

AA47-70



HIGH PRESSURE WITH ALUMINIUM FORWARD IMPELLER

MANUFACTURING FEATURES:

- Rolling steel sheet housing.
- Fully welded housing.
- High efficiency simple inlet forward curved impeller manufactured in cast aluminium.
- Polyester powder finishing coat.
- Standard asynchronous squirrel-cage motor with IP-55 protection and class F insulation. Standard voltages 230/400V 50Hz for three phase motors up to 4kW and 400/690V 50Hz for higher powers.
- Available positions (to be indicated in case of order): LG270, LG0, LG45, LG90, LG135, LG180. LG225, LG315.
- The indicated codes correspond to the model in position LG270

APPLICATIONS:

Designed for inline installation, they are suitable for:

- Industrial applications, extraction or injection of air.
- Cooling of machines and parts.
- Clean air transport.
- Exhaust after filters, separators and cyclones.
- Pneumatic transport.
- Maximum working temperature: carried air: 130°C, ambient 60°C.

UNDER REQUEST:

- 60Hz fans and special voltages.
- 2 speed motors.

Accessories



AB



AC



AVR



AVS



BA-400



EI



INT



JE 45



RA



RBS



SFC

Technical data

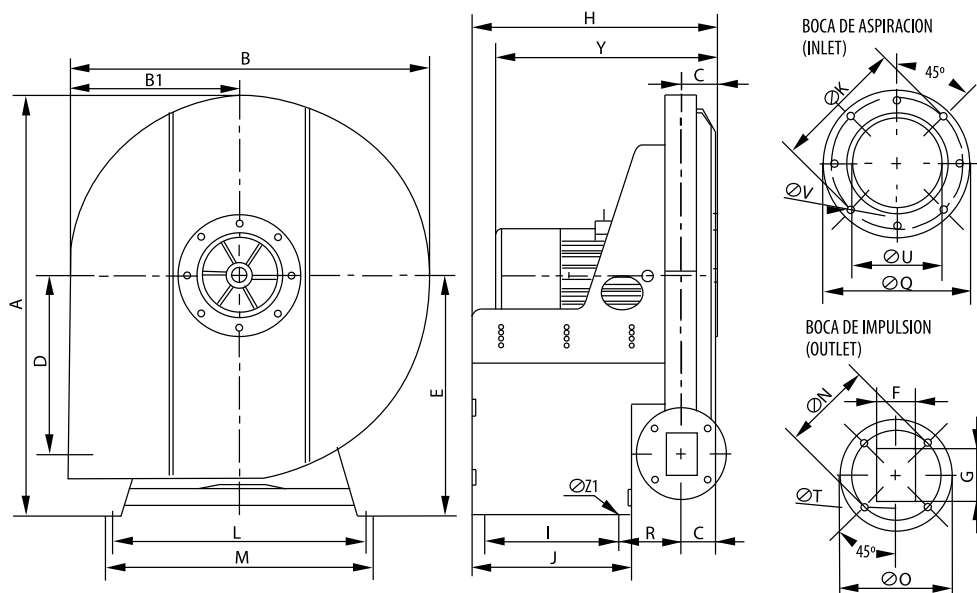
Three-phase motor

Code	Model	R.P.M.	Rated I. A		Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
			230V	400V					
255170160	AA 47 T2 1,1kW	2800	4,05	2,33	1,10	530	64	49,50	1
255280160	AA 53 T2 2,2kW	2840	7,97	4,58	2,20	890	66	67	1
255350160	AA 59 T2 2,2kW	2840	7,97	4,58	2,20	590	69	70	1
255350163	AA 59 T2 3kW	2880	10,3	5,92	3,00	900	69	77	1
255450160	AA 66 T2 4kW	2880	13,3	7,63	4,00	910	72	82	1
255500160	AA 70 T2 5,5kW	2910	-	10,6	5,50	1.040	76	118,50	1
255510160	AA 70 T2 7,5kW	2910	-	14,1	7,50	1.800	78	125	1

Notes:

** Total sound pressure level at the point of maximum flow measured in dB(A) in the suction measured in free field at a distance of 6m from the source

Dimensions



Model	A	B	B1	C	D	E	F	G	H
AA 47 T2 1,1kW	643	560	264	70	275,5	365	60	60	372
AA 53 T2 2,2kW	698	609	288,5	70	300	395	60	70	392
AA 59 T2 2,2kW	789	679	321	71,5	335	451	60	80	468,5
AA 59 T2 3kW	789	679	321	71,5	335	451	60	80	468,5
AA 66 T2 4kW	866	755	359	7,15	373	490	60	80	464,5
AA 70 T2 5,5kW	918	807	378	75	411,5	516	60	80	501,5
AA 70 T2 7,5kW	918	807	378	75	411,5	516	60	80	501,5

