

## APPLICATION

Fans designed for transporting non-aggressive and non-explosive gases.

Typical applications:

- pneumatic transport,
- blowing in drying systems (e.g. graphic machines, processing of plastics),
- air blowing systems in combustion / thermal treatment systems (e.g. melting furnaces),
- for air transport in ventilation systems and technological lines,
- dust content in the transported medium up to 1 g/m<sup>3</sup>.

## CONSTRUCTION

- low-pressure, direct-driven radial fan,
- impeller welded from black steel sheet, backward curved blades welded from carbon steel sheet, painted with primer paint, balanced according to ISO1940-1,
- housings welded from carbon steel sheet,
- fans are normally painted in blue RAL5010, corrosivity class C3,
- transport of a medium in the temperature range -20°C to +80°C,
- standard figure LG270.

## MOTOR

- asynchronous 3-phase 230/400V, 50Hz (power up to 3,0kW),
- asynchronous 3-phase 400/690V, 50Hz (power from 4,0kW),
- IE3 efficiency class,
- degree of protection IP55,
- insulation class F,
- adapted to frequency regulation,
- motor ambient temperature from -20°C to +40°C.

## ACCESSORIES

- anti-vibration inlet and outlet connections,
- support frame,
- inlet and outlet covers,
- connectors, reducers, adapters,
- vibro-isolators.

## SPECIAL EXECUTIONS

- any LG or RD figure,
- painting in a color other than the standard one according to the RAL palette,
- painting in a higher corrosivity class,
- galvanized housing and impeller,
- housing and impeller made of stainless steel 1,4301,
- housing and impeller made of stainless steel 1,4404,
- for transporting a medium with a temperature below -20°C and above +80°C,
- for work in potentially explosive atmospheres in zone 1 or 21 or 2 or 22,
- with clutch drive,
- with belt drive,
- with thermal and acoustic insulation,
- with a motor for a voltage or frequency other than the standard,
- with a motor with a different IP protection class,
- with a motor with a different insulation class,
- with a motor equipped with sensors or additional cooling,
- motor ambient temperature below -20°C and above +40°C.



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TECHNICAL CHARACTERISTICS

Type	airflow max	pressure max	speed	voltage	maximum absorbed current	motor power	sound pressure level*	weight	article number
	[m³/h]	[Pa]	[r.p.m.]	[V]	[A]	[kW]	[dB(A)]	[kg]	
<b>2-POLE MOTORS</b>									
BL-2-315-075T	3170	1330	2985	230/400	1,7	0,75	65	42	428200060
BL-2-355-150T	4530	1690	2985	230/400	3	1,5	69	62	428000220
BL-2-400-300T	6480	2150	2985	230/400	5,8	3,0	73	85	428000380
BL-2-450-550T	9250	2720	2985	400/690	10	5,5	76	137	438000540
BL-2-500-750T	11790	3360	2985	400/690	13,3	7,5	79	187	438000700
<b>4-POLE MOTORS</b>									
BL-4-315-055T	1590	335	1495	230/400	1,6	0,55	50	40	48001500
BL-4-355-055T	2270	425	1495	230/400	1,6	0,55	54	53	48001660
BL-4-400-110T	3240	540	1495	230/400	2,5	1,1	57	80	48001820
BL-4-450-110T	4630	680	1495	230/400	2,5	1,1	61	100	48001980
BL-4-500-220T	5900	840	1495	230/400	4,6	2,2	64	149	438002140
BL-4-560-220T	8920	1050	1495	230/400	4,6	2,2	68	175	438002300
BL-4-630-300T	12720	1330	1495	230/400	8,1	3	71	215	438002460
BL-4-710-550T	18140	1690	1495	400/690	10,4	5,5	75	305	438002620
BL-4-800-1100T	26020	2140	1495	400/690	20,9	11	79	460	438002780
BL-4-900-1850T	36960	2710	1495	400/690	33,9	18,5	82	640	438002940
<b>6-POLE MOTORS</b>									
BL-6-710-220T	12050	740	990	230/400	5,0	2,2	66	276	428004700
BL-6-800-300T	17290	940	965	400/690	6,2	3	70	410	428004860
BL-6-900-550T	24550	1190	990	400/690	11,1	5,5	74	520	428005020
BL-6-1000-1100T	33760	1480	990	400/690	21,4	11	77	710	438005180
BL-6-1120-1850T	47440	1850	990	400/690	36,0	18,5	80	970	438005340
BL-6-1250-3000T	65640	2310	990	400/690	56,0	30	83	1220	438005500

\* the sound pressure level at a distance of 3 m from the fan in 2/3 of the maximum capacity

