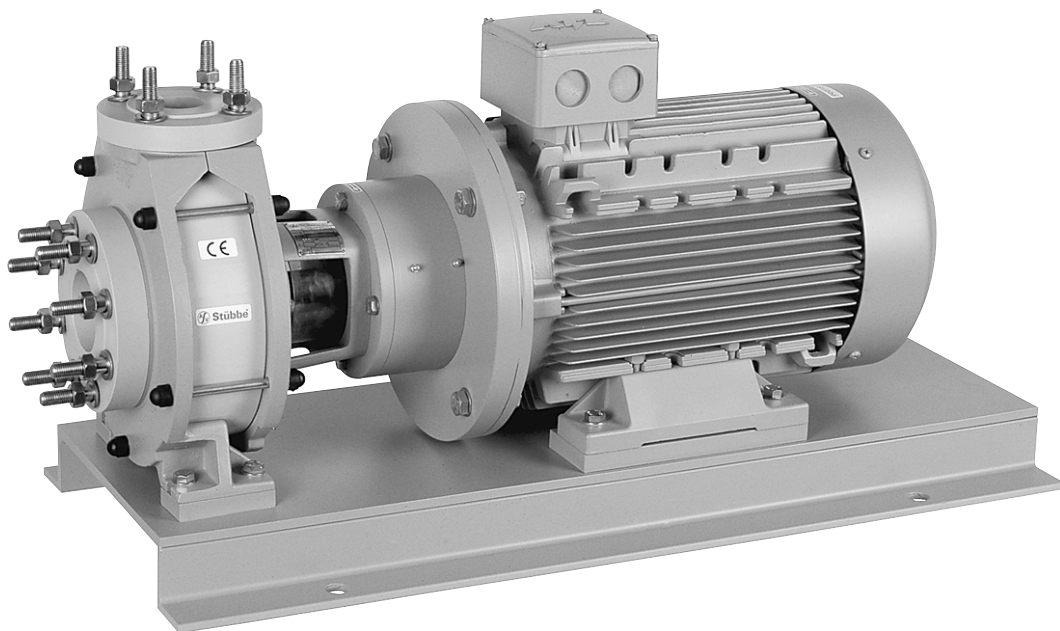


Thermoplastic Centrifugal Pump Type NMB-S

Suction and pressure connection acc. to EN 22858, ISO 2858

Sizes:	32 - 125 up to 80 - 315
Capacity Q:	up to 100 m ³ /h (1450 rpm) up to 200 m ³ /h (2900 rpm)
Head H:	up to 35 m (1450 rpm) up to 60 m (2900 rpm)
Operating temperature t:	max. 60 °C PE, 80 °C PP, 110 °C PVDF



The ASV thermoplastic centrifugal pump

- for transportation of aggressive fluids like acids, alkalines and solvents
- constructional components highly resistant

Execution

Construction

ASV thermoplastic chemical centrifugal pump type NMB-S is a single-stage spiral casing pump in horizontal construction with axial suction and radial pressure connection.

Low maintenance, space-saving compact pump.

Due to redesigning of the pump shaft bearing the pump head is directly flanged at motor. Standard flange motors acc. to IEC or Nema may be used via flange adaptor.

Nominal output and flange connections acc. to EN 22858.

The modular concept of the ASV thermoplastic centrifugal pump allows an easy and fast exchange of wear and tear parts.

The mounting of the pump into the line system is problemfree as an adjustment of the coupling is not necessary.

The hydraulic of the ASV centrifugal pump is made of few solid thermoplastic parts in order to guarantee high operational reliability. To ensure this reliability high chemical and wearing resistant thermoplastics like high molecular weight Polyethylene (PE), ultra high molecular weight low-pressure-Polyethylene (Hostalen GUR), Polypropylene (PP) or Polyvinylidene fluoride (PVDF) are used.

Absorption of external forces by robust metal casing. Drainholes on spiral casings on request.

Suction

The pump is not self-priming and has to be installed with positive liquid supply. Self-priming can be arranged with the help of a footvalve (only for liquids free of solid particles) at the end of the suction line or the installation of an ASV self-priming container. Respective brochures are available.

