

Rectangular Duct Fans - KATANA and KATANA Plus



Features

- Sizes from 400x200 and 1000x500 mm diameter
- Air flow 11,160 m³/h (3.1 m³/s)
- Static pressures up to 920 Pa
- Maximum temperature up to 70°C
- Controllable external rotor motors
- Horizontal or vertical mounting

Electrical Supply

220 - 240V / 50Hz / 1 Ph
380 - 420V / 50Hz / 3 Ph

Sizes

225, 250, 280, 315, 355, 400, 450, 500 and 560.

Features and Construction

The Katana is a centrifugal in-line duct fan which can be mounted in any position. Constructed from galvanized sheet metal. The flange is drilled to allow for ease of installation for mounting in any position.

Katana Plus - Insulated option available please add (A) to selection.

Impeller

Aluminum backward curved centrifugal impeller.

Motor

External rotor motor directly coupled class F, IP54 except model 200 which is IP44. Motor-impeller dynamically balanced according to ISO 1940.

Can be linked star / delta for operation at low / high speed.

Speed Controllers

Controllable using auto-transformers (please see page 99).

Product Code

Katana 225-2-1(A)

- Katana = Product Name
- 225 = Impeller diameter size
- 2 = 2 pole or 4 pole
- 1 = 1 phase or 3 phase
- (A) = Acoustically lined version, Katana Plus only

Accessories

The range of accessories include flexible connectors, silencers, filters, flanges, shutters and dampers. A quick reference guide is shown below. For full details on these items please see pages 86-88.



