

APPLICATION

Fan dedicated to polluted air exhaust systems and pneumatic transport. Examples of use:

- local exhaust systems, dehumidifiers, drying systems,
- transport of shavings, sawdust, granulates,
- combustion gases exhaustion systems.

CONSTRUCTION

- medium-pressure, directly driven centrifugal fans,
- the impeller is made of aluminum alloy, provided with straight blades is dynamically balanced according to ISO 1940-1 (in models to 290, in models from 350 and 600 the impeller is welded of steel sheet),
- the housing is cast in aluminum alloy,
- motor support in the 600 model,
- galvanized mesh on inlet in models 200 and 600
- standard color of the fan is gray RAL 7042,
- maximum temperature of the transported medium is 80°C,
- ambient temperature range from -20°C to +40°C,
- figure LG270 (model 350 in the figure RD270).

MOTOR

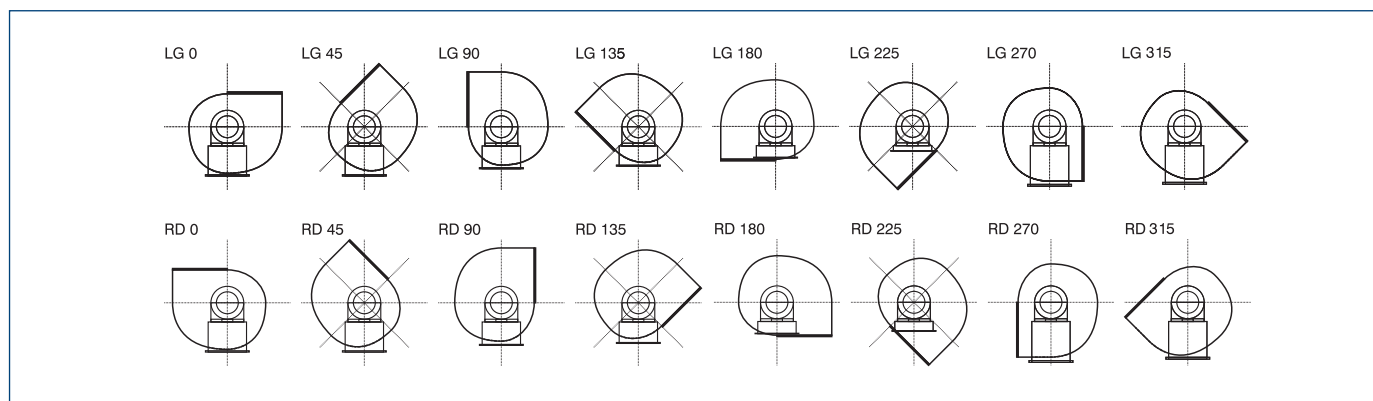
- asynchronous single-phase 230V 50Hz,
- asynchronous, three-phase 230V/400V 50Hz,
- asynchronous, three-phase 400V/690V 50Hz,
- degree of protection IP55,
- insulation class F,
- three-phase motors are adapted for frequency converter.

SPECIAL EXECUTIONS

- optional configuration LG/RD (in models from 160 to 290),
- color other than standard,
- painting in higher category of corrosivity,
- impeller made of galvanized steel sheet,
- impeller made of 1.4301 stainless steel sheet,
- impeller made of acid-resistant steel sheet 1.4404,
- motor with voltage and frequency of power different than standard,
- single-phase motor adapted to voltage regulation,
- motor with other than standard degree of protection,
- motor equipped with sensors or additional cooling,
- sealing between the housing and the motor,
- maximum temperature of the transported medium above 80°C,
- ambient temperature range below -20°C and above +40°C.



FIGURES



TECHNICAL CHARACTERISTICS

Type	airflow max	pressure max	maximum absorbed power	speed	maximum absorbed current		voltage	capacitor	sound pressure level*	weight	regulator	ErP	article number
	[m³/h]	[Pa]	[kW]	[r.p.m.]	[A]		[V]	[µF]	[dB(A)]	[kg]			
MPA 03S	360	1180	0,18	2780	1,6		230	8	72	9	-	not subject to	45510010
MPA 03T	360	1180	0,18	2760	0,85	0,5	230/400	-	72	9	Inverter 0,4 kW	not subject to	435510020
MPA 25S	385	1280	0,18	2780	1,6		230	8	74	10	-	not subject to	45510030
MPA 25T	385	1280	0,18	2760	0,85	0,5	230/400	-	74	10	Inverter 0,4 kW	not subject to	435510040
MPA 40S	430	2120	0,37	2760	2,2		230	25	74	16	-	not subject to	435510050
MPA 40T	430	2120	0,37	2870	1,65	0,85	230/400	-	74	16	Inverter 0,4 kW	2015	435510060
MPA 50S	645	2120	0,55	2780	3,6		230	20	75	18	-	not subject to	45510070
MPA 50T	645	2120	0,55	2790	2,15	1,25	230/400	-	75	15	Inverter 0,75 kW	2015	435510080
MPA 60S	640	2140	0,55	2870	3,1		230	35	76	24	-	2015	435510170
MPA 60T	640	2140	0,55	2870	2,15	1,25	230/400	-	76	24	Inverter 0,75 kW	2015	435510175
MPA 70S	830	2150	0,75	2800	4,2		230	50	78	21	-	2015	435510180
MPA 70T	830	2150	0,75	2890	2,95	1,7	230/400	-	76	24	Inverter 0,75 kW	2015	435510185
MPA 80S	850	2210	0,75	2800	5		230	25	78	21	-	not subject to	45510090
MPA 80T	850	2210	0,75	2890	2,95	1,7	230/400	-	78	22	Inverter 0,75 kW	2015	435510100
MPA 90S	1290	2210	1,1	2800	7,2		230	30	79	23	-	not subject to	45510110
MPA 90T	1290	2210	1,1	2890	4,3	2,5	230/400	-	79	24	Inverter 1,5 kW	2015	435510120
MPA 160T	1680	2300	2,2	2895	7,9	4,6	230/400	-	80	44	Inverter 2,2 kW	2015	435510130
MPA 290T	3560	3130	4	2895	7,3	4,2	400/690	-	88	66	Inverter 4 kW	2015	435510140
MPA 350T	4050	3730	5,5	2890	9,8	5,7	400/690	-	92	67	Inverter 5,5 kW	2015	435510150-01
MPA 600T 11kW	3660	6950	11	2900	19,1	11,1	400/690	-	94	163	Inverter 11 kW	not subject to	435510160
MPA 600T 15kW	6140	6950	15	2940	26,2	15,2	400/690	-	97	203	Inverter 15 kW	not subject to	435510160-03

*sound pressure measured at a distance of 1,5m from the fan at $q=2/3 \cdot Q_{max}$

