	208	30	ML4a	B2.12	-

Flange Dimensions

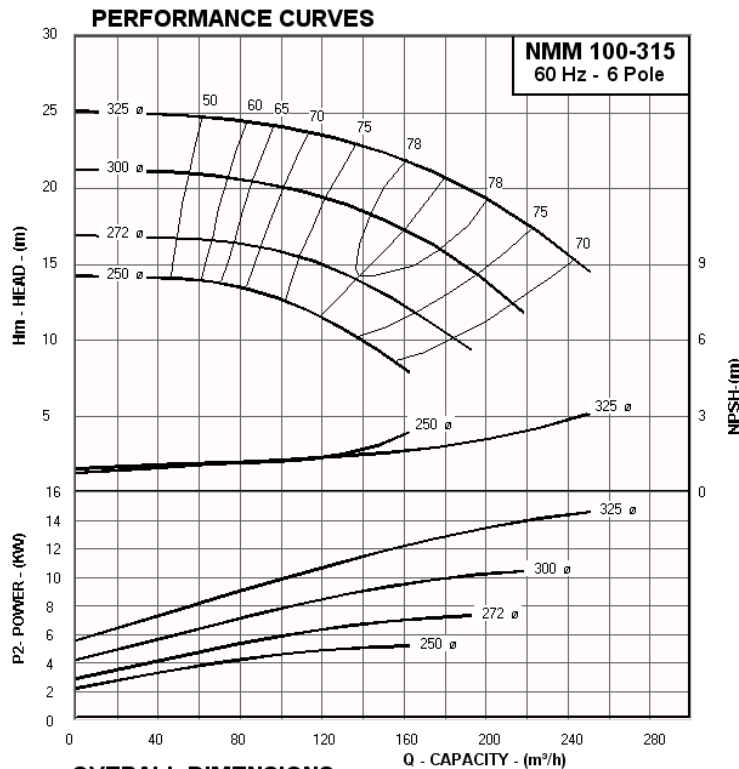
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
125	250	210	18	8
100	220	180	18	8

MAS NMM - Close Coupled Centrifugal Pumps

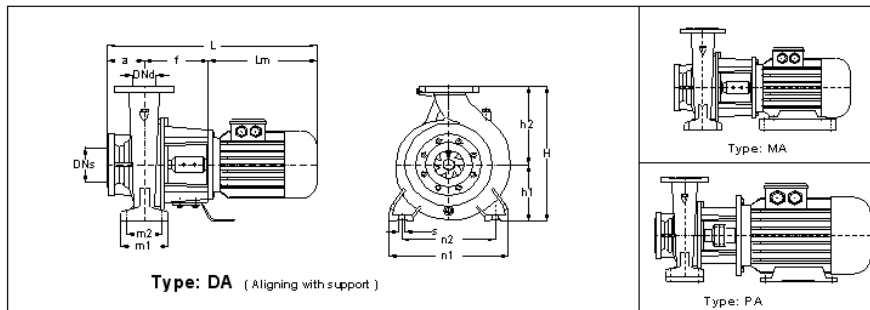
Performance Curves - 60 Hz - 1100 rpm



TECHNICAL DATA : NMM 100-315 - 60 Hz - 6 Pole



OVERALL DIMENSIONS



Pump Size	Imp. ø	Motor Size	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM 100-315/ 1506	325	180L6	15	736	MA	125	100	140	240	582	250	315	180	160	120	400	315	16	962	565
NMM 100-315/ 1106	300	160L6	11	735	MA	125	100	140	240	528	250	315	160	160	120	400	315	16	908	565
NMM 100-315/ 756	272	160M6	7.5	735	MA	125	100	140	240	484	250	315	160	160	120	400	315	16	864	565
NMM 100-315/ 556	250	132M6	5.5	734	MA	125	100	140	215	413	250	315	132	160	120	400	315	16	768	565

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 100-315/ 1506	325	30	ML4k	B3.12	-
NMM 100-315/ 1106	300	30	ML4b	B3.12	-
NMM 100-315/ 756	272	30	ML4b	B3.12	-
NMM 100-315/ 556	250	30	ML4a	B3.12kc	T7

