CENTRIFUGAL FANS WITH FREE RUNNING B-IMPELLER

without housing with NEMA Premium Efficiency Motor with IEC Standard Motor



rosenberg® CANADA

RoVent® 10

Ventilatorenauswahlprogramm
Fan Selection Software

Mit unserem Auswahlprogramm RoVent10 ist eine betriebspunktgenaue Auswahl von mehr als 2.900 Ventilatorenmodellen schnell und einfach möglich. Weiterhin steht Ihnen eine umfangreiche Dokumentation des ausgewählten Ventilatortyps zur Verfügung. Durch regelmäßige Updates bleibt die Software ständig auf dem aktuellsten Stand.

With our fan selection software RoVent10 an operating point specific fan selection can be made quickly and easily from over 2.900 fan models. Furthermore, detailed documentation on the selected fan type is available. The software is kept up to date through regular automatic updates.



Die RoVent CD-ROM erhalten Sie jederzeit kostenfrei von einer unserer Niederlassungen. Alternativ steht die Software auch auf www.rosenberg-gmbh.com zum Download bereit.

You can receive the RoVent CD-ROM anytime free of charge from one of our subsidiaries. Alternatively, it can be downloaded anytime from our website www.rosenberg-gmbh.com.

Inhalt / Content

		Seite / Page
Sicherheit und Gewährleistung	**Safety and Warranty**	2-3
Typenschlüssel	**Type Code**	4
Technische Beschreibung	**Technical Description**	5-7
• Eigenschaften und Ausführung	• Features and Construction	
• Laufrad	• Impeller	
• Drehrichtung	• Direction of rotation	
• Einströmdüse	• Inlet cone	
• Motor	• Motor	
• Elektrischer Anschluss	• Electrical connection	
• Drehzahlsteuerung	• Speed control	
• Vorteile der Radialventilatoren mit freilaufendem Rad	• Advantages of radial fans with free running impeller	
AMCA Zertifizierung	**AMCA certification**	8
Beispiel Kennliniendarstellung	**Performance curve example**	9
Kennlinien	**Performance curves**	10-27
• Technische Daten	• Technical data	
• Abmessungen	• Dimensions	
Zubehör	**Accessories**	28

Bitte beachten Sie beim Einbau und beim Betrieb der Rosenberg-Ventilatoren folgende Hinweise:

Montage- und Elektroarbeiten soll nur durch ausgebildetes und eingewiesenes Fachpersonal und nach den jeweils zutreffenden örtlichen Vorschriften und Normen, durchgeführt werden.

Die aktuell gültigen Betriebsanleitungen sind einzuhalten. Änderungen in Konstruktion und Design behalten wir uns im Sinne des technischen Fortschritts vor.

Please observe the following information prior to the installation and operation of Rosenberg fans:

Installation and electrical work should only be performed by skilled workers in accordance with applicable local laws and directives.

Please follow the current installation and operating instructions closely. We reserve the right of changing the dimensions, construction and design without prior notice in line with technical development.

Qualitätsmanagementsystem DIN EN ISO 9001

Rosenberg-Produkte werden nach modernsten Produktionsverfahren hergestellt. Ein konstant hoher Qualitätsstandard wird durch unser Qualitäts-managementsystem implementiert und gewährleistet. Durch unser umfangreiches Know-how in den verschiedensten Bereichen der Lüftungs- und Klimatechnik, sowie in der Motorenfertigung, unterliegen unsere Produkte und Produktions-prozesse einer stetigen Weiterentwicklung und Ver-besserung auf den modernsten Stand der Technik und werden in Übereinstimmung mit den neuesten Fertigungstechnologien produziert. Eine kundennahe und qualitativ hochwertige Produktion ist unser oberstes Ziel. Der kontinuierliche Informationsfluss und eine gute Zusammenarbeit zwischen Kunden und unseren Mitarbeitern ist uns sehr wichtig, um gemeinsam Produkt- und Qualitätsverbesserungen vorzunehmen. Ein weiteres Ziel ist es, einen flexiblen und schnellen Service anzubieten, um alle individuellen Anforderungen unserer Kunden zu erfüllen.

Quality Management System DIN EN ISO 9001

Rosenberg products are manufactured according to the state of the art production techniques. A continuous high-quality standard is implemented and ensured by our Quality Management System. Our products and manufacturing processes undergo continuous development and improvement because of our extensive knowledge on the diverse areas of ventilation, climate control and motor production and are produced in accordance with the latest manufacturing technologies. Customer-oriented and high-quality production is our top priority. The continuous information flow and a good cooperation between customers and our employees is very important to us to ensure quality and product enhancements. A further main task is to provide a flexible and quick service to meet all individual requirements of our customers.

Moderne Prüfstände, eigenverantwortliche Arbeits-gruppen und computergesteuerte Fertigungs-maschinen gehören ebenso zur Rosenberg Philosophie wie das Einbinden von Maßnahmen für höhere Qualität und Umweltschutz.

Modern performance testing, self-directed working groups and computer-controlled production machines are also included into the Rosenberg philosophy as well as the integration of measures for higher quality and environment protection.

Die **Zertifizierung gemäß DIN EN ISO 9001**, die Mitgliedschaft im **RLT- Herstellerverband Raumlufttechnische Geräte e.V.** und der **EVIA** (European Ventilation Industry Association) weisen unsere fundierten Kenntnisse in der Entwicklung und Produktion lüftungstechnischer Geräte und Anlagen aus.

The **certification according to DIN EN ISO 9001**, the membership in **RLT- Hersteller-verband Raumlufttechnische Geräte e.V.** and **EVIA** (European Ventilation Industry Association) show our profound knowledge in the development and production of ventilation equipment and systems.

Gewährleistungsbestimmungen

Für Auswahl, Auslegung und Einsatz der Ventilatoren ist der Käufer verantwortlich. Für Sach- und Rechtsmängel der Lieferung leistet der Lieferant unter Ausschluss weiterer Ansprüche – vorbehaltlich Abschnitt VII. der gültigen Allgemeinen Geschäftsbedingungen (AGB) – Gewähr.

Keine Gewähr wird insbesondere in folgenden Fällen übernommen:
Ungeeignete oder unsachgemäße Verwendung, fehlerhafte Montage bzw. Inbetriebsetzung durch den Besteller oder Dritte, natürliche Abnutzung, fehlerhafte oder nachlässige Behandlung, nicht ordnungsgemäße Wartung, ungeeignete Betriebsmittel, mangelhafte Bauarbeiten, ungeeigneter Baugrund, chemische, elektrochemische oder elektrische Einflüsse – sofern sie nicht vom Lieferanten zu verantworten sind.

Weist die vom Hersteller gelieferter Ware Mängel auf, so hat der Käufer Anspruch auf Ersatz des Produktes, bzw. der Teile, bis maximal zur Höhe des Kaufpreises. Des Weiteren hat der Lieferant das Recht der Nachbesserung in einem angemessenen Zeitrahmen. Im Schadensfall ist der Lieferant sofort und unverzüglich zu verständigen. Ersatzpflicht für weitere Mängel ist ausgeschlossen.

Für alle weiteren Vereinbarungen liegen unsere allgemeingültigen AGB's zugrunde. Die AGB's erhalten Sie auf unserer Homepage: **www.rosenbergcanada.com** oder direkt von einer unserer Niederlassungen.

Warranty Guidelines

The Customer is responsible for the selection, layout and operation of the fans. The supplier gives warranty for faulty products, excluding further claims, in accordance with paragraph VII of the valid terms and conditions of sale.

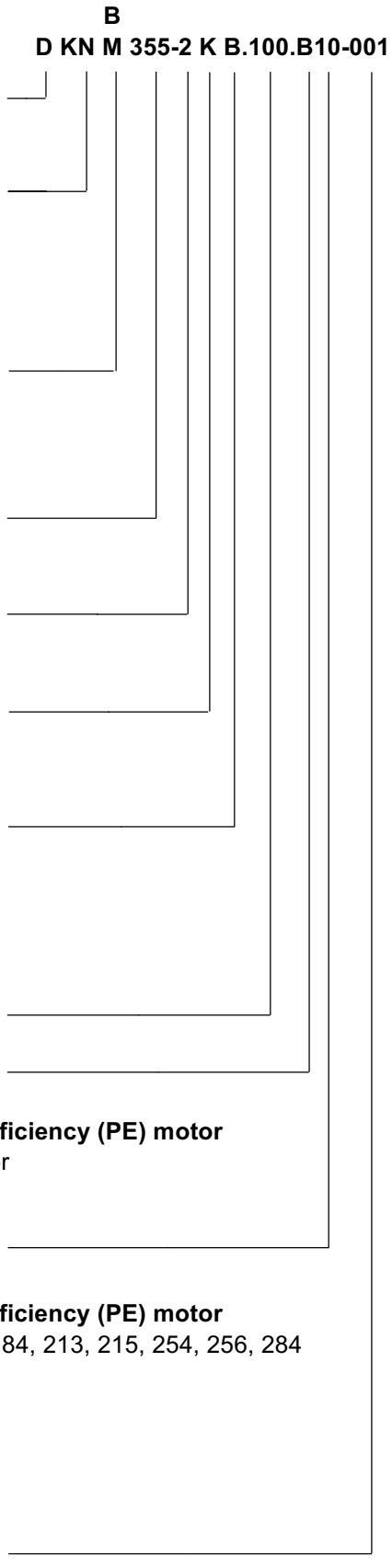
Warranty will not be given for the following instances:

Unfit or inappropriate usage, incorrect installation or initial operation by the purchaser or a third party, normal wear and tear, incorrect or negligent handling, improper maintenance, unsuitable operating material, unsuitable building site, chemical, electro-chemical or electrical influence if they are not the responsibility of the supplier.

If nb vhjv goods delivered from the manufacturer are faulty then the customer has the right to receive a replacement or replacement of the faulty parts up to the maximum value of the purchase price. The manufacturer also has the right to repair the product within a reasonable time. The manufacturer must be informed immediately in the case of damage. The obligation to replace additional faults is herewith excluded.

Our general terms of business are the basis for all further agreements. The general terms of business are available on our homepage **www.rosenbergcanada.com** or direct from one of our subsidiaries.

Typenschlüssel / Type code



Stromart / Type of current
D = Drehstrom / Three phase

Ausführung / Design
KN = Freilaufendes Rad mit NEMA Motor oder IEC- Normmotor
Free running impeller with NEMA motor or IEC standard motor

Bauform / Type (of construction)
M = Ventilatoreinbaumodul / Fan module
B = Ventilatoreinbaumodul mit Montagebock / Fan module with mounting stand

Laufraddurchmesser / Impeller diameter (mm)
280, 315, 355, 400, 450, 500, 560, 630, 710

Polzahl / Number of poles
2 = 2, 4 = 4, 6 = 6

Kabelausführung / Cable outlet
S = Kabel seitlich / Flying lead
K = Klemmkasten / Terminal box

Radbaureihe / Type of impeller
B = (rückwärtsgekrümmtes) Hochleistungslaufrad mit Diffusor (aus Aluminium)
(backward curved) high efficiency impeller with diffusor (made of aluminium)

Radbreite in mm / Impeller width in mm

Motortyp / Motor design

IEC-Normmotor / IEC standard motor	**NEMA Motor / NEMA Premium Efficiency (PE) motor**
A = B3	N = NEMA PE motor
B = B5	

Motorbaugröße / Motor size

IEC-Normmotor / IEC standard motor	**NEMA Motor / NEMA Premium Efficiency (PE) motor**
08 = 080	56, 143, 145, 182, 184, 213, 215, 254, 256, 284
09 = 090	
10 = 100	
11 = 112	
13 = 132	
16 = 160	

Fortlaufende Nummer / Consecutive no.

Eigenschaften und Ausführungen

Die Rosenberg Radialventilatoren mit freilaufendem Rad **DKN_** sind hauptsächlich für den Geräteeinbau konzipiert und kommen vorzugsweise in Klimageräten, Hygienegeräten, Reinraumfiltereinheiten, sowie RLT-Anlagen zum Einsatz. Bei der Entwicklung des rückwärts gekrümmten Laufrades für den Einsatz ohne Spiralgehäuse wurde besonderer Wert auf eine Wirkungsgradoptimierung über einen weiten Kennlinienbereich bei hoher Leistungsdichte und gleichzeitig möglichst optimalem Schallleistungspegel gelegt. Die Ventilatoren sind zur Förderung von Luft und sonstigen, nicht aggressiven Gasen oder Dämpfen bestimmt. Als Antriebsmotoren werden NEMA Motoren sowie IEC- Drehstrom- Normmotoren verwendet. Des Weiteren sind verschiedene Ausstattungen wie explosionsgeschützt oder für Gefahrenzonen erhältlich.

Abhängig von der mechanischen Bauform sind folgende Bauweisen erhältlich:

- **DKNB:**

  Ventilatoreinbaumodul mit Montagebock. Einströmdüse ist angeschraubt und die optimale Eintauchtiefe ist einjustiert. Gesamte Einheit ist durch Schwingungs- oder Federdämpferelemente entkoppelt aufstellbar. Ventilator mit NEMA PE Motor, bzw. mit IEC Normmotor, Typ IMB3.

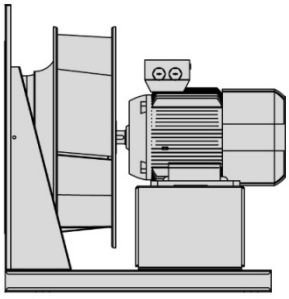
Features and Construction

The Rosenberg Centrifugal Fans with free running impeller of the range **DKN_** were designed for installation in appliances such as air-handling-units, hygienic- and clean room filter units as well as for RLT units. During the development of this unit with backward-curved impeller without scroll casing, special attention was paid to optimize the efficiency over a wide characteristic curve having at the same time high performance and an optimum sound power level. The fans are suitable to handle air and other non- aggressive gases or fumes. The motors are available with latest three phase IEC standard motors or standard NEMA Premium Efficiency motor. Moreover, different features depending on the application such as explosion proof or for hazardous locations etc. are available.

Depending on fan construction, following fan types are available:

- **DKNB:**

  Fan module with mounting stand. Inlet cone is mounted and adjustable to correct depth. Complete unit installable with vibration dampers or springs. Fan with NEMA PE motor, respectively with IEC standard motor; type IMB3.

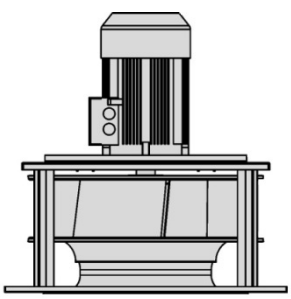


- **DKNM:**

  Ventilatoreinbaumodul ohne Montagebock. Einströmdüse ist eingeschraubt und die optimale Eintauchtiefe ist einjustiert. Ventilator mit NEMA PE Motor, bzw. mit IEC Normmotor, Typ IMB5.

- **DKNM:**

  Fan module without mounting stand. Inlet cone is mounted and adjusted to correct depth. Fan with NEMA PE motor, resp. with IEC standard motor, type IMB5.



Laufrad

Die Laufräder mit 7 rückwärts gekrümmten Schaufeln werden aus Aluminium (AlMg3) gefertigt und sind zusammen mit der Laufradnabe entsprechend der Güterstufe G6,3 DIN ISO 1940 statisch und dynamisch gewuchtet. Auf Wunsch sind die Laufräder auch mit einer speziellen Beschichtung für Gefahrenzonen erhältlich.

Impeller

The impellers with 7 backward curved blades are made of aluminum (AlMg3) and are statically and dynamically balanced with hubs according to quality level G6.3 DIN ISO 1940. The impellers can be supplied with special coating for harsh environments if needed.

Drehrichtung

Die Drehrichtung der Laufräder ist serienmäßig rechtsdrehend (gesehen auf die Ansaugseite). Bei falscher Drehrichtung (vorwärtsgekrümmt laufend) besteht Überlastungsgefahr für den Motor. Daher sollte immer vor Inbetriebnahme die Drehrichtung überprüft werden.

Direction of rotation

Direction of rotation of the impellers (viewed from the inlet side) is clockwise. Wrong direction of rotation can overload the motor; therefore it is essential to check the direction of rotation before initial operation.

Einströmdüse

Die Einströmdüsen bestehen aus verzinktem Stahlblech. Sie sind strömungstechnisch optimiert und gewährleisten eine gute Anströmung des Laufrades. Die optimale Eintauchtiefe der Einströmdüse ins Laufrad ist auf den entsprechenden Zeichnungen beschrieben. Durch eine Ring-messleitung an der Einströmdüse ist eine Volumenstromüberwachung und Regelung im Einbauzustand möglich.

Inlet cone

The inlet cones are made of galvanized sheet steel. They are fluidic optimized and offer a good airflow of the impeller. The optimal immersion depth of the impeller is shown on the according dimensional drawings. Air flow control and monitoring can be done through a circular lead on the inlet cone.

Motor

Die Rosenberg DKNM und DKNB Ventilatoren sind mit IEC-Drehstrom-Normmotoren in Bauform IMB3, bzw. IMB5, Schutzart IP55, 400V/50Hz, Wärmeklasse F oder mit einem NEMA Premium Effizienz Motor, 460V/60Hz, erhältlich. Sie können mit folgenden Möglichkeiten erworben werden: teilweise oder ganz umschlossen, explosions-geschützt, etc. Sie sind in verschiedenen Spannungen lieferbar, ebenso mit unterschiedlichen Polzahlen für unterschiedliche Nenndrehzahlen. Weitere Informationen bezüglich Antriebsmotor, Motorschutz und Drehzahlregelung ist in den jeweiligen Beschreibungen des Ventilatortyps aufzufinden.

Motor

Rosenberg’s DKNM and DKNB fans are equipped with three phase IEC standard motors in size IMB3, respectively IMB5, protection class IP55, 400V/50Hz, insulation class F or with NEMA Premium Efficiency motors, 460V/60Hz. They can be supplied with the following options: partially or totally enclosed, explosion proof, etc. Different voltages are available as well as with different number of poles for different nominal speeds. Further information on the drive motor, motor safety and speed control can be found in the individual special description of each ventilator type.

Elektrischer Anschluss

Der Motorklemmkasten ist leicht zugänglich. Entsprechend des Schaltbildes ist der Motor an die vorhandene Spannungsversorgung anzuschließen. Dabei sind die geltenden Bestimmungen und die vor Ort geltenden Vorschriften zu beachten. Bei Betrieb über Frequenzumrichter ist die jeweilige Betriebsanleitung zu beachten.

Electrical connection

The wiring box of the motor is easily accessible. The motor has to be connected according to the wiring diagram and in accordance with valid regulations and local laws. In case of operation with frequency transformer, please refer to the operation manual.

Drehzahlsteuerung

Die anlagenspezifisch geforderte, optimale Einstellung des gewünschten Betriebspunktes kann nur durch ein geeignetes System zur Drehzahlsteuerung realisiert werden.

Die Drehzahlsteuerung erfolgt durch Verändern der Frequenz mit einem Frequenzumrichter (FU). Die maximale Frequenz des Motors muss überwacht werden. Bei höheren Frequenzen als f_{max} wird der Motor thermisch überlastet, sodass die Temperatur-fühler nach entsprechender Erwärmungszeit ansprechen würden. Die am Frequenzumrichter einzustellende Eckfrequenz beträgt 50Hz für IEC Normmotoren, bzw. 60Hz für NEMA Motoren. Für Notbetrieb oder Ausfall des Frequenzumrichters können alle frequenzsteuerbaren Typen auch direkt bei 400V am 50Hz-Netz, resp. 460V am 60Hz-Netz, betrieben werden. Bei Betrieb der Motoren am Frequenzumrichter darf die maximale Spannungs-anstiegsgeschwindigkeit von 500V/µs nicht über-schritten werden. Je nach verwendetem FU und der Leitungslänge zwischen Motor und FU sind Zusatzkomponenten vorzusehen (z.B. Sinusfilter).

Speed control

The installation specific optimal adjustment for the required operating point can only be realised with a suitable speed control system.

The speed is changed by changing the frequency with a frequency converter. The maximum frequency of the motor must be observed. At higher frequencies than f_{max} the motor will thermally overload and the temperature sensor will react after a certain period of heating up. The cut-off frequency adjustable on the frequency converter is 50Hz for IEC standard motors and 60Hz for NEMA motors. In case of emergency service or failure of the frequency converter, all fans can be operated at 400V, 50Hz, respectively 460V, 60Hz, main supply. When the motors are operated by frequency converter the maximum speed of voltage increase of 500V/µs should not be exceeded. Depending on the type of frequency converter, and the length of the cable between motor and frequency converter, additional components must be provided (e.g. a sinus filter).

Vorteile der Radialventilatoren mit freilaufendem Rad

- Wartungsfreundlich, da kein Keilriemen-verschleiß und -abrieb
- Hygienefreundlich, leicht zu reinigen
- Mit horizontaler und vertikaler Welle einbaubar (DKNB; DKNM).
- Kompakte, platzsparende Bauart
- Einfache Bestimmung des Volumenstroms durch Messvorrichtung
- Problemlose schwingungstechnische Ent-koppelung des Moduls möglich
- Hohe Wirtschaftlichkeit durch wirkungs-gradoptimiertes Laufrad

Advantages of radial fans with free running impeller

- Easy maintenance as a result of no fan belt abrasion or wear and tear
- Hygienic, easy to clean
- Can be installed either with horizontal or vertical shaft (DKNB; DKNM)
- Compact, space saving construction
- Easy determination of the airflow due to measuring device
- Technical decoupling of vibration of the module possible
- High economic efficiency as a result of the optimized efficiency of the impeller

Luftleistungskennlinie

Leistungskennlinien und technische Angaben basieren auf spezifisch durchgeführte Tests gemäß AMCA Standard 210 durch ein unabhängiges Labor.