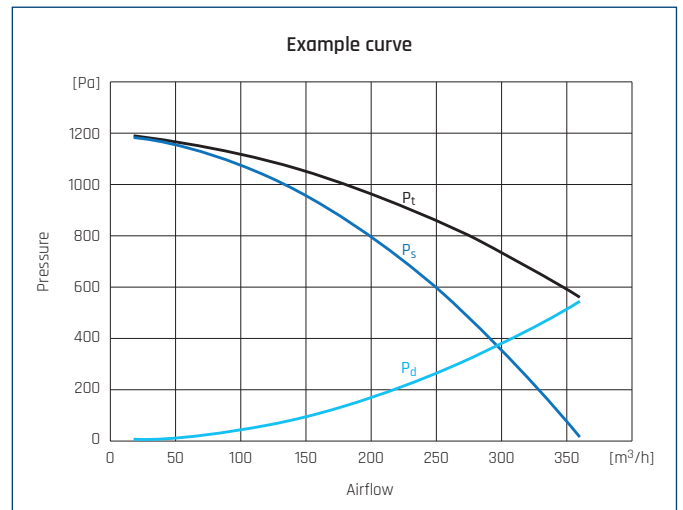
PERFORMANCE CURVES

- p_t - total pressure
- p_s - static pressure
- p_d - dynamic pressure

ErP

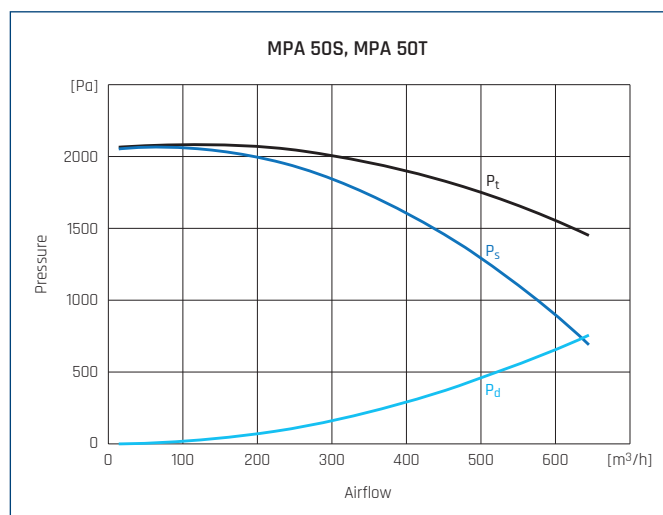
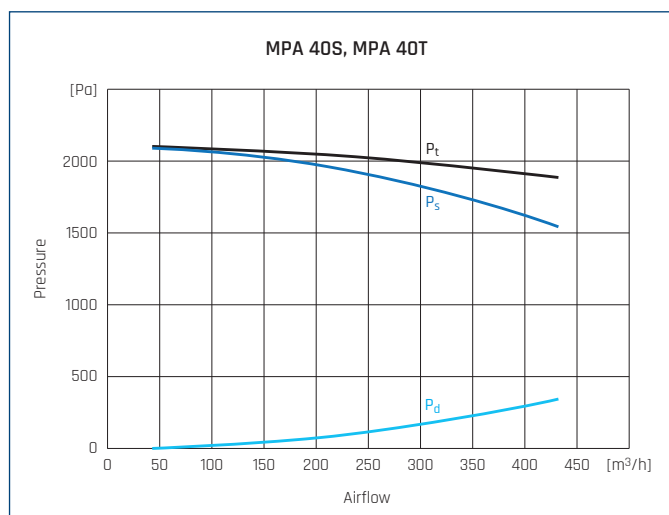
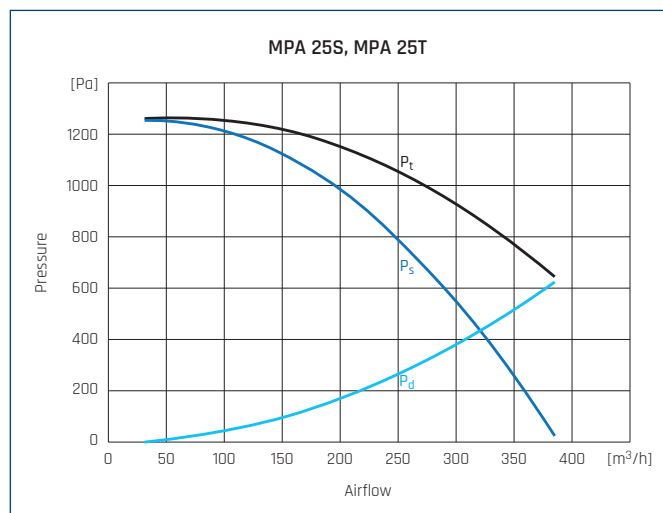
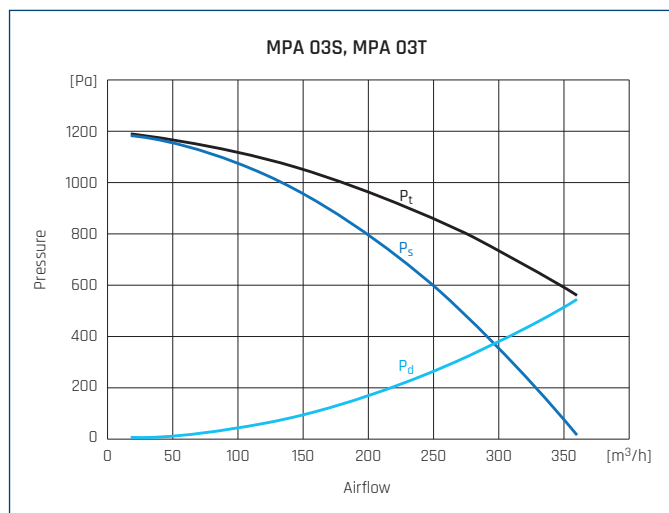
MC	Measurement category
EC	Efficiency category
VSD	Speed control: supplied with the fan
SR	Specific ratio
η [%]	Efficiency
N	Efficiency grade
[kW]	Absorbed power
[m³/h]	Airflow
[Pa]	Static pressure
[RPM]	Speed

Based on Commission Regulation (EU) No 327/2011 of 30 March 2011



MC	EC	VSD	SR	η [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	39,9	51	0,20	258	1095	2780

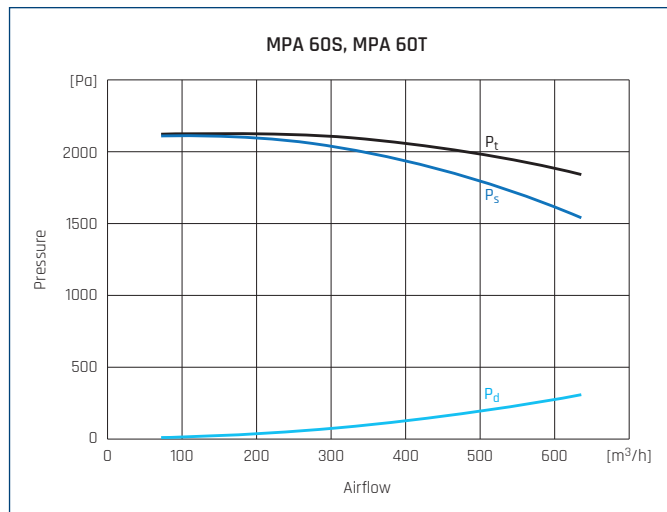
PERFORMANCE CURVES



MPA 40T									
MC	EC	VSD	SR	η [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	41,1	49,5	0,48	381	1884	2890

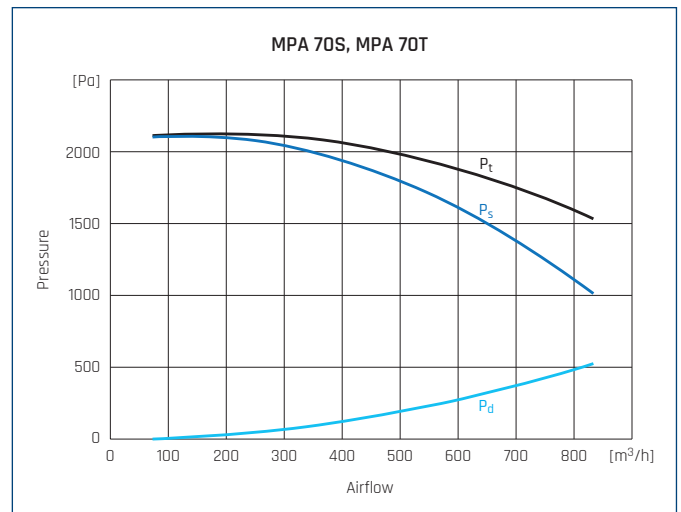
MPA 50T									
MC	EC	VSD	SR	η [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	43,1	51,3	0,51	426	1883	2911

