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Складова база „Онгъл“, Склад А2, п.к.
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3 Austin Mews, High Street, Hemel
Hempstead, HP1 3AF , United Kingdom
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sales@enapart.co.uk

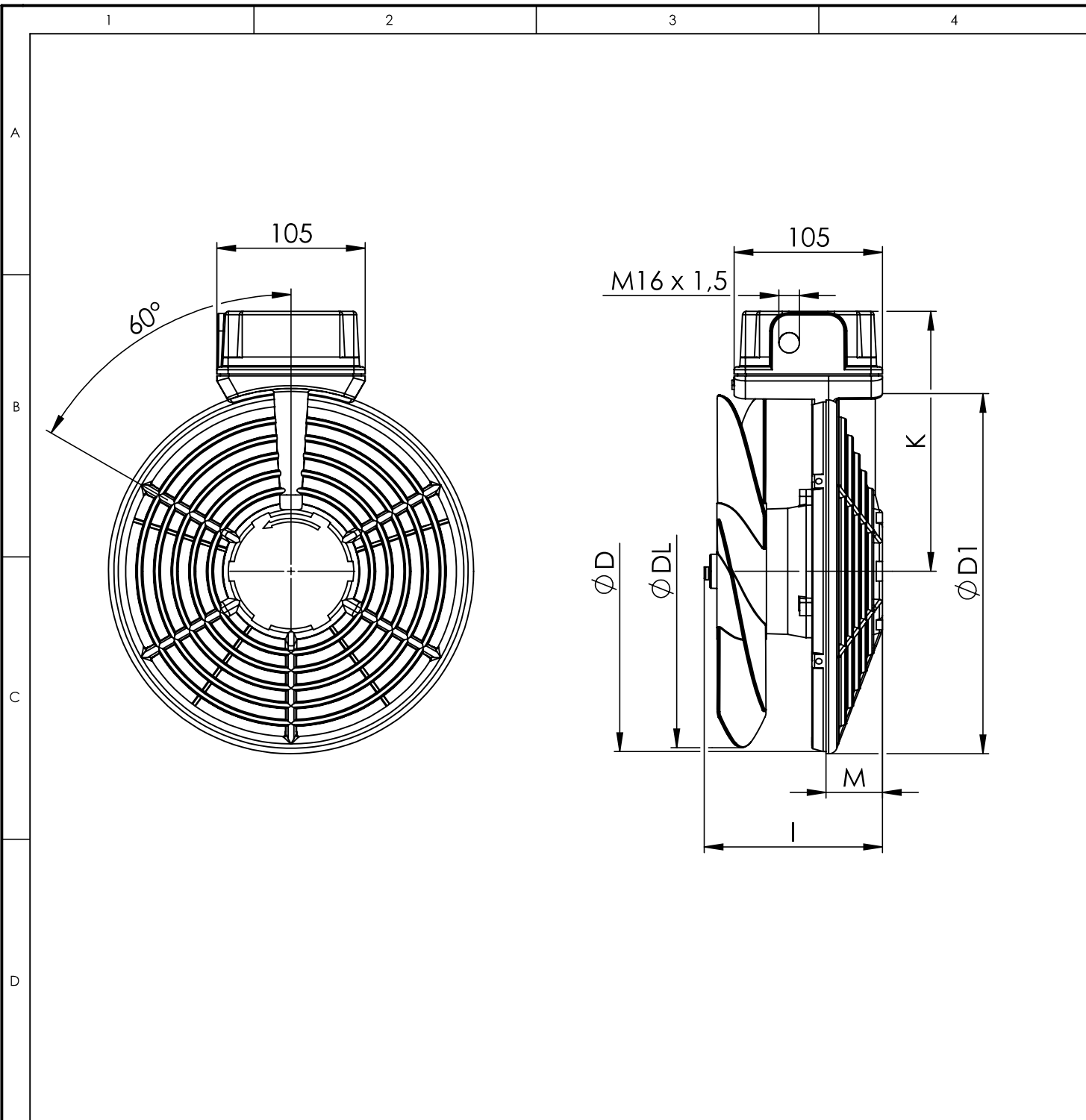
ILI External Fan Units

Compliant with ERP 2015

Optimum cooling for variable speed motors from sizes 63 to 400.



- Proven casting and sheet metal construction
- High corrosion protection through the use of Al 230 seawater-resistant aluminium alloy; the galvanised sheet steel surfaces can be painted
- High volume flow due to streamlined design
- Consistent IP66 protection class for all versions
- cURus approved
- Excellent vibration resistance thanks to rigid die cast motor housing
- Compact dimensions through use of the inner intake space
- Small number of versions due to multi-voltage concept (230 V single-phase, up to 575 V/60 Hz three-phase) and a single protection class
- EMC-compliant
- Variable, proven length modular system (application with / without B-side motor shaft, attachment of encoder and / or brake), as well as all common brands of motor
- Attractive technical design with captive terminal box screws
- Certification according to ATEX category II 3D/3G / IECEx category Zone 2/22
- Versions for ambient temperatures down to -40°C
- Versions suitable for use in the food industry
- Available as 400/690V version as of size 132



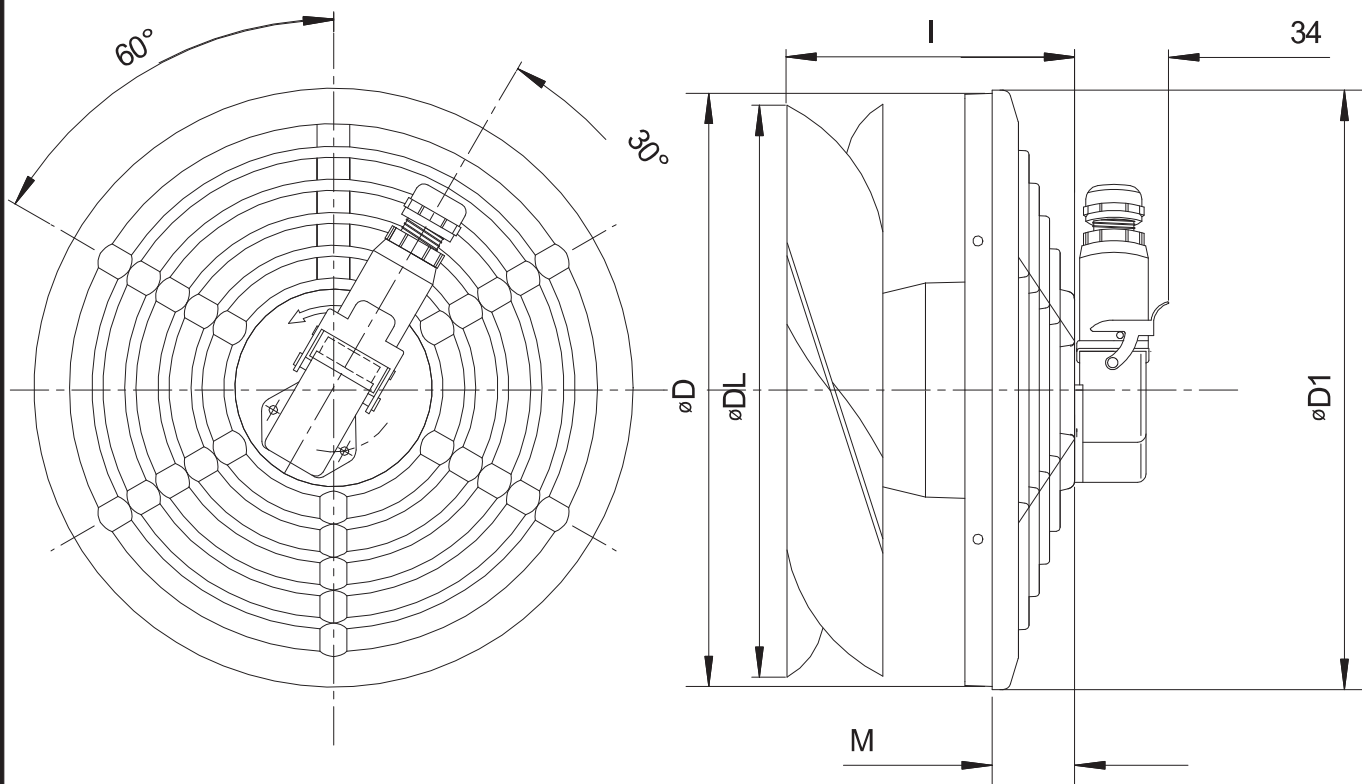
Bg Size HA Tamaño mod.	Sachnummer Article no. Numéro d'article Código de pieza Numero codice	Sachnummer mit Schrauben Article no. with screws Numéro d'article avec visser Código de pieza con tornillos Numero codice con viti	Fixe Maße Fixed dimensions Dimensions fixes Medidas fijas Dimensioni fisse													
			D	DL	D1	I	K	M	m(Kg)							
63	15.51.0429	15.50.0548	121	118	124	95	118	20	1,5							
71	15.51.0428	15.50.0549	136	132	139	95	124	20	1,6							
80	15.51.0430	15.50.0550	154	150	157	95	134	20	1,7							
90	15.51.0425	15.50.0551	174	169	177	105	143	30	2,2							
100	15.51.0432	15.50.0552	192	187	195	105	152	30	2,4							
112	15.51.0433	15.50.0553	216	210	219	105	164	30	2,6							
132	15.51.0398	15.50.0463	255	250	258	127	185	40	3,2							
160	15.51.0396	15.50.0462	307	300	311	152	211	40	4,7							