RSA



RFC



RCF



RLS



RAD



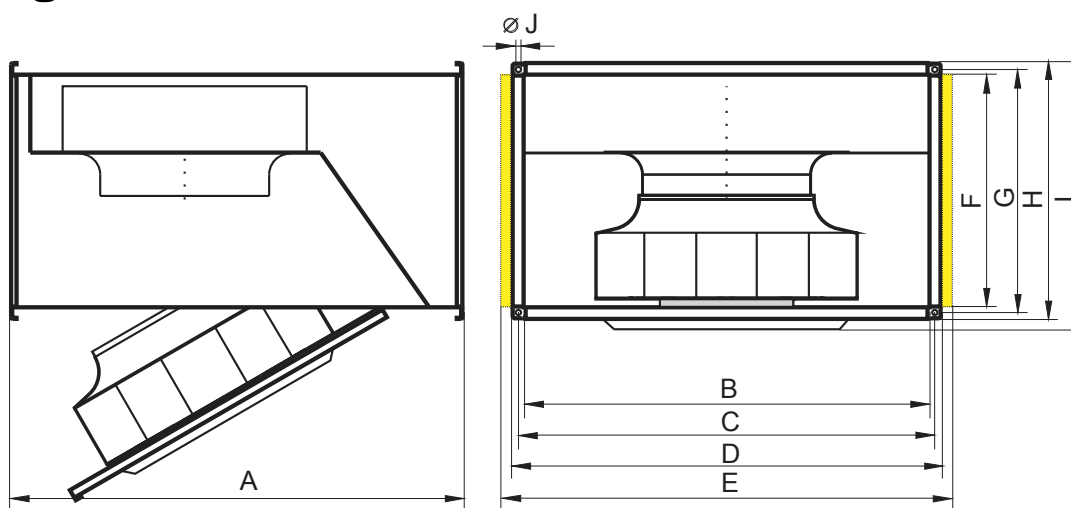
RFB

Electrical Details and Sound Levels

Product Code	Product Number	Speed rpm	Motor Frame	Electrical Supply	Electrical Current			Wiring Diagrams	Maximum Operating Temp °C	Breakout		* * Speed Controllers Transformer
					Motor (kW)	Full Load Current (A)	Starting Current (A)			*Sound Level db(A) (3m)		
										Katana	Katana Plus	
KATANA 225-2-1	RS225201	2640	Integral	220-240v/50Hz/1ph	0.12	0.52	0.94	CD3004	50	38	NA	✓
KATANA 250-2-1	RS250201	2410	Integral	220-240v/50Hz/1ph	0.24	1.04	1.66	CD3004	45	39	NA	✓
KATANA 280-2-1 (A)	RS280201	2580	Integral	220-240v/50Hz/1ph	0.73	3.2	6.72	CD3003	60	47	NA	✓
KATANA 280-2-3 (A)	RS280203	2440	Inegral	380-420v/50Hz/3ph	0.62	1	2.5	CD3005	65	46	NA	✓
KATANA 315-4-1 (A)	RS315401	1325	Integral	220-240v/50Hz/1ph	0.165	0.73	1.39	CD3005	50	36	32	✓
KATANA 315-4-3 (A)	RS315403	1340	Integral	380-420v/50Hz/3ph	0.15	0.33	0.92	CD3003	70	36	32	✓
KATANA 355-4-1 (A)	RS355401	1300	Integral	220-240v/50Hz/1ph	0.32	1.45	2.9	CD3005	40	39	33	✓
KATANA 355-4-3 (A)	RS355403	1300	Integral	380-420v/50Hz/3ph	0.29	0.55	1.54	CD3003	60	39	33	✓
KATANA 400-4-1 (A)	RS400401	1370	Integral	220-240v/50Hz/1ph	0.54	2.6	6.5	CD3005	45	43	38	✓
KATANA 400-4-3 (A)	RS400403	1310	Integral	380-420v/50Hz/3ph	0.49	0.9	2.88	CD3003	40	43	38	✓
KATANA 450-4-1 (A)	RS450401	1265	Integral	220-240v/50Hz/1ph	0.71	3.25	6.5	CD3005	50	42	40	✓
KATANA 450-4-3 (A)	RS450403	1355	Integral	380-420v/50Hz/3ph	0.78	1.55	3.87	CD3003	55	42	40	✓
KATANA 500-4-1 (A)	RS500401	1300	Integral	220-240v/50Hz/1ph	1.62	7.3	16.06	CD3005	40	48	43	✓
KATANA 500-4-3 (A)	RS500403	1390	Integral	380-420v/50Hz/3ph	1.7	3.5	15.05	CD3003	55	48	43	✓
KATANA 560-4-3 (A)	RS560403	1340	Integral	380-420v/50Hz/3ph	2.4	4.5	18.9	CD3003	45	47	47	✓

*Sound power levels are average dBA at 3 metres distance over sphere, under free field conditions and are presented for comparative purposes only. Values taken at the mid point on the wave at the highest point. **For speed controllers, please see page 99.

Drawings and Dimensions



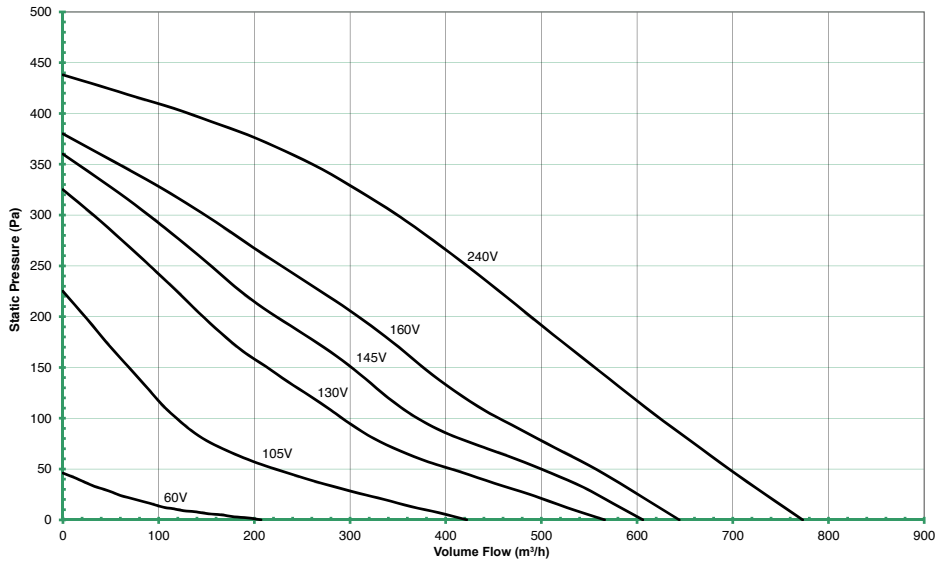
Product Code	A	B	c	D	E (optional)	F	G	H	I	J	Weight Max (kg)
KATANA 225-2-1 (A)	445	400	420	440	-	200	220	240	242	9	12.5
KATANA 250-2-1 (A)	445	400	420	440	-	200	220	240	242	9	14
KATANA 315-4-1 (A)	530	500	520	540	580	250	270	290	292	9	23
KATANA 315-4-3 (A)	530	500	520	540	580	250	270	290	292	9	23
KATANA 355-4-1 (A)	700	600	620	640	680	350	370	390	410	9	35
KATANA 355-4-3 (A)	700	600	620	640	680	350	370	390	410	9	34
KATANA 400-4-1 (A)	700	600	620	640	680	350	370	390	415	9	38
KATANA 400-4-3 (A)	700	600	620	640	680	350	370	390	415	9	36
KATANA 450-4-1 (A)	780	700	720	740	780	400	420	440	460	9	50
KATANA 450-4-3 (A)	780	700	720	740	780	400	420	440	460	9	50
KATANA 500-4-1 (A)	880	800	820	840	880	500	520	540	574	9	72
KATANA 500-4-3 (A)	880	800	820	840	880	500	520	540	574	9	72
KATANA 560-4-3 (A)	982	1000	1020	1040	1080	500	520	540	573	9	96