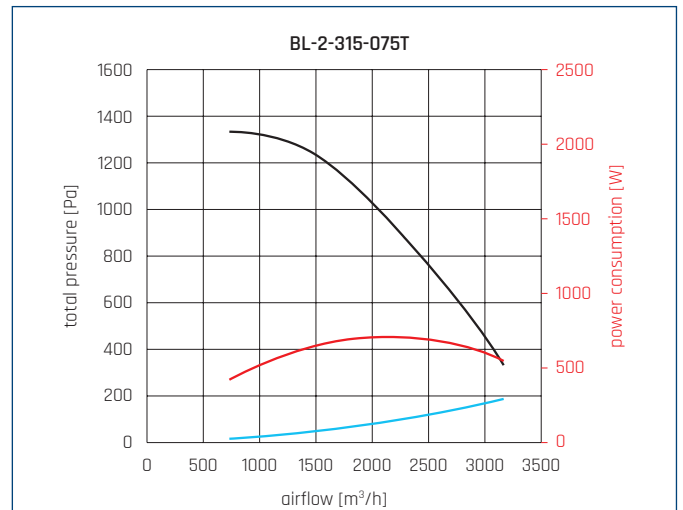
PERFORMANCE CURVES

- $p_s$  - static pressure
- $p_d$  - dynamic pressure
- Absorbed power

ErP

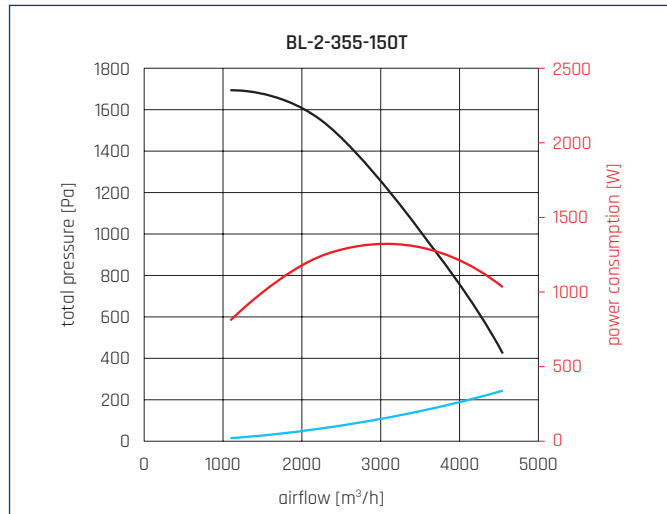
- MC Measurement category
- EC Efficiency category
- VSD Speed control: supplied with the fan
- SR Specific ratio
- $\eta$  [%] Efficiency
- N Efficiency grade
- [kW] Absorbed power
- [m³/h] Airflow
- [Pa] Static pressure/total pressure
- [RPM] Speed

On the basis of the Commission Regulation (EU) No. 327/2011 of March 30, 2011.

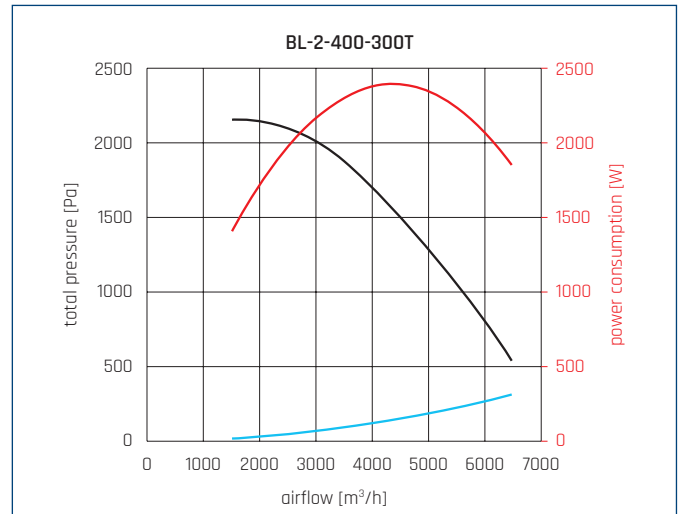


MC	EC	VSD	SR	$\eta$ [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	63,5	74,6	0,87	1997	1021	2985

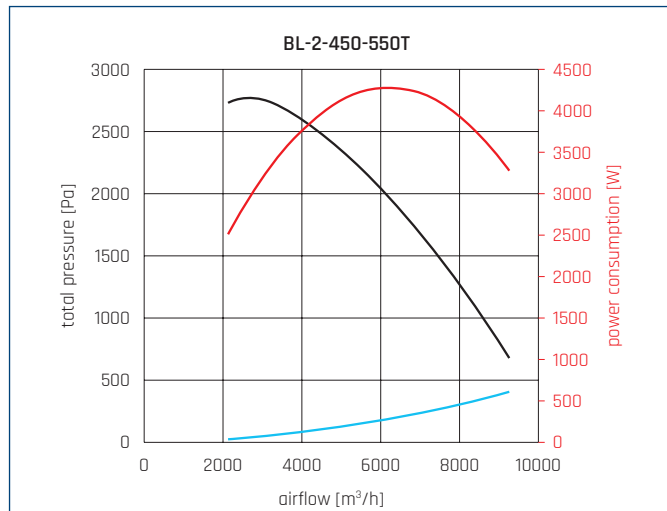
PERFORMANCE CURVES



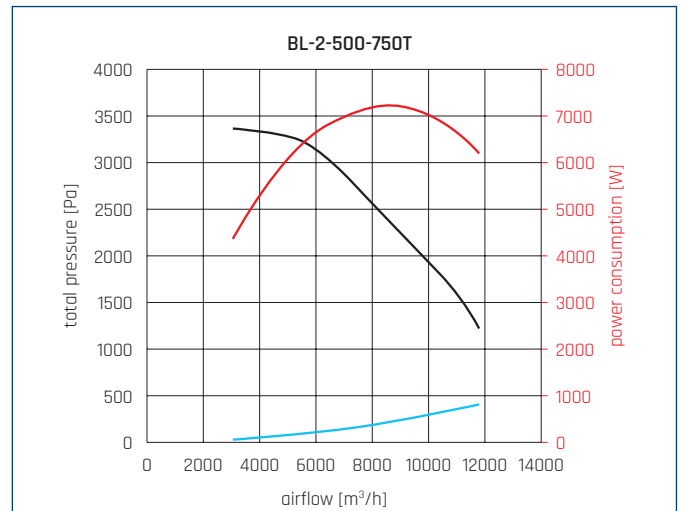
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	65,6	74,1	1,54	2848	1301	2985



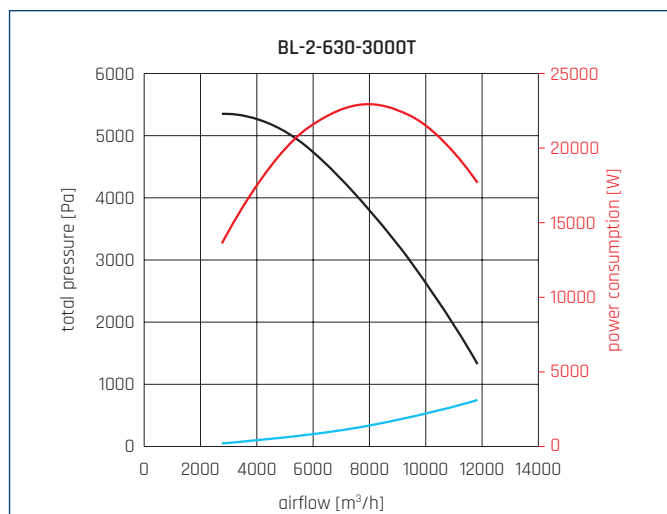
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	68,4	74,4	2,7	4089	1647	2985