PERFORMANCE CURVES



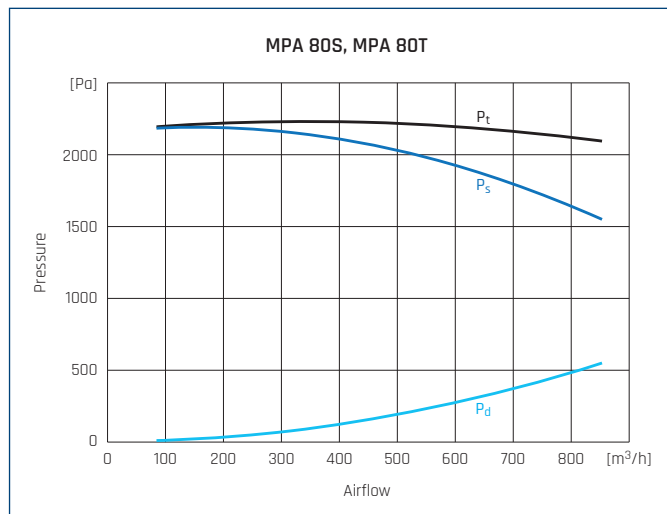
MPA 60S									
MC	EC	VSD	SR	η [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	43,1	50,5	0,67	545	1914	2870

MPA 60T									
MC	EC	VSD	SR	η [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	46,3	54,0	0,60	523	1912	2860

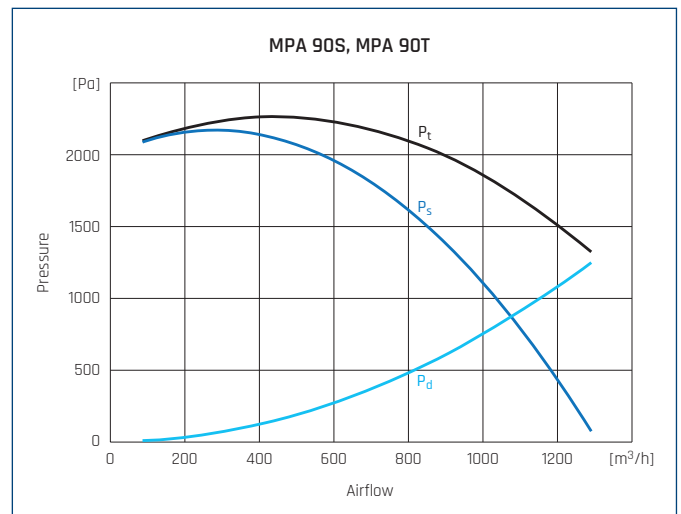


MPA 70S									
MC	EC	VSD	SR	η [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	41,9	49,2	0,69	546	1906	2880

MPA 70T									
MC	EC	VSD	SR	η [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	43,2	50,5	0,69	565	1924	2890

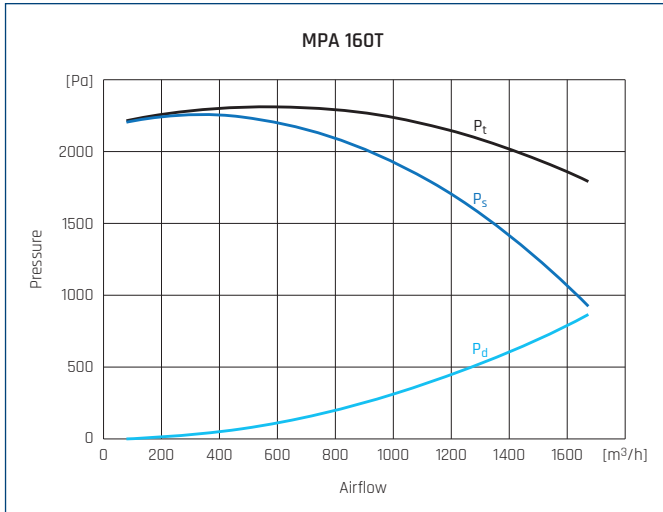


MPA 80T									
MC	EC	VSD	SR	η [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	49,8	56,7	0,82	725	2058	2913

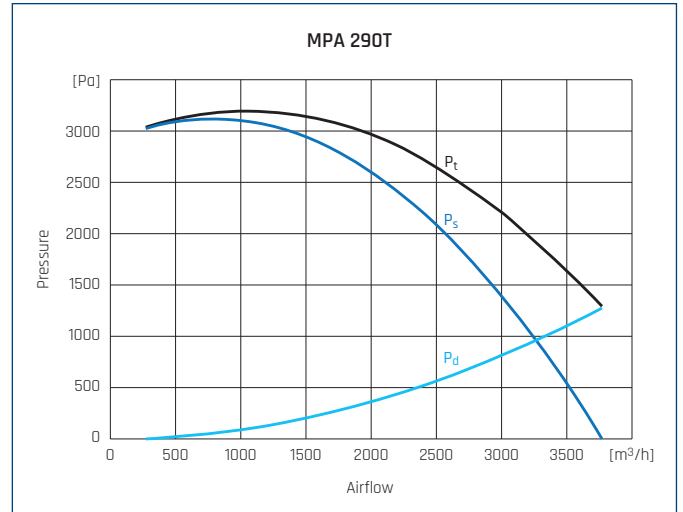


MPA 90S									
MC	EC	VSD	SR	η [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	49,4	56,0	0,92	775	2139	2900

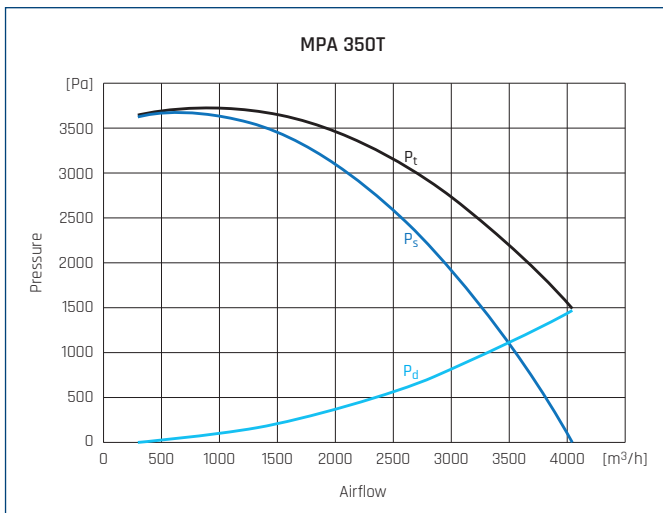
PERFORMANCE CURVES



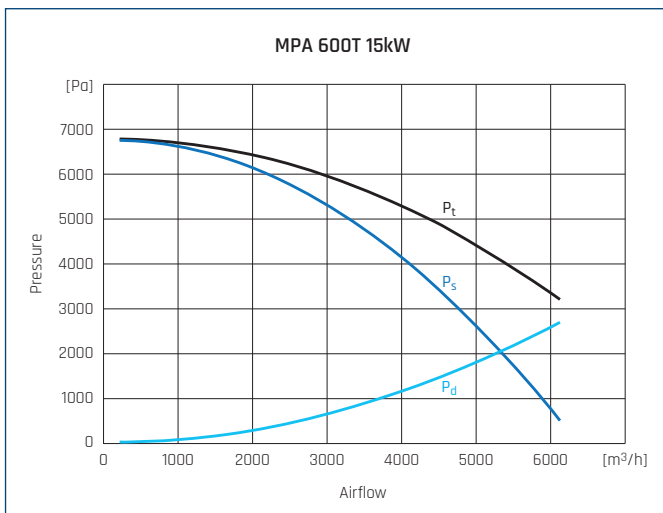
MPA 160T									
MC	EC	VSD	SR	η [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	49,9	55,2	1,43	1183	2186	2951