*E is only available on the Katana Plus (Insulated option)

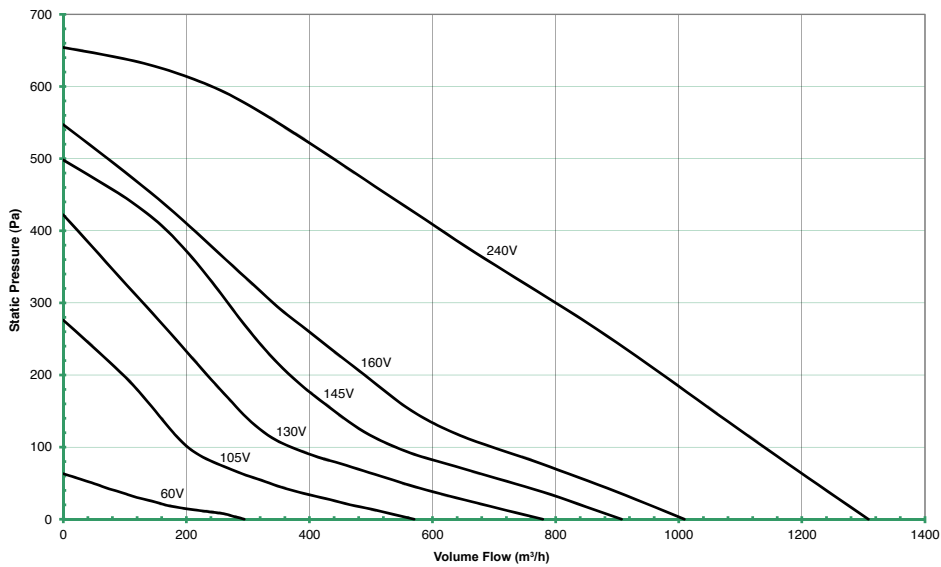
All dimensions shown in mm

Performance Data

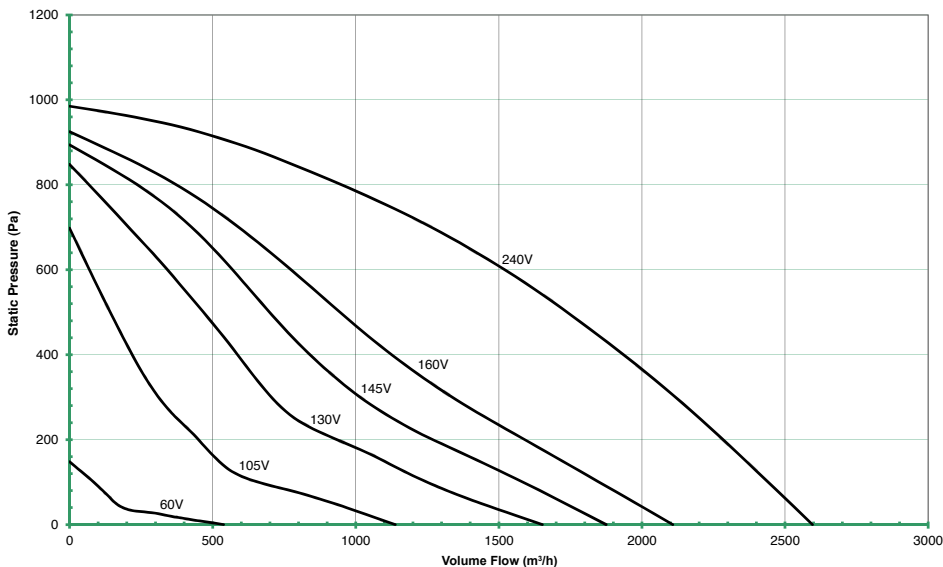
KATANA 225-2-1