Impeller

- closed radial impeller
- axial-thrust-compensation by relief holes
- impeller mounting independent of direction of rotation
- seal of impeller by impeller cap and internal O-ring

Shaft and shaft protection sleeve

- extended motor shaft made of stainless steel
- shaft protection sleeves made of resin impregnated carbon or thermoplastic depending on flow medium

Shaft seal

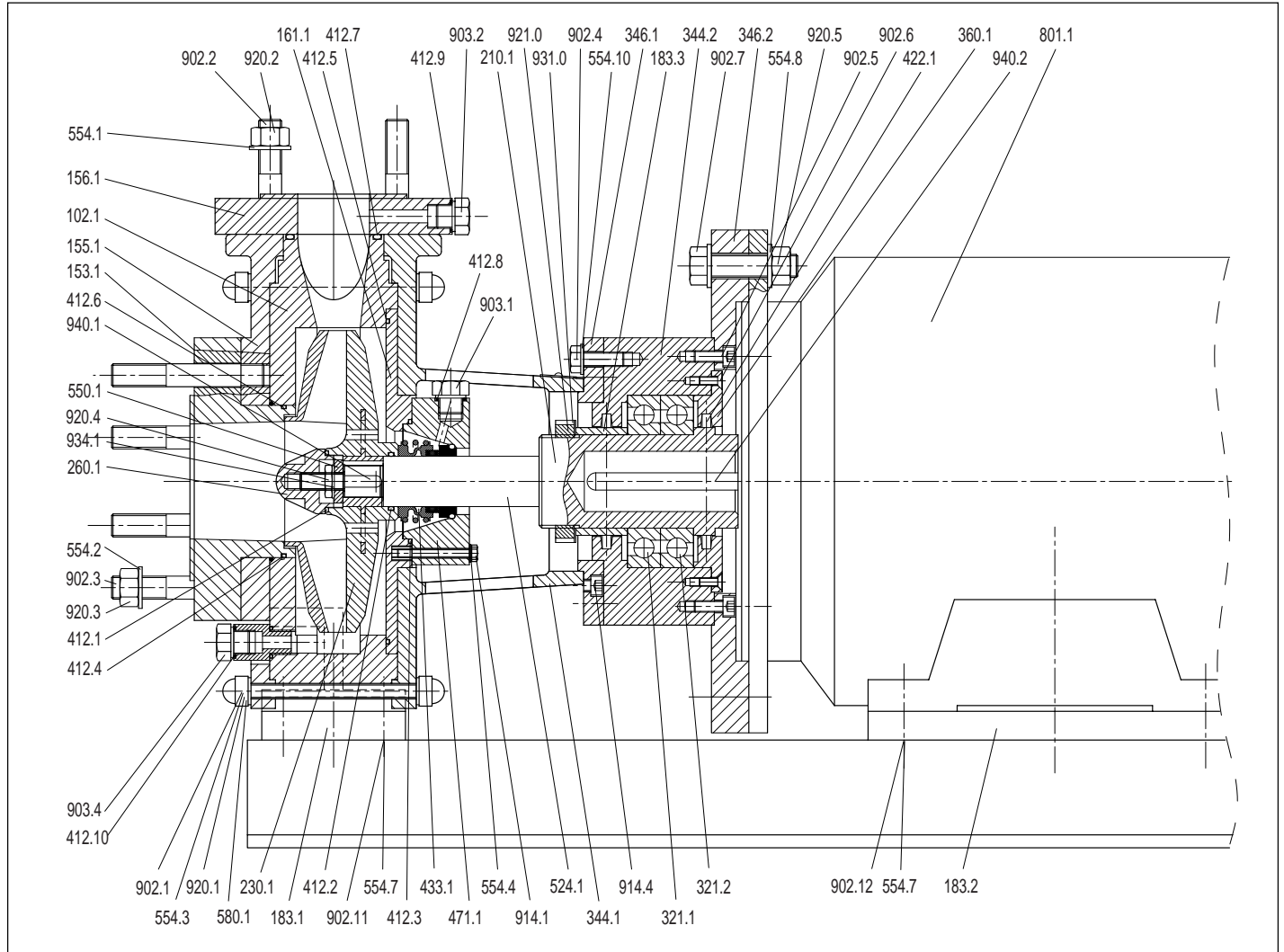
- sealing of the shaft by single or double mechanical seals of various executions and brands
- circulation, flushing or quenching arrangeable depending on the application (see illustration)
- sliding surface combination in silicated carbon against silicated carbon, O-rings and liner of Viton (FPM) or Hypalon (CSM), metal parts of SS 1.4571 or Hastelloy as standard execution and allows a wide range of application.