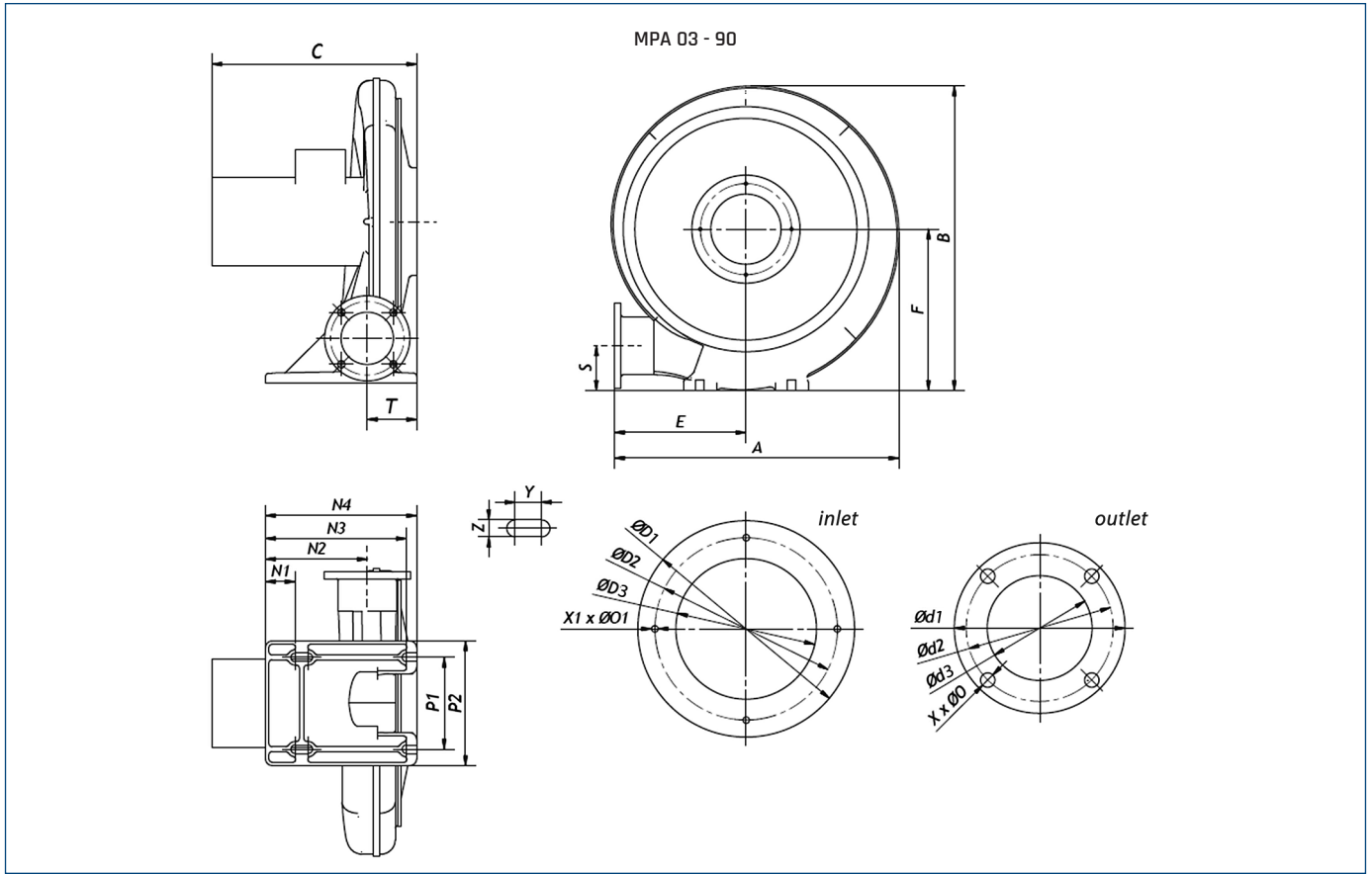
MPA 290T									
MC	EC	VSD	SR	η [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	56,8	60,2	2,88	1997	2975	2934



MPA 350T									
MC	EC	VSD	SR	η [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	50,5	53,0	4,12	2234	3350	2870



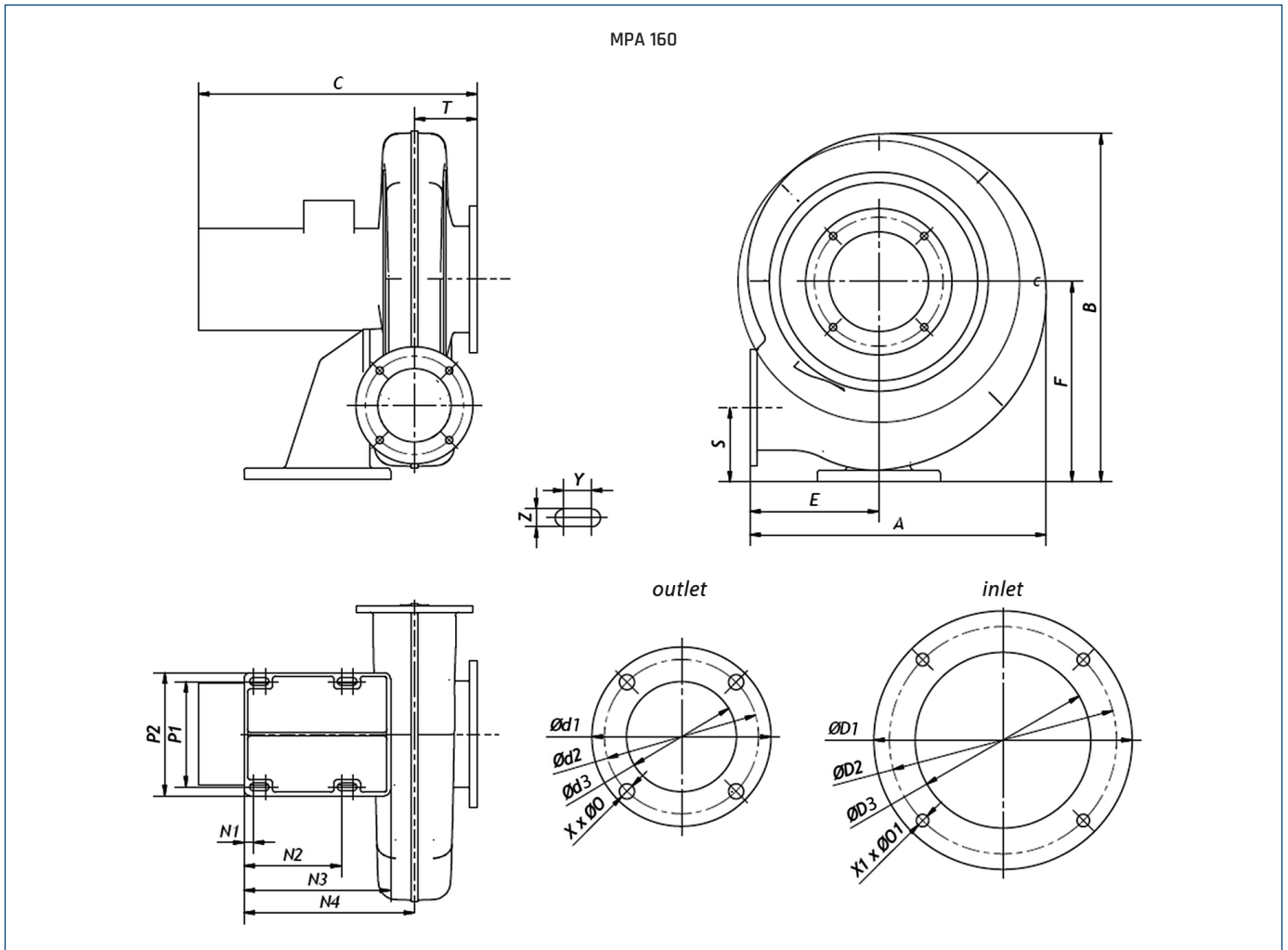
DIMENSIONS [mm]