Model	I	J	KØ	L	M	NØ	OØ	QØ	R
AA 47 T2 1,1kW	165	215	175	355	380	132	168	205	112
AA 53 T2 2,2kW	185	235	190	410	435	132	168	215	112
AA 59 T2 2,2kW	250	300	205	475	500	140	175	230	122
AA 59 T2 3kW	250	300	205	475	500	140	175	230	122
AA 66 T2 4kW	250	300	205	545	570	140	175	230	118
AA 70 T2 5,5kW	275	325	205	589	614	140	175	230	126,5
AA 70 T2 7,5kW	275	325	205	589	614	140	175	230	126,5

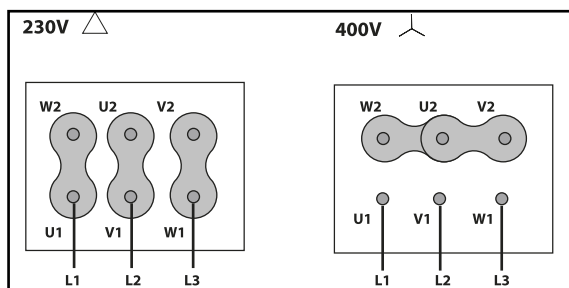
Model	TØ	UØ	VØ	Y	Z1
AA 47 T2 1,1kW	11	110	12	367	11
AA 53 T2 2,2kW	11	125	12	422	11
AA 59 T2 2,2kW	11	140	12	423,5	11
AA 59 T2 3kW	11	140	12	433,5	11
AA 66 T2 4kW	11	140	12	423,5	11

Model	TØ	UØ	VØ	Y	Z1
AA 70 T2 5,5kW	11	140	12	516,5	11
AA 70 T2 7,5kW	11	140	12	516,5	11