Materials in other combinations are also possible.

Painting

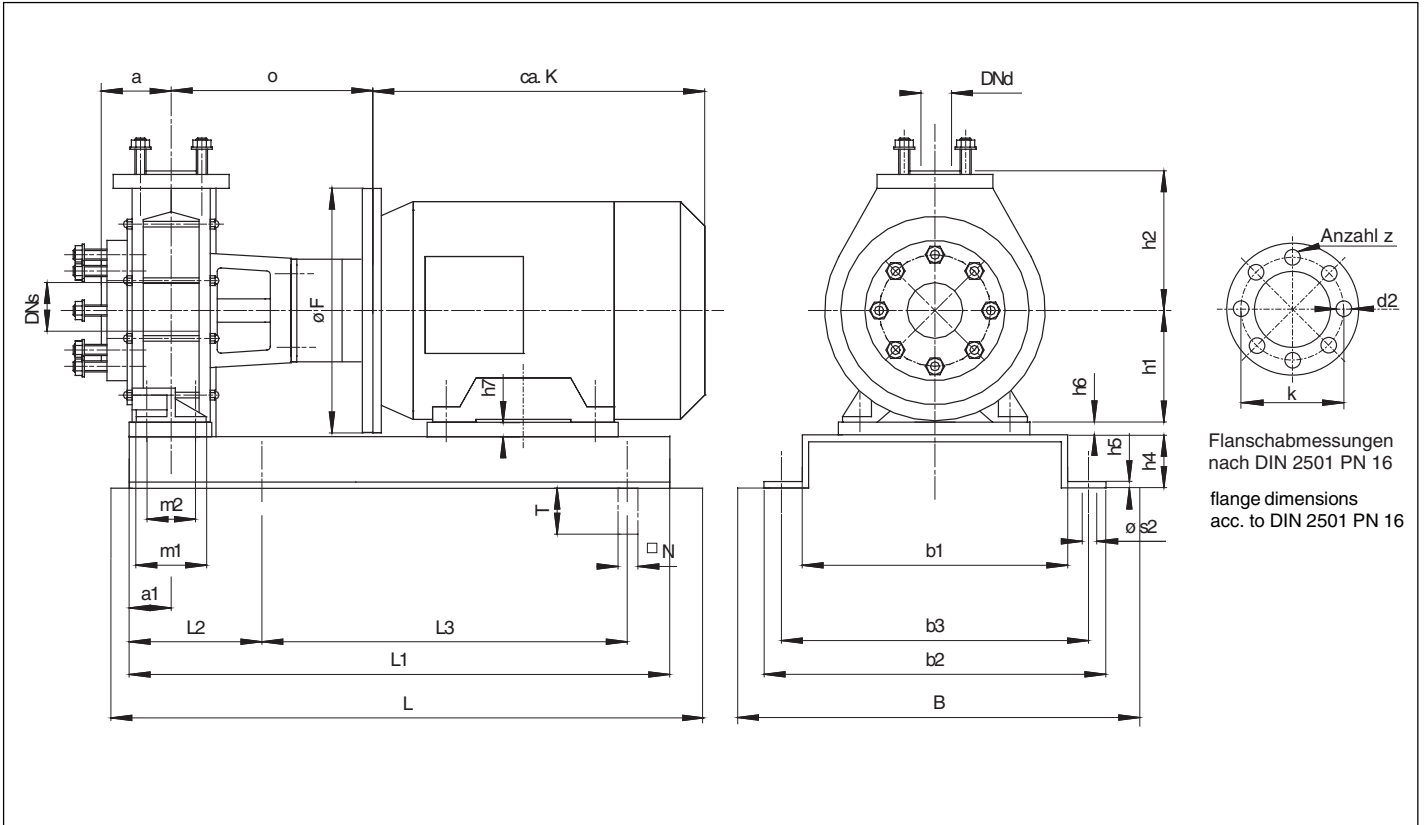
- several coatings protect all metal parts of the pump
- special coating systems for higher protection available