Type	A	B	C*	ØD1	ØD2	ØD3	Ød1	Ød2	Ød3	E	F	N1	N2	N3	N4	Ø0	ØO1	P1	P2	S	T	X	X1	Y	Z
MPA 03	327	333	245	165	139	100	115	95	65	160	174	30	108	159	180	10	M6	80	120	59	64	4	4	19	12
MPA 25	327	333	245	165	139	100	115	95	65	160	174	30	108	159	180	10	M6	80	120	59	64	4	4	19	12
MPA 40	433	464	295	165	139	107	130	112	80	200	246	45	155	215	231	11	M6	140	190	68	76	4	4	20	13
MPA 50	433	464	312	165	139	107	130	112	80	200	246	45	155	215	231	11	M8	140	190	68	76	4	4	20	13
MPA 60	451	515	317	200	182	162	165	139	100	210	290	47	156	215	240	9,5	M8	140	200	91	58	4	4	20	13
MPA 70	451	515	328	200	182	162	165	139	100	210	290	47	156	215	240	9,5	M8	140	200	91	58	4	4	20	13
MPA 80	453	486	341	200	182	138	160	135	100	210	261	45	155	225	240	11	M8	140	190	82	85	4	4	20	13
MPA 90	453	486	341	200	182	138	160	135	100	210	261	45	155	225	240	11	M8	140	190	82	85	4	4	20	13

* dimension C dependent on the used motor

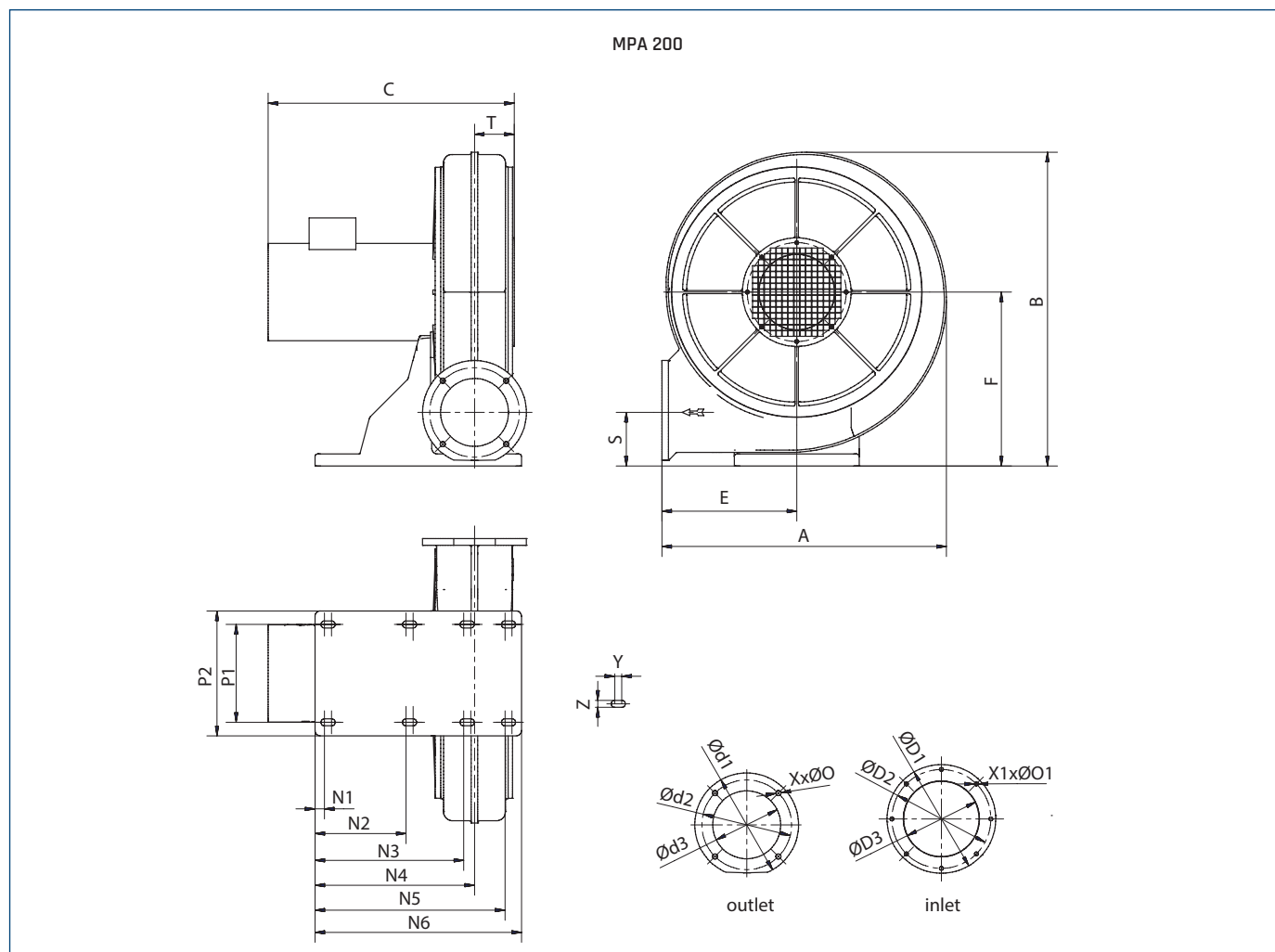
DIMENSIONS [mm]



Type	A	B	C*	ØD1	ØD2	ØD3	Ød1	Ød2	Ød3	E	F	N1	N2	N3	N4	ØØ	ØØ1	P1	P2	S	T	X	X1	Y	Z
MPA 160	506	595	476	250	220	170	200	168	125	220	342	15	166	250	291	12	12	180	210	127	107	4	4	20	13