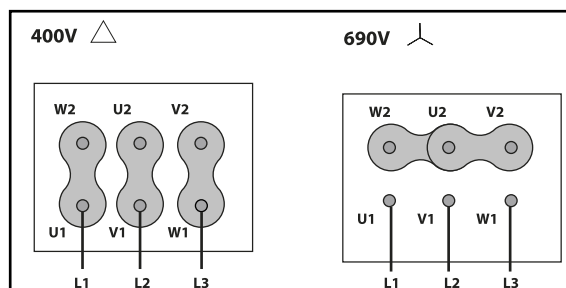
Wiring diagram

Wiring diagram Nº 1

230/400V



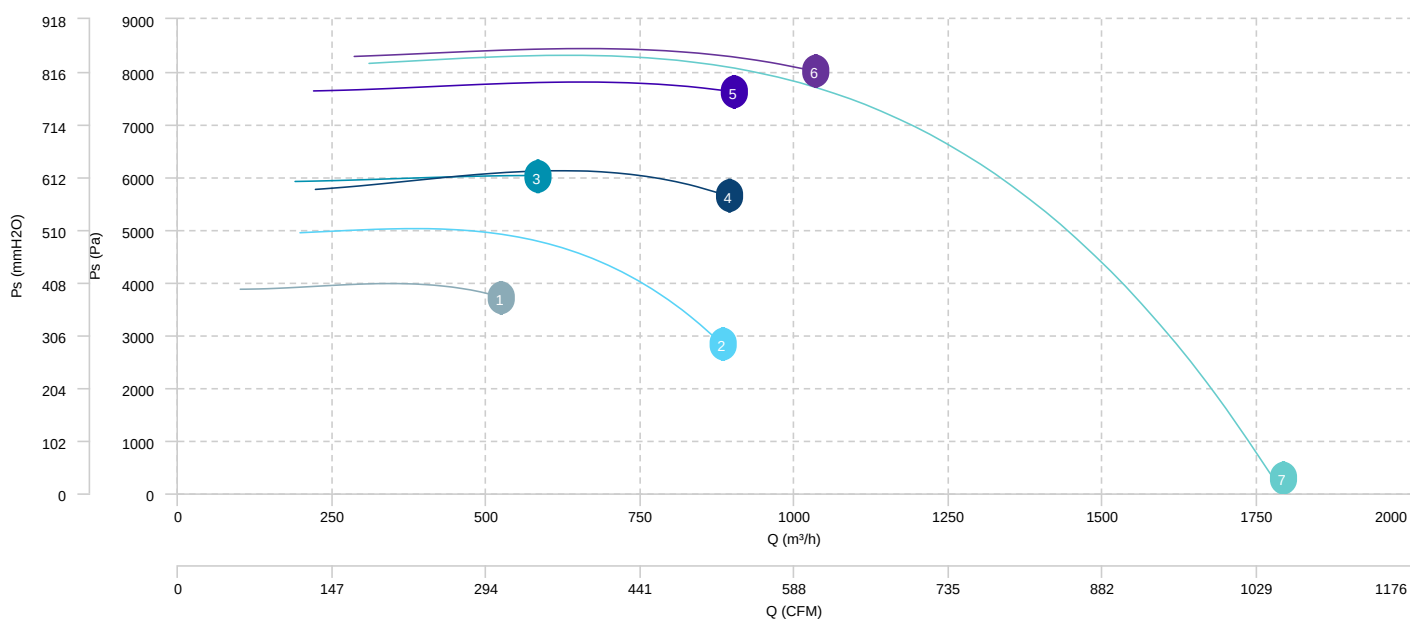
400/690V



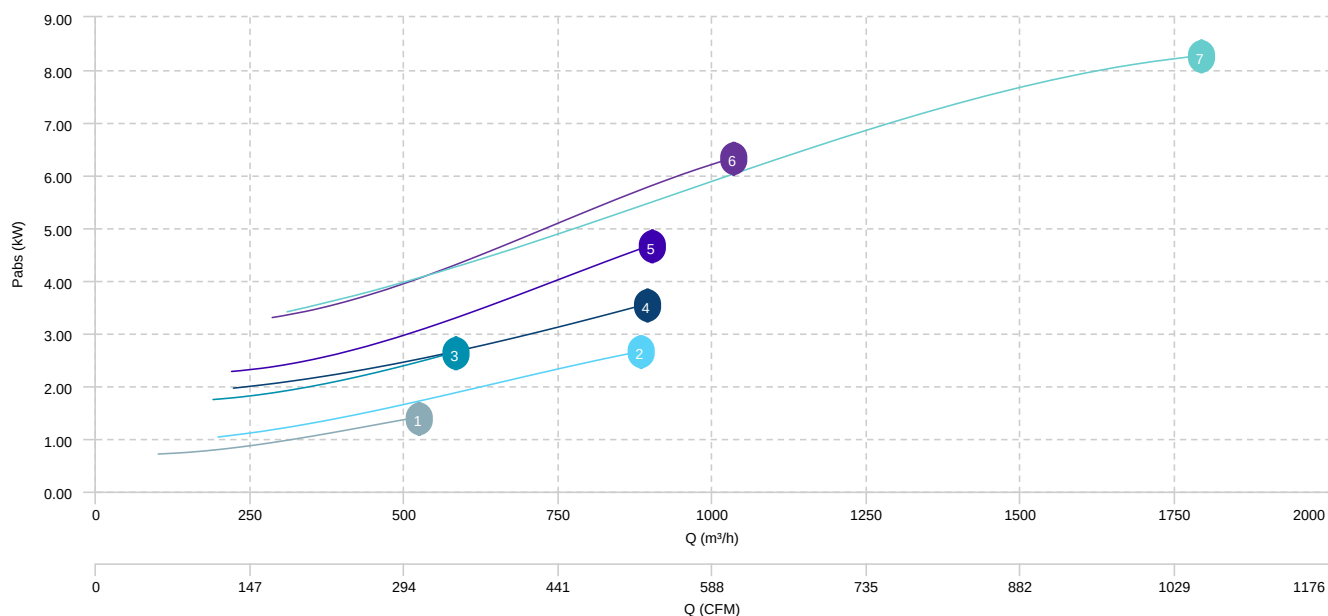
CHARACTERISCTIC CURVE

1	AA 47 T2 1,1kW	2	AA 53 T2 2,2kW	3	AA 59 T2 2,2kW	4	AA 59 T2 3kW
5	AA 66 T2 4kW	6	AA 70 T2 5,5kW	7	AA 70 T2 7,5kW		

AIR FLOW - PRESSURE



AIR FLOW - ABSORBED POWER



Sound data

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
AA 47 T2 1,1kW	Inlet	44	56	73	79	87	85	79	71	90
AA 53 T2 2,2kW	Inlet	46	58	75	81	89	87	82	74	92
AA 59 T2 2,2kW	Inlet	49	61	78	84	92	90	84	76	95
AA 59 T2 3kW	Inlet	48	60	77	83	92	90	84	76	95
AA 66 T2 4kW	Inlet	52	64	81	87	95	93	87	79	98
AA 70 T2 5,5kW	Inlet	56	68	85	91	99	97	92	83	102
AA 70 T2 7,5kW	Inlet	57	69	86	92	101	99	93	85	104

erp data

ERP	
Fan type	Centrifugal fan radial or forward blades
Installation category	B
Efficiency category	Total
The fan has to be installed with FSC	No

		Maximum efficiency point data						
Model	Motor power (kW)	Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m³/h)	Pt (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
AA 47 T2 1,1kW	1,1	49,43	54,83	520	3.880,34	1,41	2800	1,00
AA 53 T2 2,2kW	2,2	50,32	54,52	693,54	4.501,75	2,17	2840	1,00
AA 59 T2 3kW	3,0	51,41	54,27	890	5.808,50	3,55	2880	1,00
AA 66 T2 4kW	4,0	50,55	52,65	900	7.783,71	4,68	2880	1,00
AA 70 T2 7,5kW	7,5	50,23	51,23	1.290,35	6.660,44	7	2910	1,00