Sectional drawing



Item	Description	Item	Description	Item	Description
102.1	spiral casing	412.5	O-ring	902.3	stud bolt
153.1	suction connection	412.6	O-ring	902.4	hexagonal bolt
155.1	armour housing	412.7	O-ring	902.5	socket head cap srew
156.1	pressure connection	412.8	O-ring	902.6	plug screw
161.1	casing cover	412.9	O-ring	902.7	hexagonal bolt
183.1	distance piece	412.10	O-ring	902.11	hexagonal bolt
183.2	distance piece	422.1	felt ring	902.12	hexagonal bolt
183.3	distance piece	433.1	mechanical seal	903.1	plug screw
210.1	pump shaft	471.1	sealing casing	903.2	plug screw
230.1	impeller	524.1	shaft protection sleeve	903.4	plug screw
260.1	impeller cap	550.1	U-washer	914.1	hexagonal bolt
321.1	angular ball bearing	554.1	U-washer	914.4	socket head cap srew
321.2	angular ball bearing	554.2	U-washer	920.1	hexagonal nut
344.1	bearing carrier lantern	554.3	U-washer	920.2	hexagonal nut
344.2	bearing housing	554.4	U-washer	920.3	hexagonal nut
346.1	intermediate flange	554.7	U-washer	920.4	hexagonal nut
346.2	intermediate flange	554.8	U-washer	920.5	hexagonal nut
360.1	bearing cover	554.10	U-washer	921	hexagonal shaft nut
412.1	O-ring	580.1	hexagonal protection cap	931	locking plate
412.2	O-ring	801.1	three-phase-current motor	934.1	spring ring
412.3	O-ring	902.1	stud bolt	940.1	feather key
412.4	O-ring	902.2	stud bolt	940.2	feather key

Pump dimensions



type				pump dimensions					plate dimensions											foot measure			
	DNd	DNs		a	h1	h2	o	F	K	a1	b1	b2	b3	h4	h5	h6	L1	L2	L3	oN	s2	b	h7
32-160	32	50	80	132	160	289	350	365	60	340	450	400	75	9	48	1000	170	660	85	24	50	20	100
32-200	32	50	80	160	180	289	350	365	60	340	450	400	75	9	20	1000	170	660	85	24	50	20	100
32-250	32	50	100	180	225	326	350	365	75	340	450	400	75	9	-	1000	170	660	85	24	65	-	125
40-125	40	65	80	112	140	289	350	365	60	340	450	400	75	9	68	1000	170	660	85	24	50	20	100
40-160	40	65	80	132	160	289	350	365	60	340	450	400	75	9	48	1000	170	660	85	24	50	20	100
40-200	40	65	100	160	180	289	350	365	60	340	450	400	75	9	20	1000	170	660	85	24	50	20	100
40-250	40	65	100	180	225	326	350	365	75	340	450	400	75	9	-	1000	170	660	85	24	65	-	125
40-315	40	65	125	200	250	326	350	365	75	380	490	440	75	9	-	1120	190	740	85	24	65	40	125
50-125	50	80	100	132	160	289	350	365	60	340	450	400	75	9	48	1000	170	660	85	24	50	20	100
50-160	50	80	100	160	180	289	350	365	60	340	450	400	75	9	20	1000	170	660	85	24	50	20	100
50-200	50	80	100	160	200	289	350	365	60	340	450	400	75	9	20	1000	170	660	85	24	50	20	100
50-250	50	80	125	180	225	326	350	365	75	340	450	400	75	9	-	1000	170	660	85	24	65	-	125
50-315	50	80	125	225	280	326	350	365	75	380	490	440	75	9	-	1120	190	740	85	24	65	65	125
65-160	65	100	100	160	200	289	350	365	75	340	450	400	75	9	20	1000	170	660	85	24	65	20	125
65-200	65	100	100	180	225	326	350	365	75	340	450	400	75	9	-	1000	170	660	85	24	65	-	125
65-250	65	100	125	200	250	326	350	365	90	380	490	440	75	9	-	1120	190	740	85	24	80	40	160
65-315	65	100	125	225	280	336	350	365	90	430	540	490	75	9	-	1250	205	840	85	24	80	65	160
80-160	80	125	125	180	225	326	350	365	75	340	450	400	75	9	-	1000	170	660	85	24	65	-	125
80-200	80	125	125	180	250	326	350	365	75	380	490	440	75	9	-	1120	190	740	85	24	65	-	125
80-250	80	125	125	225	280	326	350	365	90	430	540	490	75	9	-	1250	205	840	85	24	80	65	160
80-315	80	125	125	250	315	336	350	365	90	430	540	490	75	9	-	1250	205	840	85	24	80	90	160