Die Messungen basieren auf Tests und Verfahren gemäß der AMCA Publikation 211 und entsprechen den Anforderungen des AMCA Zertifizierungs-programms. Die Kennlinien sind für die Einbauart A: frei saugend, frei ausblasend, zertifiziert und beinhalten nicht den Einfluss von Zubehör. Die angegebenen Werte sind für den Freiausblas-Schallleistungspegel LwoA in der Einbauart A: frei saugend, frei ausblasend und wurden nach dem AMCA International Standard 301 berechnet.
Die Kennlinien gelten für Luft mit einer Dichte von 1,2kg/m^3 bei einer Temperatur von 20°C. Die in diesem Katalog dargestellten Kennlinien zeigen den Anstieg von statischem und dynamischem Druck Δp_{fa} in Pascal (Pa) als Funktion des Volumenstroms in Kubikmeter pro Stunde (m^3/h).
Vergleichende Standards sind ISO 5801, DIN 24163 und BS 848 Part 1.

Air performance curve

Performance curves and technical specifications are based upon tests carried out in accordance to AMCA Standard 210 by an independent laboratory.

The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program. The performance curves are certified for installation type A: free inlet, free outlet and do not include the effects of appurtenances (accessories). Values shown are for outlet LwoA sound power levels for installation type A: free inlet, free outlet and have been calculated per AMCA International Standard 301.
The curves are valid for air with a density of 1.2kg/m^3 at a temperature of 20°C. The curves in this catalogue show the increase of static and dynamic pressure Δp_{fa} in pascal (Pa) as a function of the airflow in cubic meter per hour (m^3/h).

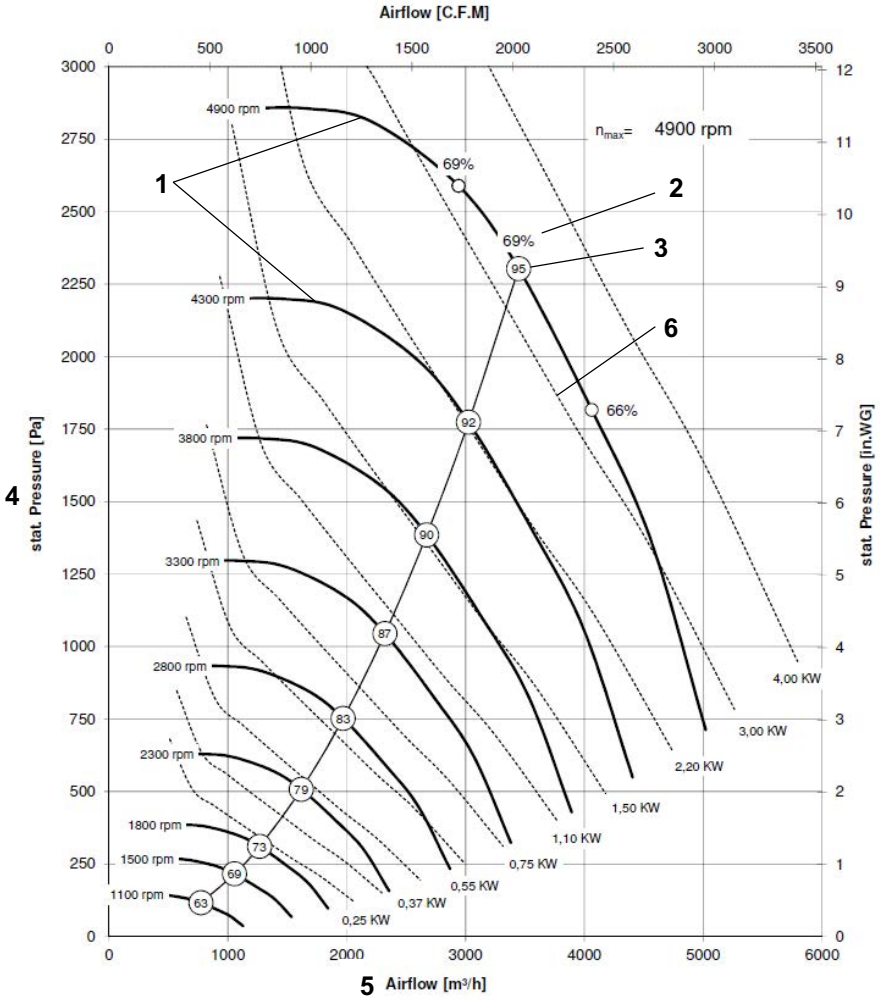
Comparatively standards are ISO 5801, DIN 24163 and BS 848 Part 1.

Rosenberg Fans Canada Ltd. versichert, dass die hier aufgeführten DKNM/B Radialventilatoren für das AMCA Zertifikat lizenziert sind. Die angegebenen Messungen basieren auf Tests und Verfahren gemäß AMCA Publikation 211 und AMCA Publikation 311 und erfüllen die Anforderungen des AMCA Zertifizierungsprogramms.

Rosenberg Fans Canada Ltd. certifies that the DKNM/B Centrifugal Fan series shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

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1 Kennlinie bei unterschiedl. Drehzahlen / performance curve at various speeds

2 statischer Wirkungsgrad / static efficiency

3 Schallleistungspegel / sound power level

4 Statischer Druck / static pressure

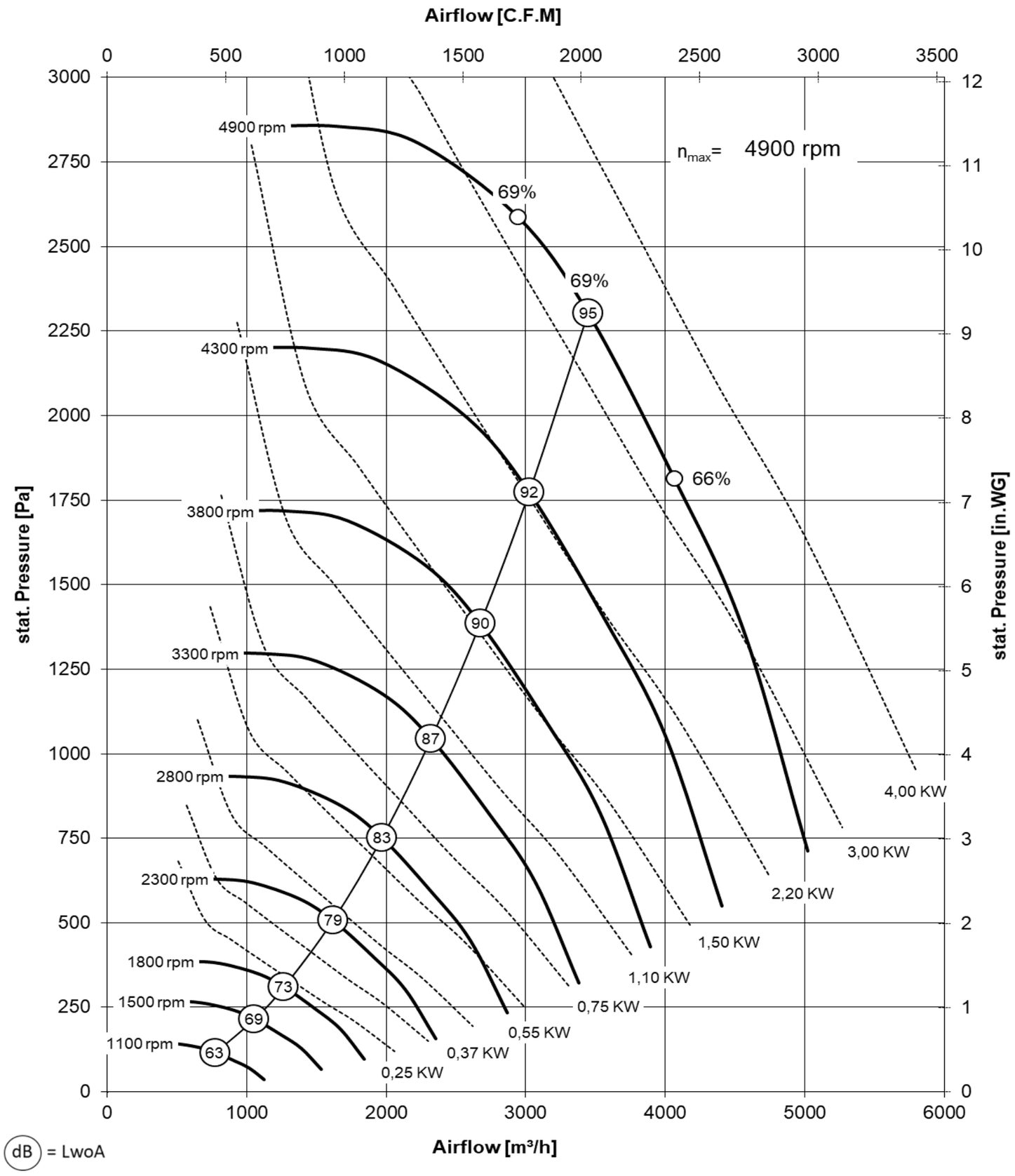
5 Luftvolumenstrom / airflow

6 Leistungsbedarf / shaft power

Formelzeichen / Technical Formula

	Benennung / description	Einheit / Unit
U	Nennspannung / rated voltage	V
P	Aufnahmeleistung / power input	kW
I_N	Nennstrom / rated current	A
n	Ventilatordrehzahl / fan speed	min^{-1}
V	Luftvolumen bei 20°C / air volume at 20°C	m^3/h
F	Netzfrequenz / mains frequency	Hz
Δp_{fa}	Statische Druckerhöhung / static pressure increase	Pa
L_{WA}	A-Schallleistungspegel / A-sound power level	dB (A)

DKN_B 280 (with IEC motor)



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Performance curve

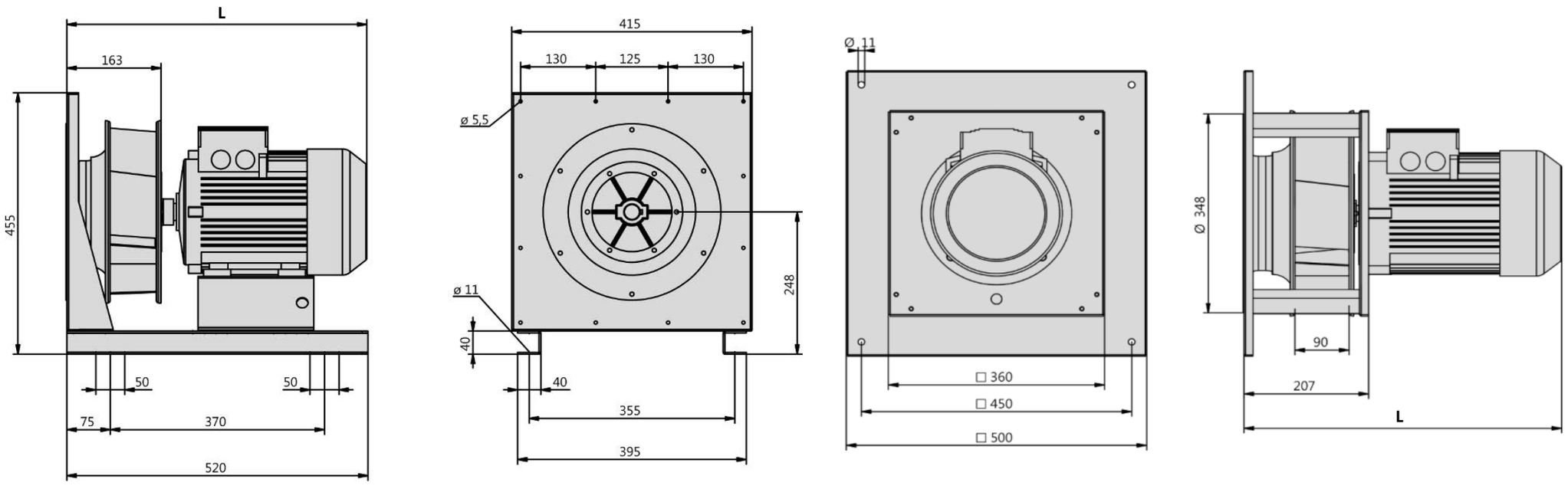
- Performance certified is for installation type A: free inlet, free outlet
- Performance ratings do not include the effects of appurtenances (accessories)
- The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for outlet LwoA sound power levels for installation type A: free inlet, free outlet

n [rpm]	u [m/s]	η Korr
4900 rpm	74.4 m/s	1
4300 rpm	65.3 m/s	1
3800 rpm	57.7 m/s	0.99
3300 rpm	50.1 m/s	0.99
2800 rpm	42.5 m/s	0.99
2300 rpm	34.9 m/s	0.98
1800 rpm	27.3 m/s	0.98
1500 rpm	22.8 m/s	0.97
1100 rpm	16.7 m/s	0.97

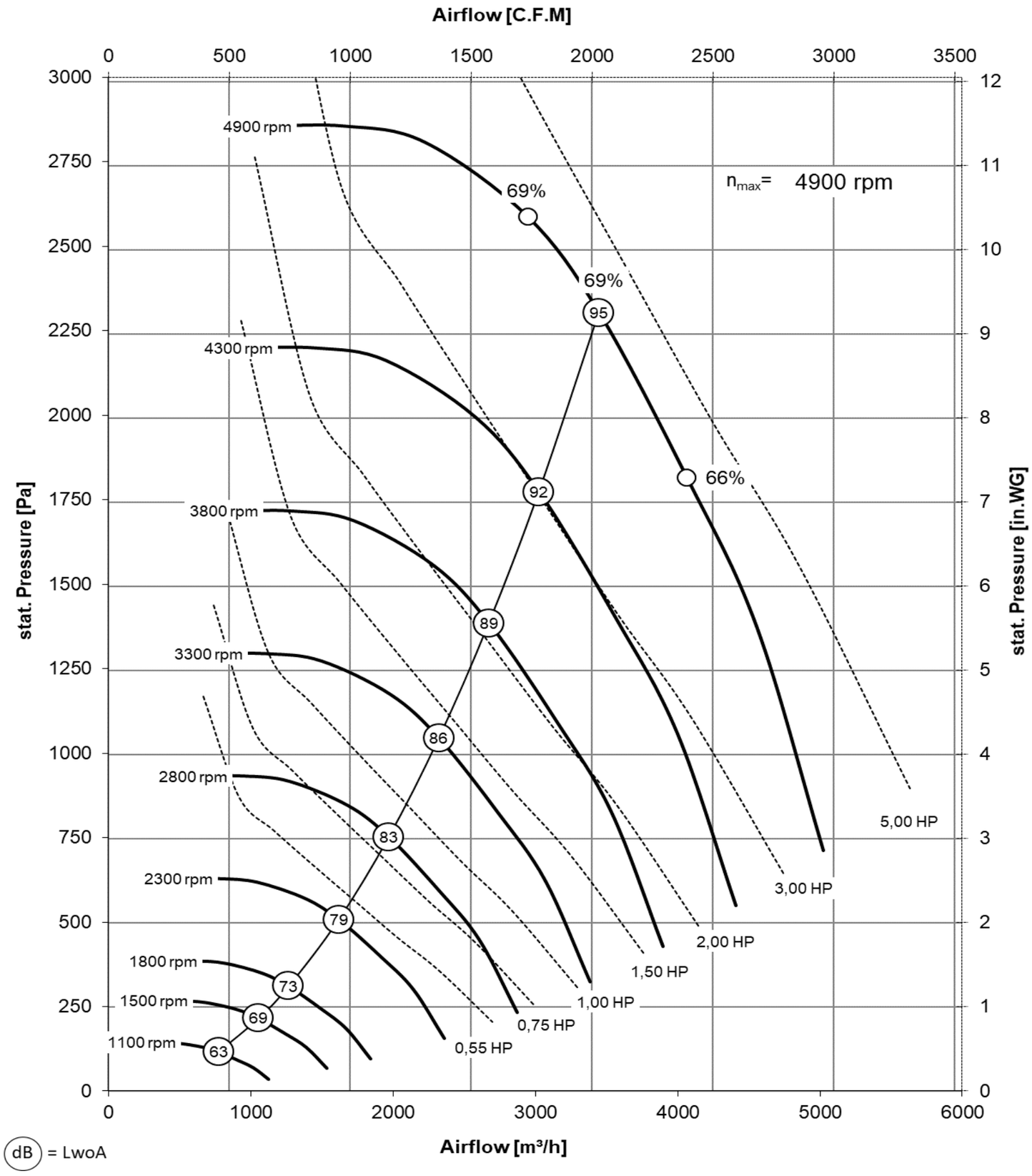
Calibration factor k_{10} = 63

Fan outlet area = 0,08 m²

	Typ of fan	Type of motor	n_N [rpm]	P_N [kW]	I_N [A]	f_{max} [Hz]	n_{max} [rpm]	DKN**B** size "L" mm	DKN**M** size "L" mm
Alu	DKN_280-4KB.080._08	80M-4	1395	0.55	1.46	97	2700	419	431
	DKN_280-2KB.080._08	80M-2	2855	0.75	1.73	53	3000	419	431
	DKN_280-2KB.080._08	80M-2	2845	1.10	2.40	60	3410	419	431
	DKN_280-2KB.080._09	90S-2	2860	1.50	3.25	66	3790	464	474
	DKN_280-2KB.080._09	90L-2	2880	2.20	4.55	75	4310	464	474
	DKN_ 280-2KB.080._10	100L-2	2890	3.00	6.10	83	4780	512	511
	DKN_280-2KB.080._11	112M-2	2905	4.00	7.80	84	4900	518	529



DKN_B 280 (with NEMA motor)



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Performance curve

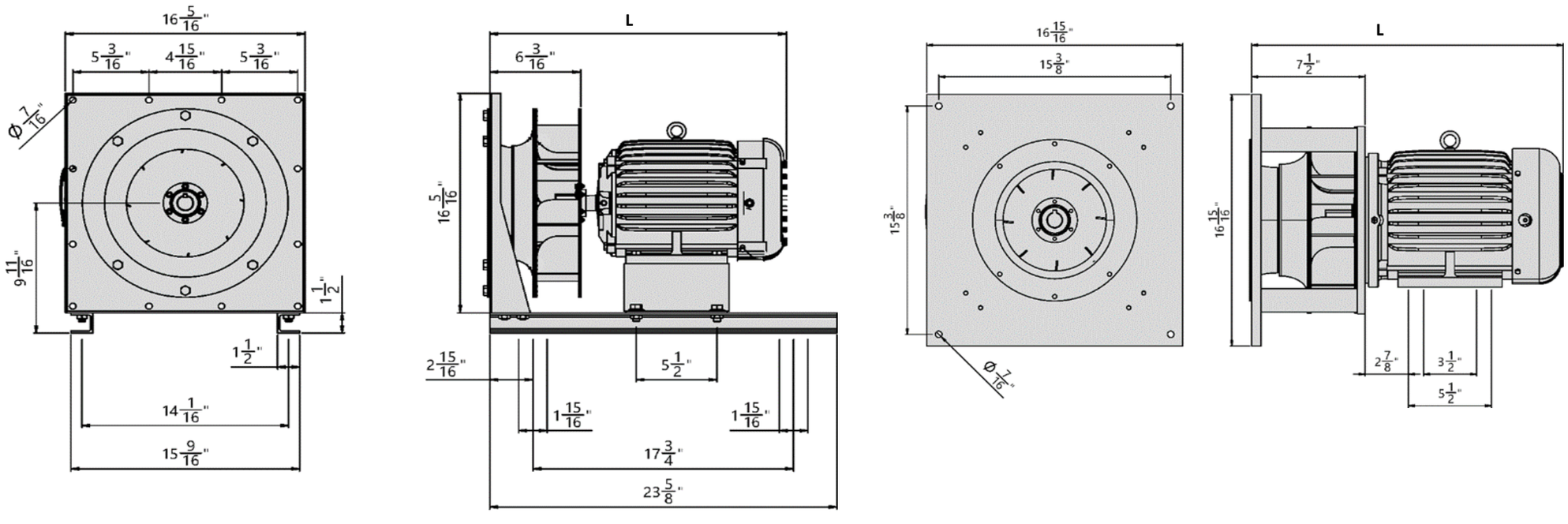
- Performance certified is for installation type A: free inlet, free outlet
- Performance ratings do not include the effects of appurtenances (accessories)
- The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for outlet LwoA sound power levels for installation type A: free inlet, free outlet

n [rpm]	u [m/s]	η Korr
4900 rpm	74.4 m/s	1
4300 rpm	65.3 m/s	1
3800 rpm	57.7 m/s	0.99
3300 rpm	50.1 m/s	0.99
2800 rpm	42.5 m/s	0.99
2300 rpm	34.9 m/s	0.98
1800 rpm	27.3 m/s	0.98
1500 rpm	22.8 m/s	0.97
1100 rpm	16.7 m/s	0.97