KATANA 250-2-1

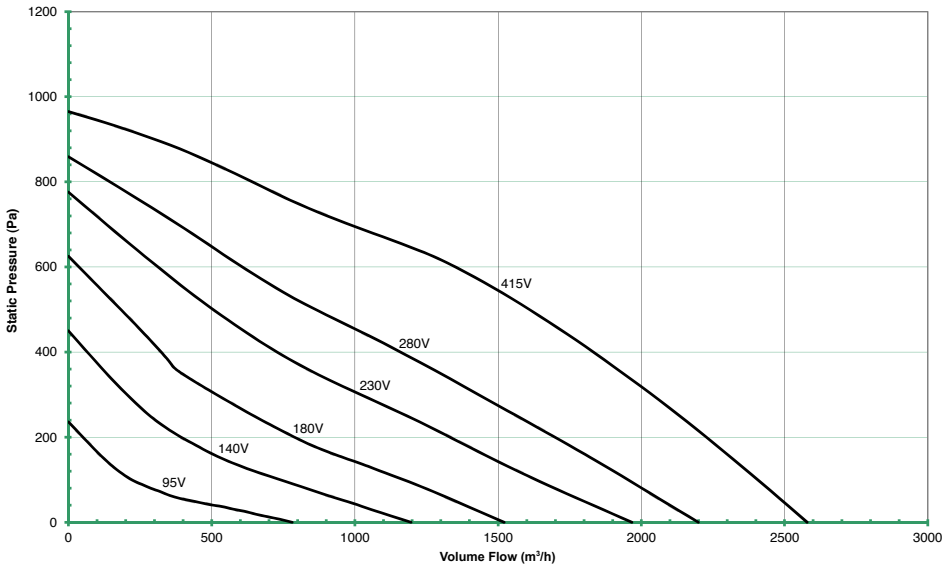


KATANA 280-2-1 (A)

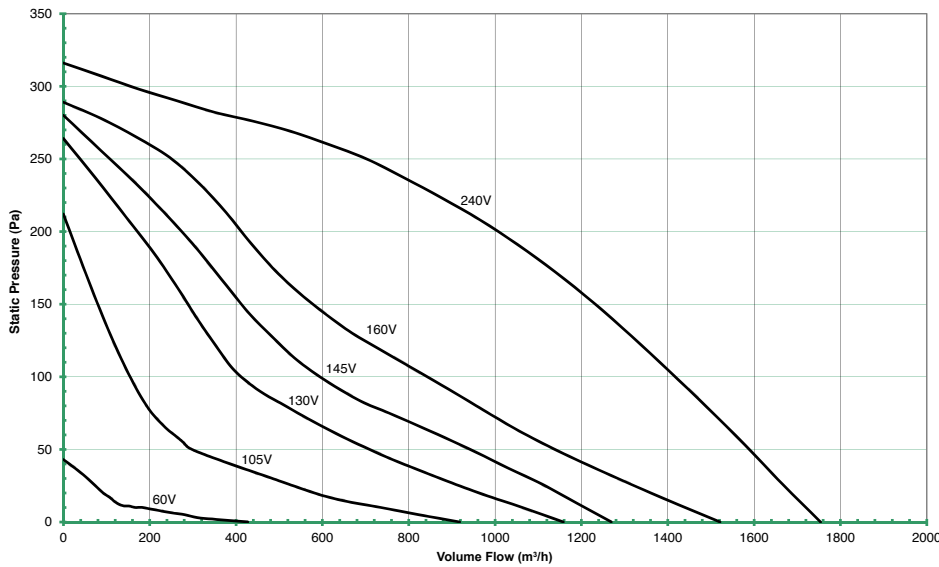


Performance Data

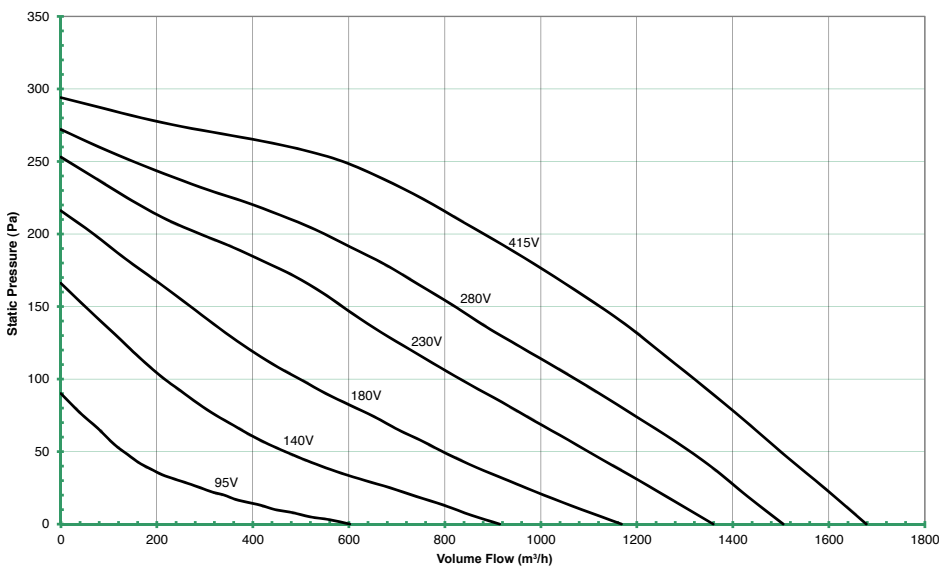
KATANA 280-2-3 (A)