Pump dimensions

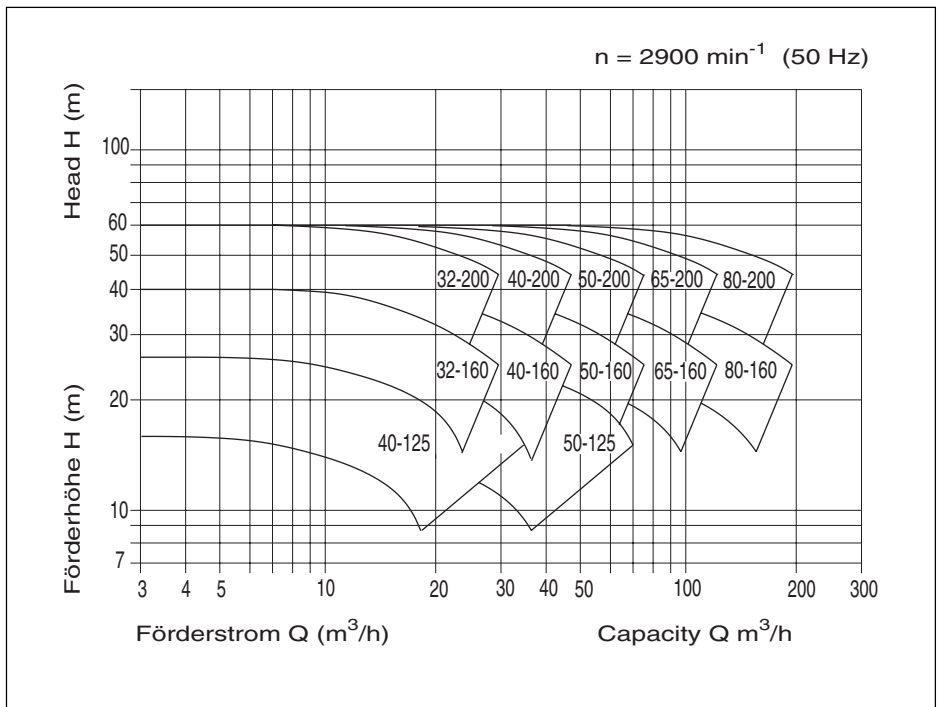
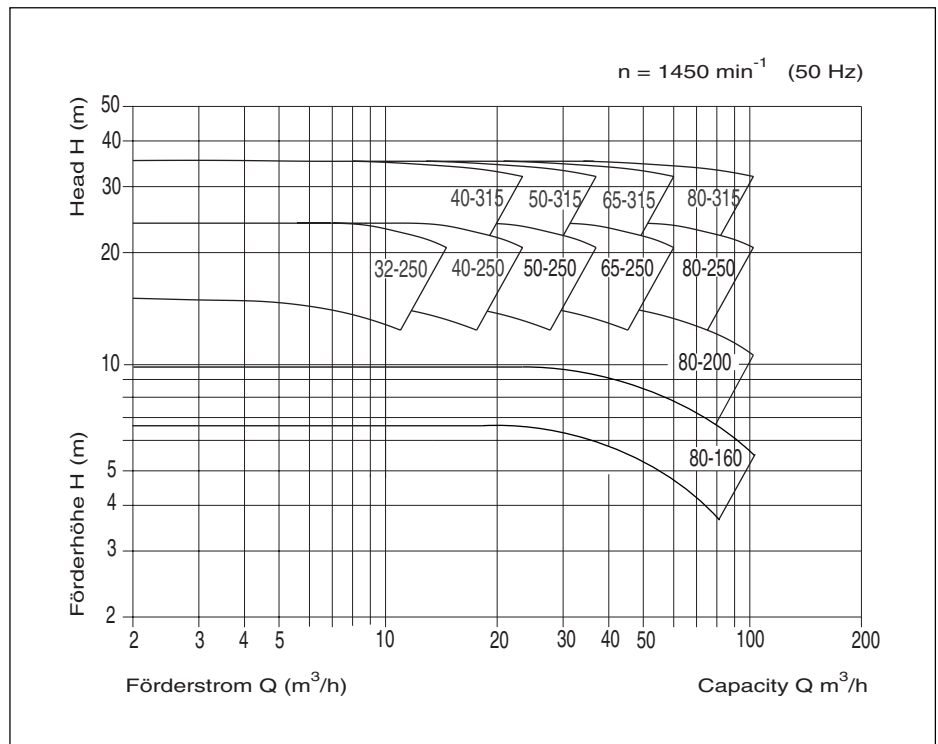
type	flange dimensions								foot measure				baseplate measure			stone bolts	base plate size
	pressure connection				suction connection				m2	n1	n2	s1	L	B	T		
NMB-S	DNd	k	d2	z	DNs	k	d2	z									
32-160	32	100	M 16	4	50	125	M 16	4	70	240	190	M12	1130	580	180	M 20 x 200	4
32-200	32	100	M 16	4	50	125	M 16	4	70	240	190	M12	1130	580	180	M 20 x 200	4
32-250	32	100	M 16	4	50	125	M 16	4	95	320	250	M12	1130	580	180	M 20 x 200	4
40-125	40	110	M 16	4	65	145	M 16	4	70	210	160	M12	1130	580	180	M 20 x 200	4
40-160	40	110	M 16	4	65	145	M 16	4	70	240	190	M12	1130	580	180	M 20 x 200	4
40-200	40	110	M 16	4	65	145	M 16	4	70	265	212	M12	1130	580	180	M 20 x 200	4
40-250	40	110	M 16	4	65	145	M 16	4	95	320	250	M12	1130	580	180	M 20 x 200	4
40-315	40	110	M 16	4	65	145	M 16	4	95	345	280	M12	1250	620	180	M 20 x 200	5
50-125	50	125	M 16	4	80	160	M 16	8	70	240	190	M12	1130	580	180	M 20 x 200	4
50-160	50	125	M 16	4	80	160	M 16	8	70	265	212	M12	1130	580	180	M 20 x 200	4
50-200	50	125	M 16	4	80	160	M 16	8	70	265	212	M12	1130	580	180	M 20 x 200	4
50-250	50	125	M 16	4	80	160	M 16	8	95	320	250	M12	1130	580	180	M 20 x 200	4
50-315	50	125	M 16	4	80	160	M 16	8	95	345	280	M12	1250	620	180	M 20 x 200	5
65-160	65	145	M 16	4	100	180	M 16	8	95	280	212	M12	1130	580	180	M 20 x 200	4
65-200	65	145	M 16	4	100	180	M 16	8	95	320	250	M12	1130	580	180	M 20 x 200	4
65-250	65	145	M 16	4	100	180	M 16	8	120	360	280	M16	1250	620	180	M 20 x 200	5
65-315	65	145	M 16	4	100	180	M 16	8	120	400	315	M16	1380	670	180	M 20 x 200	6
80-160	80	160	M 16	8	125	210	M 16	8	95	320	250	M12	1130	580	180	M 20 x 200	4
80-200	80	160	M 16	8	125	210	M 16	8	95	345	280	M12	1250	620	180	M 20 x 200	5
80-250	80	160	M 16	8	125	210	M 16	8	120	400	315	M16	1380	670	180	M 20 x 200	6
80-315	80	160	M 20	8	125	210	M 16	8	120	400	315	M16	1380	670	180	M 20 x 200	6