* dimension C dependent on the used motor

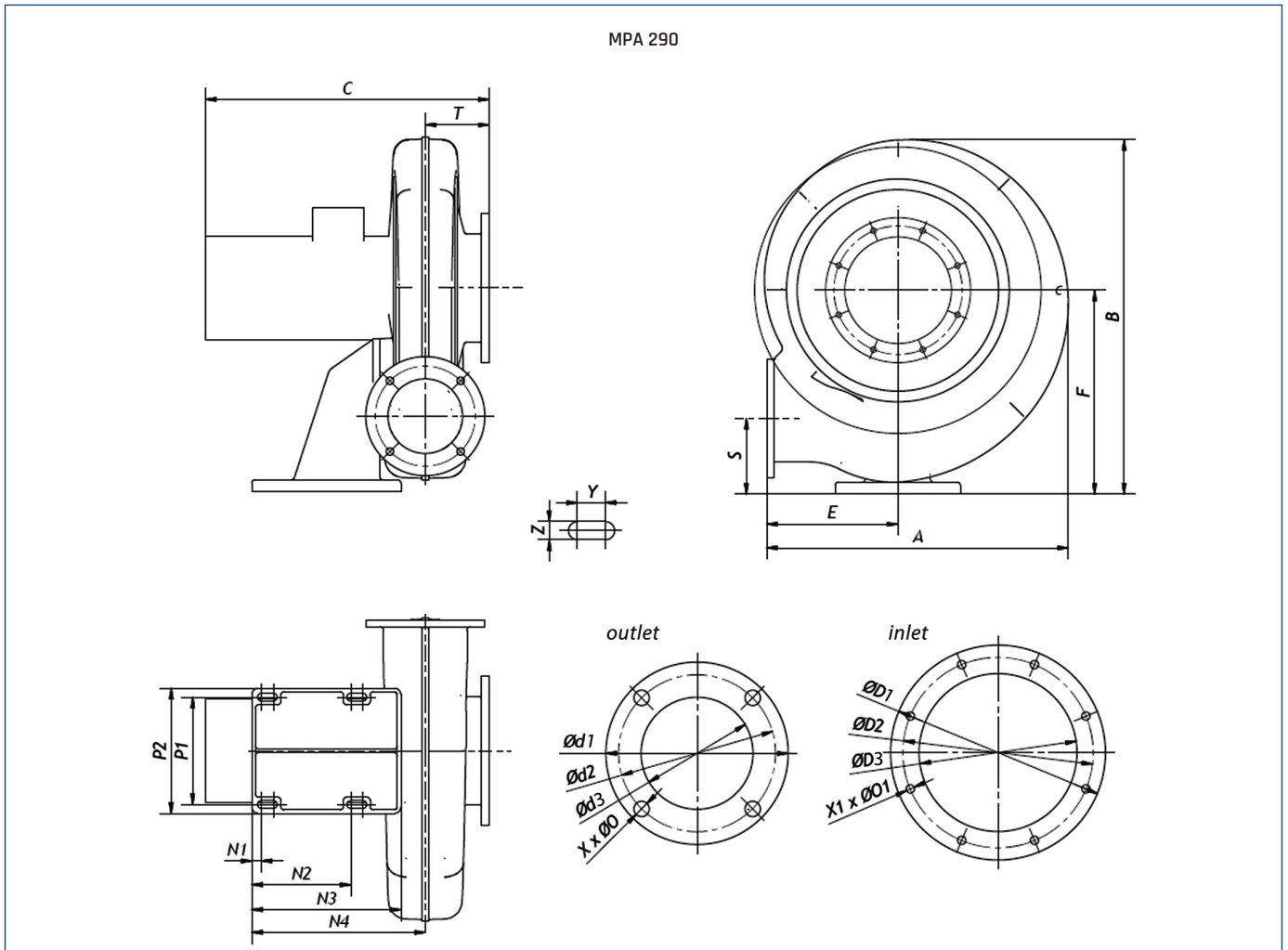
DIMENSIONS [mm]



Type	A	B	C*	ØD1	ØD2	ØD3	Ød1	Ød2	Ød3	E	F	N1	N2	N3	N4	N5	N6	Ø0	Ø01	P1	P2	S	T	X	X1	Y	Z
MPA 200	523	577	453	200	182	140	191	165	125	248	320	17,5	167,5	273,5	293,5	349,5	380	9,5	M6	180	230	98	73	4	8	13	13

* dimension C dependent on the used motor

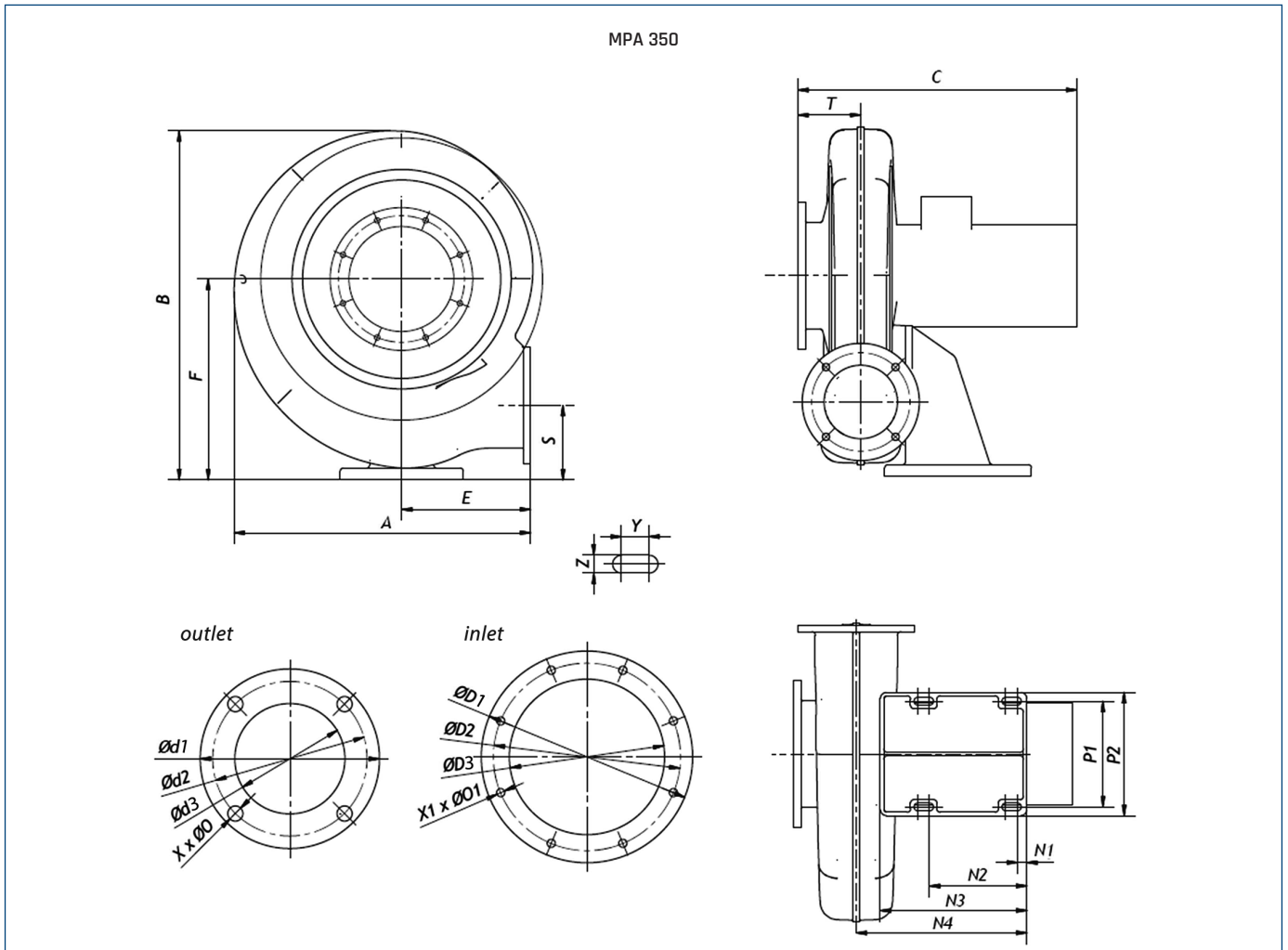
DIMENSIONS [mm]