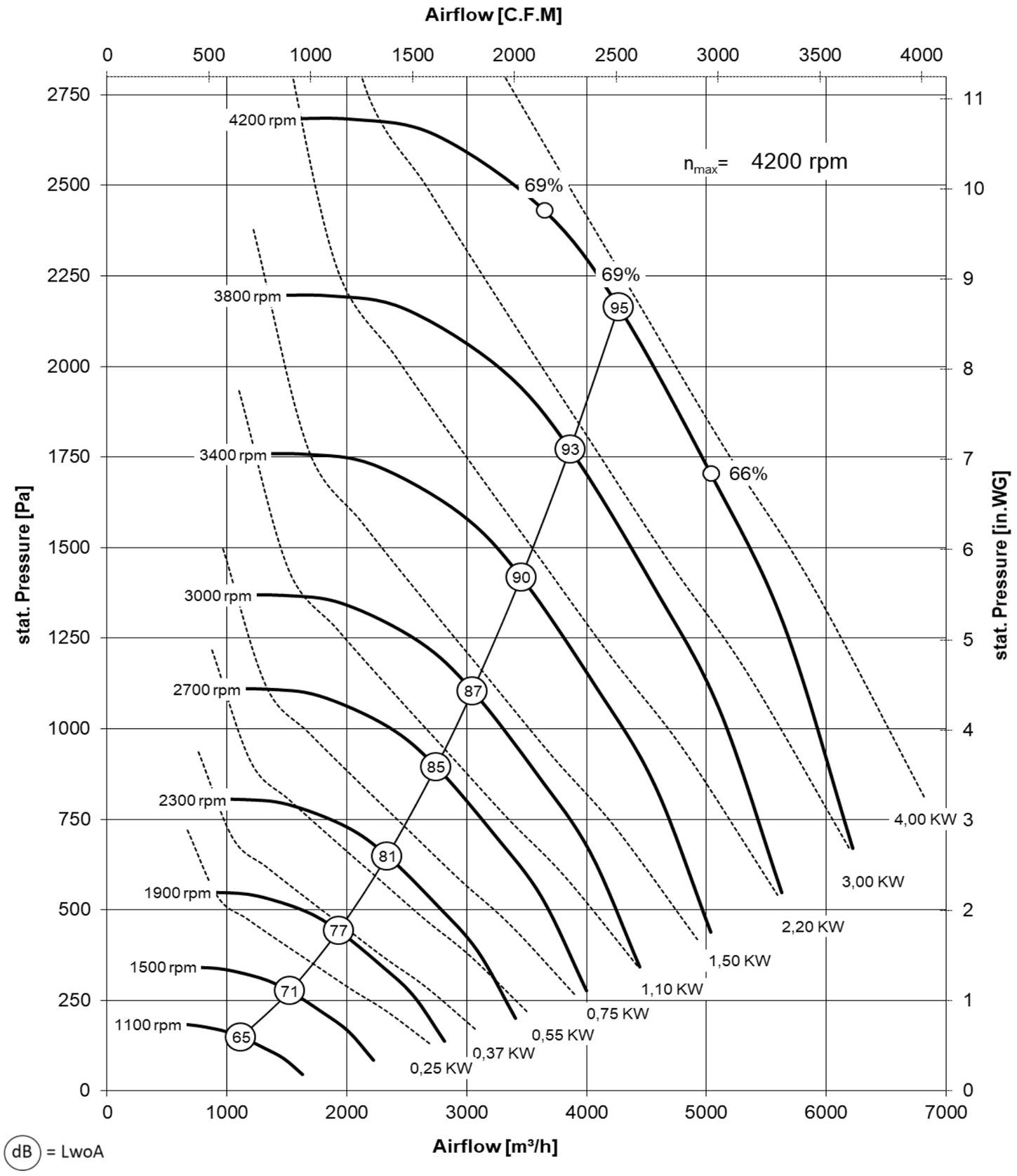
Calibration factor k_{10} = 63

Fan outlet area = 0,86 ft²

	Typ of fan	Type of motor	n_N [rpm]	P_N [HP]	I_N [A]	f_{max} [Hz]	n_{max} [rpm]	DKN**B** size "L" inch	DKN**M** size "L" inch
Alu	DKN_ 280-4KB.080.N56	56	1730	0.75	2.20	94	2705	15 7/8"	18 1/4"
	DKN_ 280-2KB.080.N143	143	3465	1.00	2.70	52	2975	17 3/8"	17 3/4"
	DKN_ 280-2KB.080.N143	143	3465	1.50	4.00	59	3405	17 3/8"	17 3/4"
	DKN_ 280-2KB.080.N145	145	3465	2.00	5.00	65	3750	18 3/16"	18 11/16"
	DKN_ 280-2KB.080.N182	182	3490	3.00	7.10	74	4290	19 5/16"	19 9/16"
	DKN_ 280-2KB.080.N184	184	3480	5.00	11.40	88	5090	20 3/8"	20 5/8"



DKN_B 315 (with IEC motor)



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Performance curve

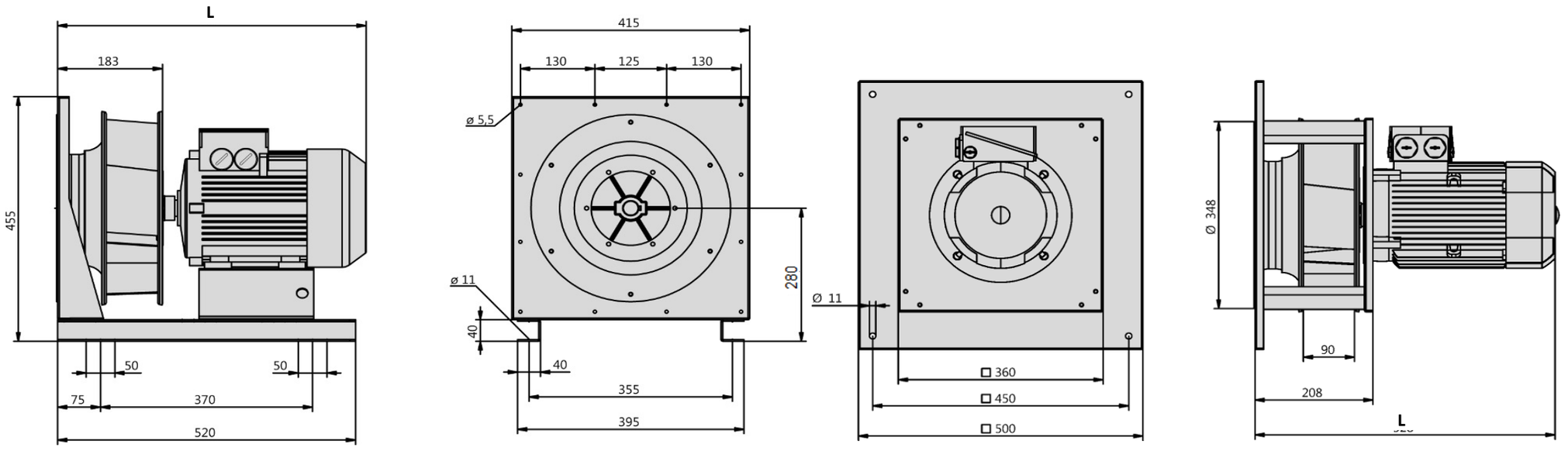
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- Performance ratings do not include the effects of appurtenances (accessories)
- The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for outlet LwoA sound power levels for installation type A: free inlet, free outlet

n [rpm]	u [m/s]	η Korr
4200 rpm	72.8 m/s	1
3800 rpm	65.9 m/s	1
3400 rpm	58.9 m/s	0.99
3000 rpm	52.0 m/s	0.99
2700 rpm	46.8 m/s	0.98
2300 rpm	39.9 m/s	0.98
1900 rpm	32.9 m/s	0.98
1500 rpm	26.0 m/s	0.97
1100 rpm	19.1 m/s	0.97

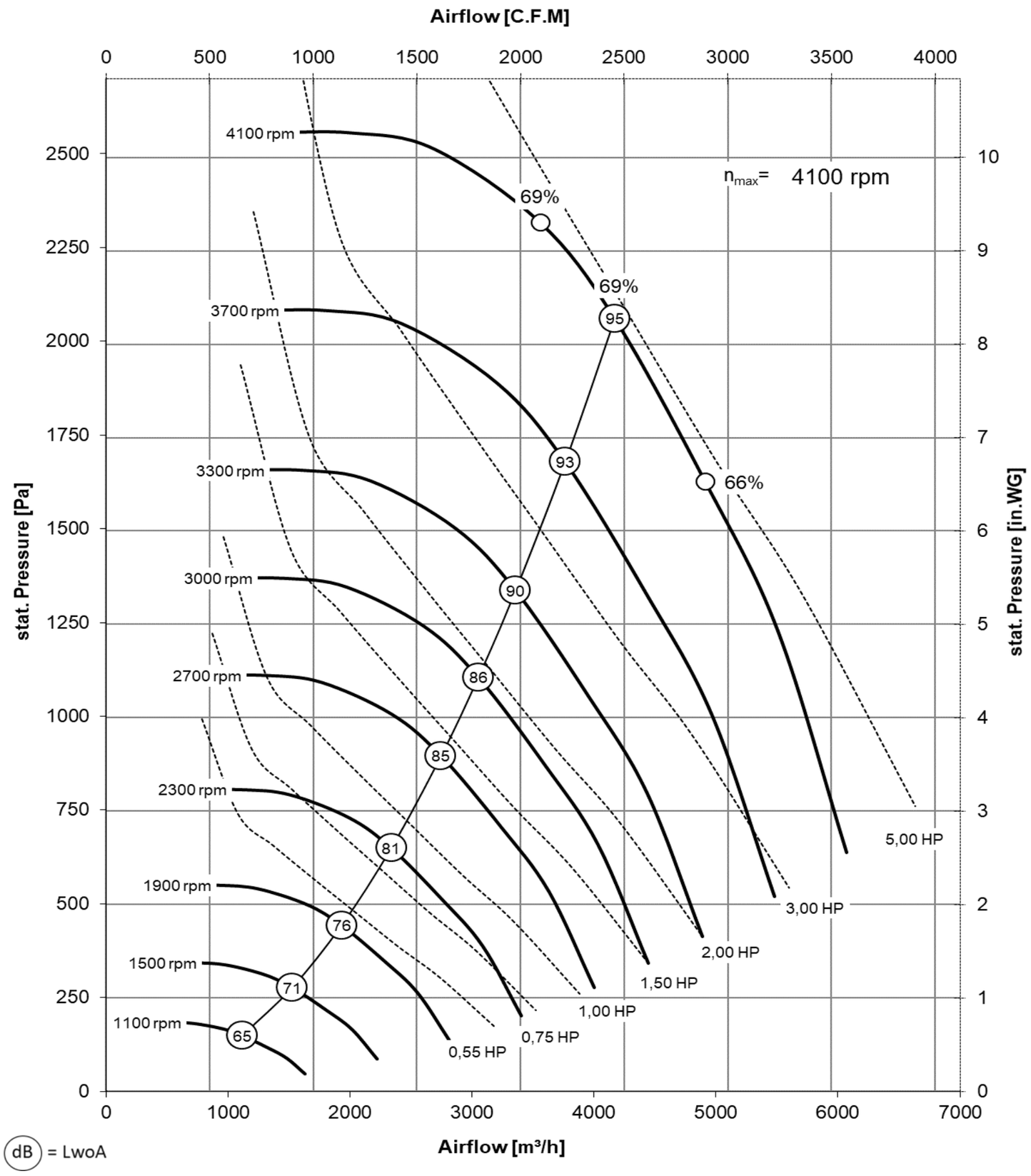
Calibration factor k_{10} = 78

Fan outlet area = 0,101 m²

	Typ of fan	Type of motor	n_N [rpm]	P_N [kW]	I_N [A]	f_{max} [Hz]	n_{max} [rpm]	DKN**B** size "L" mm	DKN**M** size "L" mm
Alu	DKN_315-4KB.090._08	80M-4	1395	0.55	1.46	81	2260	443	449
	DKN_315-4KB.090._08	80M-4	1395	0.75	1.91	90	2510	443	449
	DKN_315-2KB.090._08	80M-2	2845	1.10	2.40	50	2870	443	449
	DKN_315-2KB.090._09	90S-2	2860	1.50	3.25	55	3170	482	497
	DKN_315-2KB.090._09	90L-2	2880	2.20	4.55	63	3610	482	497
	DKN_315-2KB.090._10	100L-2	2890	3.00	6.10	69	4000	532	528
	DKN_315-2KB.090._11	112M-2	2905	4.00	7.80	76	4410	539	529



DKN_B 315 (with NEMA motor)



	Typ of fan	Type of Motor	n_N [rpm]	P_N [HP]	I_N [A]	f_{max} [Hz]	n_{max} [rpm]	DKN**B** size "L" inch	DKN**M** size "L" inch
Alu	DKN_315-4KB.090.N56	56	1730	0.75	2.20	76	2205	16 9/16"	19 3/16"
	DKN_315-4KB.090.N143	143	1745	1.00	3.00	83	2425	18 1/16"	18 11/16"
	DKN_315-2KB.090.N143	143	3465	1.50	4.00	48	2775	18 1/16"	18 11/16"
	DKN_315-2KB.090.N145	145	3465	2.00	5.00	53	3055	19"	19 5/8"
	DKN_315-2KB.090.N182	182	3490	3.00	7.10	60	3495	20"	20 1/2"
	DKN_315-2KB.090.N184	184	3480	5.00	11.40	72	4195	21"	21 9/16"

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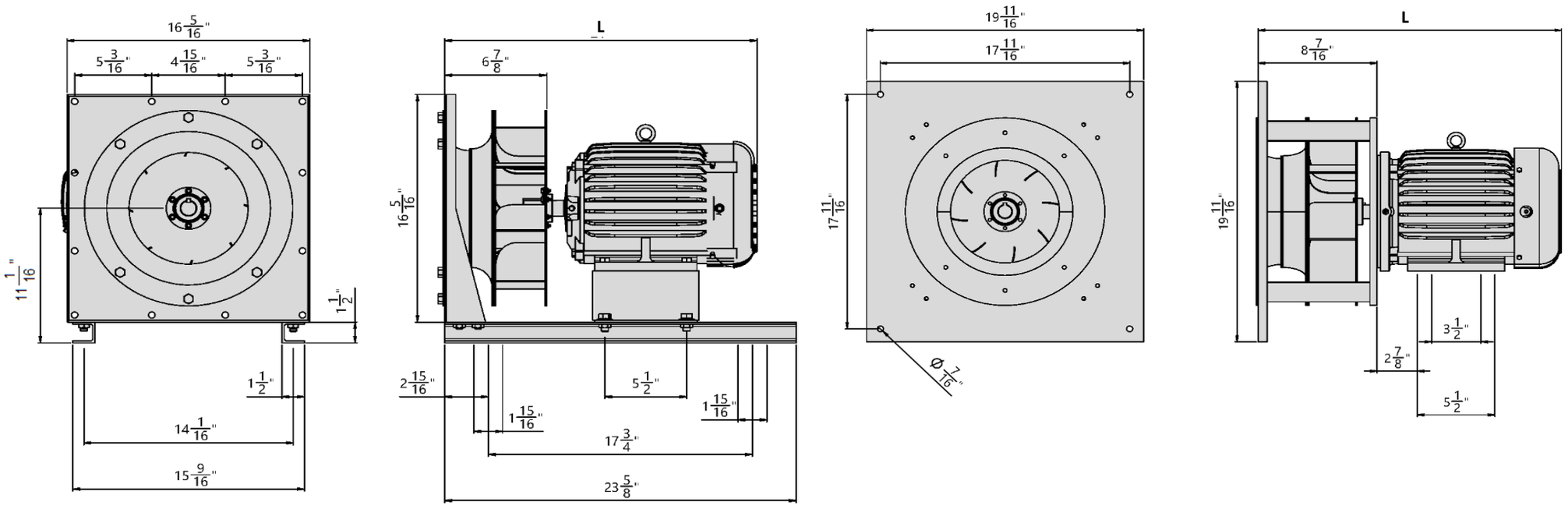
Performance curve

- Performance certified is for installation type A: free inlet, free outlet
- Performance ratings do not include the effects of appurtenances (accessories)
- The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for outlet LwoA sound power levels for installation type A: free inlet, free outlet

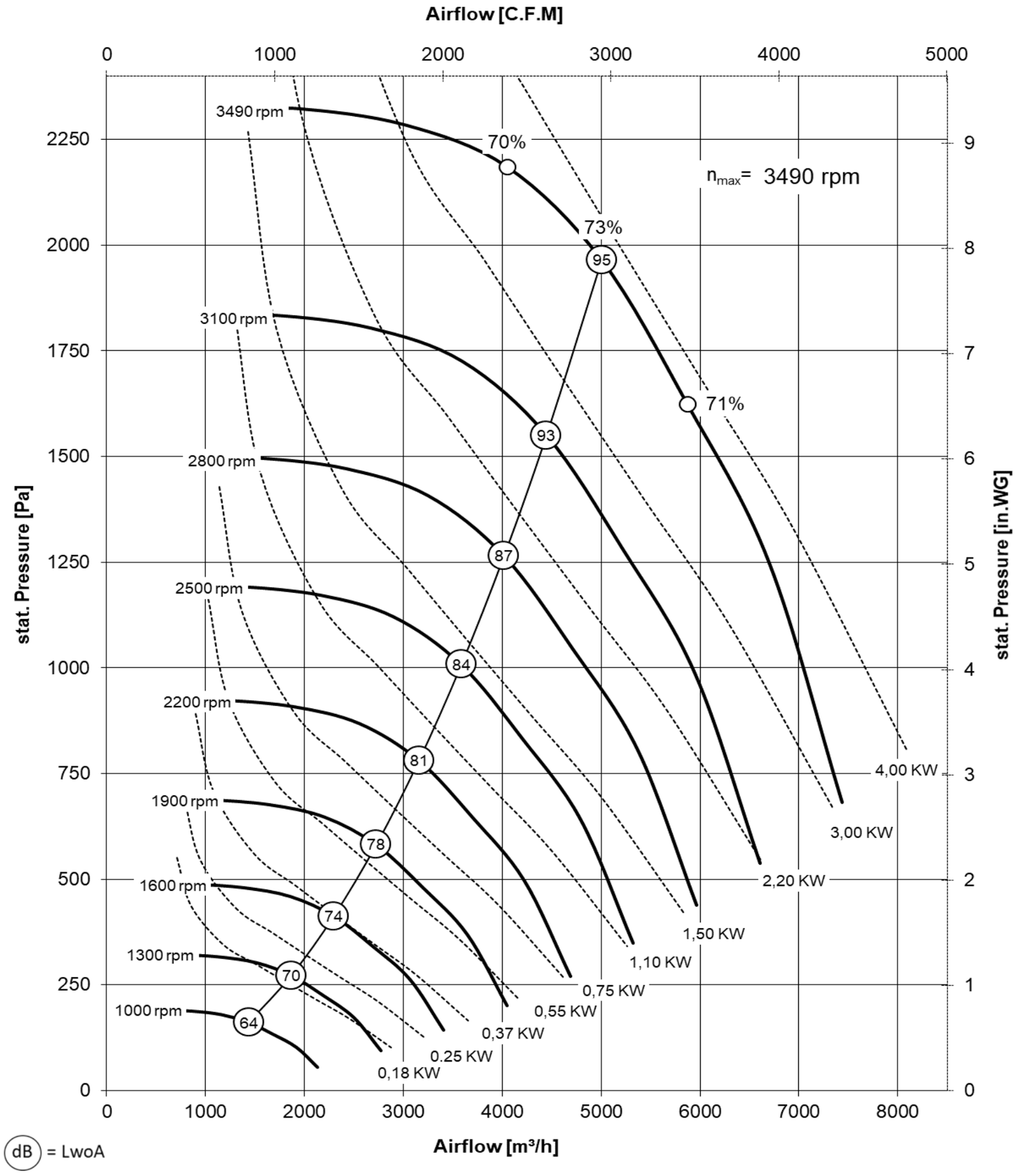
n [rpm]	u [m/s]	η Korr
4100 rpm	71.1 m/s	1
3700 rpm	64.1 m/s	1
3300 rpm	57.2 m/s	0.99
3000 rpm	52.0 m/s	0.99
2700 rpm	46.8 m/s	0.98
2300 rpm	39.9 m/s	0.98
1900 rpm	32.9 m/s	0.98
1500 rpm	26.0 m/s	0.97
1100 rpm	19.1 m/s	0.97

Calibration factor k_{10} = 78

Fan outlet area = 1,09 ft²



DKN_B 355 (with IEC motor)