					24.01.0172 Flansch Bg63 - Bg160 ILI
	Bg verfügbar	20.04.17	AB		
Zust.	Änderung	Datum	Name		
Erstellt: 19.04.2016 / LM					

wistro

24.01.0172

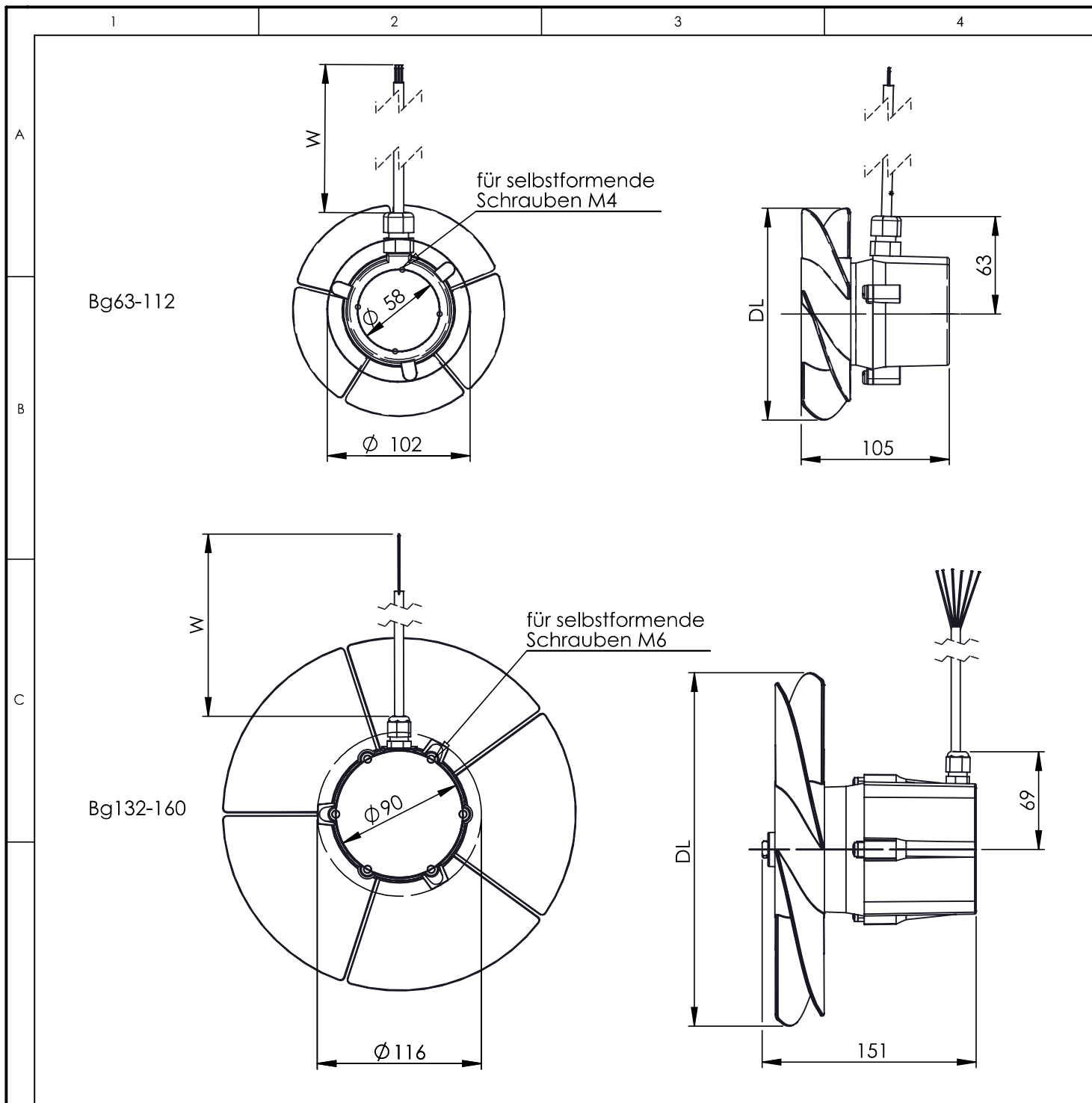
Flansch Bg63 - Bg160 ILI



- Motor / moteur 3~ 50/60Hz

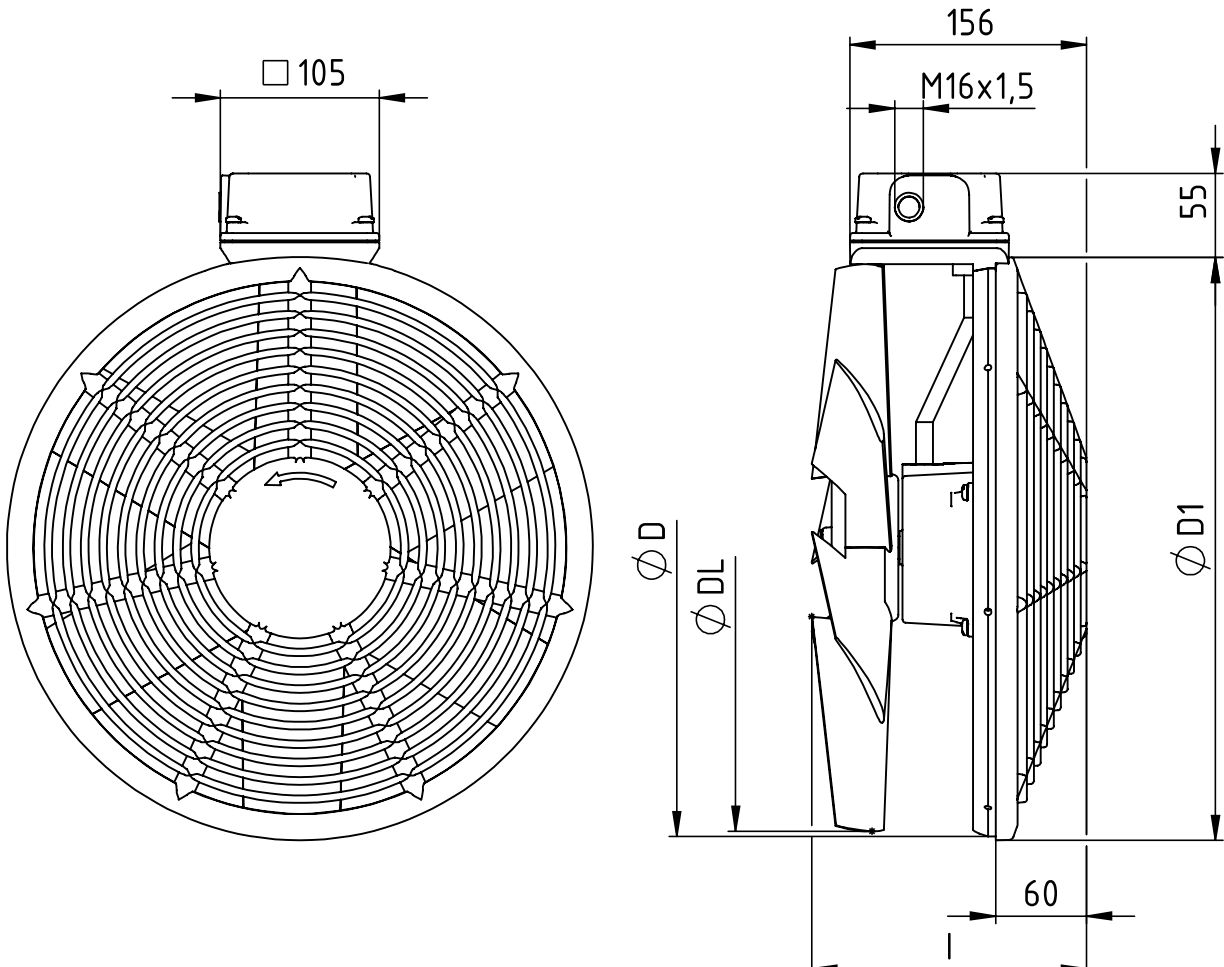
Bg size HA Tamaño mod.	Sachnummer Article no. Numéro d'article Código de pieza Numero codice	Fixe Maße Fixed dimensions Dimensions fixes Medidas fijas Dimensioni fisse							
		D	DL	D 1	I	M	m (kg)		
63	15.50.0223	121	118	124	95	20	1,1		
71	15.50.0224	136	132	139	95	20	1,15		
80	15.50.0225	154	150	157	95	20	1,2		
90	15.50.0255 [®]	174	169	177	105	30	1,6		
100	15.50.0290	192	187	195	105	30	1,7		
112	15.50.0254	216	210	219	105	30	1,8		
132	15.50.0156	255	250	258	127	40	2,7		
160	15.50.0160	307	300	311	152	40	3,9		