Motor classification NMB-S

type	motor size		k approx.
	kW	rpm	
NMB-S	kW	1450 rpm	11+15
	kW	2900 rpm	11+15
32-160	11	2900	473
32-200	11 + 15	2900	473
	-	-	-
32-250	11 + 15	2900	473
	11	1450	473
40-125	11	2900	473
40-160	11 + 15	2900	473
	-	-	-
40-200	11 + 15	2900	473
	-	-	-
40-250	11 + 15	2900	473
	11 + 15	1450	473
40-315	11 + 15	1450	473
	11 + 15	2900	473
50-125	11 + 15	2900	473
	-	-	-
50-160	11 + 15	2900	473
	-	-	-
50-200	11 + 15	2900	473
	-	-	-
50-250	11 + 15	2900	473
	11 + 15	1450	473
50-315	11 + 15	1450	473
	11 + 15	2900	473
65-160	11 + 15	2900	473
	-	-	-
65-200	11 + 15	2900	473
	-	-	-
65-250	11 + 15	2900	473
	11 + 15	1450	473
65-315	11 + 15	1450	473
	15	2900	473
80-160	11	1450	473
	15	2900	473
80-200	11	1450	473
	15	2900	473
80-250	11 + 15	1450	473
	-	-	-
80-315	11 + 15	1450	473

Characteristic curve fields for rotational speeds $n=1450$ rpm and $n=2900$ rpm acc. to DIN 24256



Technical alterations excepted



Notizen / notes