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Performance curve

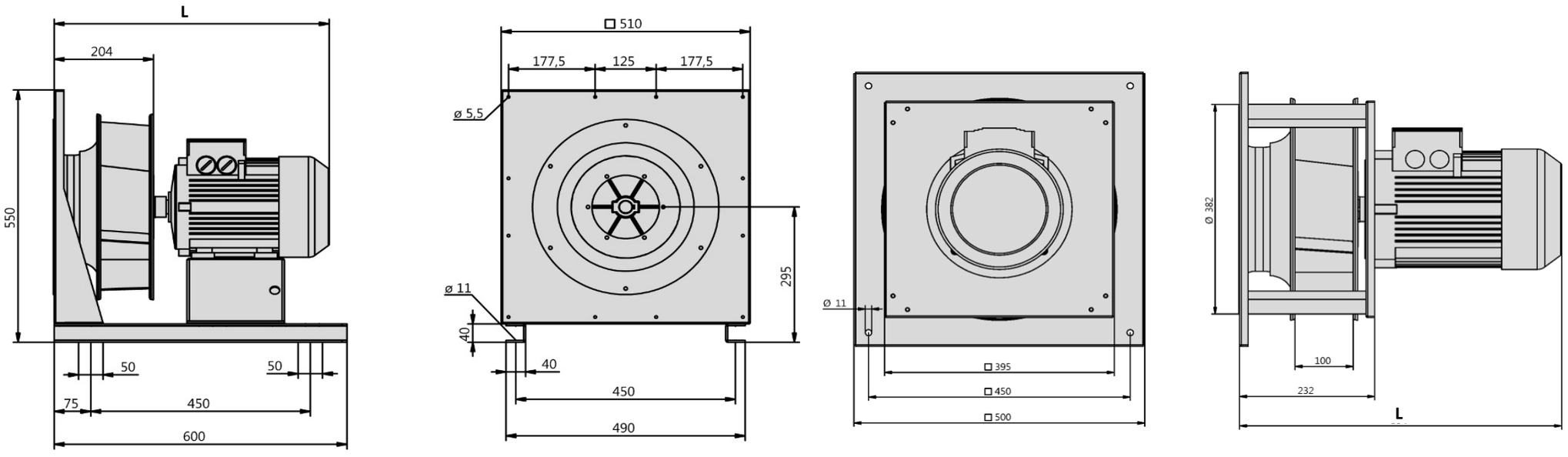
- Performance certified is for installation type A: free inlet, free outlet
- Performance ratings do not include the effects of appurtenances (accessories)
- The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for outlet LwoA sound power levels for installation type A: free inlet, free outlet

n [rpm]	u [m/s]	η Korr
3490 rpm	66.5 m/s	1
3100 rpm	59.1 m/s	1
2800 rpm	53.4 m/s	0.99
2500 rpm	47.6 m/s	0.99
2200 rpm	41.9 m/s	0.99
1900 rpm	36.2 m/s	0.98
1600 rpm	30.5 m/s	0.98
1300 rpm	24.8 m/s	0.98
1000 rpm	19.1 m/s	0.97

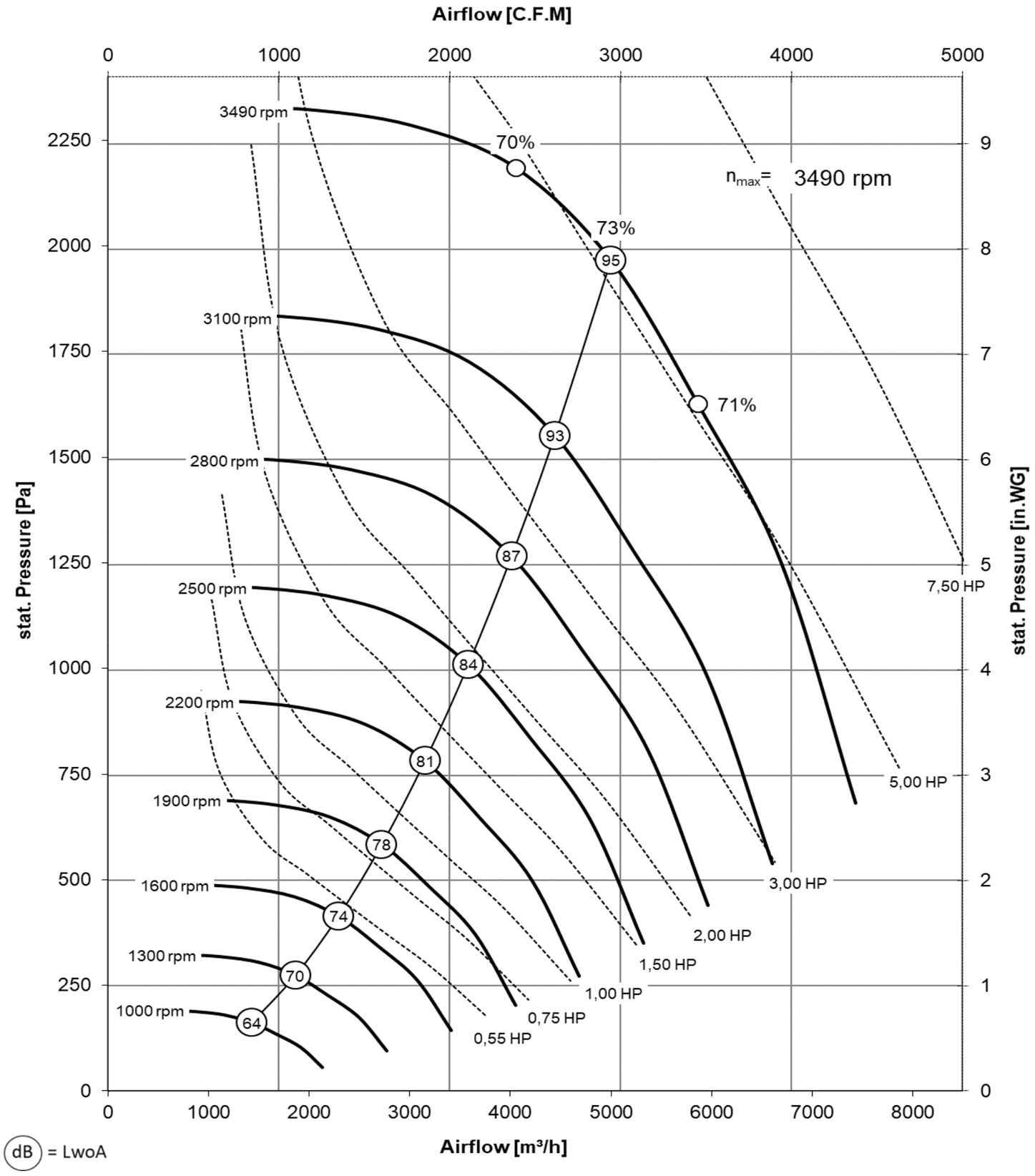
Calibration factor k_{10} = 100

Fan outlet area = 0,125 m²

	Typ of fan	Type of motor	n_N [rpm]	P_N [kW]	I_N [A]	f_{max} [Hz]	n_{max} [rpm]	DKN**B** size "L" mm	DKN**M** size "L" mm
Alu	DKN_355-4KB.101._08	80M-4	1395	0.55	1.46	64	1790	459	469
	DKN_355-4KB.101._08	80M-4	1395	0.75	1.91	71	1990	459	469
	DKN_355-4KB.101._09	90S-4	1415	1.10	2.55	80	2260	502	517
	DKN_355-4KB.101._09	90L-4	1420	1.50	3.40	88	2510	502	517
	DKN_355-2KB.101._09	90L-2	2880	2.20	4.55	50	2875	502	517
	DKN_355-2KB.101._10	100L-2	2890	3.00	6.10	55	3170	557	552
	DKN_355-2KB.101._11	112M-2	2905	4.00	7.80	60	3490	564	554



DKN_B 355 (with NEMA motor)



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Performance curve

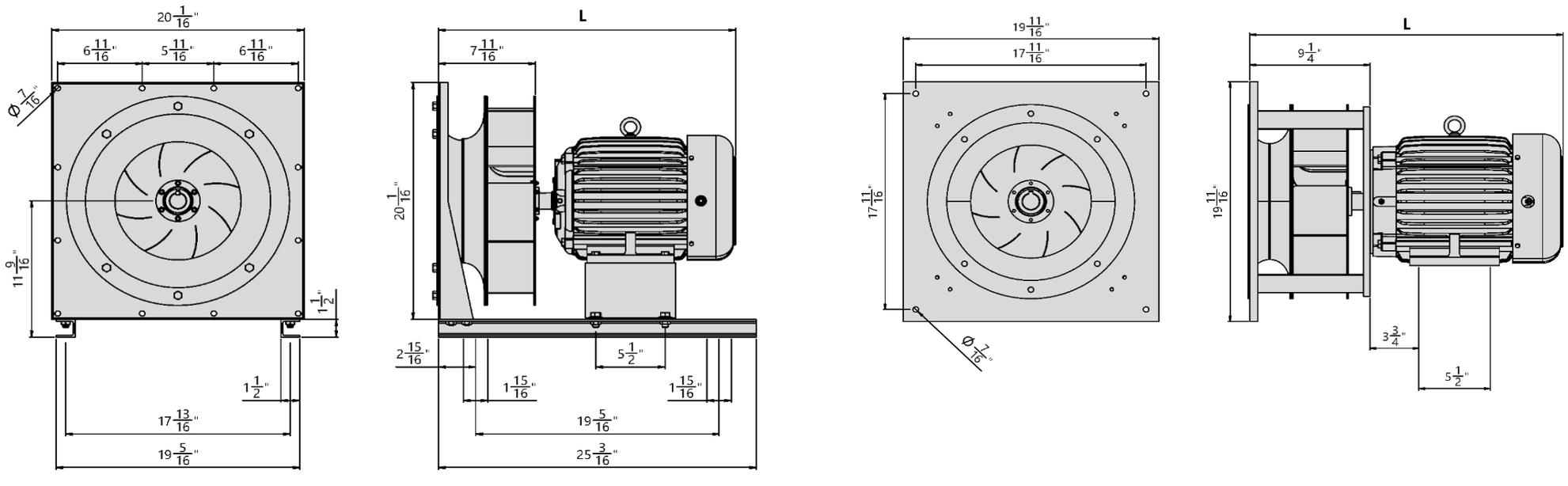
- Performance certified is for installation type A: free inlet, free outlet
- Performance ratings do not include the effects of appurtenances (accessories)
- The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for outlet LwoA sound power levels for installation type A: free inlet, free outlet

n [rpm]	u [m/s]	η Korr
3490 rpm	66.5 m/s	1
3100 rpm	59.1 m/s	1
2800 rpm	53.4 m/s	0.99
2500 rpm	47.6 m/s	0.99
2200 rpm	41.9 m/s	0.98
1900 rpm	36.2 m/s	0.98
1600 rpm	30.5 m/s	0.98
1300 rpm	24.8 m/s	0.97
1000 rpm	19.1 m/s	0.97

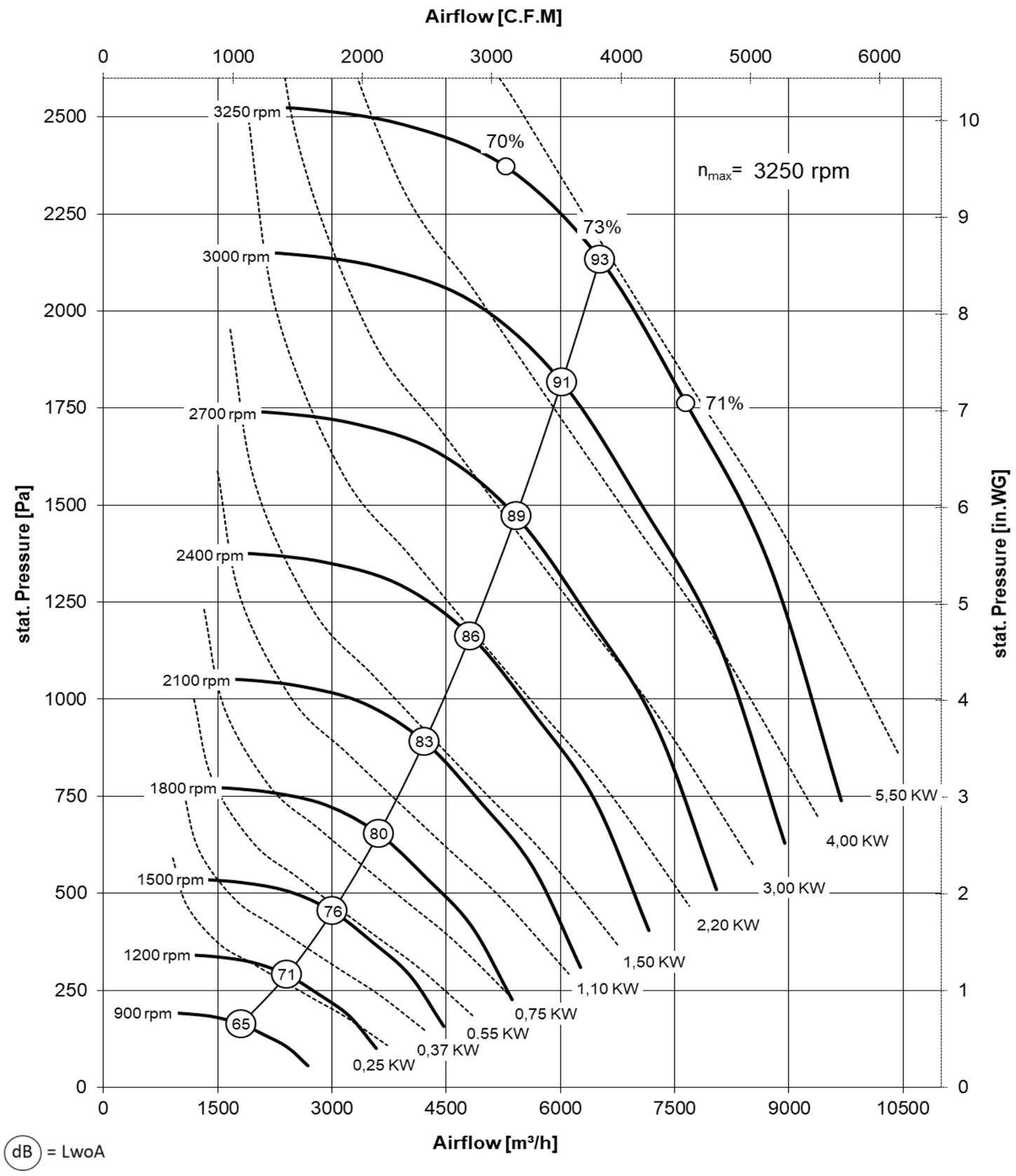
Calibration factor k_{10} = 100

Fan outlet area = 1,35 ft²

	Typ of fan	Type of Motor	n_N [rpm]	P_N [HP]	I_N [A]	f_{max} [Hz]	n_{max} [rpm]	DKN**B** size "L" inch	DKN**M** size "L" inch
Alu	DKN_355-4KB.101.N56	56	1730	0.75	2.2	64	1835	17 3/8"	20"
	DKN_355-4KB.101.N143	143	1745	1.00	3.00	69	2020	18 7/8"	19 1/2"
	DKN_355-4KB.101.N145	145	1730	1.50	4.20	80	2310	19 3/16"	20 7/16"
	DKN_355-4KB.101.N145	145	1740	2.00	5.60	88	2545	19 3/16"	20 7/16"
	DKN_355-2KB.101.N182	182	3490	3.00	7.10	50	2910	20 13/16"	21 5/16"
	DKN_355-2KB.101.N184	184	3480	5.00	11.40	59	3450	21 13/16"	22 3/8"
	DKN_355-2KB.101.N213	213	3510	7.50	17.30	68	3950	23 9/16"	24 1/8"



DKN_B 400 (with IEC motor)



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Performance curve

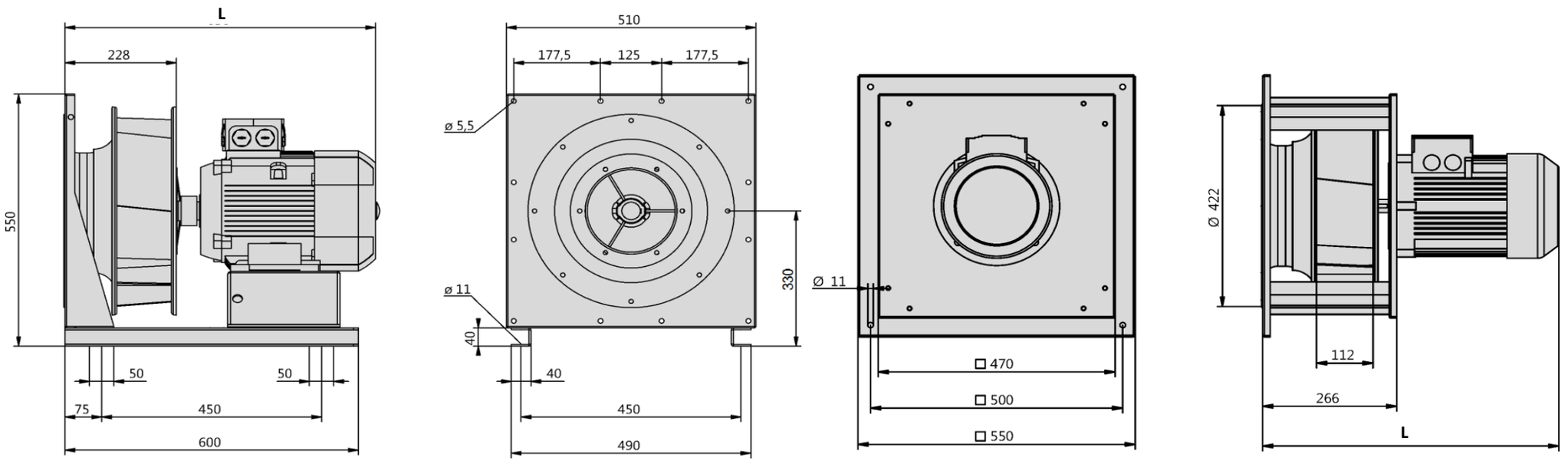
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- Performance ratings do not include the effects of appurtenances (accessories)
- The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for outlet LwoA sound power levels for installation type A: free inlet, free outlet

n [rpm]	u [m/s]	η Korr
3250 rpm	68.1 m/s	1
3000 rpm	62.8 m/s	1
2700 rpm	56.5 m/s	1
2400 rpm	50.3 m/s	0.99
2100 rpm	44.0 m/s	0.99
1800 rpm	37.7 m/s	0.98
1500 rpm	31.4 m/s	0.98
1200 rpm	25.1 m/s	0.98
900 rpm	18.8 m/s	0.97

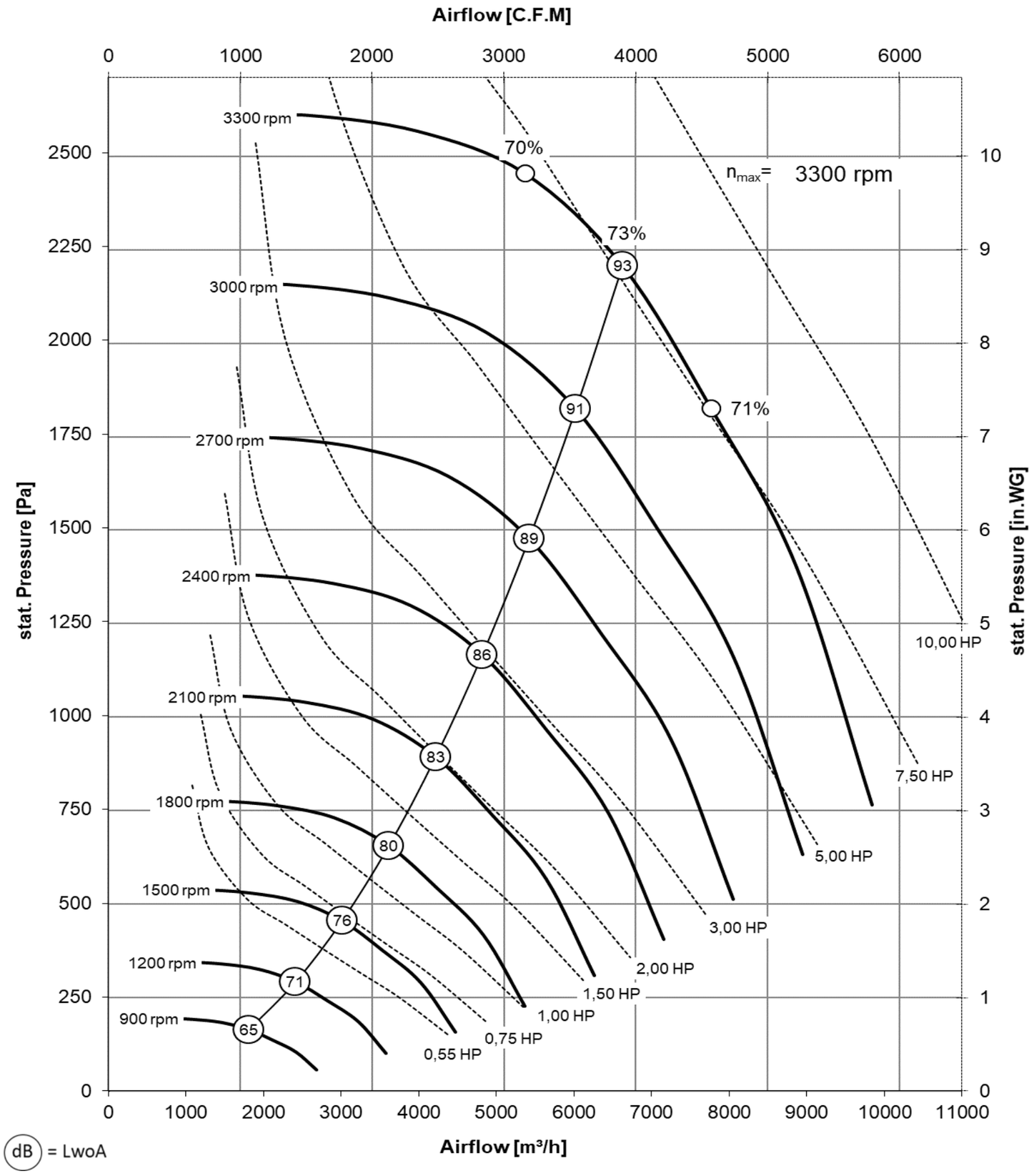
Calibration factor k_{10} = 131

Fan outlet area = 0,160 m²

	Typ of fan	Type of motor	n_N [rpm]	P_N [kW]	I_N [A]	f_{max} [Hz]	n_{max} [rpm]	DKN**B** size "L" mm	DKN**M** size "L" mm
Alu	DKN_400-4KB.112._08	80M-4	1395	0.75	1.91	61	1690	490	497
	DKN_400-4KB.112._09	90S-4	1395	1.10	2.55	69	1920	544	545
	DKN_400-4KN.112._09	90L-4-1	1415	1.50	3.40	76	2140	544	545
	DKN_400-4KB.112._10	100L-4	1420	2.20	4.70	86	2430	581	583
	DKN_400-4KB.112._10	100L-4	1420	3.00	6.40	95	2700	581	583
	DKN_400-2KB.112._11	112M-2	2905	4.00	7.80	51	2970	597	587
	DKN_400-2KB.112._13	132S-2	2925	5.50	10.40	56	3300	636	652