Flange Dimensions

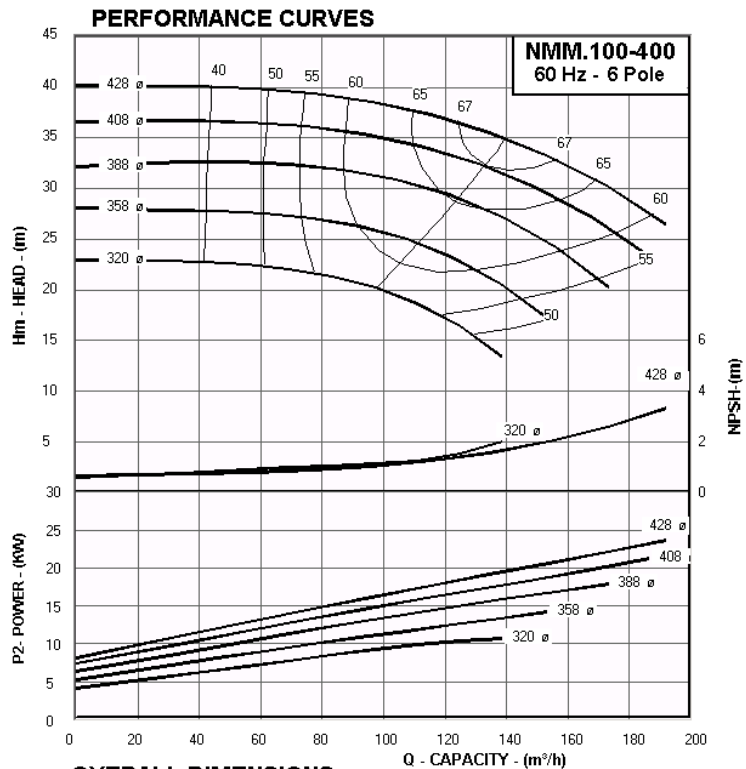
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
125	250	210	18	8
100	220	180	18	8

MAS NMM - Close Coupled Centrifugal Pumps

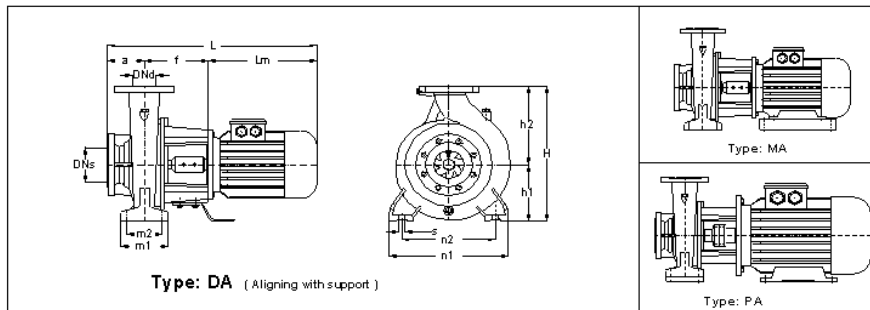
Performance Curves - 60 Hz - 1100 rpm



TECHNICAL DATA : NMM.100-400 - 60 Hz - 6 Pole



OVERALL DIMENSIONS

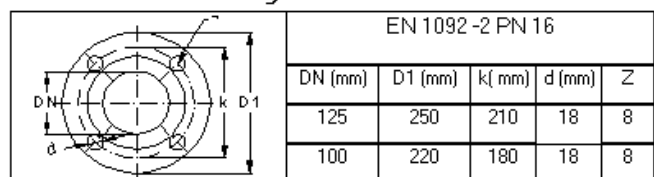


Pump Size	Imp. \varnothing	Motor Size	KW	Code	Type	DN _s	DN _d	a	f	L _m	h ₁	h ₂	h _m	m ₁	m ₂	n ₁	n ₂	s	L	H
NMM.100-400/ 3006	428	225M6	30	948	MA	125	100	140	330	680	280	355	225	200	150	500	400	20	1150	635
NMM.100-400/ 2206	408	200L6	22	947	MA	125	100	140	280	637	280	355	200	200	150	500	400	20	1057	635
NMM.100-400/ 1856	388	200L6	18.5	947	MA	125	100	140	280	637	280	355	200	200	150	500	400	20	1057	635
NMM.100-400/ 1506	358	180L6	15	946	MA	125	100	140	250	582	280	355	180	200	150	500	400	20	972	635
NMM.100-400/ 1106	320	160L6	11	945	MA	125	100	140	250	528	280	355	160	200	150	500	400	20	918	635