KATANA 315-4-1(A)

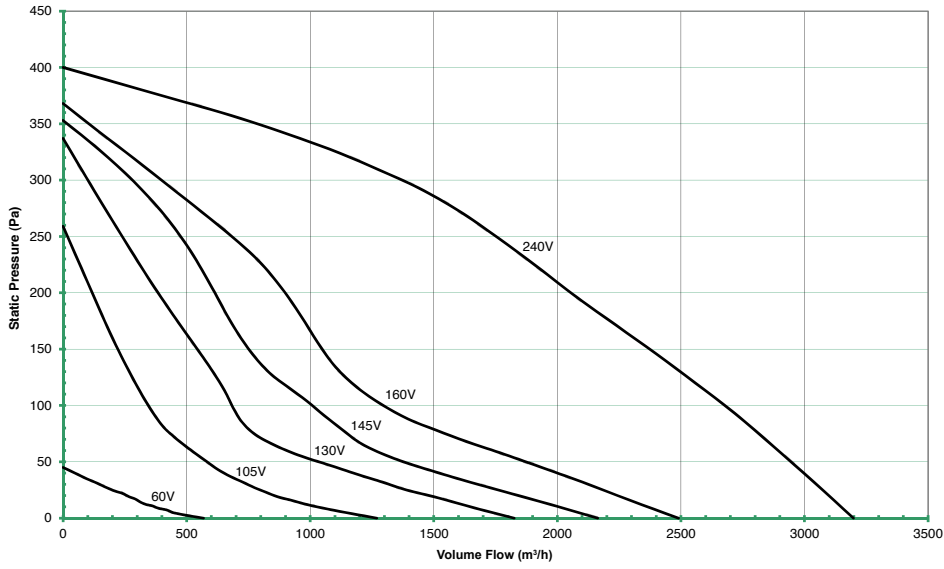


KATANA 315-4-3 (A)