DKN_B 400 (with NEMA motor)



	Typ of fan	Type of motor	n_N [rpm]	P_N [HP]	I_N [A]	f_{max} [Hz]	n_{max} [rpm]	DKN**B** size "L" inch	DKN**M** size "L" inch
	DKN_400-4KB.112.N143	143	1745	1.00	3.00	58	1690	19 3/4"	20 7/8"
	DKN_400-4KB.112.N145	145	1730	1.50	4.20	67	1965	20 11/16"	21 13/16"
	DKN_400-4KB.112.N145	145	1740	2.00	5.60	73	2140	20 11/16"	21 13/16"
Alu	DKN_400-4KB.112.N182	182	1755	3.00	7.50	83	2430	21 11/16"	22 11/16"
	DKN_400-2KB.112.N184	184	3480	5.00	11.40	49	2840	22 11/16"	23 3/4"
	DKN_400-2KB.112.N213	213	3510	7.50	17.30	56	3280	24 7/16"	25 1/2"
	DKN_400-2KB.112.N215	215	3510	10.00	23.00	62	3610	25 15/16"	27"

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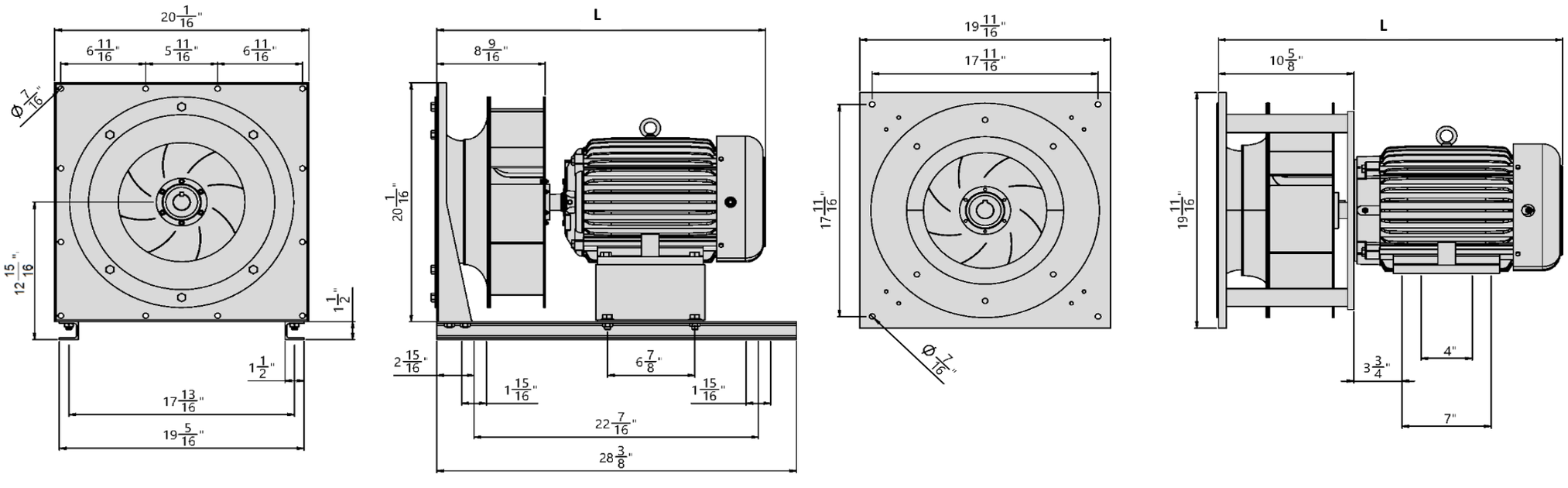
Performance curve

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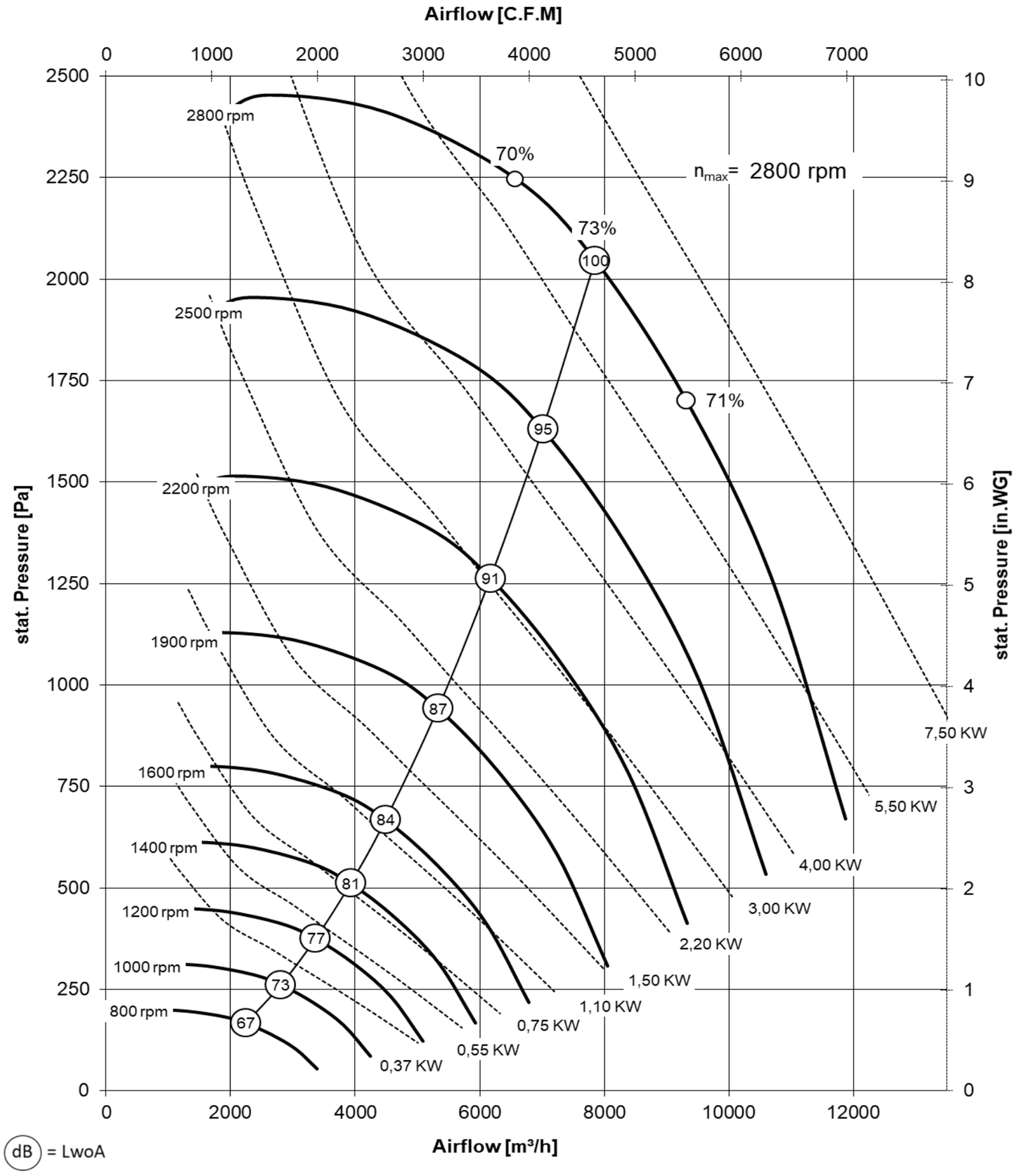
n [rpm]	u [m/s]	η Korr
3300 rpm	69.1 m/s	1
3000 rpm	62.8 m/s	1
2700 rpm	56.5 m/s	1
2400 rpm	50.3 m/s	0.99
2100 rpm	44.0 m/s	0.99
1800 rpm	37.7 m/s	0.99
1500 rpm	31.4 m/s	0.98
1200 rpm	25.1 m/s	0.98
900 rpm	18.8 m/s	0.97

Calibration factor k_{10} = 131

Fan outlet area = 1,72 ft²



DKN_B 450 (with IEC motor)



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Performance curve

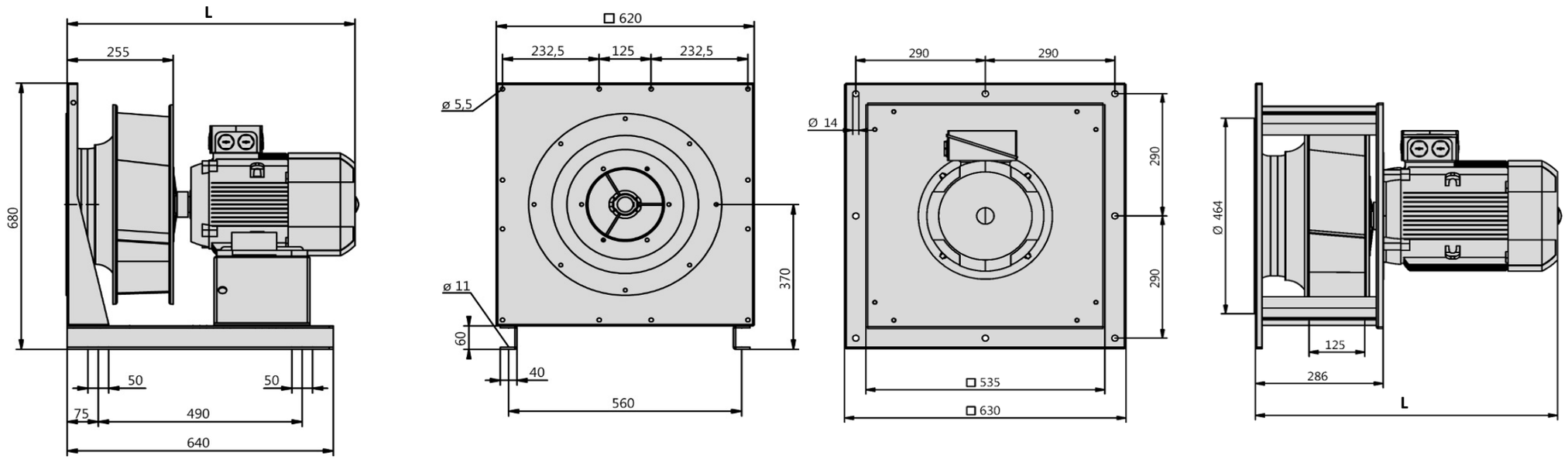
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- The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for outlet LwoA sound power levels for installation type A: free inlet, free outlet

n [rpm]	u [m/s]	η Korr
2800 rpm	68.5 m/s	1
2500 rpm	61.1 m/s	1
2200 rpm	53.8 m/s	1
1900 rpm	46.5 m/s	0.99
1600 rpm	39.1 m/s	0.99
1400 rpm	34.2 m/s	0.98
1200 rpm	29.3 m/s	0.98
1000 rpm	24.5 m/s	0.98
800 rpm	19.6 m/s	0.97

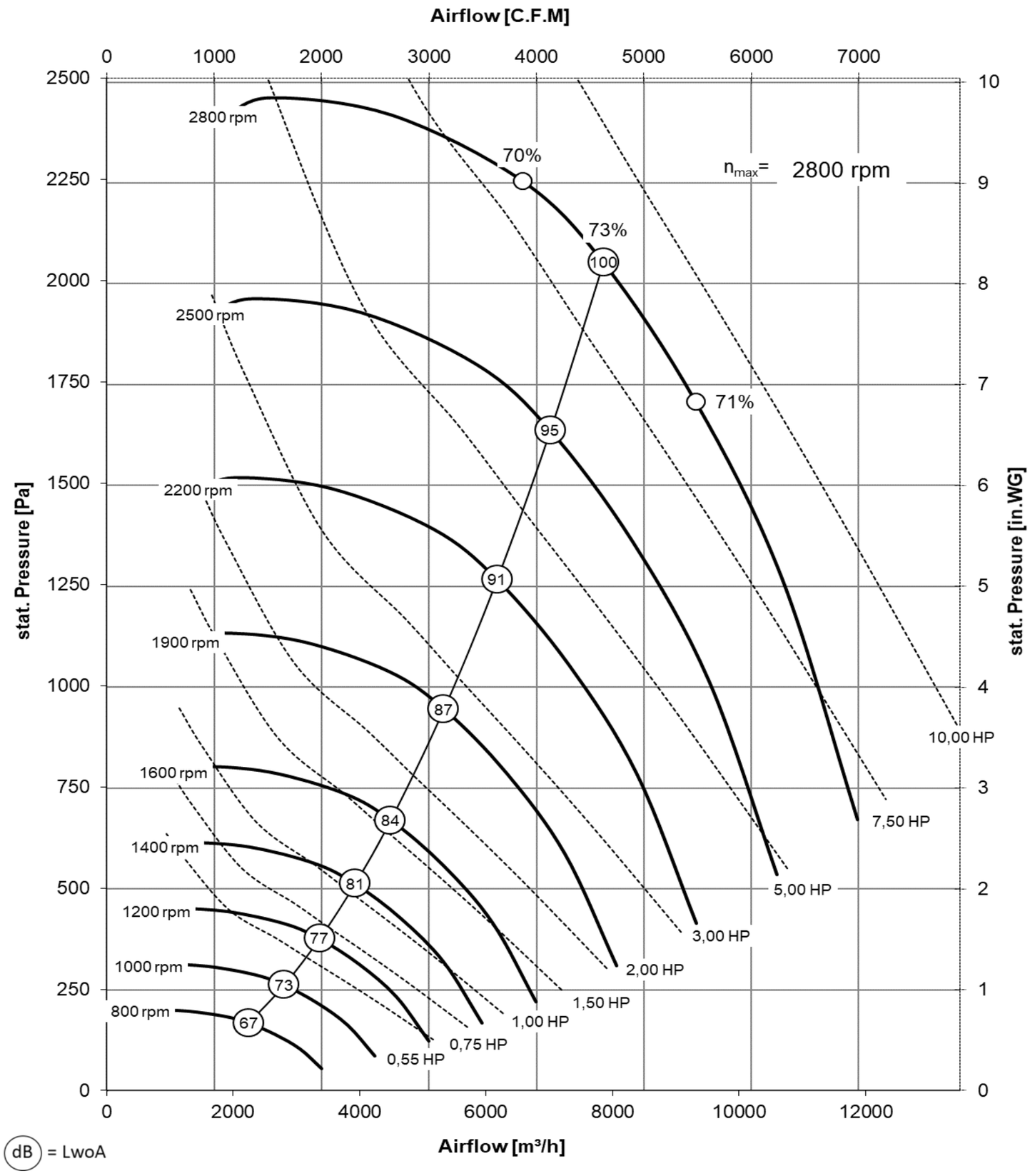
Calibration factor k_{10} = 170

Fan outlet area = 0,201 m²

	Typ of fan	Type of motor	n_N [rpm]	P_N [kW]	I_N [A]	f_{max} [Hz]	n_{max} [rpm]	DKN**B** size "L" mm	DKN**M** size "L" mm
Alu	DKN_450-4KB.125._09	90S-4	1415	1.10	2.55	56	1580	568	573
	DKN_450-4KB.125._09	90L-4-1	1420	1.50	3.40	62	1760	568	573
	DKN_450-4KB.125._10	100L-4	1420	2.20	4.70	70	2000	622	611
	DKN_450-4KB.125._10	100L-4	1420	3.00	6.40	78	2210	622	611
	DKN_450-4KB.125._11	112M-4	1440	4.00	8.20	85	2440	624	612
	DKN_450-4KB.125._13	132S-4	1455	5.50	11.40	93	2710	692	677
	DKN_450-4KB.125._13	132M-4	1455	7.50	15.20	96	2800	692	677



DKN_B 450 (with NEMA motor)



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Performance curve

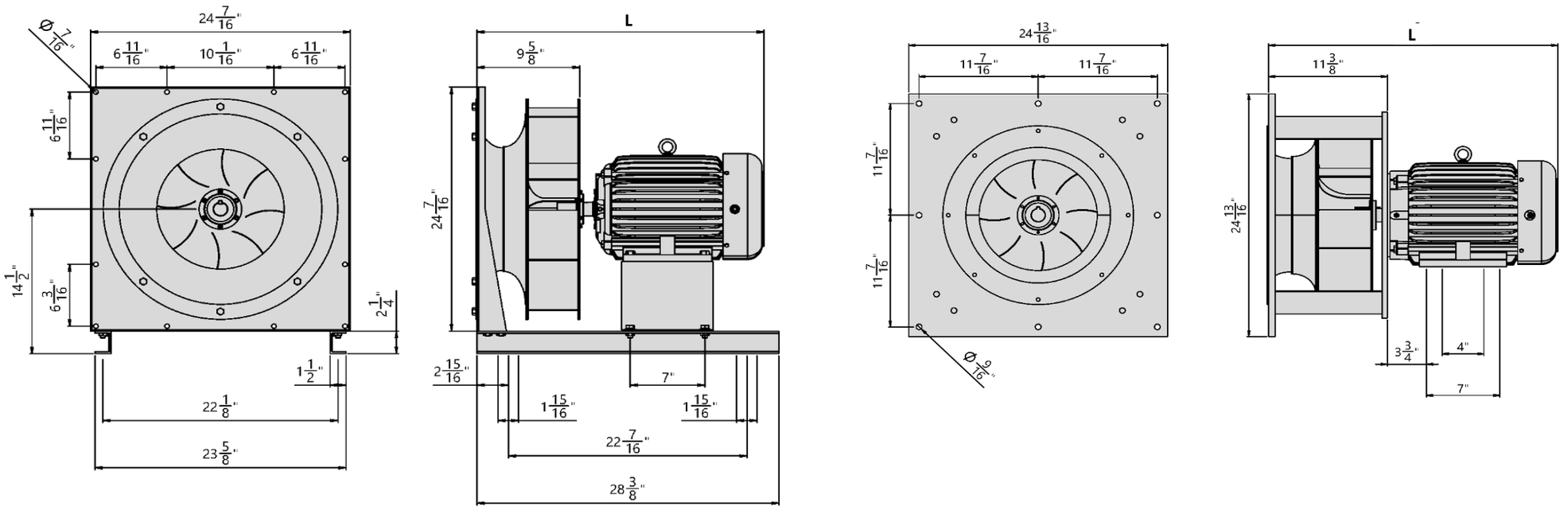
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n [rpm]	u [m/s]	η Korr
2800 rpm	68.5 m/s	1
2500 rpm	61.1 m/s	1
2200 rpm	53.8 m/s	1
1900 rpm	46.5 m/s	0.99
1600 rpm	39.1 m/s	0.99
1400 rpm	34.2 m/s	0.98
1200 rpm	29.3 m/s	0.98
1000 rpm	24.5 m/s	0.98
800 rpm	19.6 m/s	0.97