Main Part Codes

Pump Size	Imp. \varnothing	Seal mm \varnothing	Shaft and Coupling	Adapter	Flange
NMM.100-400/ 3006	428	45	ML11 + K7	C3.1	F10
NMM.100-400/ 2206	408	45	ML10 + K6	C3.1	F9
NMM.100-400/ 1856	388	45	ML10 + K6	C3.1	F9
NMM.100-400/ 1506	358	45	ML4f	C3.1	-
NMM.100-400/ 1106	320	45	ML4e	C3.1	-

Flange Dimensions



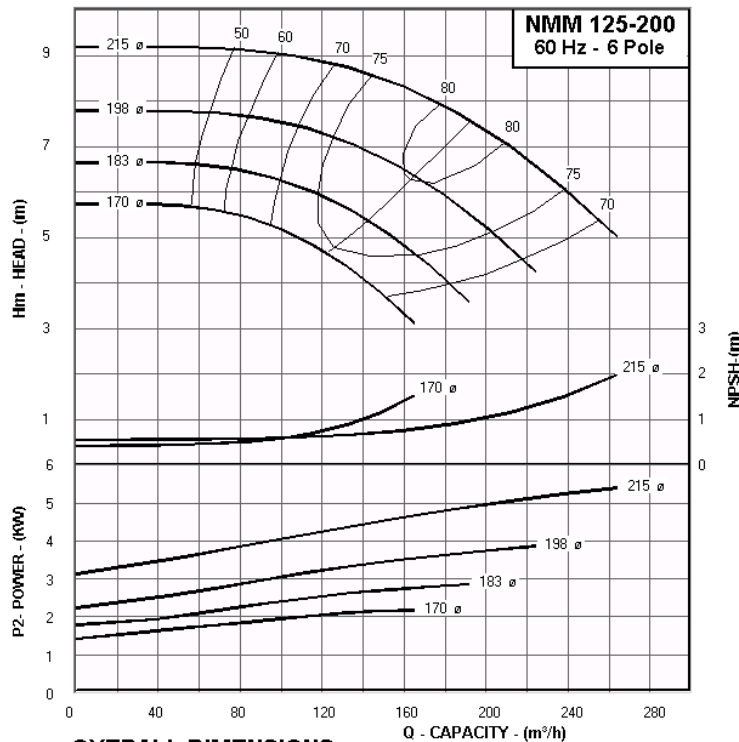
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1100 rpm

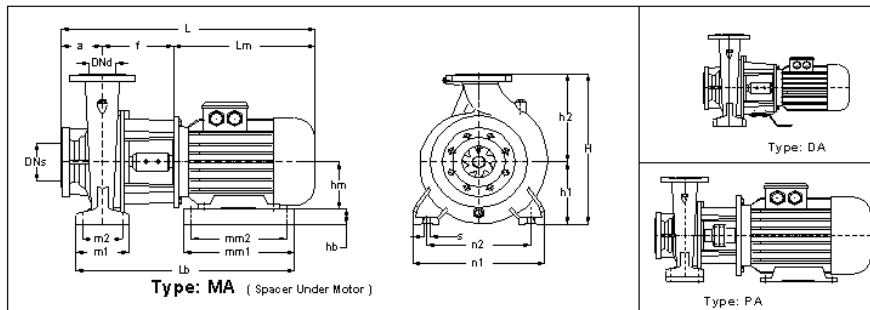


TECHNICAL DATA : NMM 125-200 - 60 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 125-200/ 556	215	132M6	5.5	534	MA	150	125	140	215	413	250	315	132	160	120	400	315	16	768	565
NMM 125-200/ 406	198	132M6	4	534	MA	150	125	140	215	413	250	315	132	160	120	400	315	16	768	565
NMM 125-200/ 306	183	132S6	3	534	MA	150	125	140	215	375	250	315	132	160	120	400	315	16	730	565
NMM 125-200/ 226	170	112M6	2.2	533	DA	150	125	140	190	324	250	315	112	160	120	400	315	16	654	565