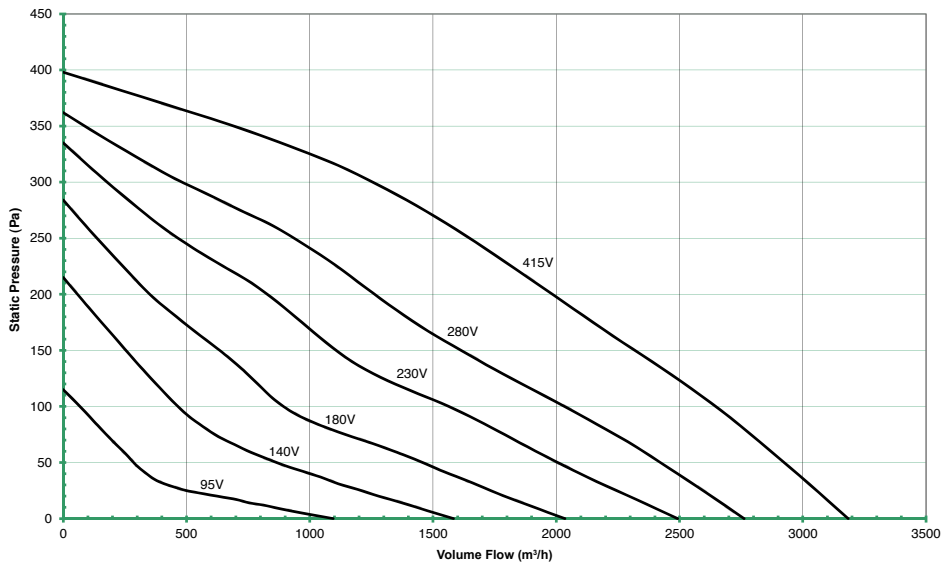


Performance Data

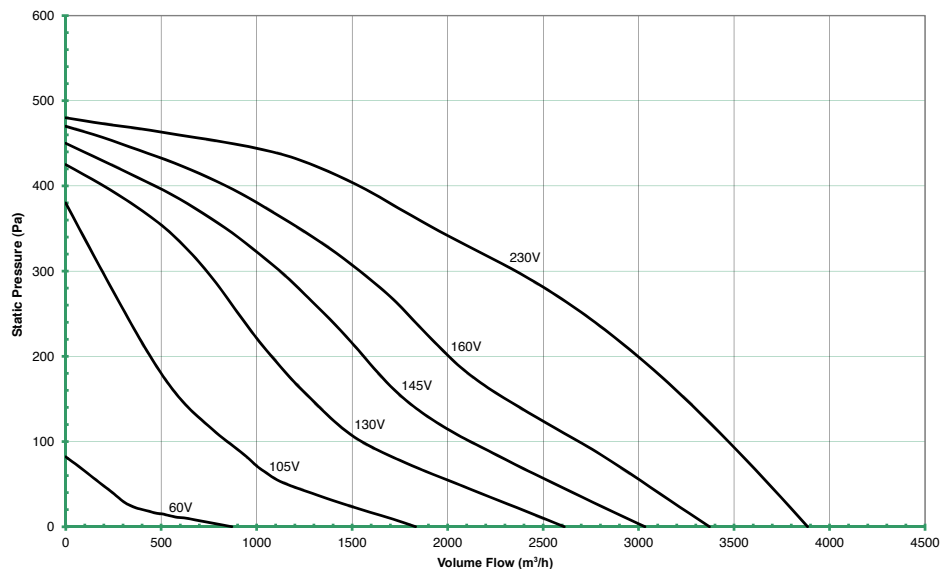
KATANA 355-4-1(A)



KATANA 355-4-3 (A)

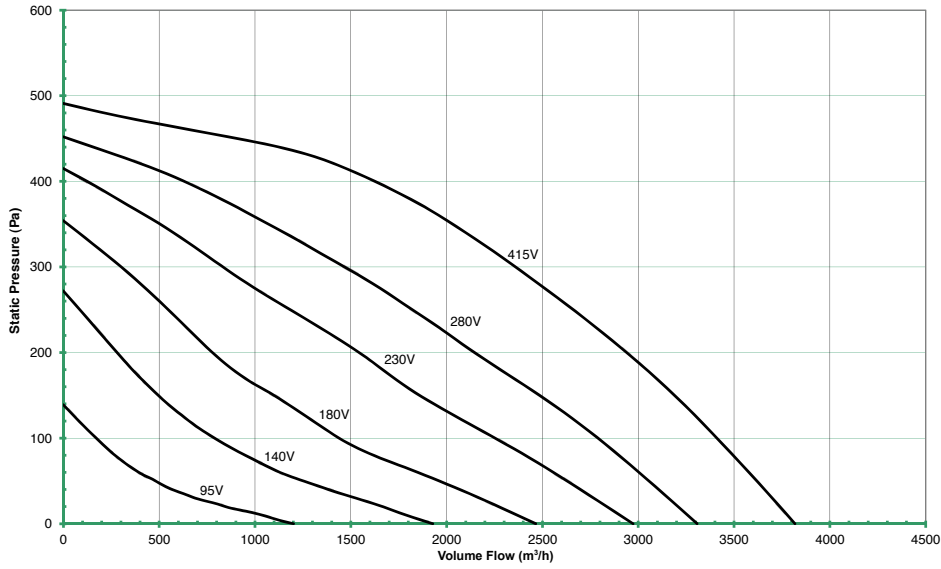


KATANA 400-4-1(A)