Type	A	B	C*	$\varnothing D1$	$\varnothing D2$	$\varnothing D3$	$\varnothing d1$	$\varnothing d2$	$\varnothing d3$	E	F	N1	N2	N3	N4	$\varnothing 0$	$\varnothing 01$	P1	P2	S	T	X	X1	Y	Z
MPA 290	617	708	523	245	217	180	260	230	179	280	410	16	166	250	295	13	9,5	180	215	170	133	4	8	20	13

* dimension C dependent on the used motor

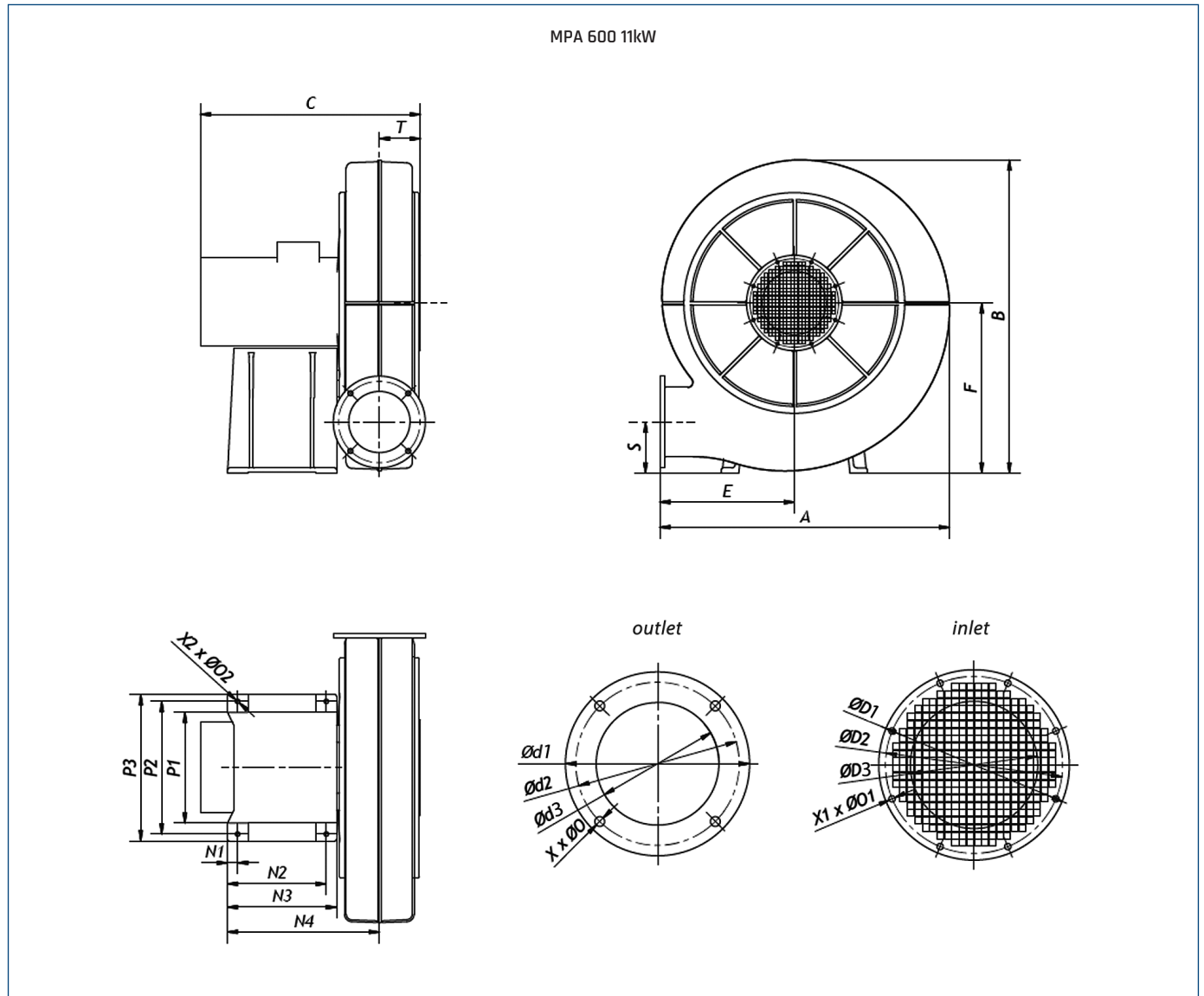
DIMENSIONS [mm]



Type	A	B	C*	$\varnothing D1$	$\varnothing D2$	$\varnothing D3$	$\varnothing d1$	$\varnothing d2$	$\varnothing d3$	E	F	N1	N2	N3	N4	$\varnothing 0$	$\varnothing 01$	P1	P2	S	T	X	X1	Y	Z
MPA 350	617	708	555	245	217	180	260	230	170	280	410	16	166	250	295	13	9,5	180	215	170	133	4	8	20	13

* dimension C dependent on the used motor

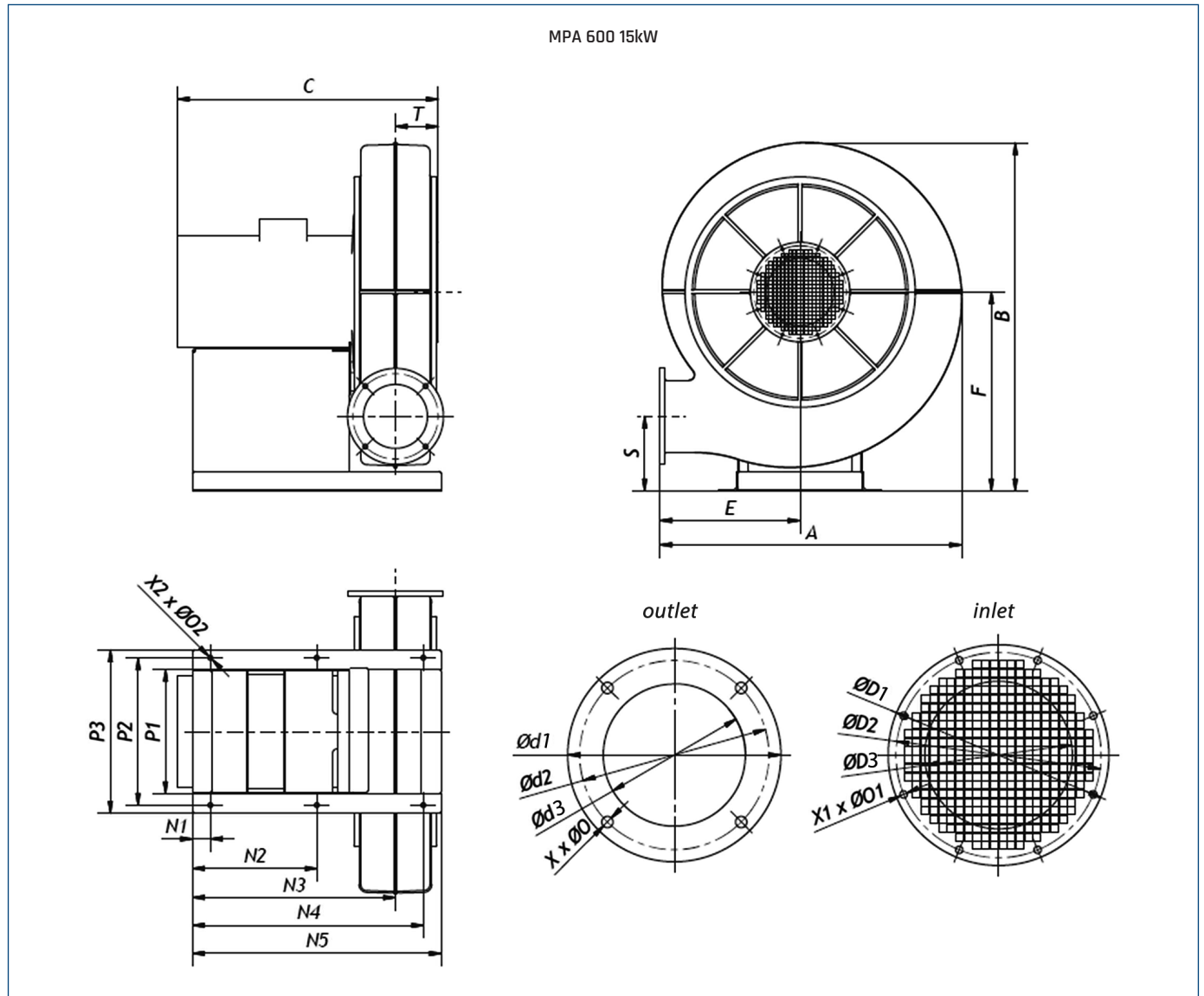
DIMENSIONS [mm]