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 125-200/ 556	215	30	ML4a	B1.12	F4
NMM 125-200/ 406	198	30	ML4a	B1.12	F4
NMM 125-200/ 306	183	30	ML4a	B1.12	F4
NMM 125-200/ 226	170	30	ML3	B1.12	-

Flange Dimensions

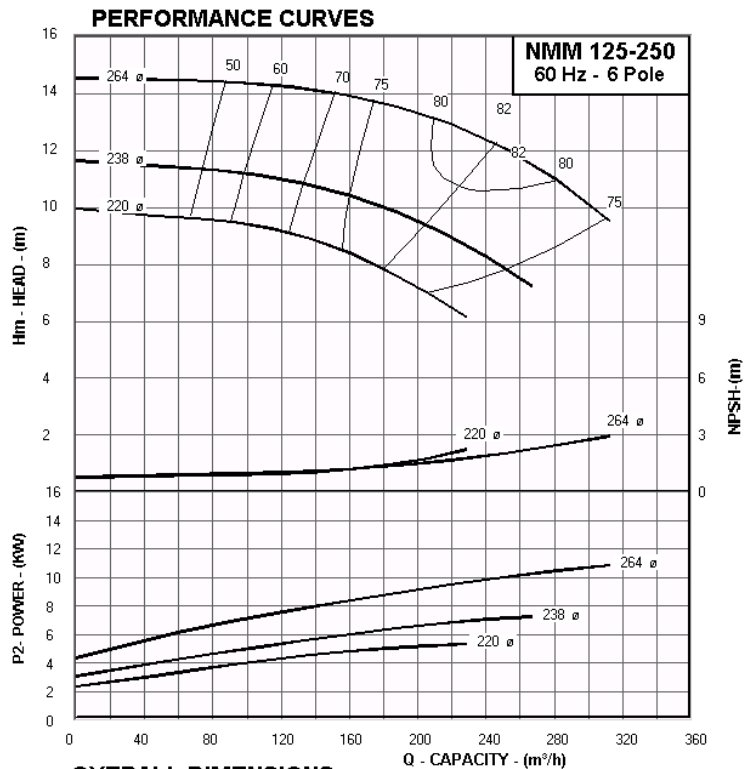
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
150	285	240	23	8
125	250	210	18	8

MAS NMM - Close Coupled Centrifugal Pumps

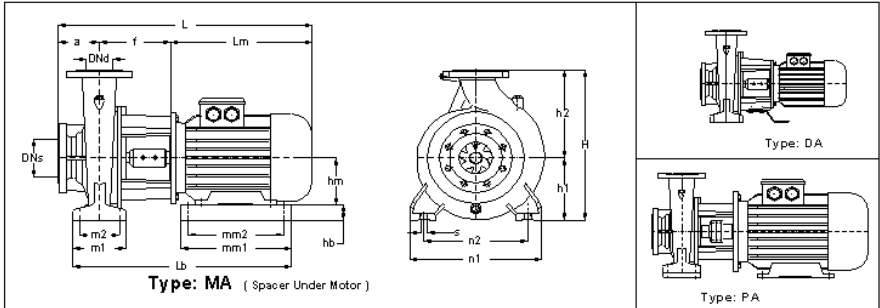
Performance Curves - 60 Hz - 1100 rpm



TECHNICAL DATA : NMM 125-250 - 60 Hz - 6 Pole



OVERALL DIMENSIONS



Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 125-250/ 1106	264	160L6	11	645	MA	150	125	140	250	528	250	355	160	160	120	400	315	16	918	605
NMM 125-250/ 756	238	160M6	7.5	645	MA	150	125	140	250	484	250	355	160	160	120	400	315	16	874	605
NMM 125-250/ 556	220	132M6	5.5	644	MA	150	125	140	225	413	250	355	132	160	120	400	315	16	778	605