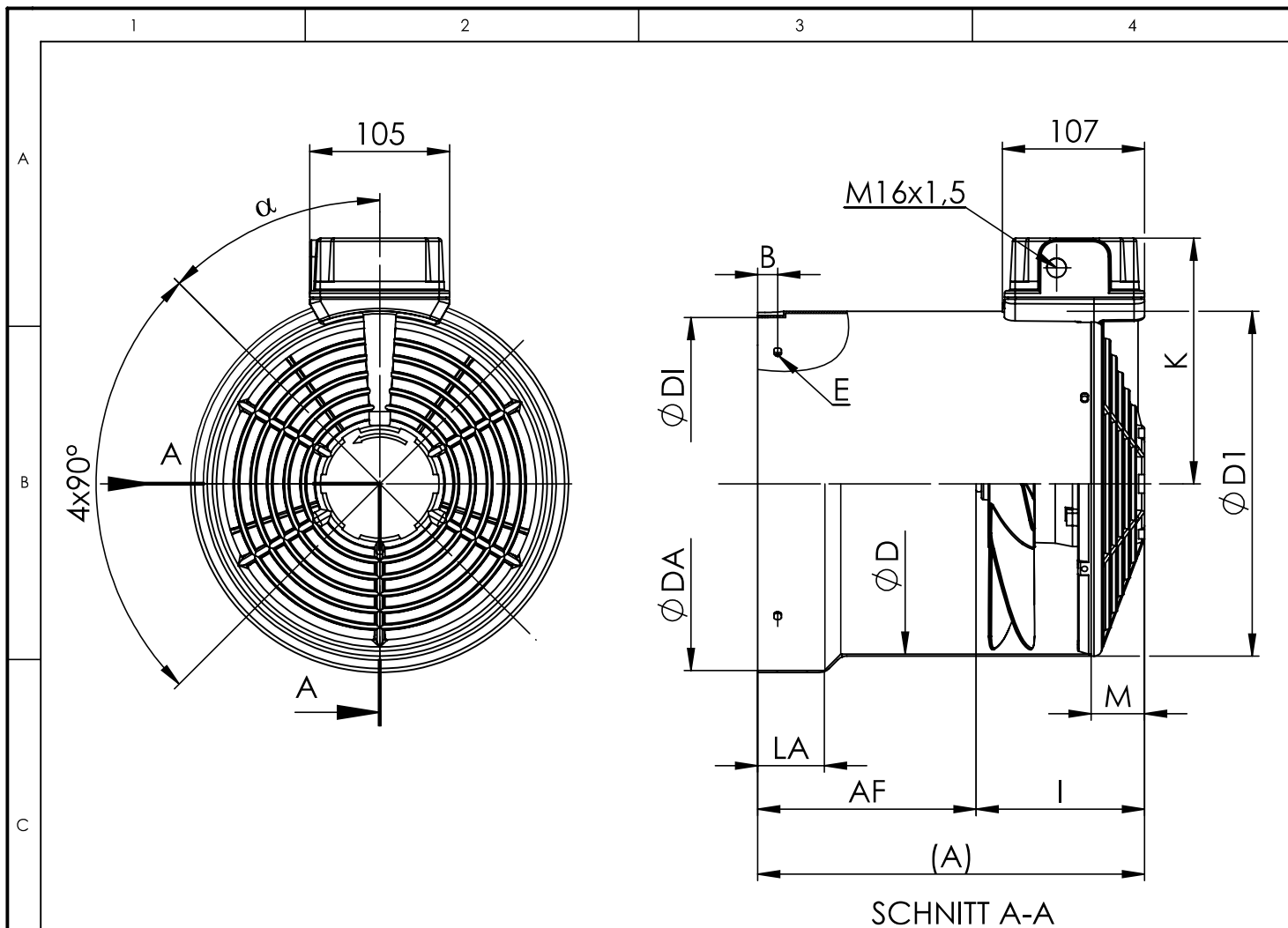
d	Sachnummern geändert	18.04.13	Mar		24.40.0067 Flansch Bg63 IL - Bg160 IL mit Stecker/Kabelverschraubung
c	Sachnummern eingebracht	07.12.12	Mar		
b	diverse	07.12.09	Mar		
Zust.	Änderung	Datum	Name	Erstellt: 12.07.06/vS	



Bg Size HA Tamaño mod.	Sachnummer Article no. Numéro d'article Código de pieza Numero codice	Fixe Maße Fixed dimensions Dimensions fixes Medidas fijas Dimensioni fisse		Bemerkungen Remark Remarque Nota Nota
		DL	W	
63	14.00.0013	118	450	
71	14.00.0014	133	450	
80	14.00.0015	150	450	
90	14.00.0016	170	450	
100	14.00.0017	185	450	
112	14.00.0018	210	450	
132	14.00.0028	250	750	
160	14.00.0029	300	950	

F	B	Bg132/160 hinzu	01.08.17	AB	wistro 24.57.0067 Axial-Einbaulüfter (3~ Motor Y/Δ)
	A	W 150 = 450	09.01.13	Mar	
	Zust.	Änderung	Datum	Name	
				Erstellt: 20.01.2011/Anders	

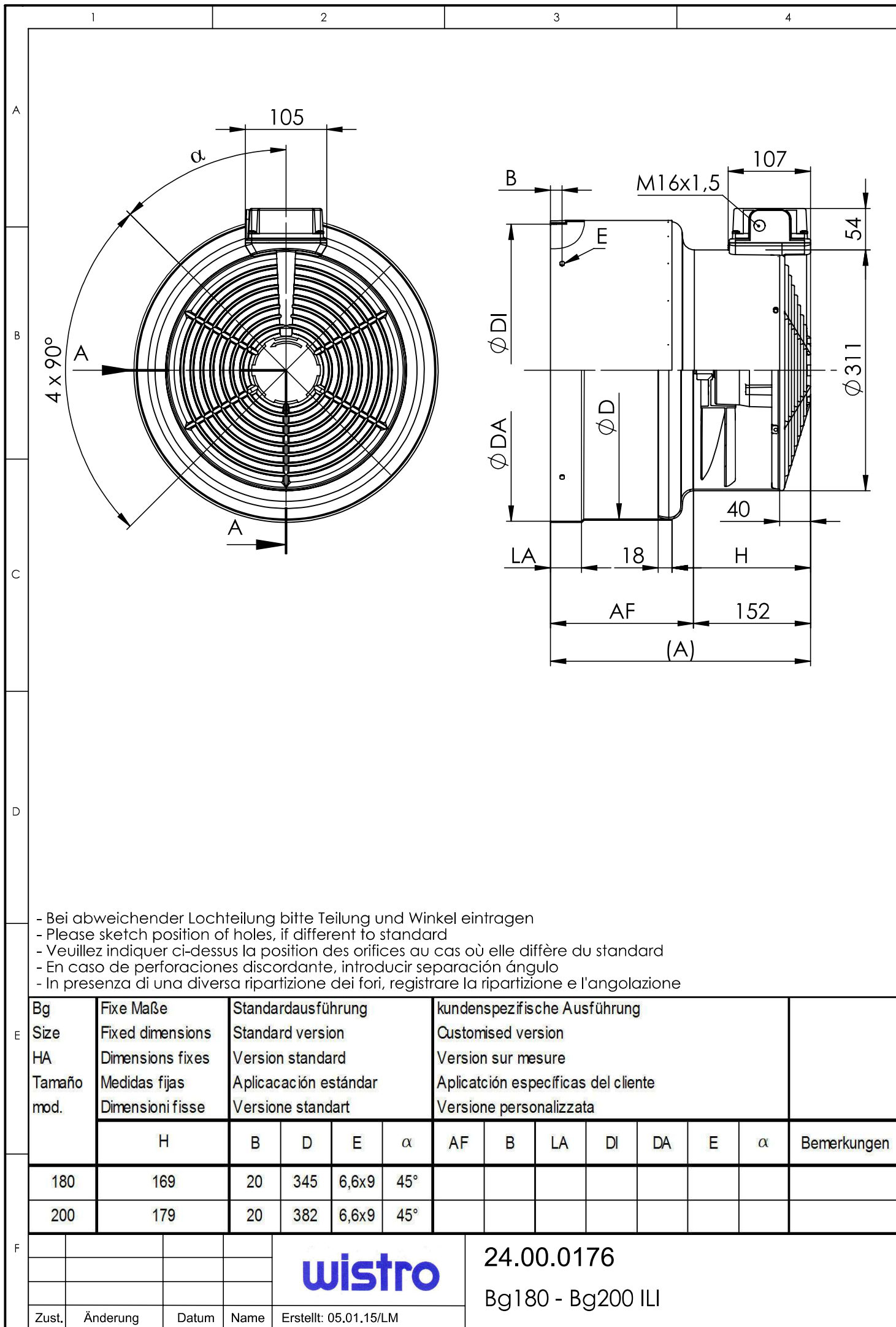
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Bg Size HA Tamano mod.	Sachnummer Article no. Numero d'article Código de pieza Numero codice																																																									
		D	D1	DL	I	m(kg)																																																				
204	15.50.0516	382	385	375	195	6,7																																																				
250	15.50.0515	477	480	470	200	9,3																																																				
F	<table><tr><td></td><td></td><td></td><td></td><td colspan="2" rowspan="3">  </td><td colspan="5" rowspan="3"> 24.17.0189 Flansch Bg204/Bg250 vierpolig </td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td>Zust.</td><td>Änderung</td><td>Datum</td><td>Name</td><td colspan="2">Erstellt: 23.08.2018/SL</td><td colspan="5"></td></tr></table>																	24.17.0189 Flansch Bg204/Bg250 vierpolig													Zust.	Änderung	Datum	Name	Erstellt: 23.08.2018/SL																							
						24.17.0189 Flansch Bg204/Bg250 vierpolig																																																				
Zust.	Änderung	Datum	Name	Erstellt: 23.08.2018/SL																																																						