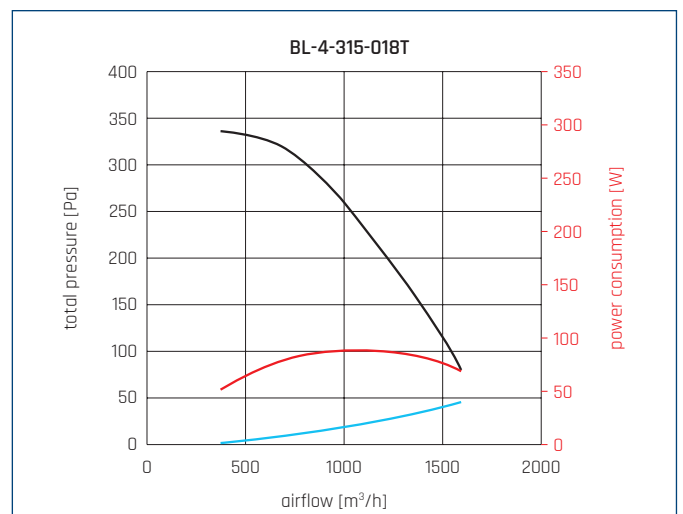
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	69,8	73,2	4,8	5910	2055	2985



MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	70,9	71,9	8	7896	2598	2985

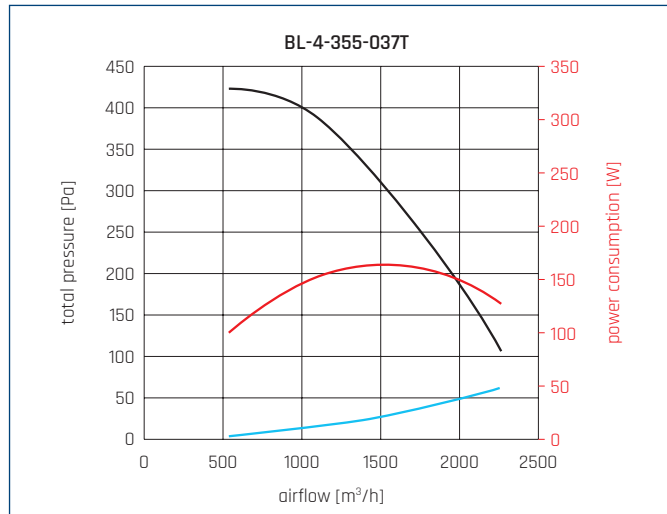


MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	74	73,1	24,3	16276	4014	2985

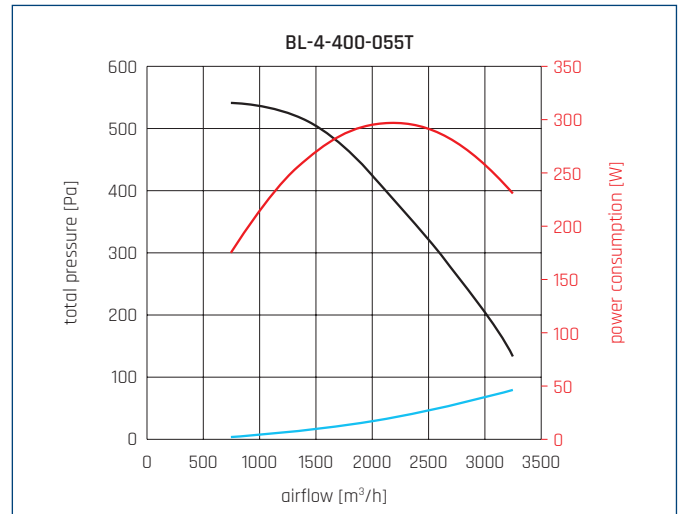


MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	56,5	76,7	0,12	993	255	1495

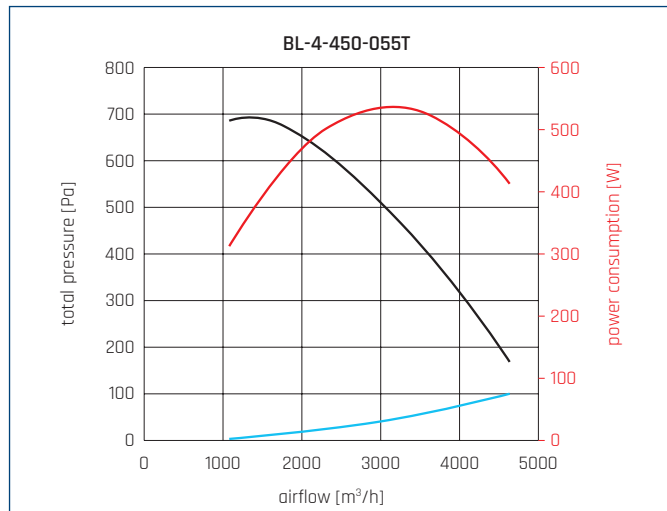
PERFORMANCE CURVES



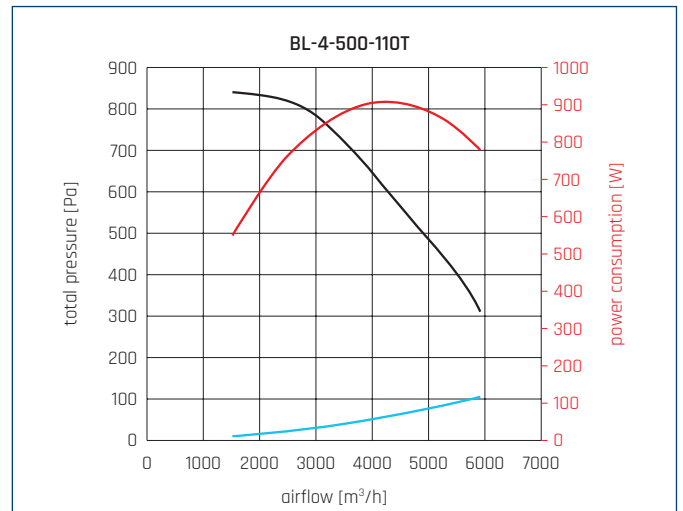
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	56,7	74,1	0,22	1432	322	1495