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 125-250/ 1106	264	30	ML4b	B2.12	F7
NMM 125-250/ 756	238	30	ML4b	B2.12	F7
NMM 125-250/ 556	220	30	ML4a	B2.12	-

Flange Dimensions

EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
150	285	240	23	8
125	250	210	18	8

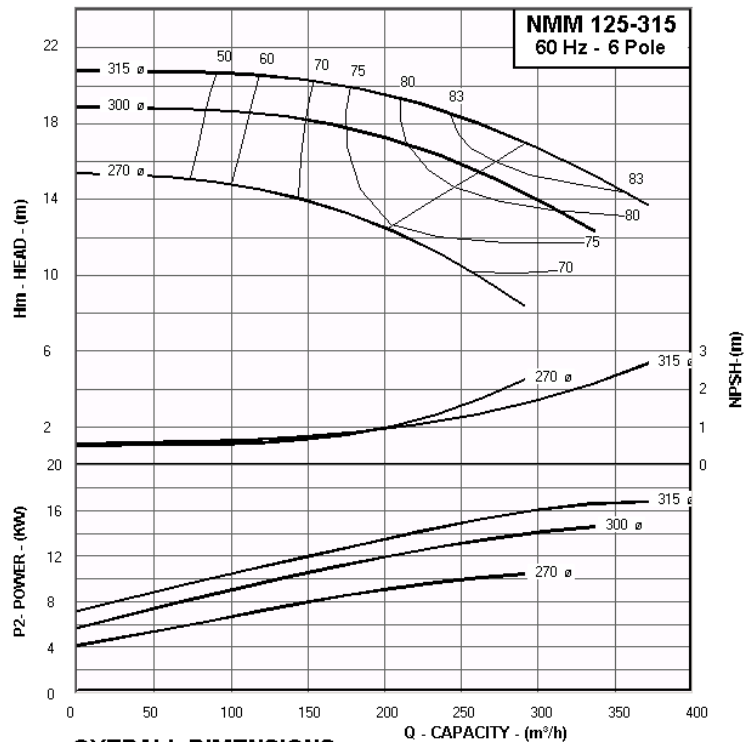
MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1100 rpm

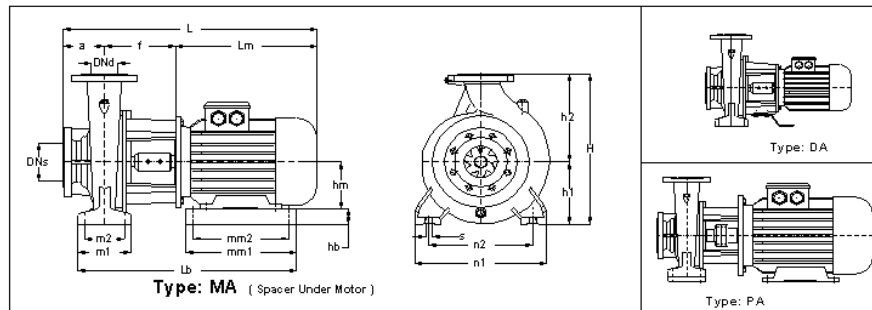


TECHNICAL DATA : NMM 125-315 - 60 Hz - 6 Pole

PERFORMANCE CURVES



OVERALL DIMENSIONS



Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM 125-315/ 1856	315	200L6	18.5	817	MA	150	125	140	285	637	280	355	200	200	150	500	400	20	1062	635
NMM 125-315/ 1506	300	180L6	15	816	MA	150	125	140	255	582	280	355	180	200	150	500	400	20	977	635
NMM 125-315/ 1106	270	160L6	11	815	MA	150	125	140	255	528	280	355	160	200	150	500	400	20	923	635

Main Part Codes

Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM 125-315/ 1856	315	35	ML9 + K6	C2.13	F9
NMM 125-315/ 1506	300	30	ML6b	C2.12	-
NMM 125-315/ 1106	270	30	ML6a	C2.12	-