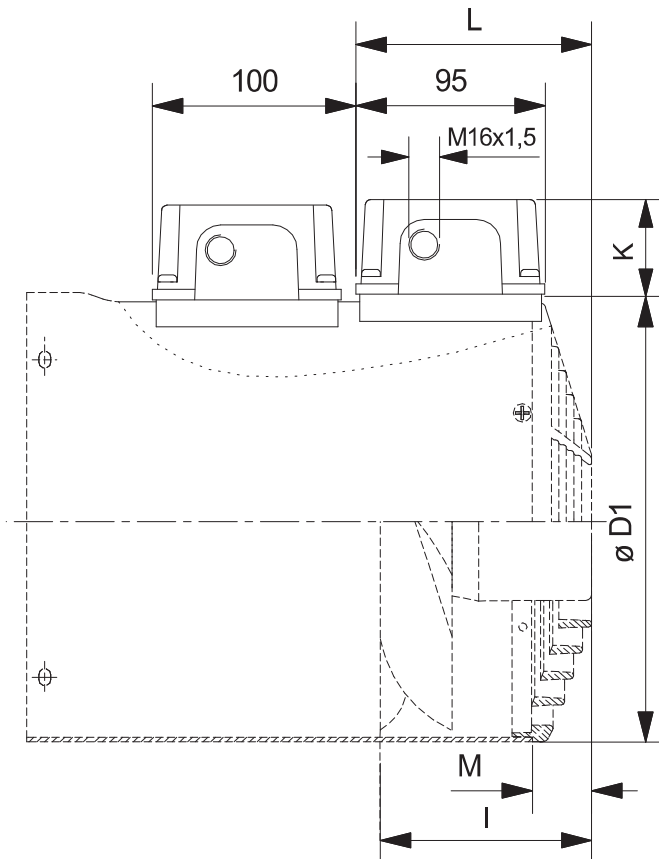
- Bei abweichender Lochteilung bitte Teilung und Winkel eintragen
 -Please sketch position of holes, if different to standard
 -Veuillez indiquer ci-dessus la position des orifices au cas où elle diffère du standard
 -En caso de perforaciones discordante, introducir separación ángulo
 -In presenza di una diversa ripartizione dei fori, registrare la ripartizione e l'angolazione

Bg Size HA Tamaño mod.	Fixe Maße Fixed dimensions Dimensions fixes Medidas fijas Dimensioni fisse					Standardausführung Standard version Version standard Aplicación estándar Versione standart			kundenspezifische Ausführung Customised version Version sur mesure Aplicación específicas del cliente Versione personalizzata							Bemerkungen
	D1	D	I	K	M	B	E	α	AF	B	LA	DI	DA	E	α	
63	124	121	95	118	20	7	4,3 x 7	45°								
71	139	136	95	124	20	7	5,5 x 8	45°								
80	157	154	95	134	20	7	5,5 x 8	45°								
90	177	174	105	143	30	7	5,5 x 8	45°								
100	195	192	105	152	30	7	5,5 x 8	45°								
112	219	216	105	164	30	9	5,5 x 8	45°								
132	258	255	127	185	40	20	5,5 x 8	45°								
160	311	307	152	211	40	20	6,6 x 9	45°								

F							24.00.0172 Bg63 - Bg160 ILI	
	Bg verfügbar	20.04.17	AB					
	Zust.	Änderung	Datum	Name	Erstellt: 07.01.2015 / LM			



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Fixe Maße Fixed dimensions Dimensions fixes Medidas fijas Dimensioni fisse					Kundenspezifische Ausführung Customised version Version sur mesure Aplicación específicas del cliente Versione personalizzata																																																																																																																																																																															
Bg	D	D1	DL	I	(A)	AF	DA	B*	E*	F*	α*	DS*	G*	β*	x																																																																																																																																																																					
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Bg size HA Tamaño mod.	Fixe Maße Fixed dimensions Dimensions fixes Medidas fijas Dimensioni fisse					Standardausführung Standard version Version standard Aplicacación estándar Versione standart				Kundenspezifische Ausführung Customised version Version sur mesure Aplicatción específicas del cliente Versione personalizzata					Bemerkungen
	D 1	I	L	K	M	B	D	E	α	AF	B	DA*	E	α	
63	124	95	107	53	20					.....		.....	.....	.....	
71	139	95	107	53	20					.....		.....	.....	.....	
80	157	95	107	53	20					.....		.....	.....	.....	
90	177	105	117	53	30					.....		.....	.....	.....	
100	195	105	117	53	30					.....		.....	.....	.....	
112	219	105	117	53	30					.....		.....	.....	.....	
132	258	127	127	54	40										
160	311	152	127	54	40										

* Abweichende Innendurchmesser möglich

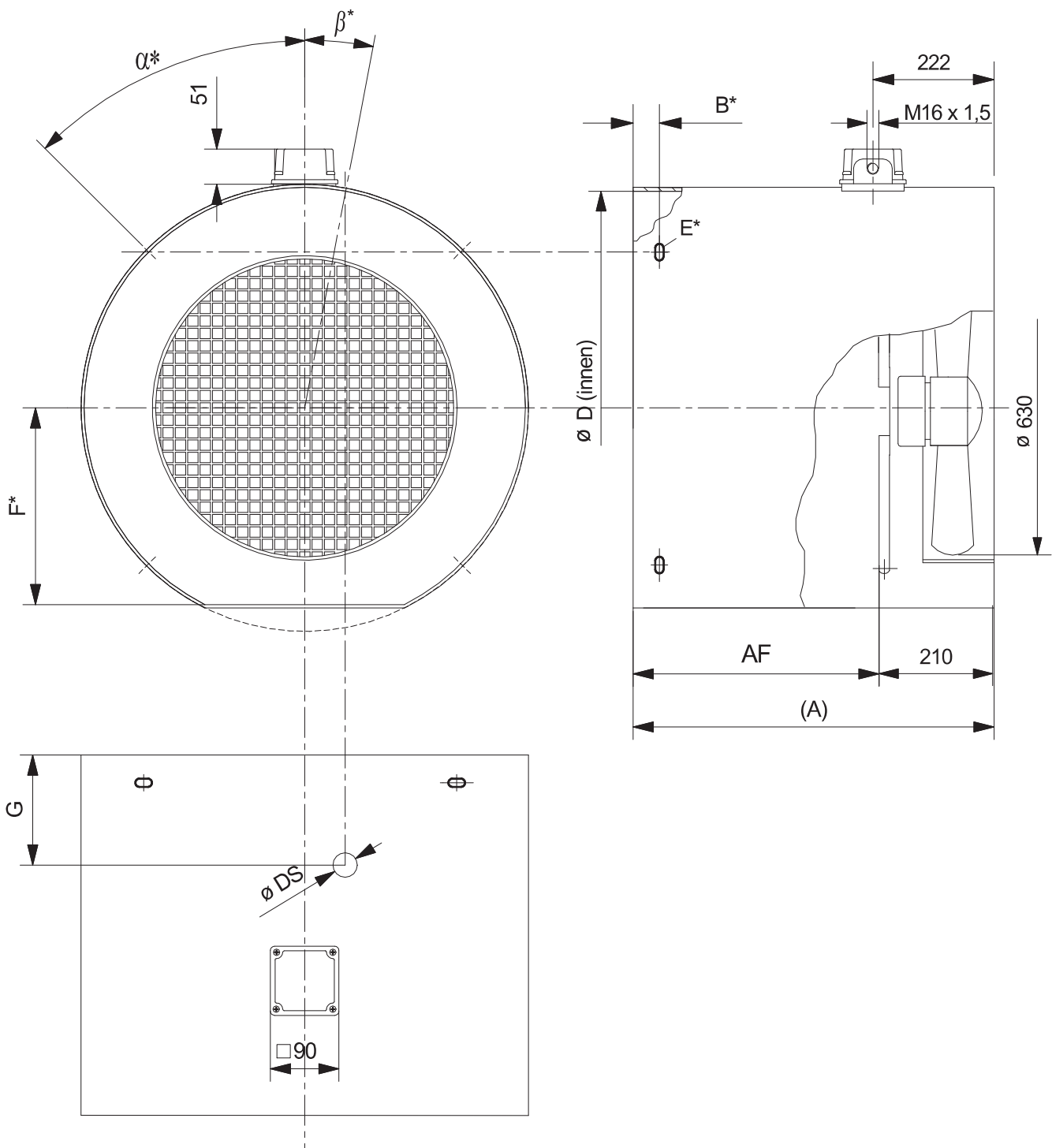
* Different diameters available

* Différents diamètres intérieurs disponibles

* Es posible que el diámetro interior sea discordante

* Possibilità di diametri interni diversi

					24.00.0141 Bg63 IL - Bg160 IL mit zweitem Klemmkasten
a	diverse	08.12.09	Mar		
Zust.	Änderung	Datum	Name	Erstellt: 01.04.08/vS	