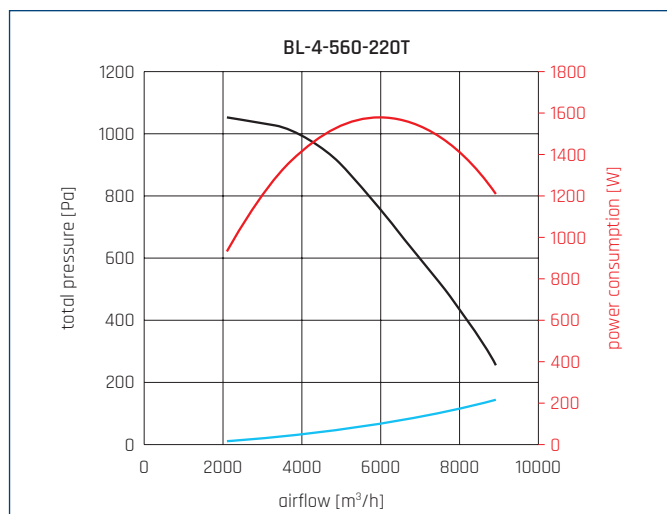
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	65,5	80,9	0,35	2041	410	1490



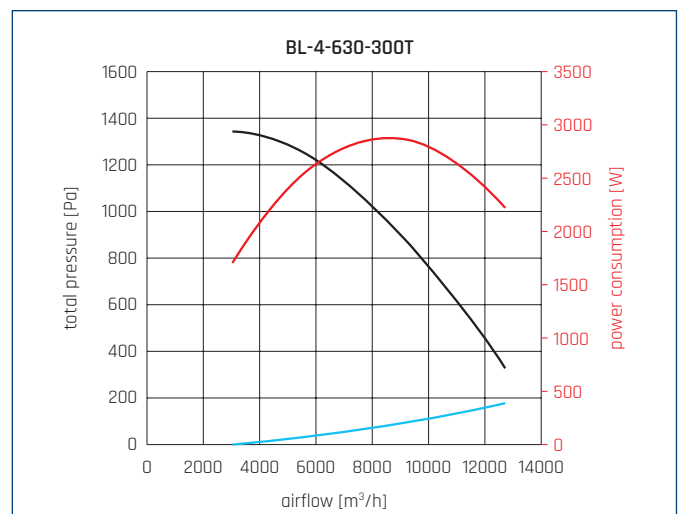
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	65,7	78,3	0,63	2895	521	1495



MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	68,1	78,5	1	4016	637	1490

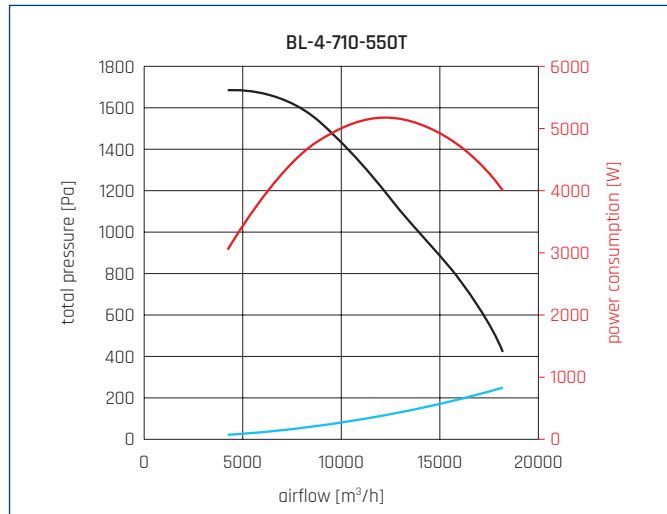


MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	68,3	76,1	1,82	5685	793	1490

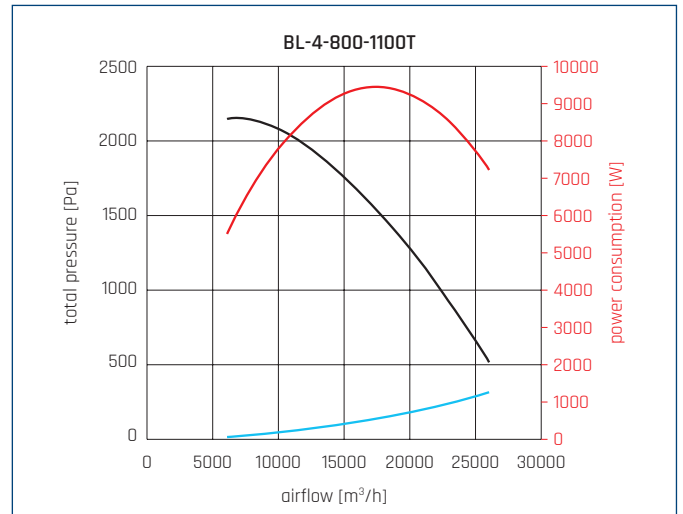


MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	69,3	74,4	3,24	8004	1015	1490