Flange Dimensions

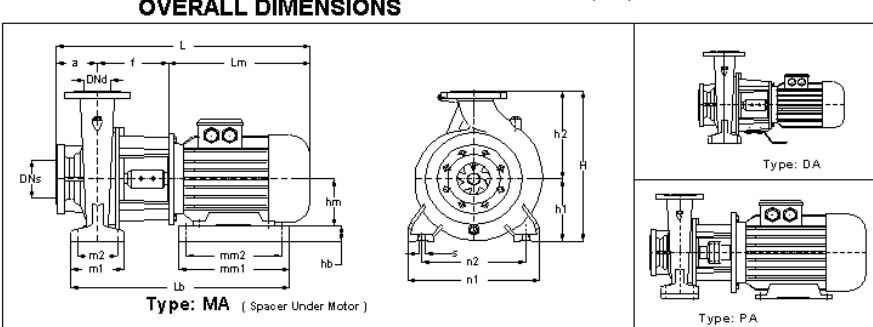
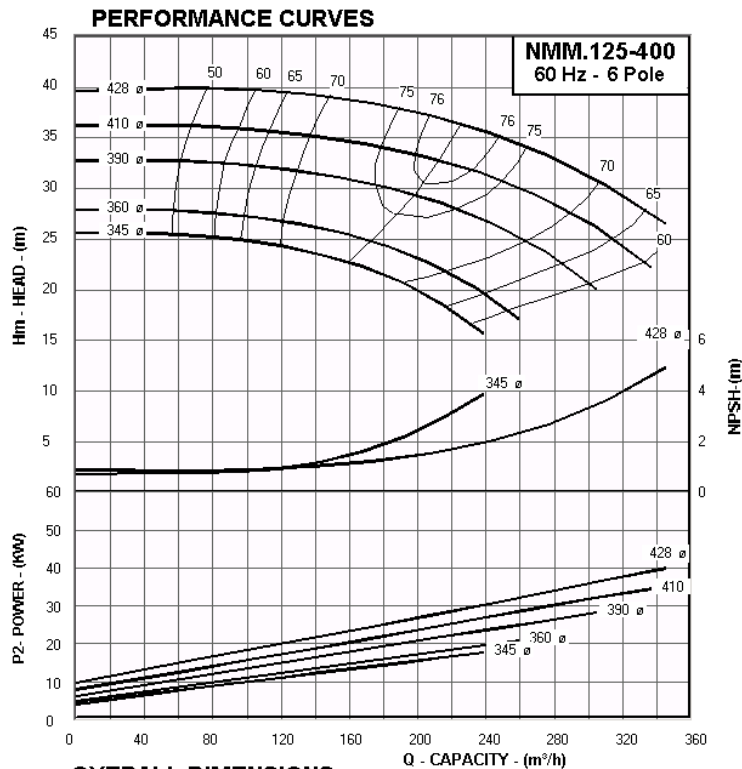
EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
150	285	240	23	8
125	250	210	18	8

MAS NMM - Close Coupled Centrifugal Pumps

Performance Curves - 60 Hz - 1100 rpm



TECHNICAL DATA : NMM.125-400 - 60 Hz - 6 Pole



Pump Size	Imp. ø	Motor Size	KW	Code	Type	DNs	DNd	a	f	Lm	h1	h2	hm	m1	m2	n1	n2	s	L	H
NMM.125-400/ 4506	428	280S6	45	9510	MA	150	125	140	330	818	315	400	280	200	150	500	400	20	1288	715
NMM.125-400/ 3706	410	250M6	37	959	MA	150	125	140	330	750	315	400	250	200	150	500	400	20	1220	715
NMM.125-400/ 3006	390	225M6	30	958	MA	150	125	140	330	680	315	400	225	200	150	500	400	20	1150	715
NMM.125-400/ 2206	360	200L6	22	957	MA	150	125	140	280	637	315	400	200	200	150	500	400	20	1057	715
NMM.125-400/ 1856	345	200L6	18.5	957	MA	150	125	140	280	637	315	400	200	200	150	500	400	20	1057	715