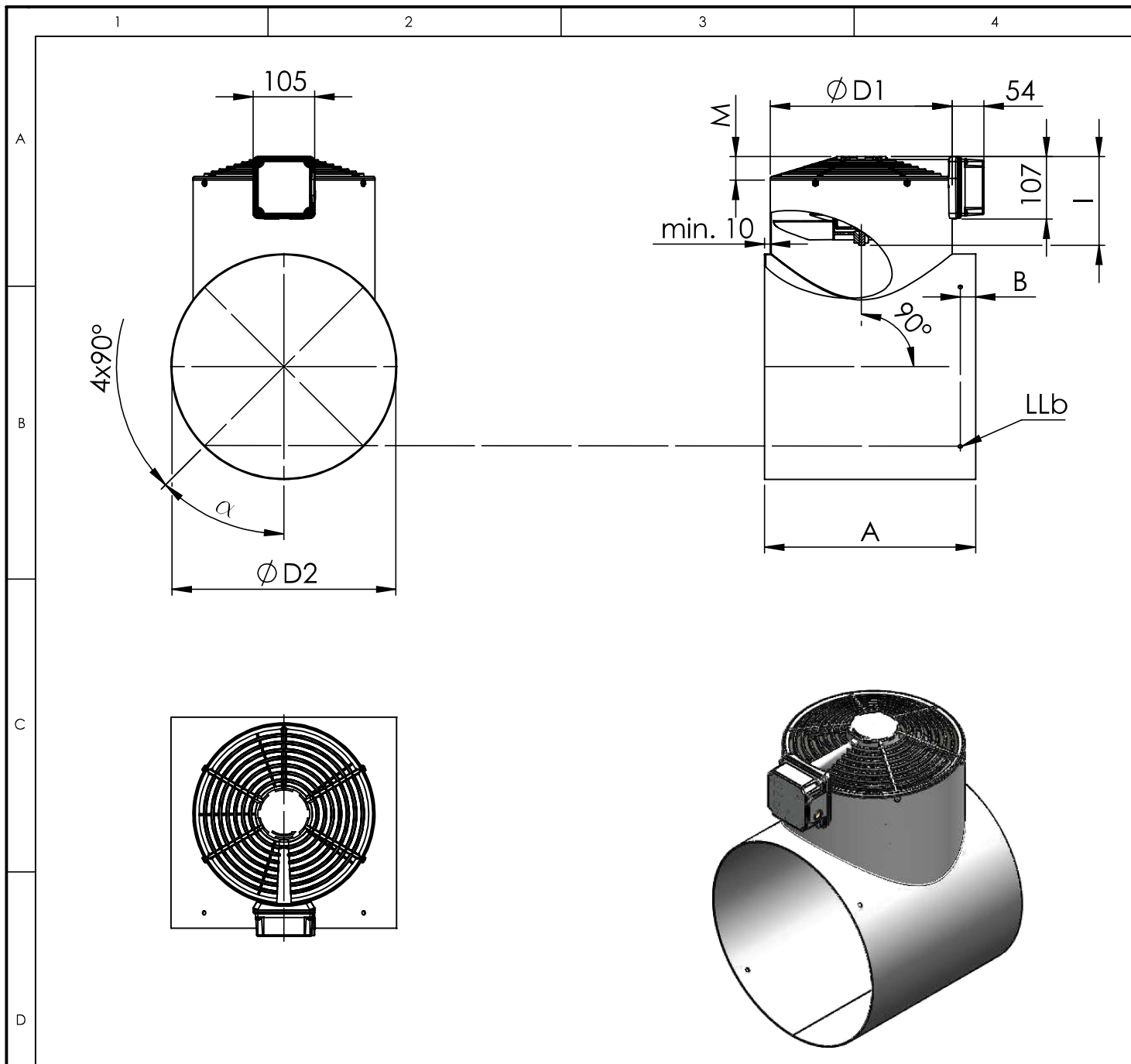


Kundenspezifische Ausführung
Customised version
Version sur mesure
Aplicación específicas del cliente
Versione personalizzata

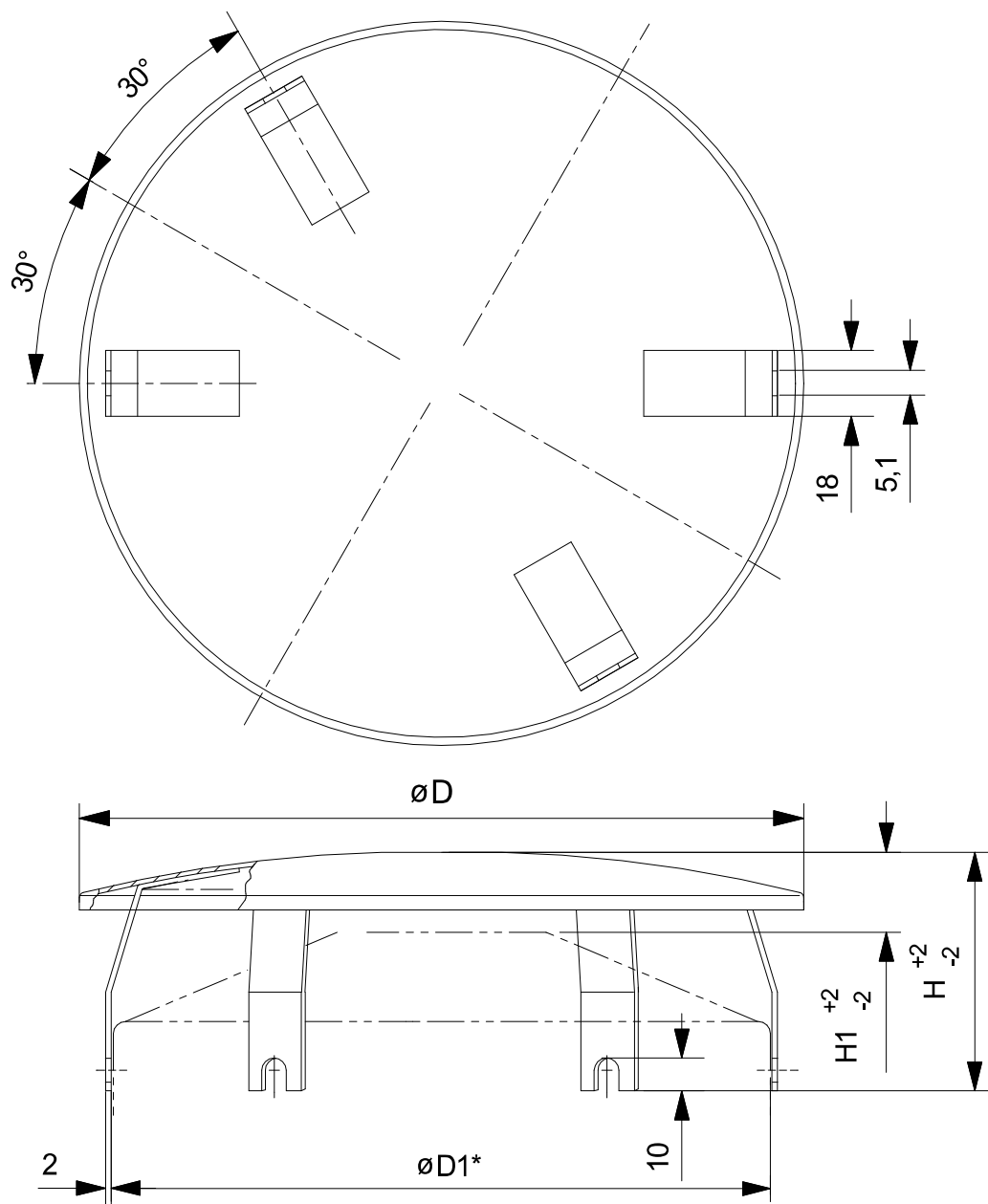
AF	(A)	D	B*	F*	α^*	E*	DS*	G*	β^*	

*Standardausführung ohne Fläche u. Lochungen, Maße nur bei Bedarf eintragen
 *Standard version without attachment plate or holes, dimensions to be entered only if required
 *Version standard sans plaque de fixation ni orifices; dimensions ne sont à indiquer que si nécessaire
 *Aplicación estándar sin área ni perforación, introducir medidas solo si es necesario
 *Versione standard senza superficie e foratura, registrare le dimensioni solo in caso di necessità