Type	A	B	C*	$\varnothing D1$	$\varnothing D2$	$\varnothing D3$	$\varnothing d1$	$\varnothing d2$	$\varnothing d3$	E	F	N1	N2	N3	N4	$\varnothing 0$	$\varnothing 01$	$\varnothing 02$	P1	P2	P3	S	T	X	X1	X2
MPA 600 11kW	850	920	678	280	260	212	270	240	180	395	500	30	290	320	476	14	9	13	326	390	430	150	117	4	8	4

* dimension C dependent on the used motor

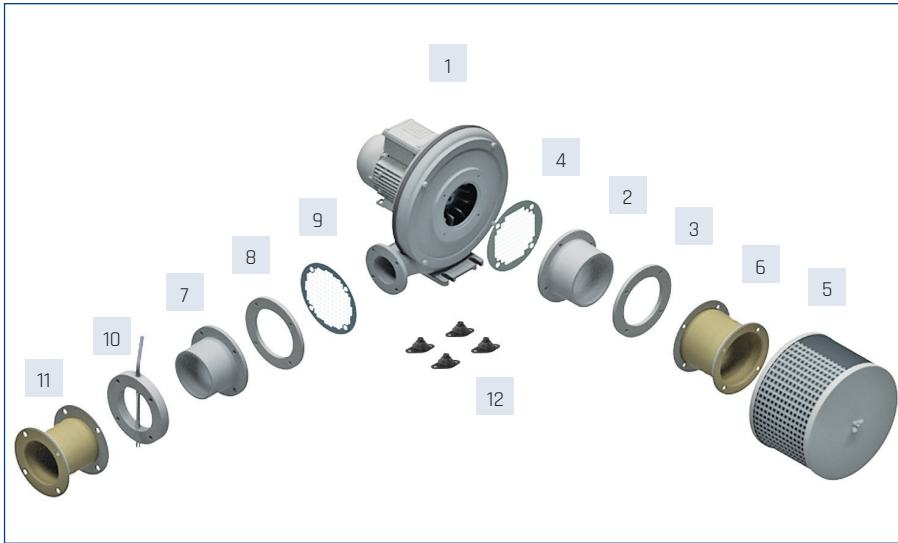
DIMENSIONS [mm]



Type	A	B	C*	ØD1	ØD2	ØD3	Ød1	Ød2	Ød3	E	F	N1	N2	N3	N4	N5	Ø0	Ø01	Ø02	P1	P2	P3	S	T	X	X1	X2
MPA 600 15kW	850	914	734	280	260	212	270	240	180	395	560	50	350	571	650	700	14	9	14	350	415	460	210	121	4	8	6

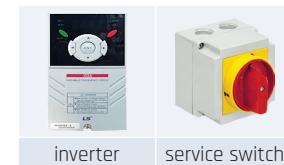
* dimension C dependent on the used motor

ACCESSORY ASSEMBLY



ELECTRICAL ACCESSORIES

Type	inverter	service switch
MPA 03S	-	91040907-01
MPA 03T	Inverter 0,4kW	91040908-01
MPA 25S	-	91040907-01
MPA 25T	Inverter 0,4kW	91040908-01
MPA 40S	-	91040907-01
MPA 40T	Inverter 0,4kW	91040908-01
MPA 50S	-	91040907-01
MPA 50T	Inverter 0,75kW	91040908-01
MPA 60S	-	91040907-01
MPA 60T	Inverter 0,75kW	91040908-01
MPA 70S	-	91040907-01
MPA 70T	Inverter 0,75kW	91040908-01
MPA 80S	-	91040907-01
MPA 80T	Inverter 0,75kW	91040908-01
MPA 90S	-	91040907-01
MPA 90T	Inverter 1,5kW	91040908-01
MPA 160T	Inverter 2,2kW	91040908-01
MPA 200T	Inverter 2,2kW	91040908-01
MPA 290T	Inverter 4kW	91040908-01
MPA 350T	Inverter 5,5kW	91040908-01
MPA 600T 11kW	Inverter 11kW	91040908
MPA 600T 15kW	Inverter 15kW	91040908



inverter

service switch

Inlet					
1	2	3	4	5	6
Type	suction connection	welding collar	protective mesh	filter	anti-vibration connector
MPA 03	45510440	45515440	45510500	25511485-20	42519930
MPA 25	45510440	45515440	45510500	25511485-20	42519930
MPA 40	46515040	45515460	26510223	25511485-12	42519930
MPA 50	46515040	45515460	26510223	25511485-12	42519930
MPA 60	46515050	45515510	45510520	25511485-14	42519932
MPA 70	46515050	45515510	45510520	25511485-14	42519932
MPA 80	46515050	45515510	45510520	25511485-14	42519932
MPA 90	46515050	45515510	45510520	25511485-14	42519932
MPA 160	25510480	45515525	45510530	25511485-16	25511577
MPA 200	45510475	45515510	25511508	25511486-14	42519932
MPA 290	25510590	45515595	45510540	25511485-18	25511559
MPA 350	25510590	45515595	45510540	25511485-18	25511559
MPA 600	46515051	45516586	-	-	42519934

Outlet						
1	7	8	9	10	11	12
Type	outlet connection	welding collar	protective mesh	throttle	anti-vibration connector	anti-vibration mount
MPA 03	45510450	45515450	45510550	25511302	25511525	26040960
MPA 25	45510450	45515450	45510550	25511302	25511525	26040960
MPA 40	45510465	45515465	45510560	25511316	25511549	26040960
MPA 50	45510465	45515465	45510560	25511316	25511549	26040960
MPA 60	46515040-01	45515500	26510224	25511314	42519937	26040960
MPA 70	46515040-01	45515500	26510224	25511314	42519937	26040960
MPA 80	45510470	45515470	45510570	45510415	42519936	26040960
MPA 90	45510470	45515470	45510570	45510415	42519936	26040960
MPA 160	25510485	45515520	45510580	25511321	25511553	26040965
MPA 200	46515060-10	45516580	25511503	25511347	42519940	26040965
MPA 290	25510595	45515590	45510590	25511325	25511557	26040965
MPA 350	25510595	45515590	45510590	25511325	25511557	26040970
MPA 600	46515069	45516585	-	-	42519938	26040970