Main Part Codes

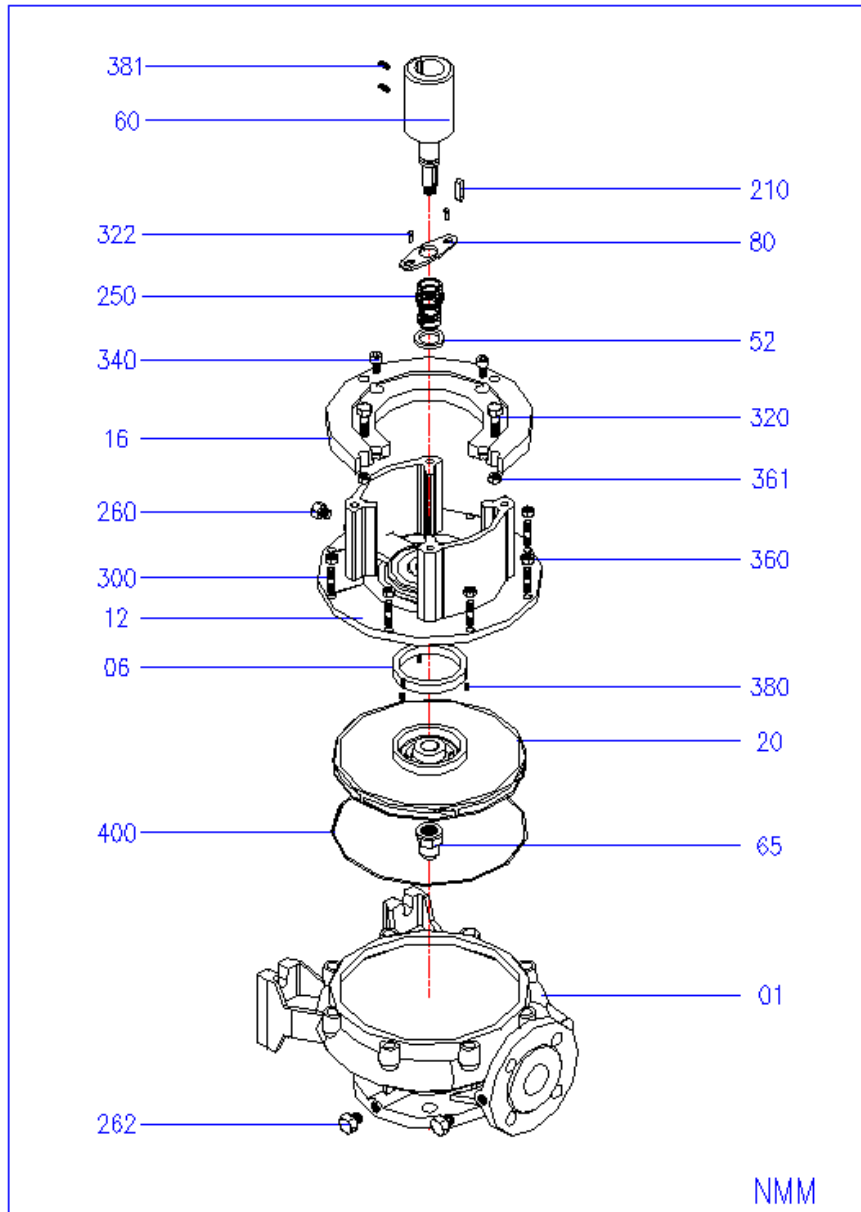
Pump Size	Imp. ø	Seal mm ø	Shaft and Coupling	Adapter	Flange
NMM.125-400/ 4506	428	45	ML11 + K8	C3.1	F11
NMM.125-400/ 3706	410	45	ML11 + K7	C3.1	F11
NMM.125-400/ 3006	390	45	ML11 + K7	C3.1	F10
NMM.125-400/ 2206	360	45	ML10 + K6	C3.1	F9
NMM.125-400/ 1856	345	45	ML10 + K6	C3.1	F9

Flange Dimensions

EN 1092 -2 PN 16				
DN (mm)	D1 (mm)	k (mm)	d (mm)	Z
150	285	240	23	8
125	250	210	18	8