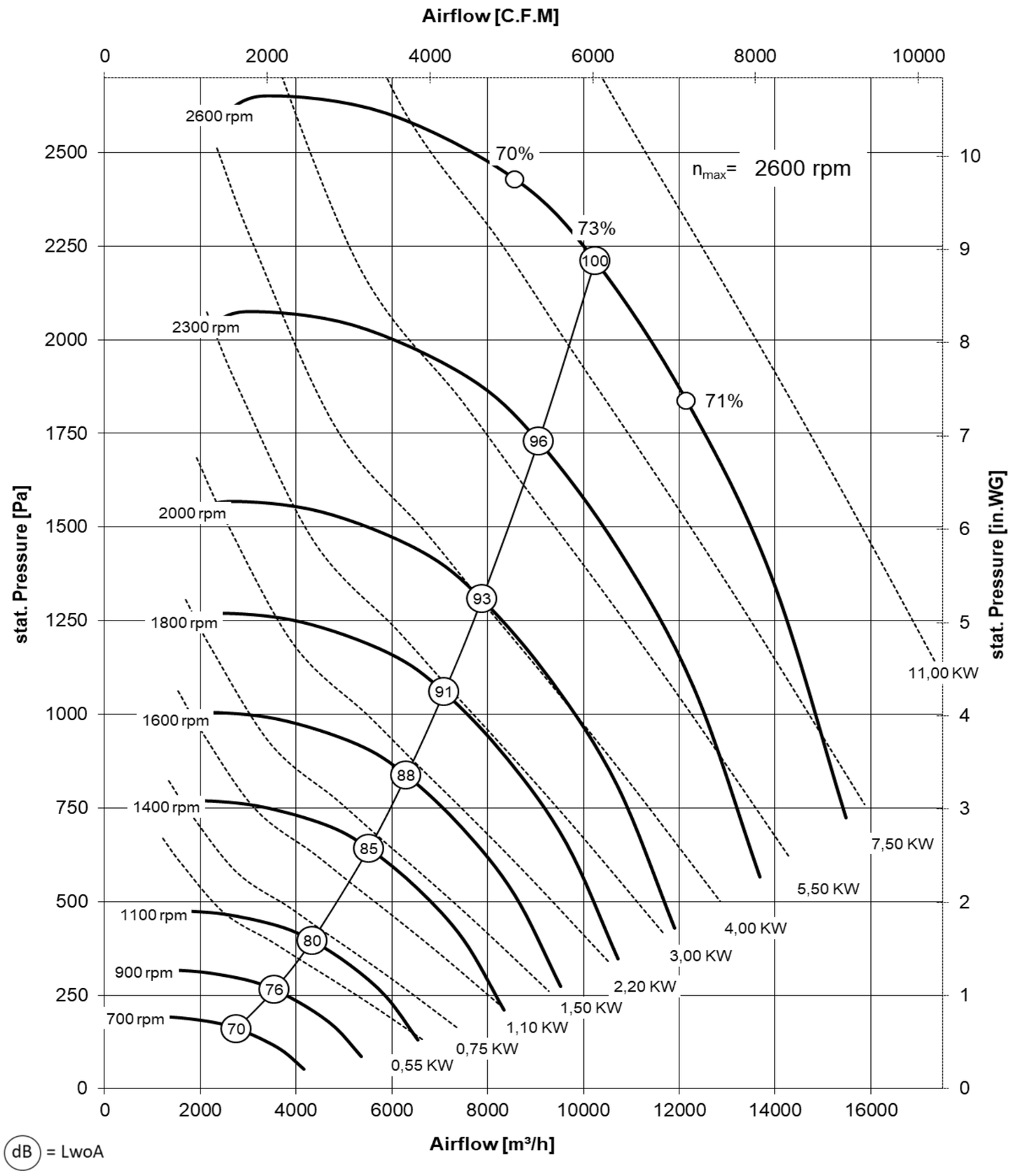
Calibration factor k_{10} = 170

Fan outlet area = 2,16 ft²

	Typ of fan	Type of motor	n_N [rpm]	P_N [HP]	I_N [A]	f_{max} [Hz]	n_{max} [rpm]	DKN**B** size "L" inch	DKN**M** size "L" inch
Alu	DKN_450-4KB.125.N143	143	1745	1.00	3.00	47	1375	20 13/16"	21 5/8"
	DKN_450-4KB.125.N145	145	1730	1.50	4.20	55	1575	21 3/4"	22 9/16"
	DKN_450-4KB.125.N145	145	1740	2.00	5.60	60	1730	21 3/4"	22 9/16"
	DKN_450-4KB.125.N182	182	1755	3.00	7.50	68	1980	22 3/4"	23 7/16"
	DKN_450-4KB.125.N184	184	1745	5.00	12.20	81	2350	23 3/4"	24 1/2"
	DKN_450-4KB.125.N213	213	1755	7.50	17.70	92	2690	25 15/16"	26 1/4"
	DKN_450-4KB.125.N215	215	1755	10.00	23.30	102	2960	27"	27 3/4"



DKN_B 500 (with IEC motor)



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Performance curve

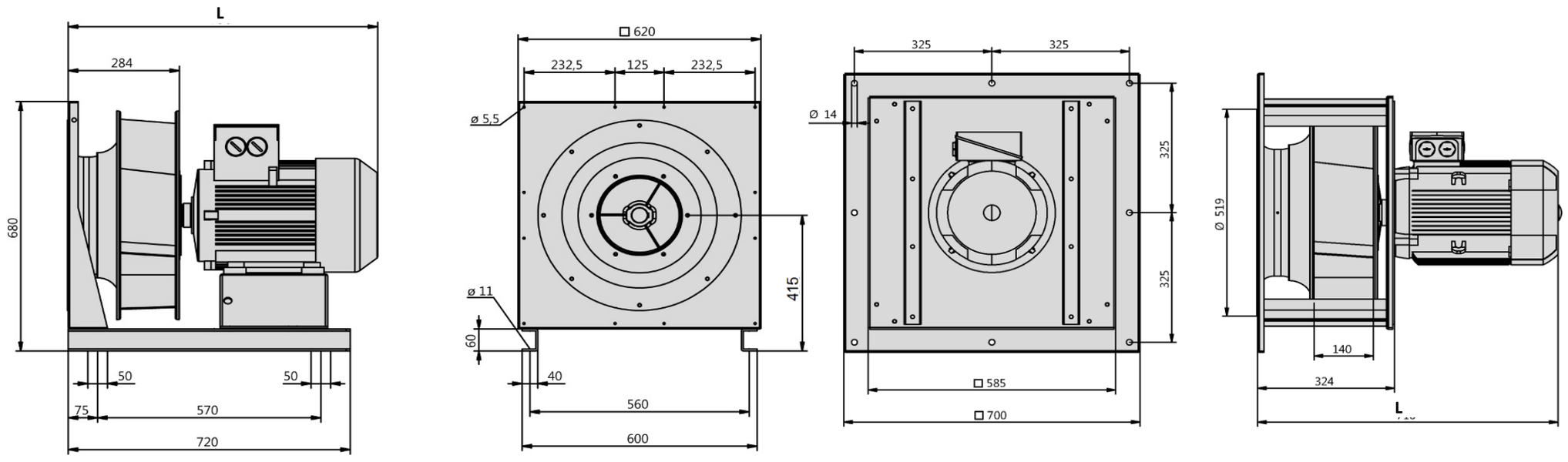
- Performance certified is for installation type A: free inlet, free outlet
- Performance ratings do not include the effects of appurtenances (accessories)
- The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for outlet LwoA sound power levels for installation type A: free inlet, free outlet

n [rpm]	u [m/s]	η Korr
2600 rpm	70.9 m/s	1
2300 rpm	62.7 m/s	1
2000 rpm	54.6 m/s	0.99
1800 rpm	49.1 m/s	0.99
1600 rpm	43.6 m/s	0.99
1400 rpm	38.2 m/s	0.98
1100 rpm	30.0 m/s	0.98
900 rpm	24.6 m/s	0.97
700 rpm	19.1 m/s	0.97

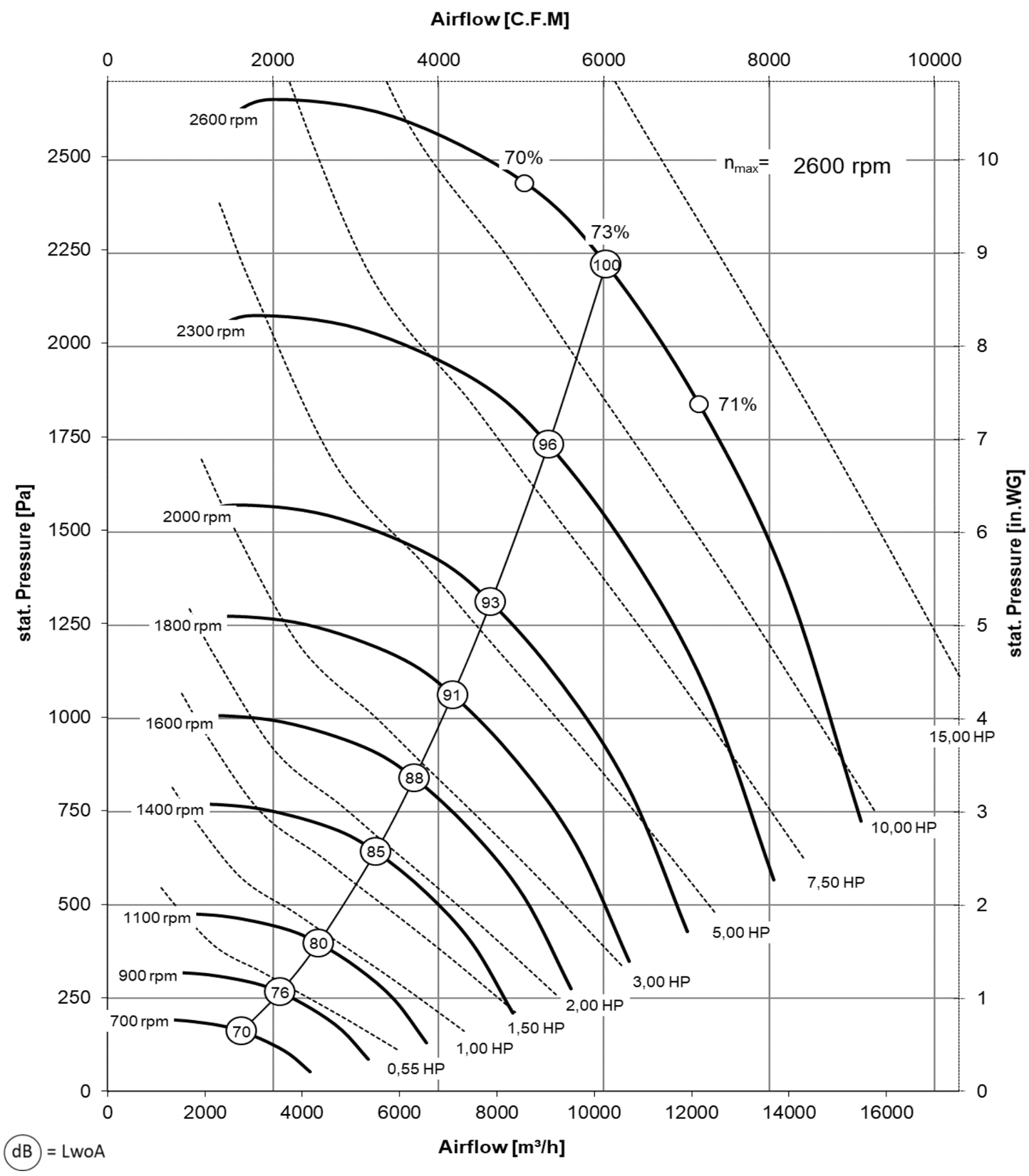
Calibration factor k_{10} = 207

Fan outlet area = 0,250 m²

	Typ of fan	Type of motor	n_N [rpm]	P_N [kW]	I_N [A]	f_{max} [Hz]	n_{max} [rpm]	DKN**B** size "L" mm	DKN**M** size "L" mm
Alu	DKN_500-6KB.140._09	90L-6	915	1.10	2.85	72	1320	601	603
	DKN_500-4KB.140._09	90L-4	1420	1.50	3.40	51	1460	601	603
	DKN_500-4KB.140._10	100L-4	1420	2.20	4.70	58	1660	639	641
	DKN_500-4KB.140._10	100L-4	1420	3.00	6.40	65	1850	639	641
	DKN_500-4KB.140._11	112M-4	1440	4.00	8.20	70	2030	647	643
	DKN_500-4KB.140._13	132S-4	1455	5.50	11.40	78	2260	713	710
	DKN_500-4KB.140._13	132M-4	1455	7.50	15.20	86	2510	713	710
	DKNB500-4KB.140._16	160M-4	1460	11.00	21.50	89	2600	790	-



DKN_B 500 (with NEMA motor)



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Performance curve

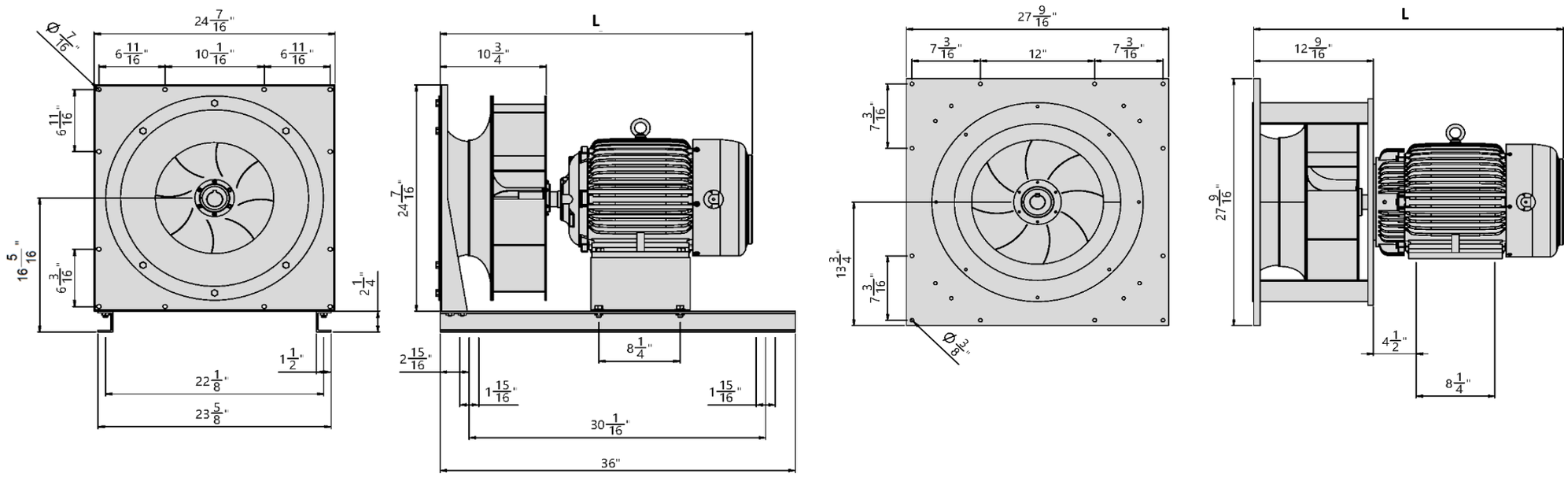
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- Performance ratings do not include the effects of appurtenances (accessories)
- The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for outlet LwoA sound power levels for installation type A: free inlet, free outlet

n [rpm]	u [m/s]	η Korr
2600 rpm	70.9 m/s	1
2300 rpm	62.7 m/s	1
2000 rpm	54.6 m/s	0.99
1800 rpm	49.1 m/s	0.99
1600 rpm	43.6 m/s	0.99
1400 rpm	38.2 m/s	0.98
1100 rpm	30.0 m/s	0.98
900 rpm	24.6 m/s	0.97
700 rpm	19.1 m/s	0.97

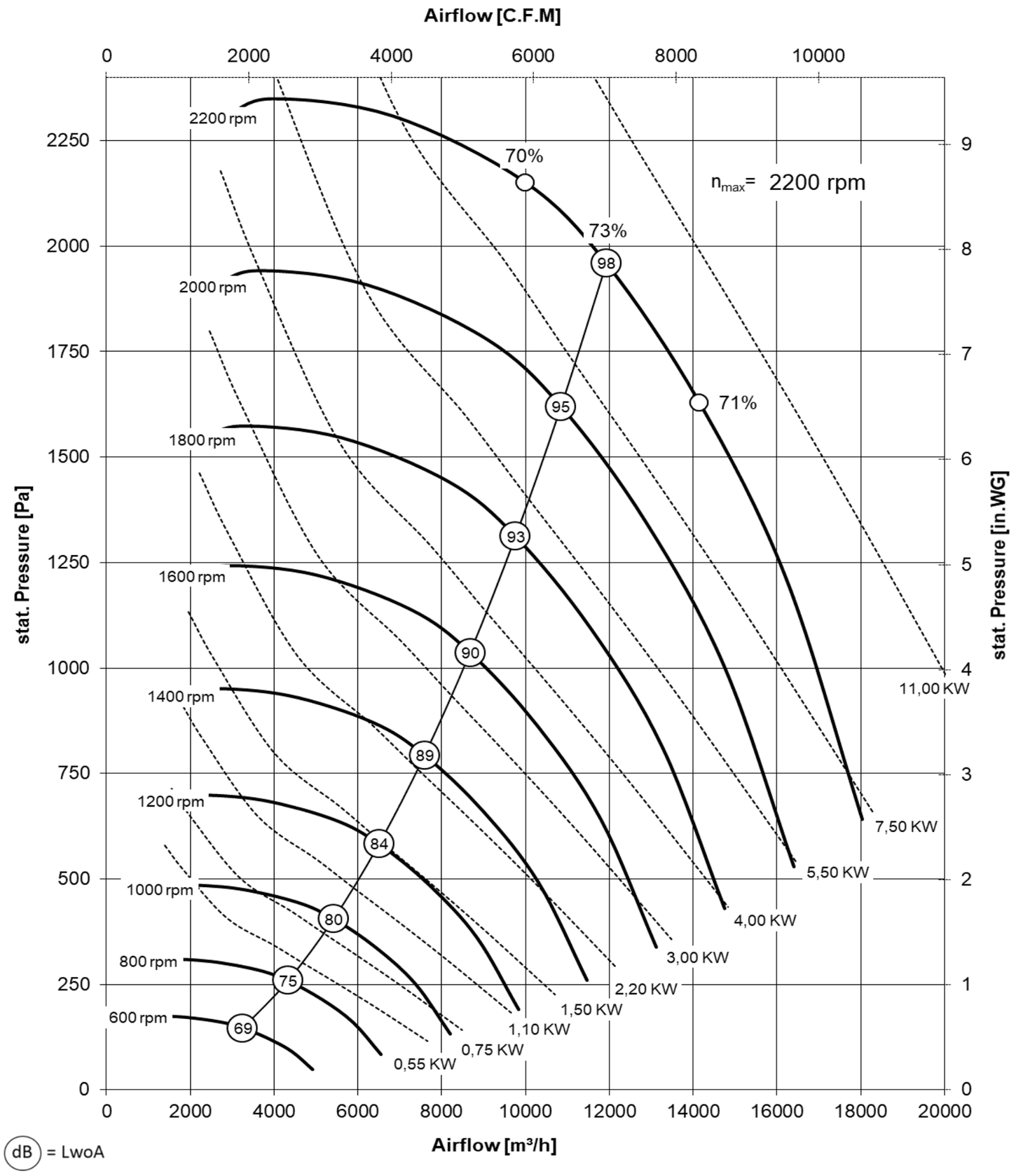
Calibration factor k_{10} = 207

Fan outlet area = 2,69 ft²

	Typ of fan	Type of motor	n_N [rpm]	P_N [HP]	I_N [A]	f_{max} [Hz]	n_{max} [rpm]	DKN**B** size "L" inch	DKN**M** size "L" inch
Alu	DKN_500-6KB.140.N182	182	1170	1.50	5.10	67	1300	23 7/8"	24 11/16"
	DKN_500-4KB.140.N145	145	1740	2.00	5.60	49	1430	22 7/8"	12 9/16"
	DKN_500-4KB.140.N182	182	1755	3.00	7.50	56	1635	23 7/8"	27 11/16"
	DKN_500-4KB.140.N184	184	1745	5.00	12.20	67	1940	24 7/8"	25 3/4"
	DKN_500-4KB.140.N213	213	1755	7.50	17.70	76	2220	26 5/8"	27 1/2"
	DKN_500-4KB.140.N215	215	1755	10.00	23.30	84	2445	28 1/8"	29"
	DKN_500-4KB.140.N254	254	1765	15.00	34.50	95	2795	31 5/8"	32 1/2"



DKN_B 560 (with IEC motor)