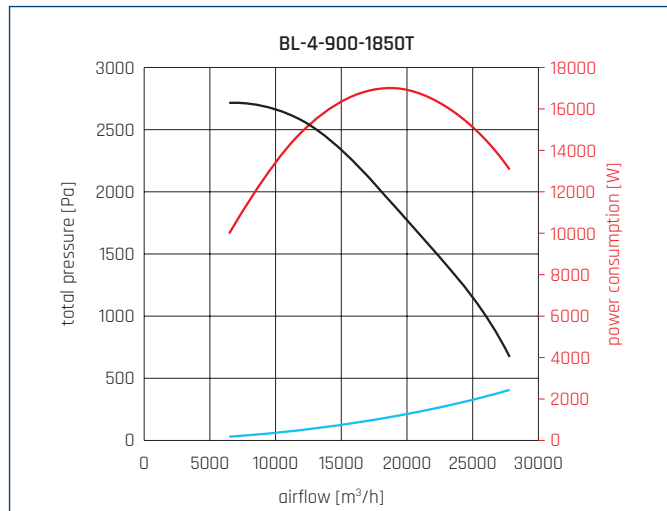
PERFORMANCE CURVES



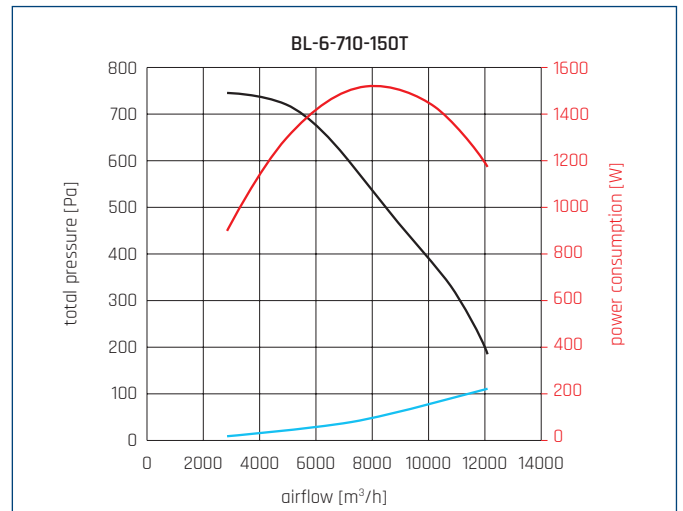
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	71,1	73,6	5,77	11543	1280	1490



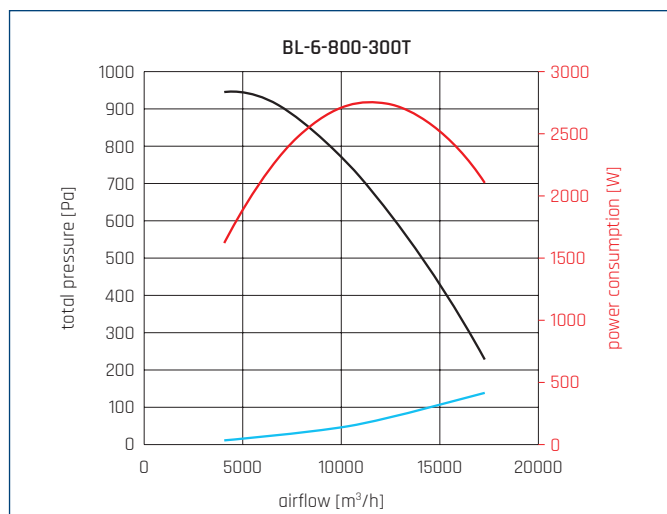
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	73,2	81,2	10,17	16513	1625	1495



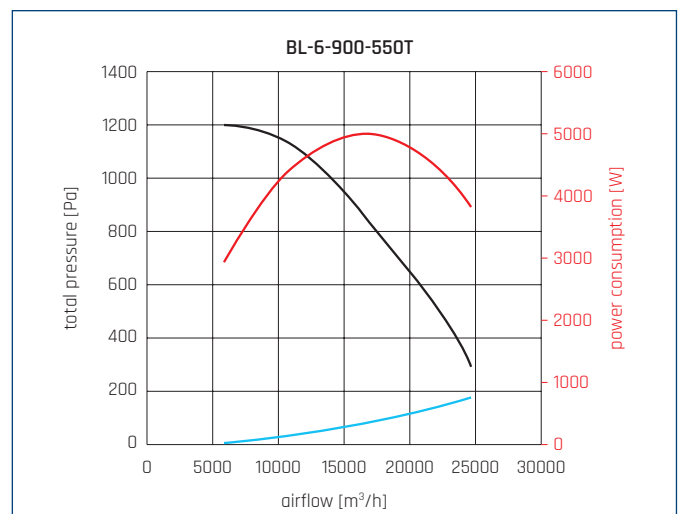
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	73,7	81	18,3	23686	2041	1490



MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	67,2	75	1,8	7755	559	990

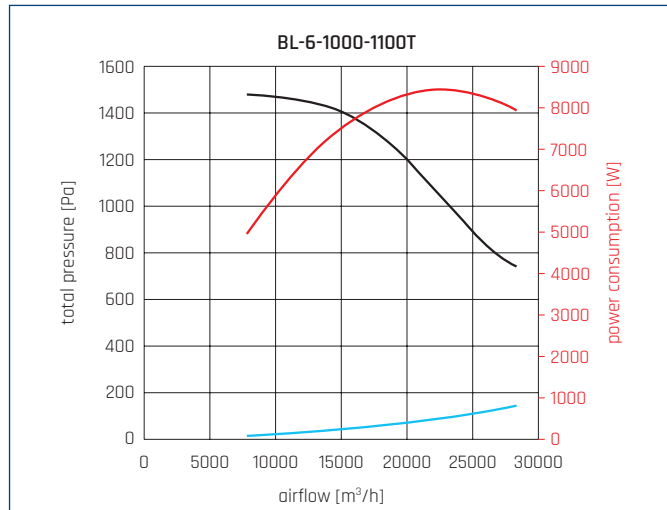


MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	70,9	76,3	3,1	11094	710	990