MAS NMM - Close Coupled Centrifugal Pumps

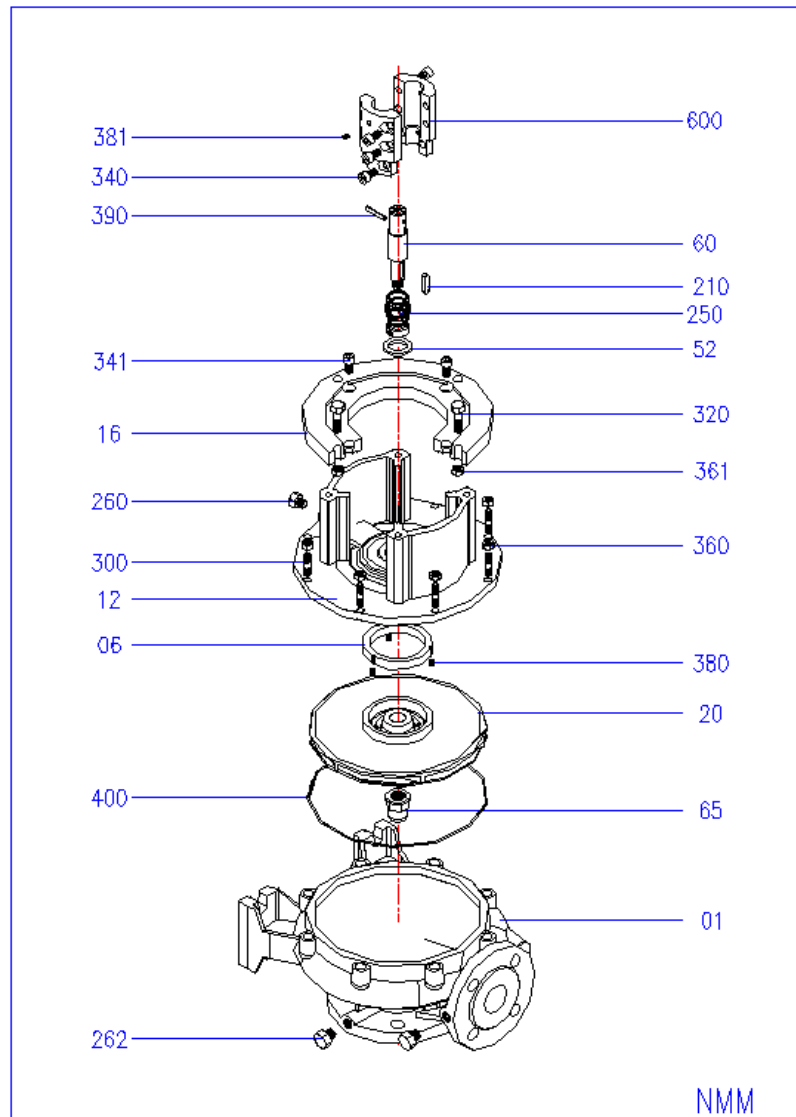
NMM EXPLODED VIEW (Without Coupling)



No	Part Name	No	Part Name
01	Pump Casing	260	Pipe Plug, Adapter
06	Wearing Ring	262	Plug, Pump Casing
12	Adapter	300	Stud, Pump Casing
16	Motor Flange	320	Hex Bolt
20	Impeller	322	Hex Bolt
52	Mechanical Seal Ring	340	Cap Screw
60	Pump Shaft	360	Nut
65	Impeller Nut	361	Nut
80	Shackle	380	Set-Screw
210	Key, Impeller	381	Set-Screw
250	Mechanical Seal	400	O-Ring

MAS NMM - Close Coupled Centrifugal Pumps

NMM EXPLODED VIEW (With Coupling)



No	Part Name	No	Part Name
01	Pump Casing	300	Stud, Pump Casing
06	Wearing Ring	320	Hex Bolt
12	Adapter	340	Cap Screw
16	Motor Flange	341	Cap Screw
20	Impeller	360	Nut
52	Mechanical Seal Ring	361	Nut
60	Pump Shaft	380	Set-Screw
65	Impeller Nut	381	Set-Screw
210	Key, Impeller	390	Grooved Pin
250	Mechanical Seal	400	O-Ring
260	Pipe Plug, Adapter	600	Rigid Coupling
262	Plug, Pump Casing		