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Performance curve

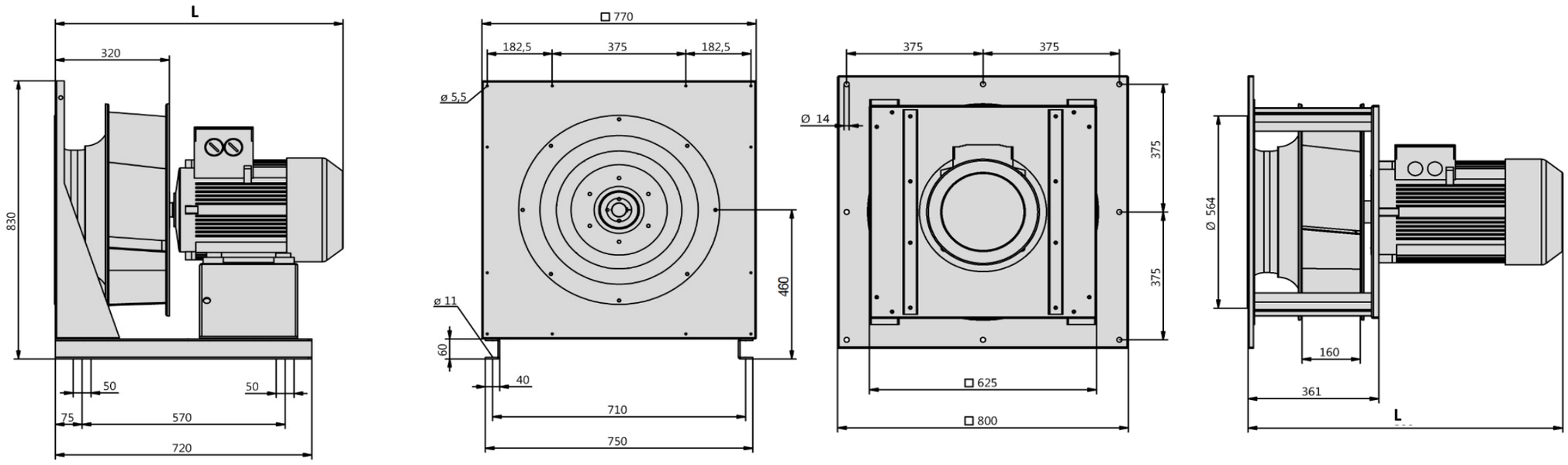
- Performance certified is for installation type A: free inlet, free outlet
- Performance ratings do not include the effects of appurtenances (accessories)
- The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for outlet LwoA sound power levels for installation type A: free inlet, free outlet

n [rpm]	u [m/s]	η Korr
2200 rpm	68.1 m/s	1
2000 rpm	61.9 m/s	1
1800 rpm	55.7 m/s	0.99
1600 rpm	49.5 m/s	0.99
1400 rpm	43.3 m/s	0.98
1200 rpm	37.1 m/s	0.98
1000 rpm	30.9 m/s	0.98
800 rpm	24.8 m/s	0.97
600 rpm	18.6 m/s	0.97

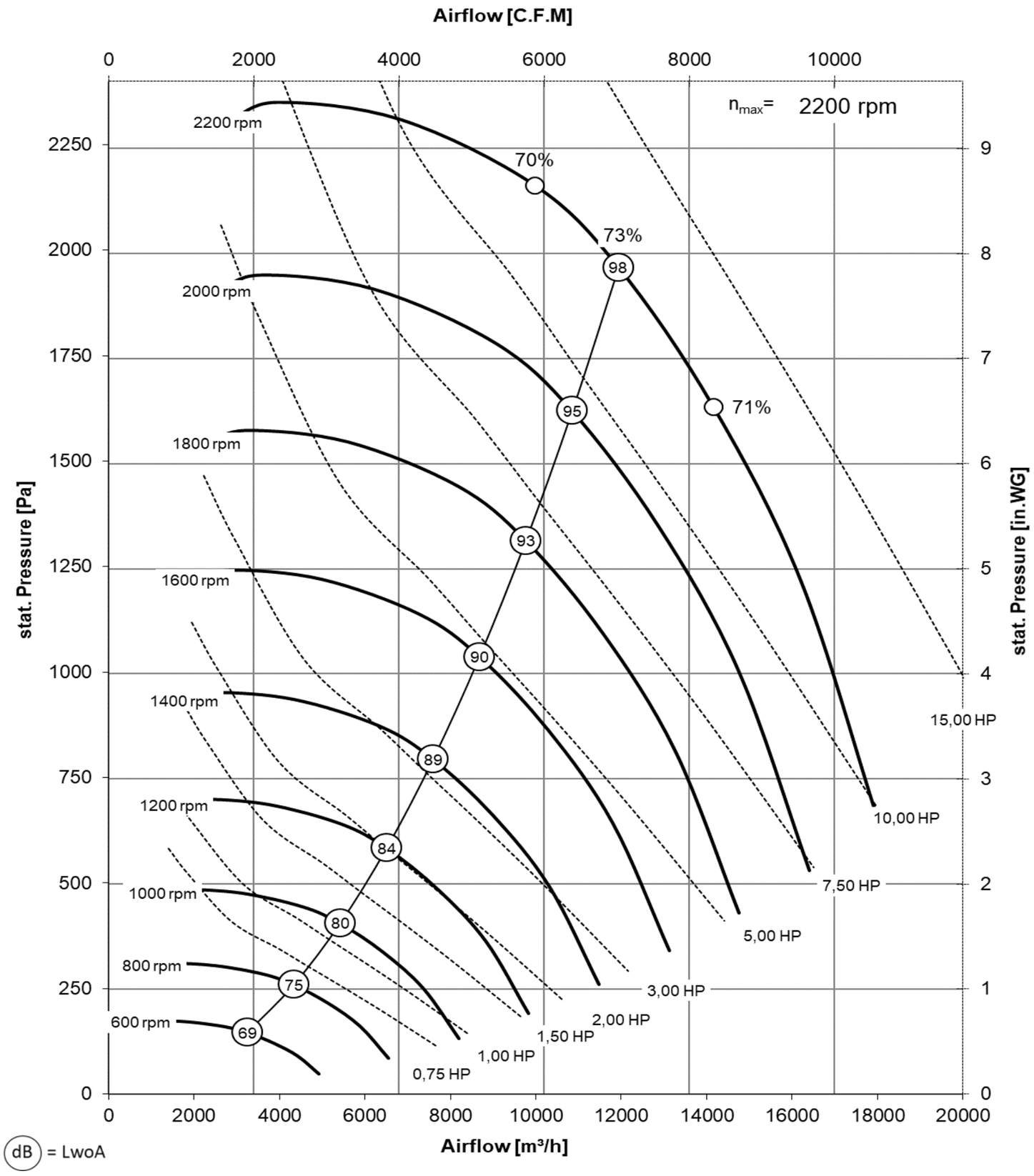
Calibration factor k_{10} = 252

Fan outlet area = 0,314 m²

	Typ of fan	Type of motor	n_N [rpm]	P_N [kW]	I_N [A]	f_{max} [Hz]	n_{max} [rpm]	DKN**B** size "L" mm	DKN**M** size "L" mm
Alu	DKN_560-6KB.157._09	90L-6	915	1.10	2.85	60	1100	655	674
	DKN_560-6KB.157._10	100L-6	925	1.50	3.90	66	1220	655	674
	DKN_560-6KB.157._11	112M-6	940	2.20	5.20	74	1390	659	679
	DKN_560-4KB.157._10	100L-4	1420	3.00	6.40	54	1540	655	674
	DKN_560-4KB.157._11	112M-4	1440	4.00	8.20	59	1690	659	679
	DKN_560-4KB.157._13	132S-4	1455	5.50	11.40	65	1880	731	743
	DKN_560-4KB.157._13	132M-4	1455	7.50	15.20	72	2090	731	743
	DKN_560-4KB.157._16	160M-4	1460	11.00	21.50	75	2200	807	866



DKN_B 560 (with NEMA motor)



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Performance curve

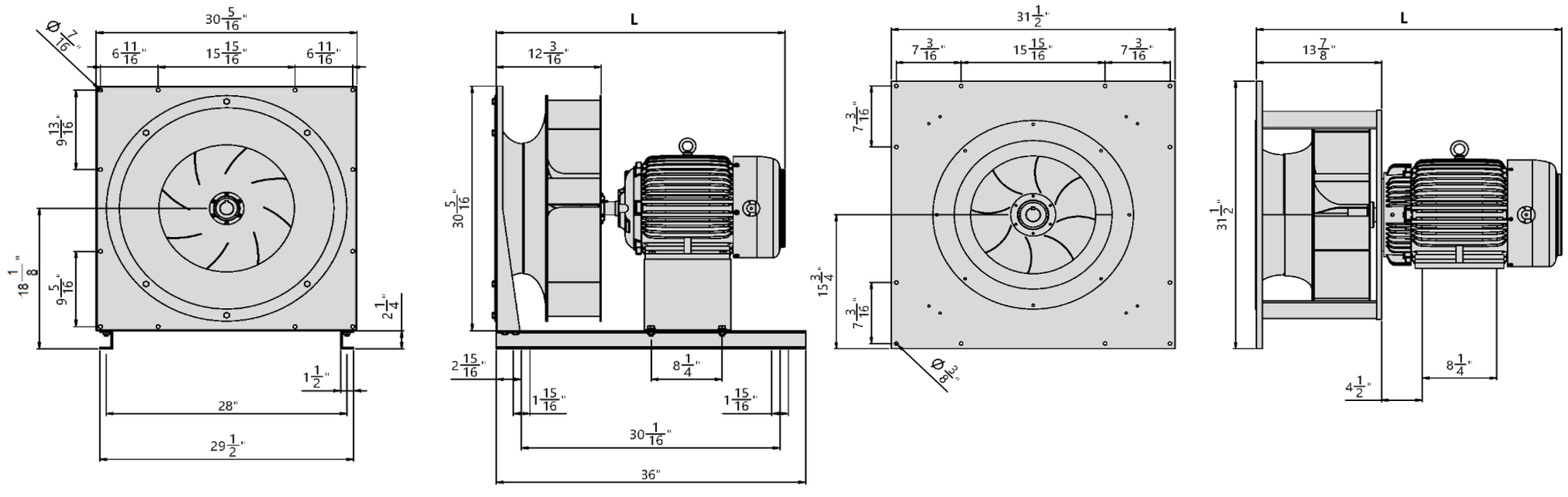
- Performance certified is for installation type A: free inlet, free outlet
- Performance ratings do not include the effects of appurtenances (accessories)
- The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for outlet LwoA sound power levels for installation type A: free inlet, free outlet

n [rpm]	u [m/s]	η Korr
2200 rpm	68.1 m/s	1
2000 rpm	61.9 m/s	1
1800 rpm	55.7 m/s	0.99
1600 rpm	49.5 m/s	0.99
1400 rpm	43.3 m/s	0.98
1200 rpm	37.1 m/s	0.98
1000 rpm	30.9 m/s	0.98
800 rpm	24.8 m/s	0.97
600 rpm	18.6 m/s	0.97

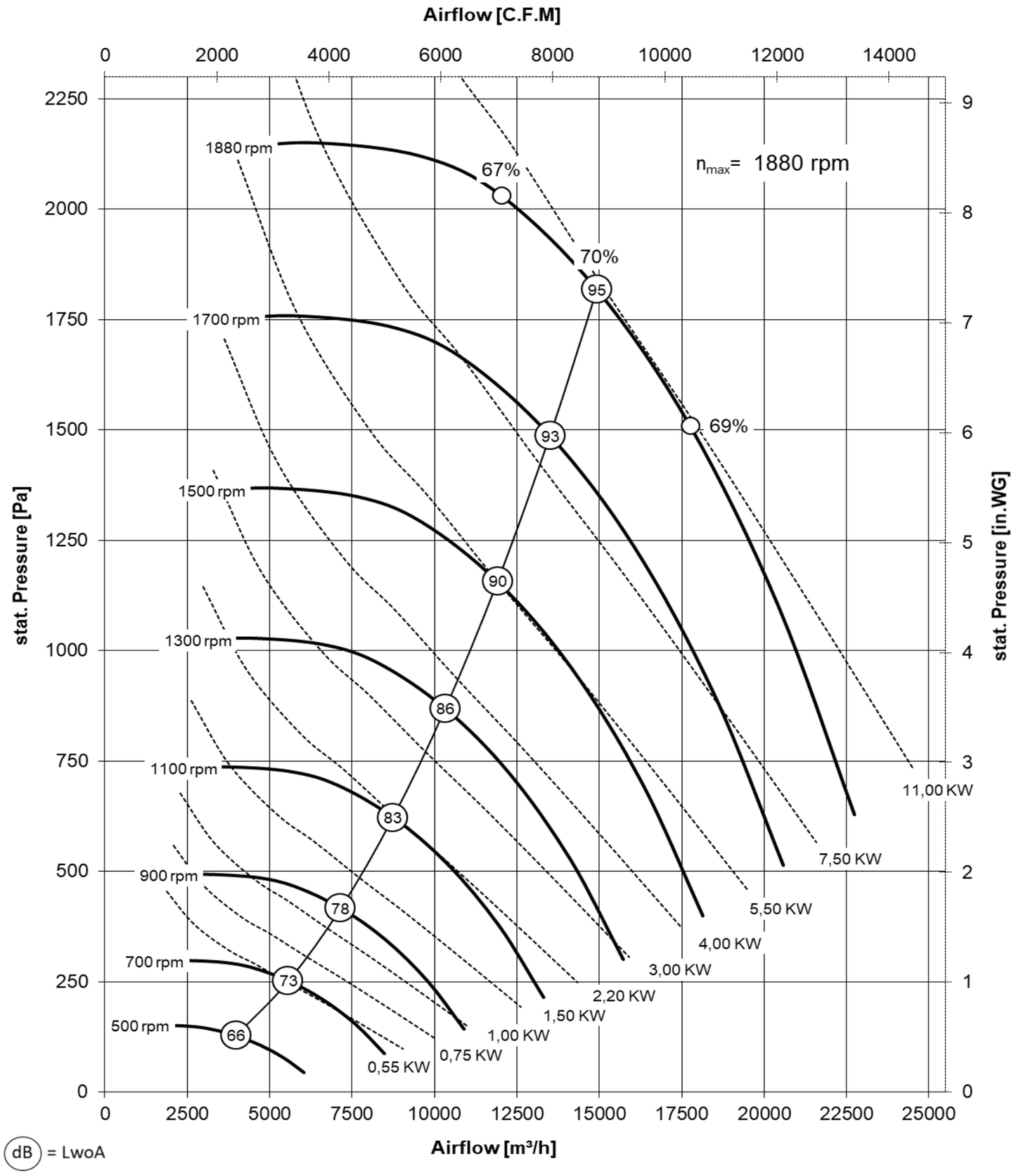
Calibration factor k_{10} = 252

Fan outlet area = 3,38 ft²

	Typ of fan	Type of motor	n_N [rpm]	P_N [HP]	I_N [A]	f_{max} [Hz]	n_{max} [rpm]	DKN**B** size "L" inch	DKN**M** size "L" inch
Alu	DKN_560-6KB.157.N182	182	1170	1.50	5.10	56	1085	25 13/16"	25 15/16"
	DKN_560-6KB.157.N184	184	1170	2.00	6.00	61	1195	36 3/4"	27"
	DKN_560-6KB.157.N213	213	1175	3.00	8.00	70	1370	28 9/16"	28 3/4"
	DKN_560-6KB.157.N184	184	1745	5.00	12.20	55	1620	36 3/4"	27"
	DKN_560-6KB.157.N213	213	1755	7.50	17.70	64	1860	28 9/16"	28 3/4"
	DKN_560-6KB.157.N215	215	1755	10.00	23.30	70	2045	30 1/16"	30 1/4"
	DKN_560-6KB.157.N254	254	1765	15.00	34.50	80	2340	33 9/16"	33 13/16"



DKN_B 630 (with IEC motor)



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Performance curve

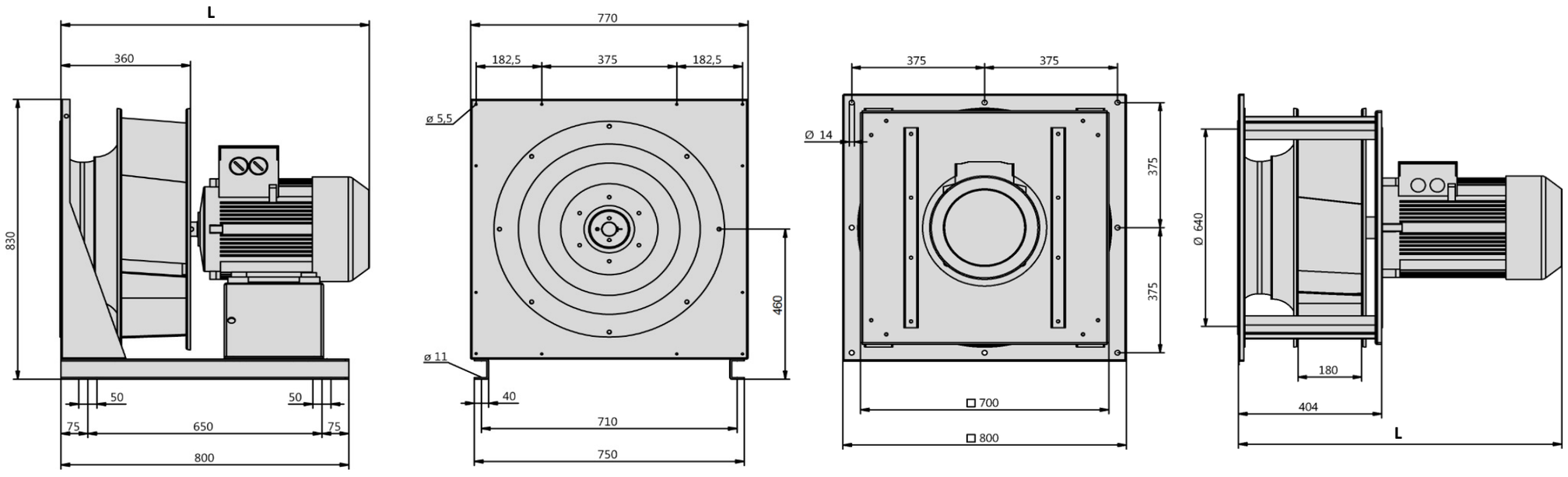
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- Performance ratings do not include the effects of appurtenances (accessories)
- The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for outlet LwoA sound power levels for installation type A: free inlet, free outlet

n [rpm]	u [m/s]	η Korr
1880 rpm	64.5 m/s	1
1700 rpm	58.3 m/s	0.99
1500 rpm	51.4 m/s	0.99
1300 rpm	44.6 m/s	0.98
1100 rpm	37.7 m/s	0.97
900 rpm	30.9 m/s	0.97
700 rpm	24.0 m/s	0.96
500 rpm	17.1 m/s	0.95

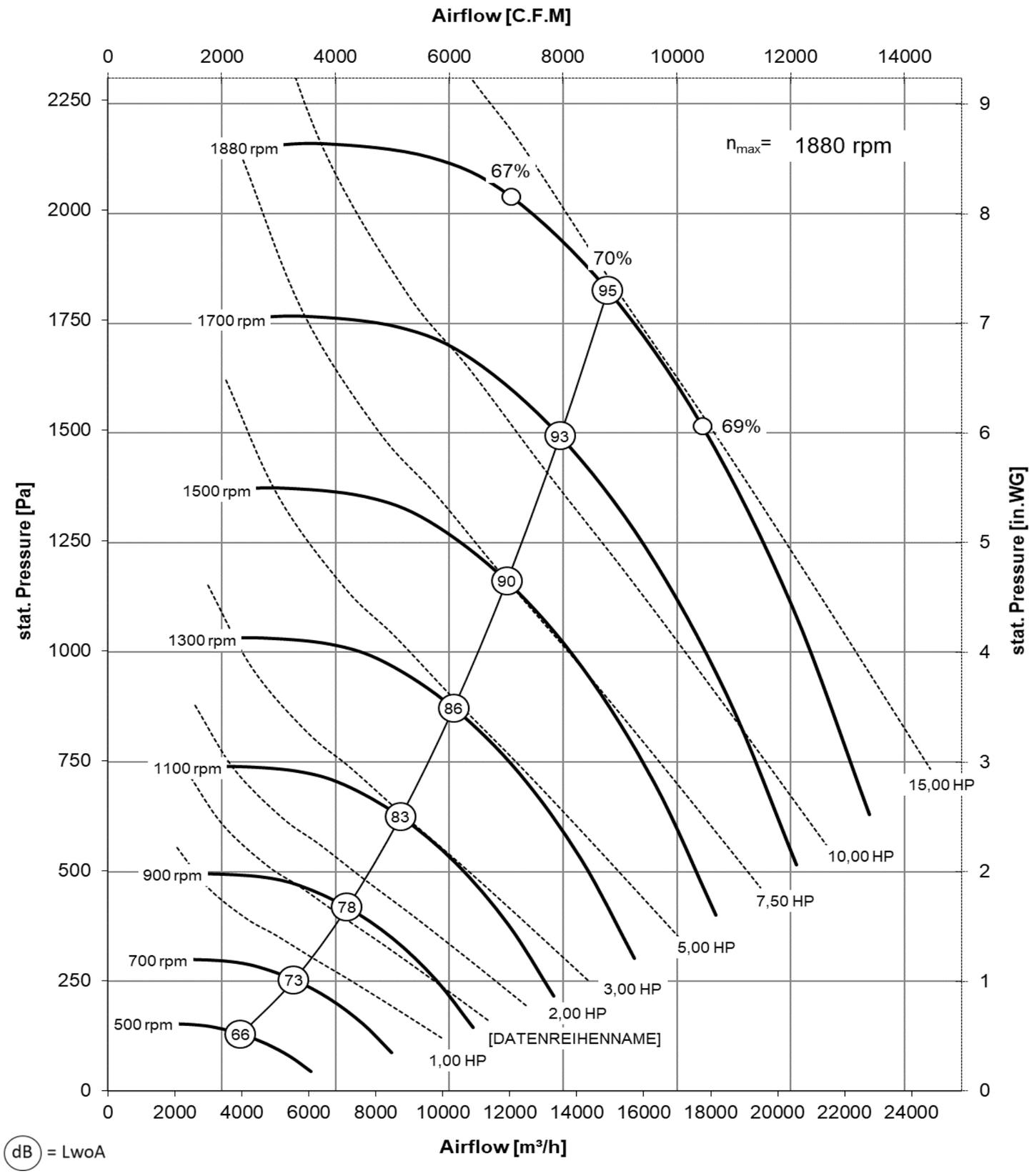
Calibration factor k_{10} = 318

Fan outlet area = 0,408 m²

	Typ of fan	Type of motor	n_N [rpm]	P_N [kW]	I_N [A]	f_{max} [Hz]	n_{max} [rpm]	DKN**B** size "L" mm	DKN**M** size "L" mm
Alu	DKN_630-6KB.180._10	100L-6	925	1.50	3.90	53	980	702	719
	DKN_630-6KB.180._11	112M-6	940	2.20	5.20	59	1110	702	719
	DKN_630-6KB.180._13	132S-6	950	3.00	7.20	65	1230	775	792
	DKN_630-6KB.180._13	132M-6	950	4.00	9.40	72	1360	775	792
	DKN_630-4KB.180._13	132S-4	1455	5.50	11.40	52	1510	775	792
	DKN_630-4KB.180._13	132M-4	1455	7.50	15.20	58	1680	775	792
	DKN_630-4KB.180._16	160M-4	1460	11.00	21.50	65	1900	856	913