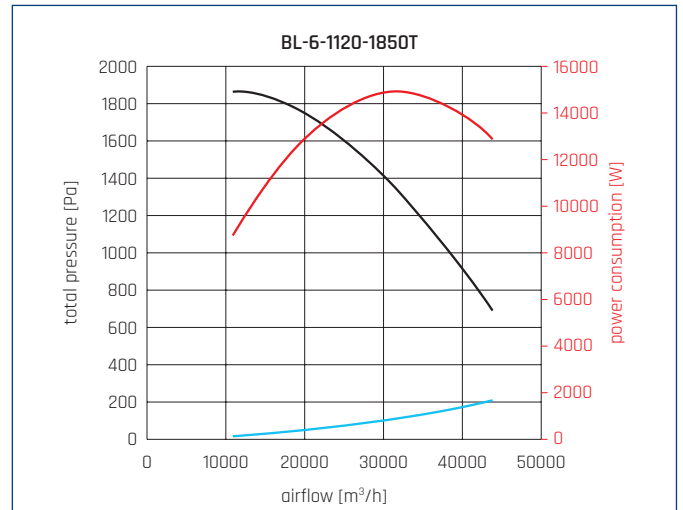


MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	71	73,6	5,6	15912	892	990

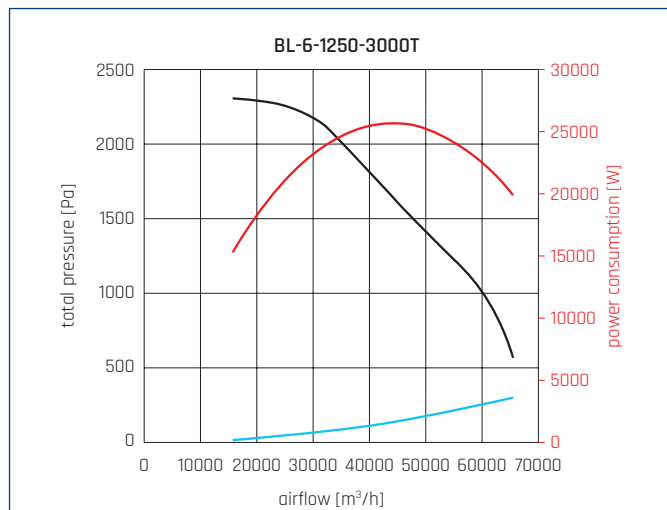
PERFORMANCE CURVES



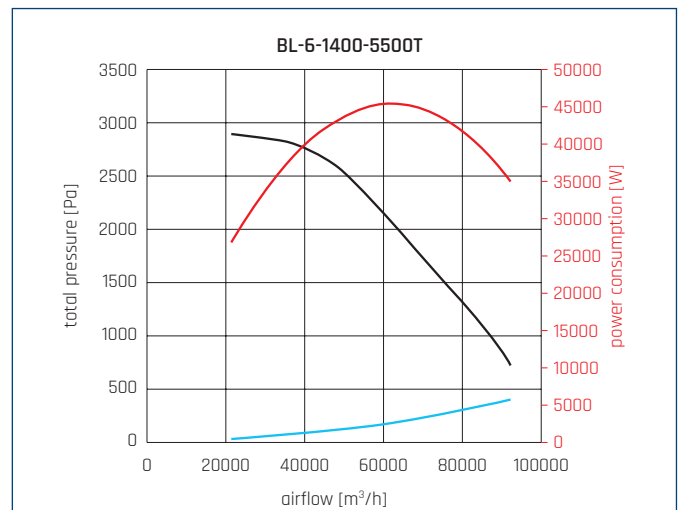
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	72,7	73,1	9,25	21747	1105	990



MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	73,8	73,4	16,1	30106	1406	990

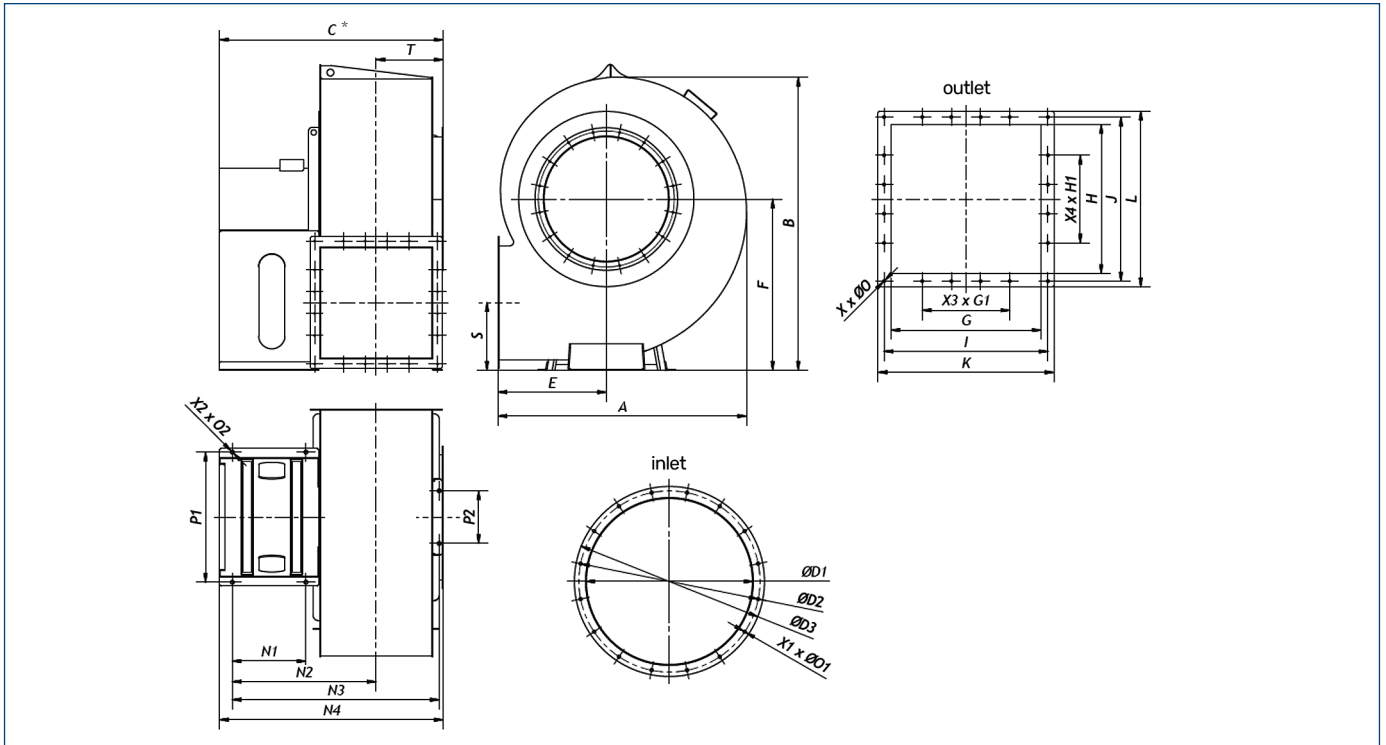


MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	74,7	73,7	27,6	41697	1758	990



MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	76,1	74,4	47,9	58363	2212	990

DIMENSIONS [mm]



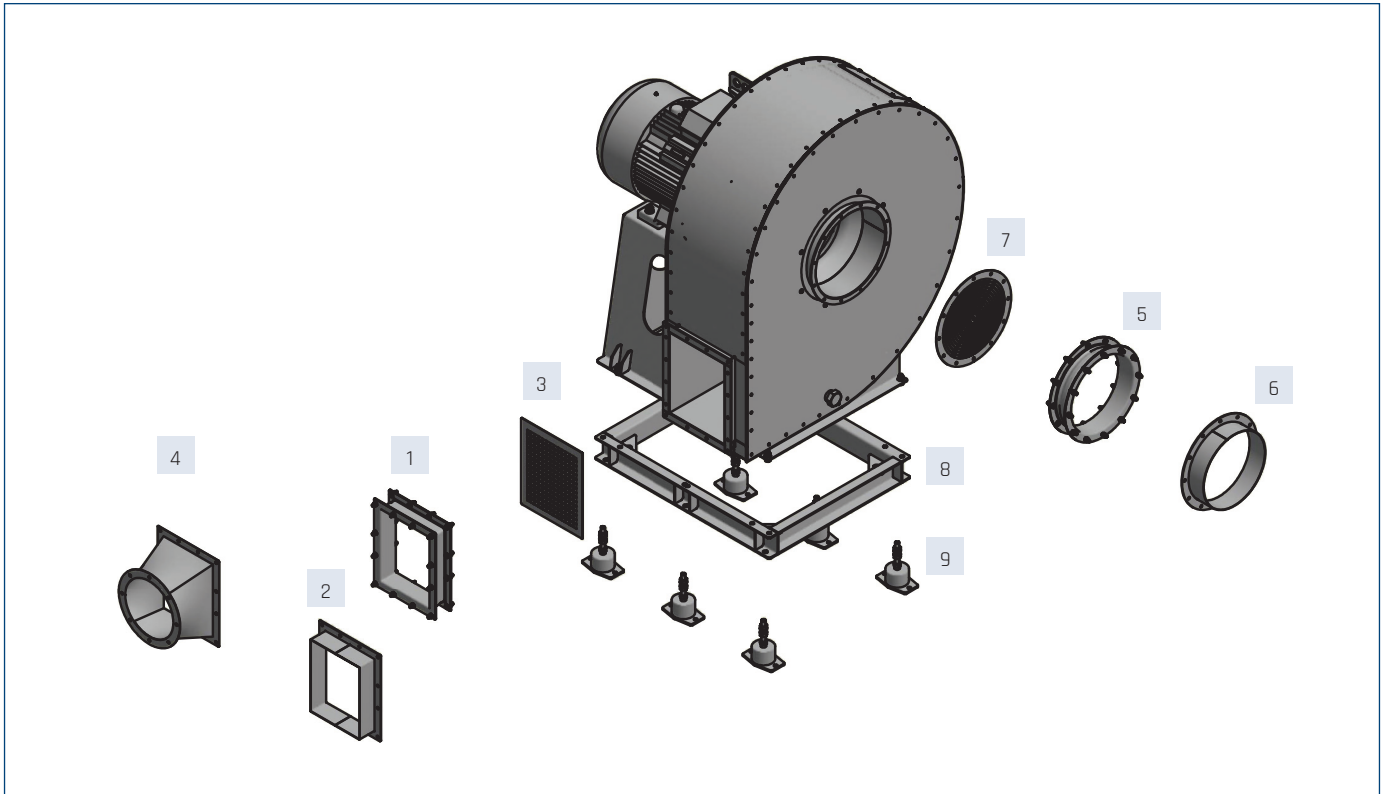
Type	A	B	C*	E	F	S	T	P1	P2	N1	N2	N3	N4	X2 x Ø2
315	515	623	370	230	375	211	165	350	150	180	137	472	502	6xØ11,5
355	573	702	450	255	425	236	178	400	180	180	165	513	558	6xØ14
400	641	774	470	285	465	264	194	400	180	220	176	579	620	6xØ14
450	723	864	550	319	512	296	222	460	180	240	197	642	689	6xØ14
500	802	961	550	348	566	333	244	500	250	320	226	772	831	6xØ17
560	900	1087	720	392	645	375	266	500	250	370	249	863	925	6xØ17
630	1011	1221	915	441	725	422	291	600	250	420	285	974	1046	6xØ17
710	1123	1325	1000	490	775	469	316	600	250	420	310	1024	1096	6xØ17
800	1256	1511	850	548	895	525	346	670	250	380	350	1054	1136	6xØ17
900	1418	1676	900	618	980	591	382	743	300	420	401	1181	1278	6xØ22
1000	1593	1912	1000	694	1130	666	423	743	300	420	441	1261	1359	6xØ22
1120	1792	2129	1100	781	1250	750	468	743	300	420	486	1351	1449	6xØ22
1250	2016	2378	1240	879	1390	844	518	900	300	420	536	1451	1549	6xØ22
1400	2271	2627	1400	1020	1540	938	568	950	400	450	586	1550	1718	6xØ22
1600	2542	2928	1600	1142	1710	1050	610	1150	400	450	626	1650	1860	6xØ22