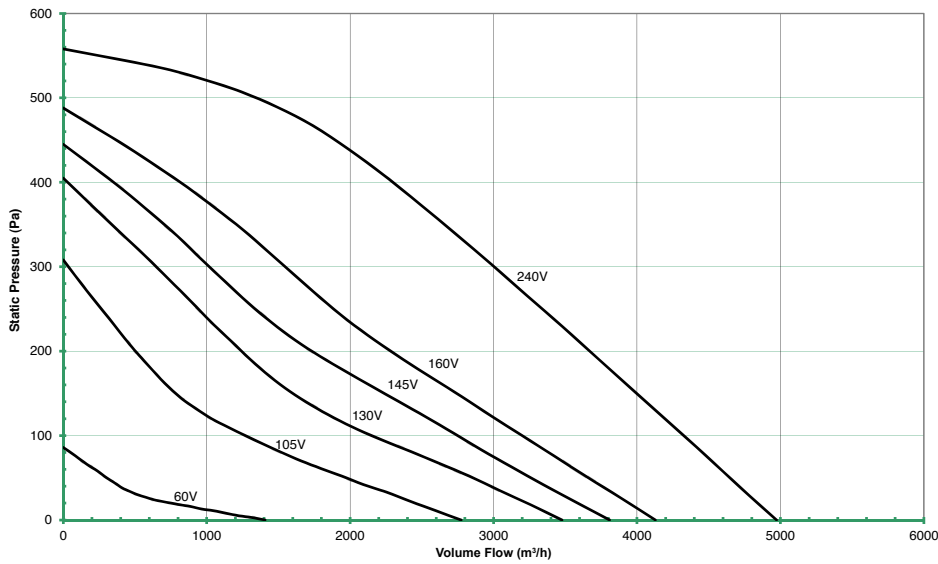


Performance Data

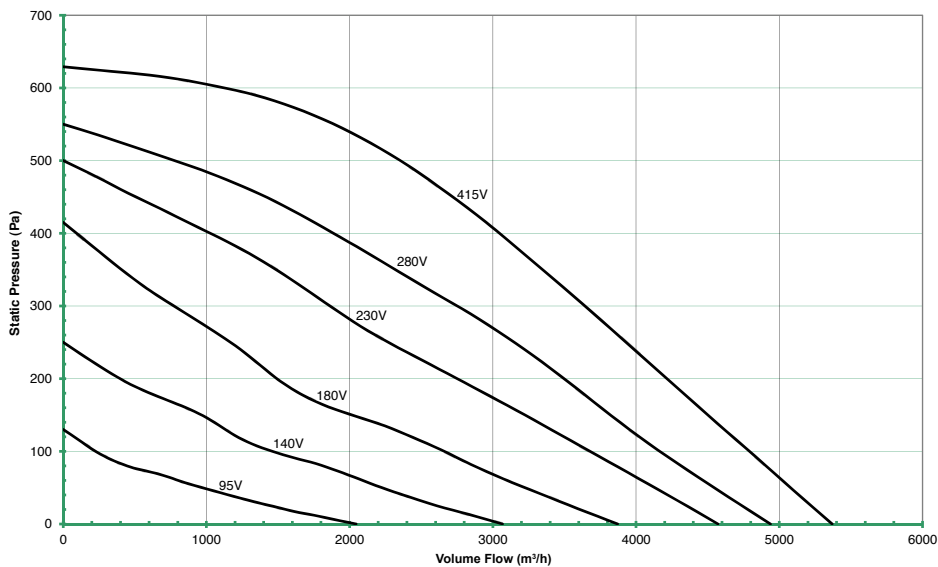
KATANA 400-4-3 (A)



KATANA 450-4-1(A)

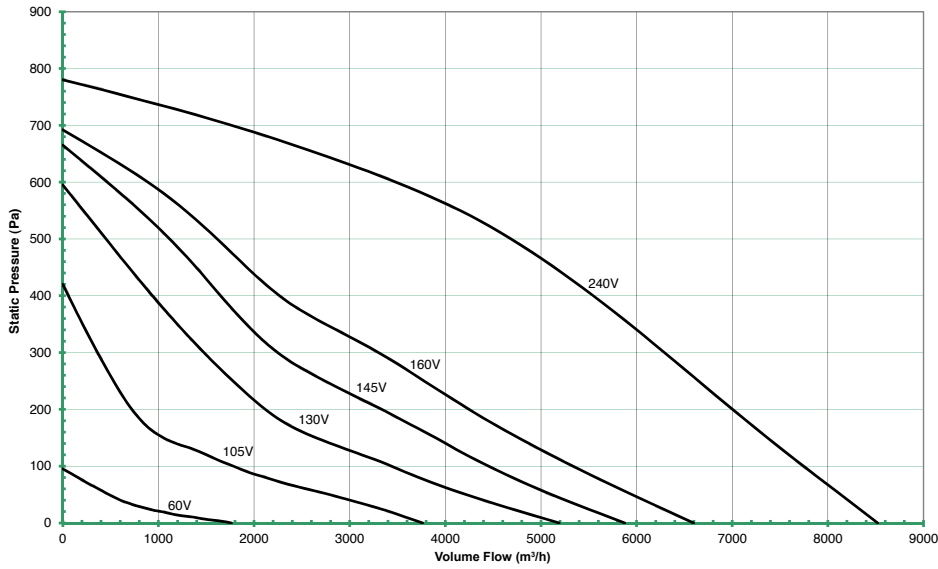


KATANA 450-4-3 (A)