DKN_B 630 (with NEMA motor)



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Performance curve

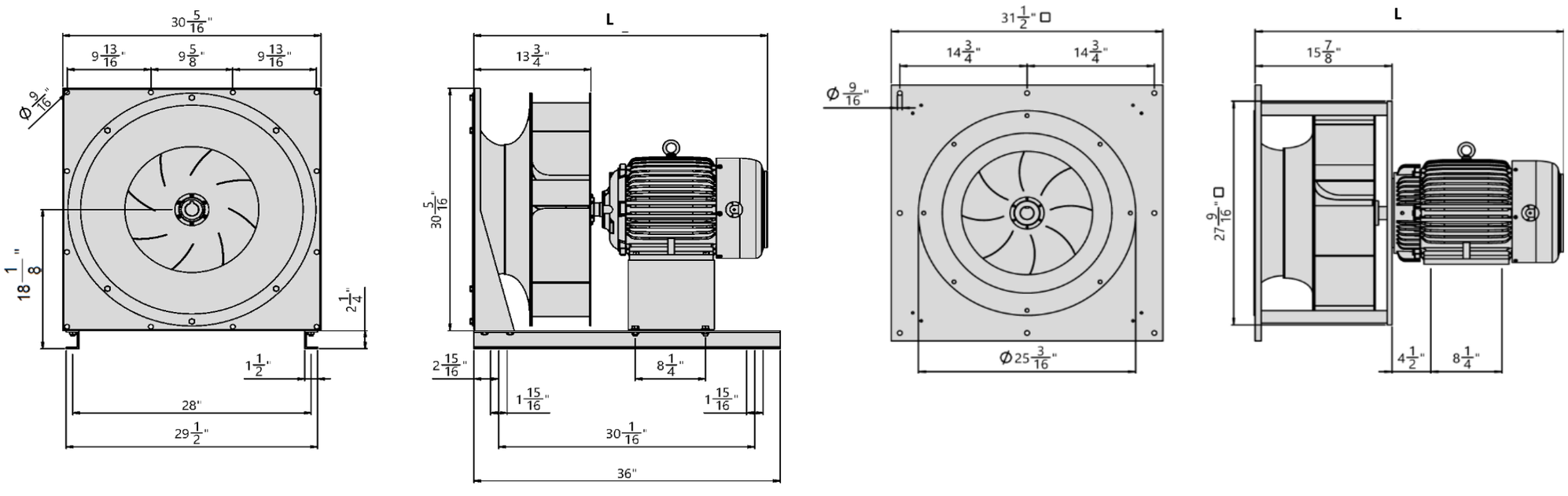
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n [rpm]	u [m/s]	η Korr
1880 rpm	64.5 m/s	1
1700 rpm	58.3 m/s	0.99
1500 rpm	51.4 m/s	0.99
1300 rpm	44.6 m/s	0.98
1100 rpm	37.7 m/s	0.97
900 rpm	30.9 m/s	0.97
700 rpm	24.0 m/s	0.96
500 rpm	17.1 m/s	0.95

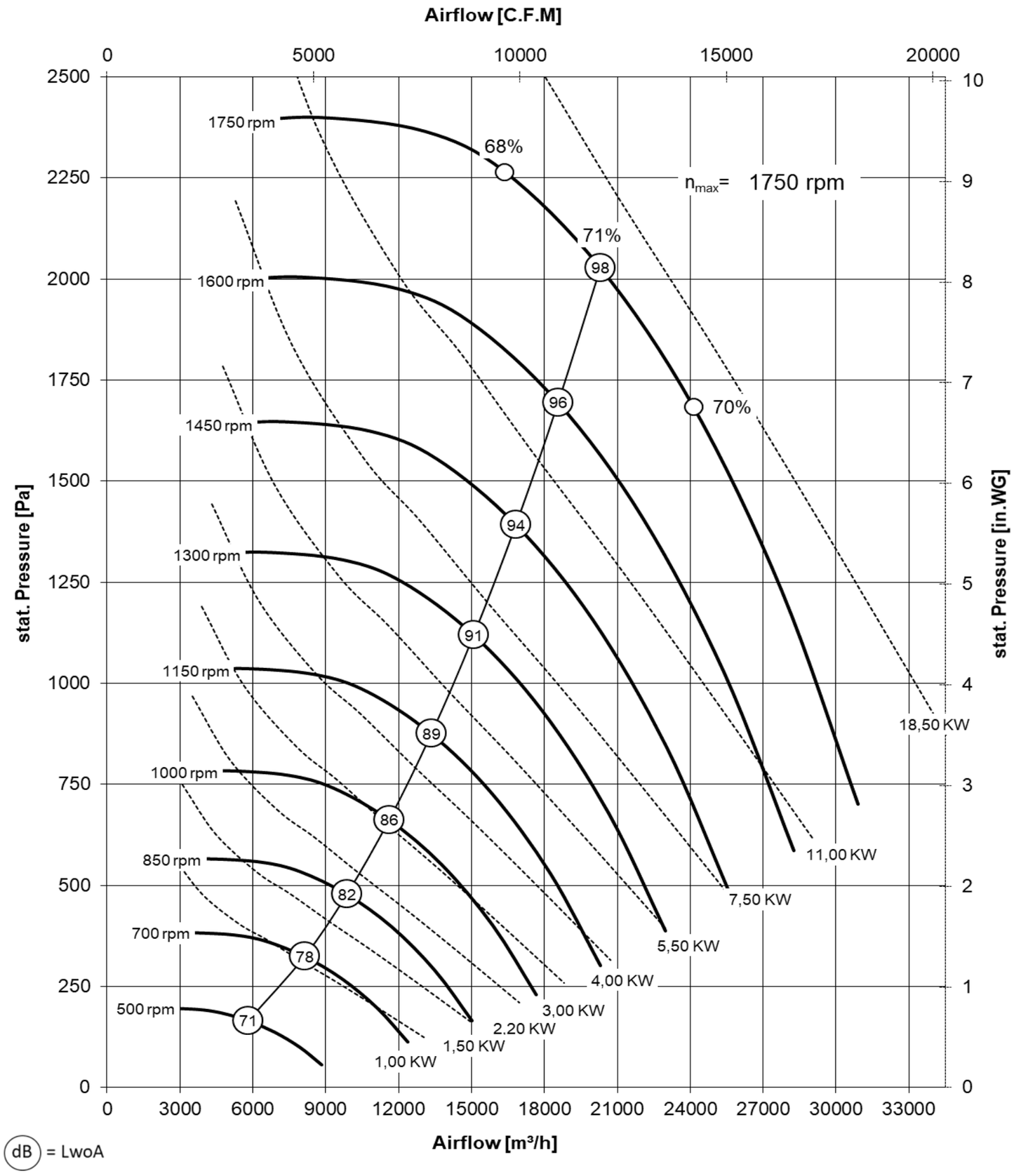
Calibration factor k_{10} = 318

Fan outlet area = 4,39 ft²

	Typ of fan	Type of motor	n_N [rpm]	P_N [HP]	I_N [A]	f_{max} [Hz]	n_{max} [rpm]	DKN**B** size "L" inch	DKN**M** size "L" inch
Alu	DKN_630-6KB.180.N184	184	1170	2.00	6.00	49	965	27 3/4"	29"
	DKN_630-6KB.180.N213	213	1175	3.00	8.00	56	1105	29 9/16"	30 3/4"
	DKN_630-6KB.180.N215	215	1170	5.00	12.50	67	1310	31 1/16"	32 1/4"
	DKN_630-4KB.180.N213	213	1755	7.50	17.70	51	1500	29 9/16"	30 3/4"
	DKN_630-4KB.180.N215	215	1755	10.00	23.30	56	1650	31 1/16"	32 1/4"
	DKN_630-4KB.180.N254	254	1765	15.00	34.50	64	1890	34 1/2"	35 13/16"



DKN_B 710 (with IEC motor)



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Performance curve

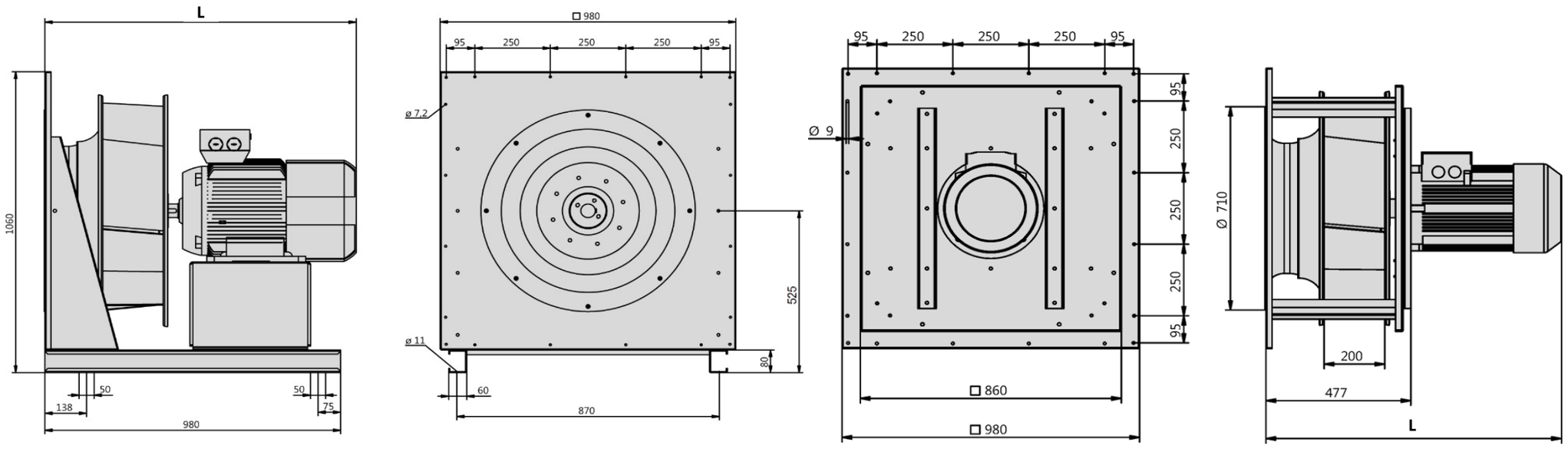
- Performance certified is for installation type A: free inlet, free outlet
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- The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for outlet LwoA sound power levels for installation type A: free inlet, free outlet

n [rpm]	u [m/s]	η Korr
1750 rpm	65.3 m/s	1
1600 rpm	59.7 m/s	1
1450 rpm	54.1 m/s	1
1300 rpm	48.5 m/s	0.99
1150 rpm	42.9 m/s	0.99
1000 rpm	37.3 m/s	0.99
850 rpm	31.7 m/s	0.98
700 rpm	26.1 m/s	0.98
500 rpm	18.7 m/s	0.97

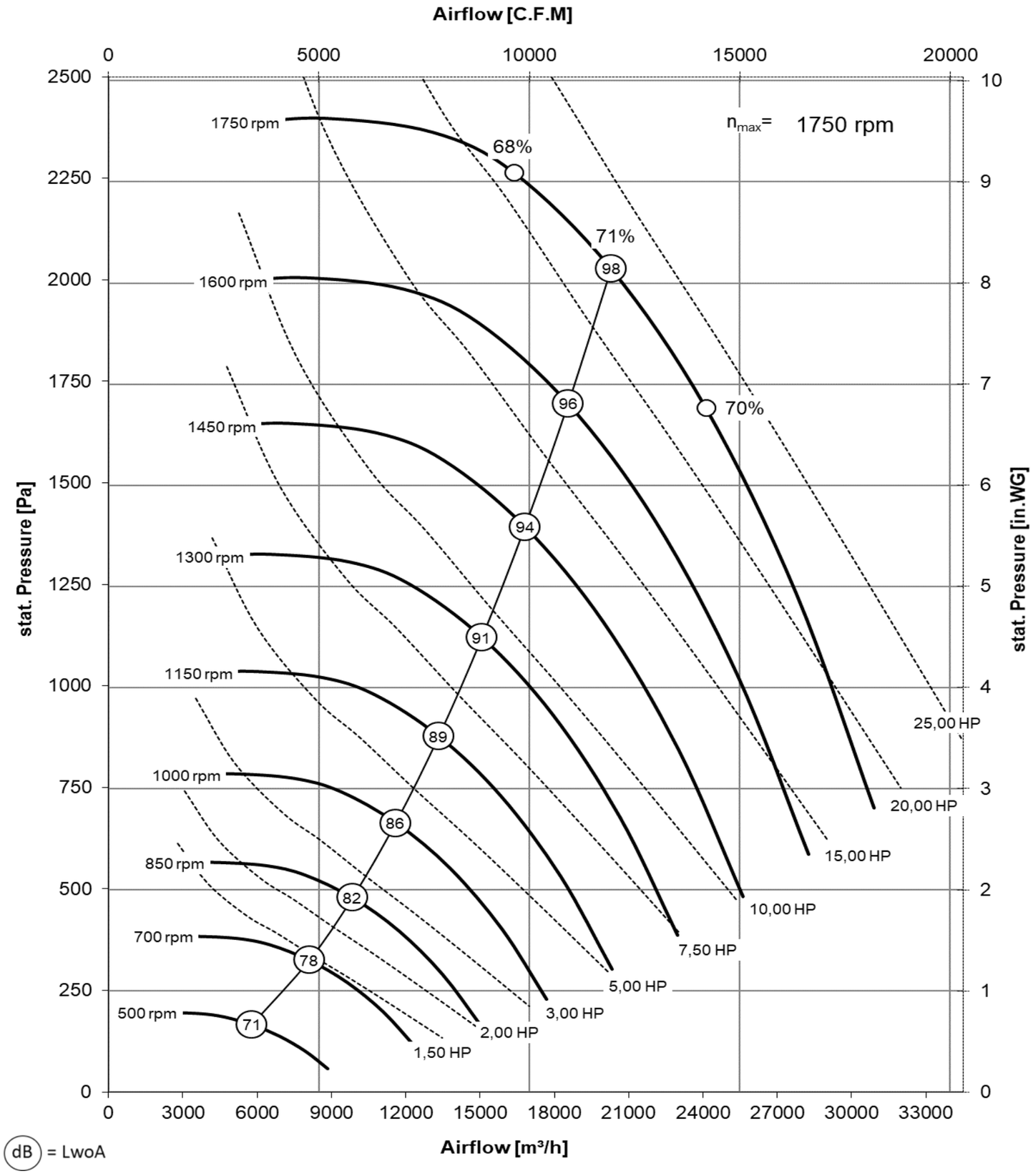
Calibration factor k_{10} = 410

Fan outlet area = 0,519 m²

	Typ of fan	Type of motor	n_N [rpm]	P_N [kW]	I_N [A]	f_{max} [Hz]	n_{max} [rpm]	DKN**B** size "L" mm	DKN**M** size "L" mm
Alu	DKN_710-6KB.205._13	132S-6	960	3.00	6.80	51	980	843	831
	DKN_710-6KB.205._13	132M-6	960	4.00	8.90	56	1080	843	831
	DKN_710-6KB.205._13	132M-6	960	5.50	12.00	63	1200	843	831
	DKN_710-4KB.205._13	160M-6	970	7.50	16.00	69	1330	965	973
	DKN_710-4KB.205._16	160M-4	1460	11.00	21.00	52	1510	965	973
	DKN_710-4KB.205._16	160L-4	1460	15.00	28.00	57	1670	965	973
	DKN_710-4KB.205._16	160L-4	1470	18.50	34.00	60	1750	965	973



DKN_B 710 (with NEMA motor)



	Typ of fan	Type of motor	n_N [rpm]	P_N [HP]	I_N [A]	f_{max} [Hz]	n_{max} [rpm]	DKN**B** size "L" inch	DKN**M** size "L" inch
Alu	DKN_710-6KB.205.N215	215	1165	5.00	12.50	55	1060	33 7/16"	33 1/4"
	DKN_710-6KB.205.N254	254	1175	7.50	19.10	62	1215	36 13/16"	36 7/8"
	DKN_710-6KB.205.N256	256	1170	10.00	25.60	68	1335	38 1/16"	38 5/8"
	DKN_710-6KB.205.N284	284	1175	15.00	36.40	78	1530	39 7/8"	41 6/8"
	DKN_710-4KB.205.N256	256	1760	20.00	46.00	58	1685	38 1/16"	38 5/8"
	DKN_710-4KB.205.N284	284	1755	25.00	58.20	62	1815	39 7/8"	41 6/8"

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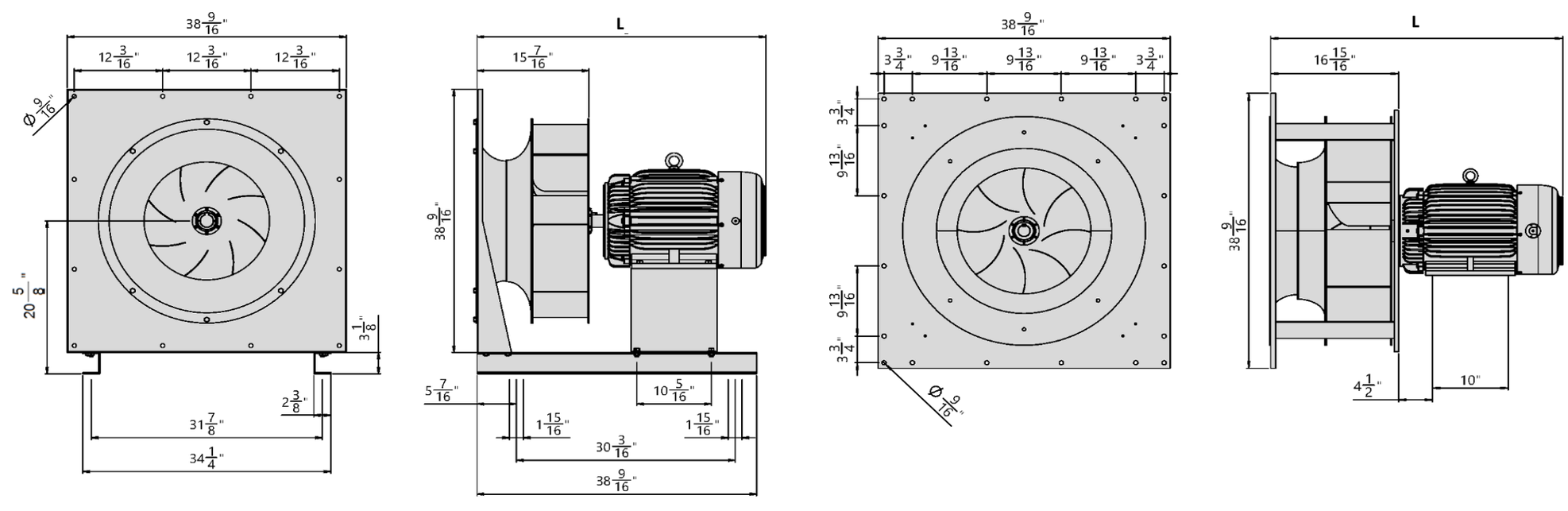
Performance curve

- Performance certified is for installation type A: free inlet, free outlet
- Performance ratings do not include the effects of appurtenances (accessories)
- The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for outlet LwoA sound power levels for installation type A: free inlet, free outlet

n [rpm]	u [m/s]	η Korr
1750 rpm	65.3 m/s	1
1600 rpm	59.7 m/s	1
1450 rpm	54.1 m/s	1
1300 rpm	48.5 m/s	0.99
1150 rpm	42.9 m/s	0.99
1000 rpm	37.3 m/s	0.99
500 rpm	18.7 m/s	0.98
700 rpm	26.1 m/s	0.98
500 rpm	18.7 m/s	0.97

Calibration factor k_{10} = 410

Fan outlet area = 5,59 ft²



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