Type	L*	J	H	X4 x H1	K	I	G	X3 x G1	X x Ø0	D1	D3	D2	X1 x ØØ1	weight without motor
315	286	260	224	-	286	260	224	-	8xØ10	253	323	292	8xØ11,5	32
355	312	286	250	-	312	286	252	-	8xØ10	283	363	332	8xØ11,5	45
400	362	326	280	-	362	326	282	-	10xØ12	318	398	366	8xØ11,5	60
450	397	361	315	1x125	397	361	317	1x125	12xØ12	358	438	405	8xØ11,5	80
500	437	401	355	1x125	437	401	357	1x125	12xØ12	404	484	448	12xØ11,5	120
560	482	446	400	1x125	482	446	402	1x125	12xØ12	454	534	497	12xØ11,5	145
630	532	496	450	3x125	532	496	452	3x125	20xØ12	504	584	551	12xØ11,5	180
710	582	546	500	3x125	582	546	502	3x125	20xØ12	564	664	629	16xØ14	240
800	642	606	560	3x125	642	606	562	3x125	20xØ12	634	734	698	16xØ14	345
900	752	702	630	3x125	752	702	632	3x125	20xØ12	714	814	775	16xØ14	450
1000	832	782	710	5x125	832	782	712	5x125	28xØ12	804	904	861	24xØ14	560
1120	922	872	800	5x125	922	872	802	5x125	28xØ12	904	1004	958	24xØ14	680
1250	1022	972	900	5x125	1022	972	902	5x125	28xØ12	1005	1105	1067	24xØ14	820
1400	1122	1072	1000	7x125	1122	1072	1000	7x125	36xØ12	1125	1245	1200	32xØ18	1100
1600	1242	1192	1122	7x125	1242	1192	1122	7x125	36xØ12	1255	1375	1337	32xØ18	1400

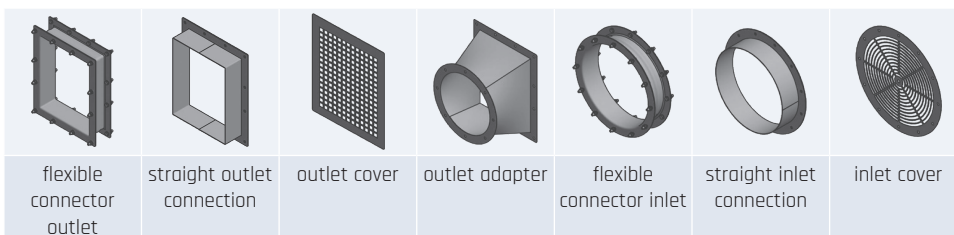
\* - dimensions depend on the type of motor

\*\* - some dimensions may vary depending on fan FIGURES.

ACCESSORY ASSEMBLY



Fan	Outlet				Inlet			8
	1	2	3	4	5	6	7	
	Flexible connector outlet	Straight connection	Outlet cover	Adapter	Flexible connector inlet	Straight connection	Inlet cover	
BL315	40542100	40542500	40542500	40542700	40545130	40545530	40545530	40546100
BL355	40542110	40542510	40542510	40542710	40545140	40545540	40545540	40546110
BL400	40542120	40542520	40542520	40542720	40545150	40545550	40545550	40546120
BL450	40542130	40542530	40542530	40542730	40545160	40545560	40545560	40546130
BL500	40542140	40542540	40542540	40542740	40545170	40545570	40545570	40546140
BL560	40542150	40542550	40542550	40542750	40545180	40545580	40545580	40546150
BL630	40542160	40542560	40542560	40542760	40545190	40545590	40545590	40546160
BL710	40542170	40542570	40542570	40542770	40545200	40545600	40545600	40546170
BL800	40542180	40542580	40542580	40542780	40545210	40545610	40545610	40546180
BL900	40542190	40542590	40542590	40542790	40545220	40545620	40545620	40546190
BL1000	40542200	40542600	40542600	40542800	40545230	40545630	40545630	40546200
BL1120	40542210	40542610	40542610	40542810	40545240	40545640	40545640	40546210
BL1250	40542220	40542620	40542620	40542820	40545250	40545650	40545650	40546220
BL1400	40542230	40542630	40542630	40542830	40545260	40545660	40545660	40546230
BL1600	40542240	40542640	40542640	40542840	40545270	40545670	40545670	40546240





**ELECTRICAL ACCESSORIES**

Type	inverter	service switch
BL-2-315-075T	L 0,75 kW	R-S 3-F + SP, 10A
BL-2-355-150T	L 1,5 kW	R-S 3-F + SP, 10A
BL-2-400-300T	L 4,0 kW	R-S 3-F + SP, 10A
BL-2-450-550T	L 5,5 kW	R-S 3-F + SP, 10A
BL-2-500-750T	L 7,5 kW	R-S 3-F + SP, 16A
BL-4-315-055T	L 0,75 kW	R-S 3-F + SP, 10A
BL-4-355-055T	L 0,75 kW	R-S 3-F + SP, 10A
BL-4-400-110T	L 1,5 kW	R-S 3-F + SP, 10A
BL-4-450-110T	L 1,5 kW	R-S 3-F + SP, 10A
BL-4-500-220T	L 2,2 kW	R-S 3-F + SP, 10A
BL-4-560-220T	L 2,2 kW	R-S 3-F + SP, 10A
BL-4-630-300T	L 4,0 kW	R-S 3-F + SP, 10A
BL-4-710-550T	L 5,5 kW	R-S 3-F + SP, 16A

Type	inverter	service switch
BL-4-800-1100T	L 11,0 kW	R-S 3-F + SP, 25A
BL-4-900-1850T	L 18,5kW	R-S 3-F + SP, 40A
BL-6-710-220T	L 2,2 kW	R-S 3-F + SP, 10A
BL-6-800-300T	L 4,0 kW	R-S 3-F + SP, 10A
BL-6-900-550T	L 5,5 kW	R-S 3-F + SP, 16A
BL-6-1000-1100T	L 11,0 kW	R-S 3-F + SP, 25A
BL-6-1120-1850T	L 18,5kW	R-S 3-F + SP, 40A
BL-6-1250-3000T	on request	on request



**Article numbers**

R-S 3-F + SP, 10A	91040908-01
R-S 3-F + SP, 16A	91040908
R-S 3-F + SP, 25A	91040910
R-S 3-F + SP, 40A	91040924
L 0,75 kW	40016312
L 1,5 kW	40016322
L 2,2 kW	40016332
L 4,0 kW	40016352
L 5,5 kW	40016362
L 7,5 kW	40016372
L 11,0 kW	40016383
L 15,0 kW	40016392
L 18,5kW	40016412
L 22,0kW	40016422