						24.00.0144 FLA Bg400 - 560	
a	Bg hinzu	19.01.12	An				
Zust.	Änderung	Datum	Name	Erstellt: 09.02.04/Fab			

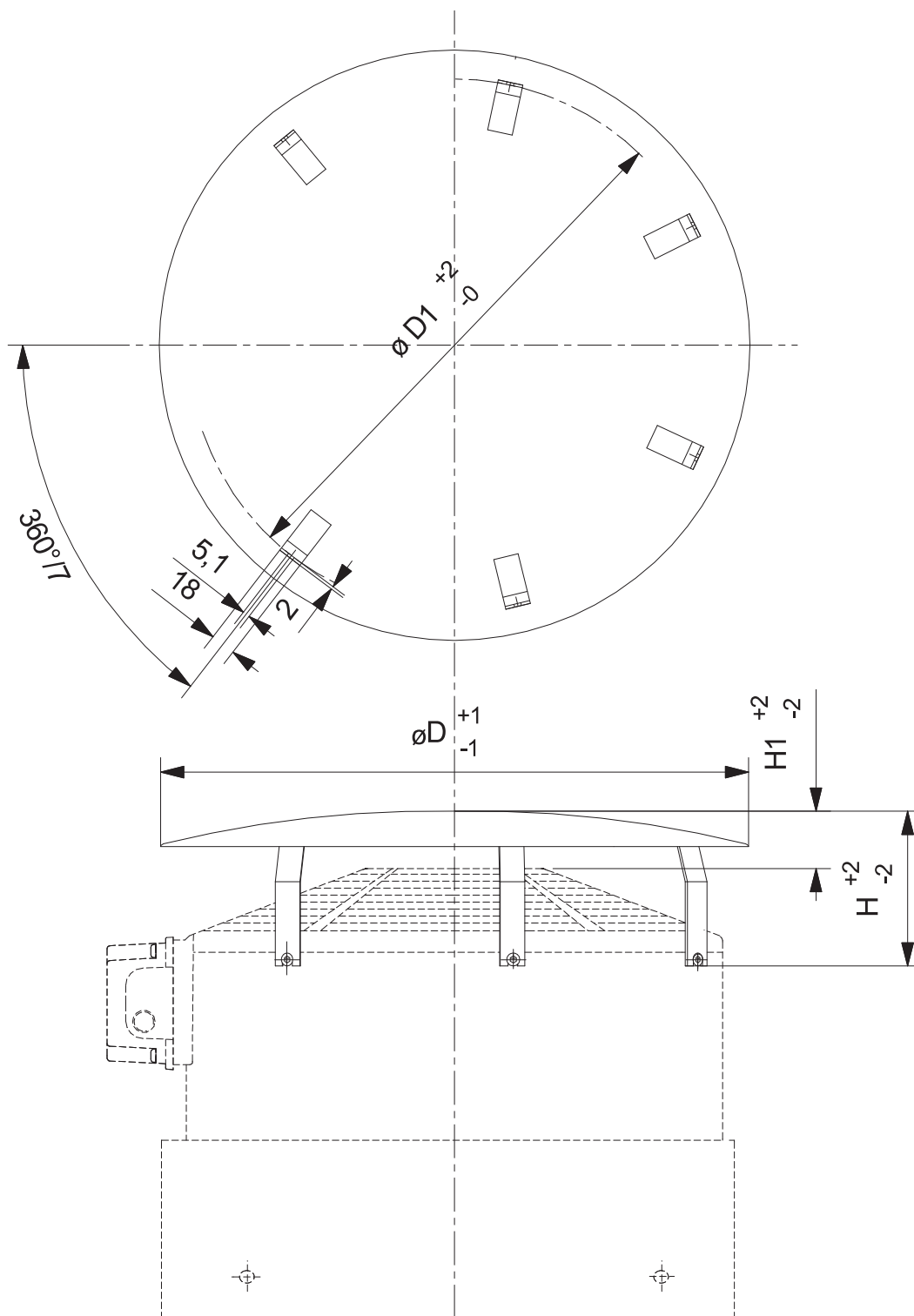


Bg Size HA Tamaño mod.	Fixe Maße Fixed dimensions Dimensions fixes Medidas fijas Dimensioni fisse			Standardausführung Standard version Version standard Aplicacación Versione standart		Kundenspezifische Ausführung Customised version Version sur mesure Aplicatción específicas del cliente Versione personalizzata					
	D1	I	M	B	LLb	D2	A	α	B	LLb	Bemerkungen
	63	124	95	20	7	4,3 x 7					
	71	139	95	20	7	5,5 x 8					
E	80	157	95	20	7	5,5 x 8					
	90	177	105	30	7	5,5 x 8					
	100	195	105	30	7	5,5 x 8					
	112	219	105	30	9	5,5 x 8					
F	132	258	127	40	20	5,5 x 8					
	160	311	152	40	20	6,6 x 9					
						24.01.0168 Fremdlüfter mit T-Rohr Bg63-160					
Zust.	Änderung	Datum	Name	Erstellt: 05.09.16 / AB							



Bg size HA Tamaño mod.	Sachnummer Article no. Numéro d'article Código de pieza Numero codice	D	D1	H	H1	m (kg)	
63	23.00.0126	133	124	72	40	0,20	
71	23.01.0126	150	139	72	40	0,25	
80	23.02.0126	170	157	75	43	0,30	
90	23.03.0126	188	177	75	33	0,35	
100	23.04.0126	210	195	73	31	0,50	
112	23.05.0126	249	219	79	37	0,70	
132	23.08.0126	300	258	84	28	1,30	
160 180 200	23.09.0126	338	311	91	35	1,60	

	Anpassung ILI	20.11.15	AB		Maßblatt 24.00.0084 Regenschutzdach IL Bg63 - 200
	Maße angepasst	26.10.15	AB		
	neue Zeichnung	04.11.04	Fab		
Zust.	Änderung	Datum	Name		
				Erstellt: 04.11.04/Fab	



Bg size HA Tamaño mod.	Sachnummer Article no. Numéro d'article Código de pieza Numero codice	D	D1	H	H1	m (kg)	
204	23.00.0301	424	385	120	50	2,5	
250	23.01.0301	510	480	120	50	3,5	
							Maßblatt 24.04.0122 Regenschutzdach IL Bg204 - Bg450
Zust.	Änderung	Datum	Name	Erstellt: 05.07.06/Fab			

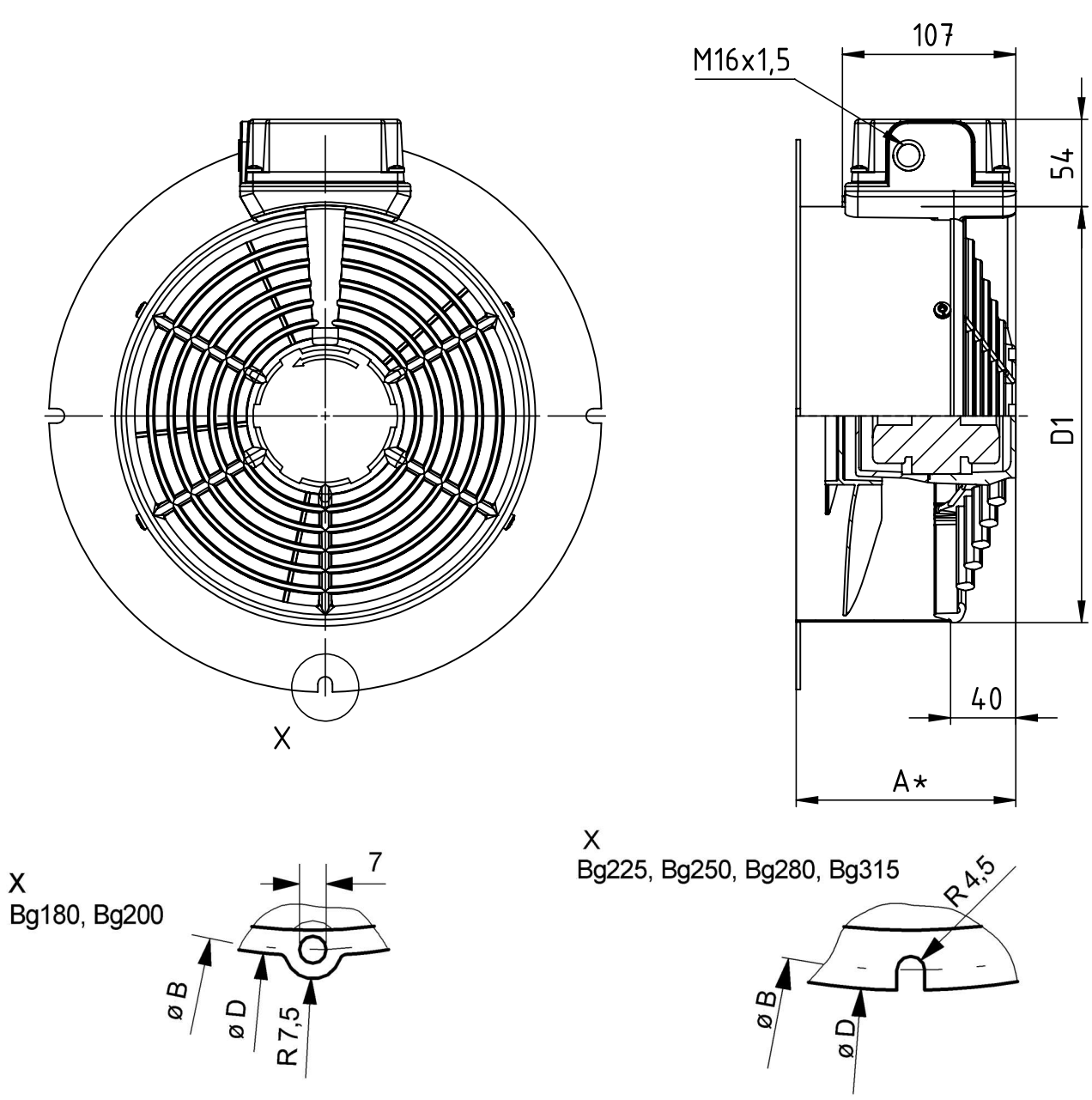
Fremdlüfteraggregate für diverse Motorenfabrikate sind unter www.wistro.com → *Produktanfrage* verfügbar. Für Fragen stehen wir Ihnen selbstverständlich auch persönlich zur Verfügung. Bitte betrachten Sie das folgende Zeichnungsmaterial als Beispiel.

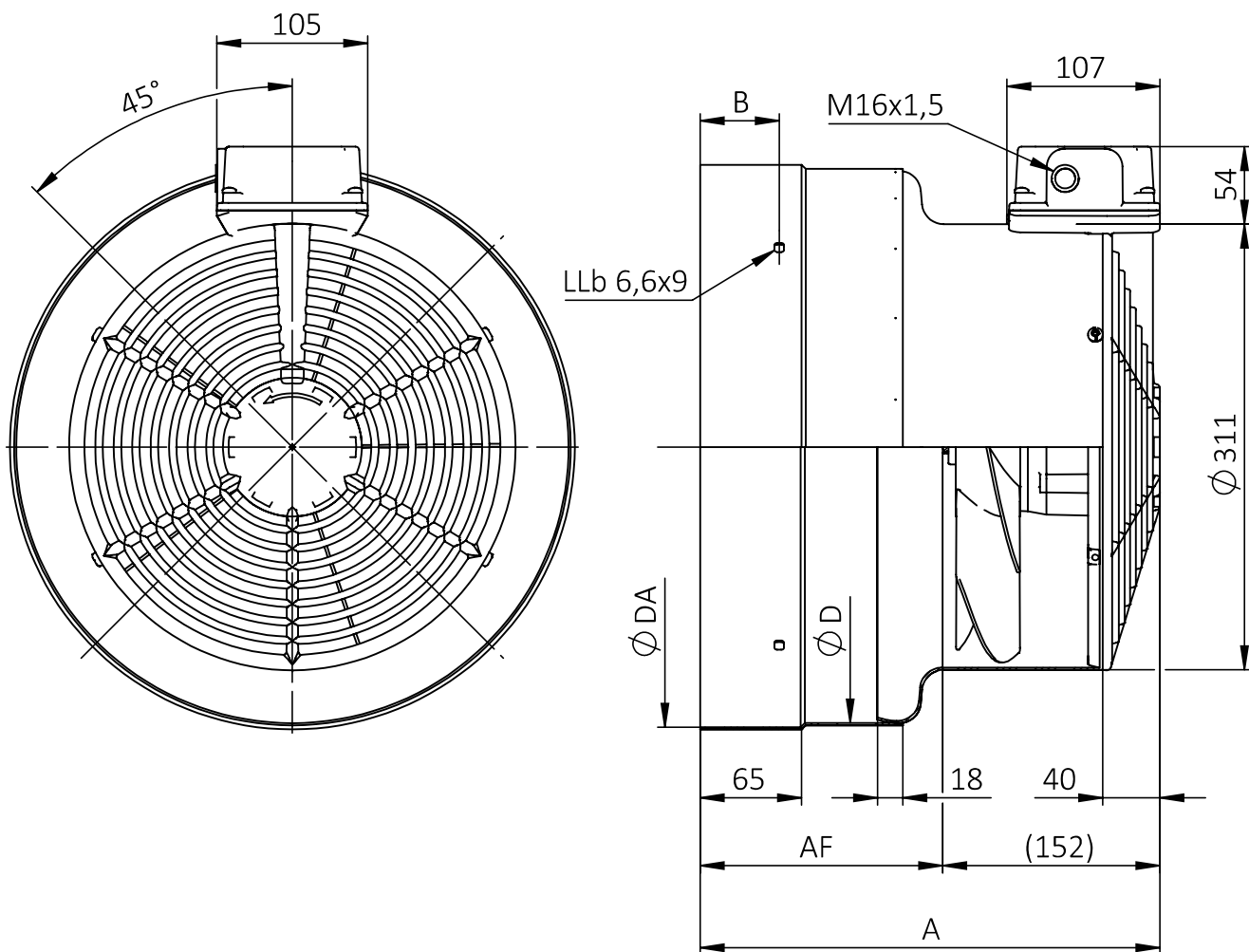
Forced ventilation units are available for several types of motors which you can find on www.wistro.com → *Product enquiries*. If you have any questions do not hesitate to contact us. Please regard the following drawings as examples.