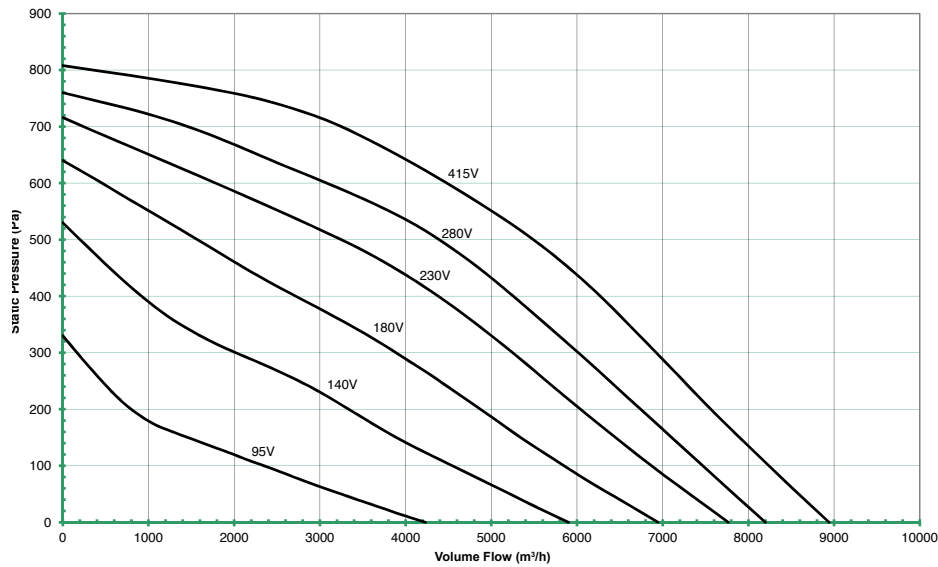


Performance Data

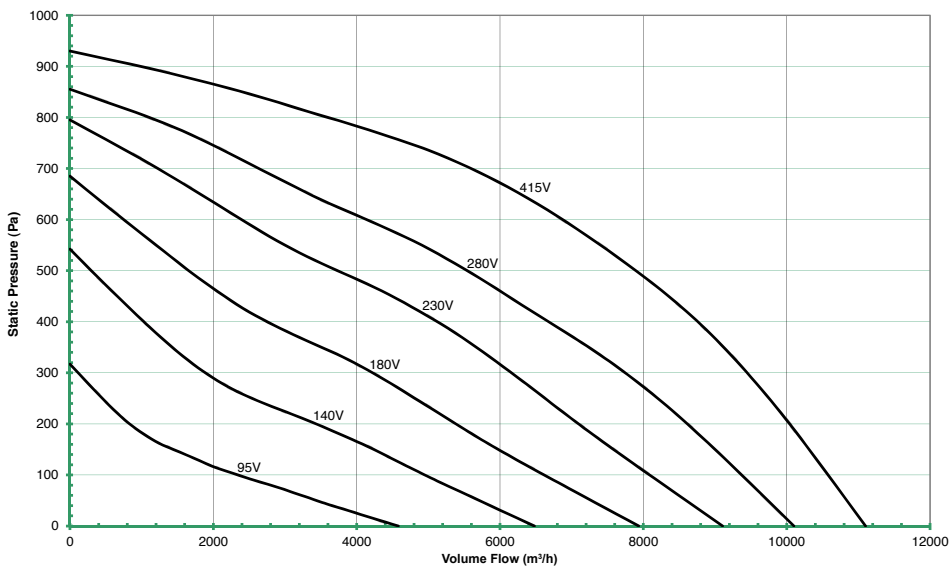
KATANA 500-4-1 (A)



KATANA 500-4-3 (A)



KATANA 560-4-3 (A)

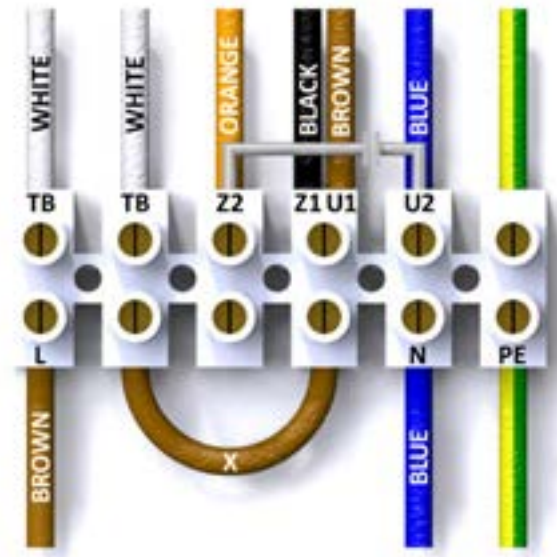


Wiring Diagrams

CD3003



CD3005



Clockwise

CD3004



CD 3016