Les groupes de ventilation forcée pour diverses marques de moteurs sont disponibles à l'adresse www.wistro.com → *Demande de produit*. En cas de questions, nous sommes bien sûr à votre disposition. Veuillez tenir compte des dessins suivants pour exemples.

En www.wistro.com → *Solicitud de producto* encontrará unidades de ventilación independientes para diferentes marcas de motores. Por supuesto, estamos a su disposición para cualquier duda. Las siguientes ilustraciones deben considerarse meros ejemplos.

I gruppi ventilatori esterni per diversi produttori sono disponibili all'indirizzo www.wistro.com → *Richiesta informazioni sul prodotto*. Per eventuali richieste l'azienda è a completa disposizione anche per consultazioni personali. Prendere in considerazione i disegni riportati di seguito a titolo d'esempio.

	1	2	3	4
A				
B				
C				
D				
E				
	Bg Size HA Tamano mod.			Sachnummer Article no. Numero d'article Código de pieza Numero codice
	1LA6, LG4	WISTRO	* Standardausführung, andere Längen nach Kundenspezifikation möglich * Standard version, different length available * Version standard, différentes spécifications disponibles * Aplicación estándar, posibilidad de otras longitudes según las especificaciones * Versione standard, altre lunghezze possibili in base alle specifiche dei clienti	
	180	(132)	17.10.0254	135
	200			
	225	(132)	17.10.0295	135
	250			
	280	(160)	17.10.0236	160
	315	(160)	17.10.0240	160
F				
	Zust.	Änderung	Datum	Name
				Erstellt: 05.07.2016/AB
				wistro 24.05.0172 SIEMENS 1LG4 Bg180 ILI -Bg315 ILI



Bg	Sachnummer	Standardausführung, andere Längen nach Kundenspezifikation möglich					
Size	Article no.	Standard version, different length available					
HA	Numéro d'article	Version standard, différentes spécifications disponibles					
Tamaño	Código de pieza	Aplicación estándar, posibilidad de otras longitudes según las especificaciones					
mod.	Numero codice	Versione standard, altre lunghezze possibili in base alle specifiche dei clienti					
		A	AF	D	DA	B	
180	17.10.0313	320	168	345	350	50	
200	17.10.0214	320	168	382	390	55	

wistro

24.04.0176
Siemens 1LA5 Bg180 - Bg200

Zust. Änderung Datum Name Erstellt: 24.04.2018/AB

Bg	Sachnummer	Fixe Maße				Standardausführung, andere Längen nach Kundenspezifikation möglich				
Size	Article no.	Fixed dimensions				Standard version, different length available				
HA	Numero d'article	Dimensions fixes				Version standard, différentes spécifications disponibles				
Tamano	Código de pieza	Medidas fijas				Aplicación estándar, posibilidad de otras longitudes según las especificaciones				
mod.	Numero codice	Dimensioni fisse				Versione standard, altre lunghezze possibili in base alle specifiche dei clienti				
		D	D1	DL	I	A	AF	B	DA	E
225	17.10.1114	382	385	375	195	411	216	65	424	Ø9
250	17.10.1115	382	385	375	195	435	240	73	475	Ø9
280	17.10.1109	477	480	470	200	449	249	73	525	Ø9
315	17.10.1056	477	480	470	200	473	273	58	586	Ø9

Installation declaration

for an incomplete machine within the meaning of the EEC Machine Directive 2006/42/EU
Annex IIB

The version of the external ventilation units size 63 to 450 with built-in asynchronous internal and external rotor motor or electronic commutate internal and external rotor motor has been developed, designed and produced in compliance with the above EEC directives under the sole responsibility of the company

WISTRO
Elektro-Mechanik-GmbH
Berliner Allee 29 – 31
D-30855 Langenhagen

and complies with the requirements of Annex I, Articles 1.1.2, 1.1.5, 1.4.1, 1.5.1 of the EU Machine Directive 2006/42/EU.

The following harmonised standards have been used:

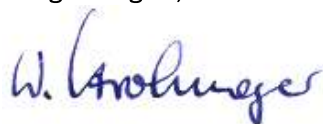
EN 60204-1: 2019 Safety of machines; electrical equipment of machines
EN ISO 12100 : 2010 Safety of machines; fundamental terms, general design guidelines
EN ISO 13857 : 2008 Safety of machines; safe distances

The special technical documents as per Annex VII Part B have been produced and are completely available.

In case of a justified request, the special documents will be communicated to the State authority. This communication may be made electronically, on data carriers or on paper. All protective rights remain with the manufacturer stated above.

This product is only intended for integration into a system which is completed with other devices and must be operated as such. The operator of the overall system is responsible for compliance with the Machine Directive and the conformity procedures.

Langenhagen, 02.03.20



W. Strohmeyer

Manager and person authorised for the special technical documents.

EU Declaration of Conformity

In the sense of the EU Low Voltage Directives 2014/35/EU, EMC 2014/30/EU, ERP 2009/125/EC* and RoHS 2011/65/EU.

The version of the external ventilation units types FLA, FLAI and FLAIR has been developed, designed and produced in compliance with the above EU directives under the sole responsibility of the company:

WISTRO
Elektro-Mechanik-GmbH
Berliner Allee 29 – 31
D-30855 Langenhagen

The following harmonised standards have been used:

EN 50581 :2012
EN 60034-1 :2010 + Cor.:2010
EN 60204-1 :2018
EN 60529 :1991 + A1:2000 + A2:2013 + Cor.:2016 + Cor.:2019
EN 61000-6-3 :2007 + A1:2011 + Cor.:2012
EN 61000-6-2 :2019

The content of the EMC Directive 2014/30/EU only applies to this product if it is directly connected to the normal power supply network. If the product is integrated into a system or is supplemented and operated with other devices, the manufacturer or operator of the total system is responsible for compliance with the EMC Directive.

*All products affected by this directive comply with the guide line (EC) Nr. 327/2011 as per year 2015.

Langenhagen, 12.05.2020



W. Strohmeyer - Manager

Supplier's declaration for the EU chemicals regulation according to regulation 1907/2006/EG (REACH)

We hereby declare that our products

- forced ventilation units type IL and ILI for motor sizes from 63 to 560 -

are compliant with the above EU directive and do not contain substances of very high concern according to the current version of the candidate list or include shares only below the applicable limits.

Langenhagen, 16.07.2020

A handwritten signature in blue ink, appearing to read 'W. Strohmeier', is written over a faint, illegible printed name.

W. Strohmeier (GM)

Supplier's declaration for the avoidance of hazardous substances as per Directive 2011/65/EU (RoHS)

We hereby declare that our products, which have been delivered after 31.03.2015 do not contain the following substances in excess of the stated concentrations:

Chromium VI	0.1% by weight
Cadmium	0.01% by weight
Mercury	0.1% by weight
Lead	0.1% by weight
Polybrominated diphenyl ether (PBDE)	0.1% by weight
Polybrominated biphenyl (PBB)	0.1% by weight
Di(2-ethylhexyl)phthalat	0,1% by weight
Butylbenzylphthalat	0,1% by weight
Dibutylphthalat	0,1% by weight
Diisobutylphthalat	0,1% by weight

A special notification will be made regarding products which do not comply with these requirements.

Amendments which affect the above limits will be notified immediately.

Langenhagen, 16.07.2020



W. Strohmeier (GM)

CERTIFICATE OF COMPLIANCE

Certificate Number 20150311-E233141
Report Reference E233141-20021218
Issue Date 2015-MARCH-11

Issued to: WISTRO ELEKTRO-MECHANIK GMBH
BERLINER ALLEE 29-31
30855 LANGENHAGEN GERMANY

**This is to certify that
representative samples of**

COMPONENT - MOTORS

USR/CNR Component – Electric Fan Motor, single or three phase, Models B20, B30, B31, C35, C36, C60, C61, C62, E30, D48 and F50, Models E31 IL-2-1/063-OT, E31 IL-2-1/071-OT, E31 IL-2-1/080-OT, E31 IL-2-3/063-OT, E31 IL-2-3/071-OT and E31 IL-2-3/080-OT.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 1004-1 Standard for rotating electrical machines - general requirements
Csa-c22.2 no. 100-14 Motors and generators

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations>.



CERTIFICATE OF COMPLIANCE

Certificate Number 20120227-E321784
Report Reference E321784-20120227
Issue Date 2012-FEBRUARY-27
Issued to: WISTRO ELEKTRO-MECHANIK GMBH
BERLINER ALLEE 29-31
30855 LANGENHAGEN GERMANY

This is to certify that representative samples of COMPONENT - FANS, ELECTRIC
Low Voltage Component Fans, Series G30 followed by 24, followed by 063, 071, 080, 090, 100 or 112.
Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: USR - Standard for Electric Fans, UL 507.
CNR - Canadian Standard for Fans and Ventilators, CSA C22.2 No. 113-10.

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Recognized Component Marks for the U.S. and Canada should be considered as being covered by UL's Recognition and Follow-Up Service and meeting the appropriate U.S. and Canadian requirements.

The UL Recognized Component Mark for the U.S. generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: , may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions. The UL Recognized Component Mark for Canada consists of the UL Recognized Mark for Canada:  and the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory.

The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Recognized Component Mark on the product.

William R. Carney, Director, North American Certification Programs

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at www.ul.com/contactus



CERTIFICATE

Management system as per
DIN EN ISO 9001 : 2015

In accordance with TÜV NORD CERT procedures, it is hereby certified that

WISTRO Elektro-Mechanik GmbH
Berliner Allee 29-31
30855 Langenhagen
Germany

The logo for WISTRO, featuring the word "wistro" in a bold, blue, lowercase sans-serif font.

applies a management system in line with the above standard for the following scope

**Development, production and sale of industrial fans as well as
external fan units with steel casings and/or steel casing components.**

Certificate Registration No. 44 100 110005
Audit Report No. 3519 4042

Valid until 2020-05-15
Initial certification 2011

A handwritten signature in black ink, reading "J. Jansen-Landolt".

Certification Body
at TÜV NORD CERT GmbH

Essen, 2017-05-17

This certification was conducted in accordance with the TÜV NORD CERT auditing and certification procedures and is subject to regular surveillance audits.

TÜV NORD CERT GmbH

Langemarckstraße 20

45141 Essen

www.tuev-nord-cert.com



CERTIFICATE

Management system as per
DIN EN ISO 14001 : 2015

In accordance with TÜV NORD CERT procedures, it is hereby certified that

WISTRO Elektro-Mechanik GmbH
Berliner Allee 29-31
30855 Langenhagen
Germany

The logo for WISTRO, featuring the word "wistro" in a bold, blue, lowercase sans-serif font.

applies a management system in line with the above standard for the following scope

**Development, production and sale of industrial fans as well as
external fan units with steel casings and/or steel casing components.**

Certificate Registration No. 44 104 110005
Audit Report No. 3519 4043

Valid until 2020-05-15
Initial certification 2011

A handwritten signature in black ink, reading "J. Jansen-Landolt".

Certification Body
at TÜV NORD CERT GmbH

Essen, 2017-05-17

This certification was conducted in accordance with the TÜV NORD CERT auditing and certification procedures and is subject to regular surveillance audits.

TÜV NORD CERT GmbH

Langemarckstraße 20

45141 Essen

www.tuev-nord-cert.com





TÜV NORD ANLAGENTECHNIK GMBH
Am TÜV 1
30519 Hannover

ANLAGENTECHNIK

**Bescheinigung über die
Prüfung des Gehäuseschutzgrades
gemäß DIN VDE 0470, Teil 1 / EN 60 529**

**Prüflabor
Explosionsgeschützte Betriebsmittel
und Überwachungseinrichtungen**

Angestrebter Schutzgrad: IP 66

**Prüfeinrichtung gemäß DIN VDE 0470, Teil 1 / EN 60 529,
Abschnitte 13.4, 13.6, 14.2.6 und 14.3
(Staubkammer und Strahldüse 12,5 mm)**

Auftraggeber: Fa. WISTRO Elektro-Mechanik GmbH
Karl-Kellner-Str. 105 a
30853 Langenhagen

Prüfgegenstand: Fremdlüfteraggregat Bg 63 bis 200 -Reihe IL

Prüfergebnis: **1. Fremdkörperschutz**

Staubeintritt nein

2. Wasserschutz

Wassereintritt: nein

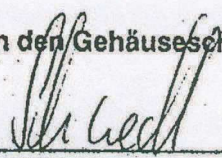
Bearbeiter: Dr. Ing. M. Rusch / H. Lenz

Auftragsnummer: 7512 PE 00900

Prüfdatum: 09.05.2000

Der Prüfgegenstand erfüllt die Anforderungen an den Gehäuseschutzgrad IP 66

Hannover, 17.05.2000
Ort, Datum


Der Leiter des Prüflabors
Explosionsgeschützte Betriebsmittel
und Überwachungseinrichtungen

Die auszugsweise Vervielfältigung dieser Bescheinigung und die Verwendung zu Werbezwecken bedarf der schriftlichen Genehmigung des Prüflaboratoriums.
Diese Bescheinigung stellt das Ergebnis der Prüfung an dem vorgestellten Prüfgegenstand dar. Eine allgemein gültige Aussage über die Qualität der Produkte aus der laufenden Fertigung kann daraus nicht abgeleitet werden.

Volumenstrom [m³/h], Baureihe IL / ILI
 Air current capacity [m³/h], type IL / ILI
 Courant en volumes [m³/h], version IL / ILI
 Caudal volumétrico [m³/h], variante de serie IL / ILI
 Portata in volume[m³/h], serie IL / ILI

IL

Bg Frame size HA Tamaño mod.	400V 50Hz	460V 60Hz	400V 50Hz	460V 60Hz	400V 50Hz	460V 60Hz
	3 ~ Y 2-polig	3 ~ Y 2-polig	3 ~ Y 4-polig	3 ~ Y 4-polig	3 ~ Δ 4-polig	3 ~ Δ 4-polig
63	54	69	/	/	/	/
71	78	98	/	/	/	/
80	127	148	/	/	/	/
90	200	240	109	130	/	/
100	260	310	141	164	/	/
112	337	411	168	200	/	/
132	532	633	278	330	/	/
160	935	1068	507	607	/	/
180	1145	1270	604	680	/	/
200	1263	1450	640	760	/	/
204	/	/	990	1163	1051	1271
225	/	/	1123	1295	1180	1415
249	/	/	1350	1570	1450	1732
250	/	/	1666	1885	1839	2190
280	/	/	2116	2461	2404	2840
315	/	/	2662	2943	2848	3350

mit b-seitigem Referenzlagerschild /with bearing shield of reference on side b /avec de référence flasque latérale b / placa de referencia en el lado b /con targhetta cuscinetti di riferimento lato b

Volumenstrom [m³/h], Baureihe IL / ILI
 Air current capacity [m³/h], type IL / ILI
 Courant en volumes [m³/h], version IL / ILI
 Caudal volumétrico [m³/h], variante de serie IL / ILI
 Portata in volume[m³/h], serie IL / ILI

ILI

Bg Frame size HA Tamaño mod.	400V 50Hz	460V 60Hz	400V 50Hz	460V 60Hz	400V 50Hz	460V 60Hz
	3 ~ Y 2-polig	3 ~ Y 2-polig	3 ~ Y 4-polig	3 ~ Y 4-polig	3 ~ Δ 4-polig	3 ~ Δ 4-polig
63	54	69	/	/	/	/
71	78	99	/	/	/	/
80	128	151	/	/	/	/
90	216	258	/	/	/	/
100	278	328	/	/	/	/
112	355	418	180	210	/	/
132	550	650	290	340	/	/
160	980	1160	520	620	/	/
180	1200	1379	619	695	/	/
200	1324	1575	656	776	/	/
204	/	/	1062	1237	1103	1313
225	/	/	1283	1467	1337	1580
249	/	/	1457	1714	1532	1832
250	/	/	1672	1919	1764	2097
280	/	/	2170	2472	2319	2760
315	/	/	2560	2935	2747	3274

mit b-seitigem Referenzlagerschild /with bearing shield of reference on side b /avec de référence flasque latérale b / placa de referencia en el lado b /con targhetta cuscinetti di riferimento lato b

Schalldruckpegel [dB(A)], Baureihe ILI
noise level [dB(A)], type ILI
niveau de pression acoustique [dB(A)], version ILI
Nivel sonoro [dB(A)], variante de serie ILI
Livello di pressione acustica [dB(A)], serie ILI

Bg	400V 50Hz	460V 60Hz	400V 50Hz	460V 60Hz	400V 50Hz	460V 60Hz
Frame size	3 ~ Y	3 ~ Y	3 ~ Y	3 ~ Y	3 ~ Δ	3 ~ Δ
HA	2-polig	2-polig	4-polig	4-polig	4-polig	4-polig
Tamaño mod.						
63	47	52	/	/	/	/
71	51	56	/	/	/	/
80	54	58	/	/	/	/
90	59	63	40	45	/	/
100	60	65	43	47	/	/
112	62	66	45	50	/	/
132	67	71	52	56	/	/
160	73	77	56	60	/	/
180	73	77	56	60	/	/
200	74	78	56	61	/	/
204	/	/	61	65	62	67
225	/	/	62	66	63	67
249	/	/	62	66	64	69
250	/	/	66	71	68	72
280	/	/	67	71	68	73
315	/	/	68	71	70	74

DIN EN ISO 4871 2009-11/ Hüllfläche nach DIN 45635-38 1986-04 beträgt 42,6m²
 DIN EN ISO 4871 2009-11/ enveloping surface DIN 45635-38 1986-04 amounts 42,6m²

mit b-seitigem Referenzlagerschild
 with bearing shield of reference on side b
 avec de référence flasque latérale b
 placa de referencia en el lado b
 con targhetta cuscinetti di riferimento lato b

Spannungseinsatzbereich, Baureihe IL / ILI
Range of operating voltage, type IL / ILI
Intervalle de mises sous tension, version IL / ILI
Rango de ajuste de tensión, variante de serie IL / ILI
Campo di applicazione della tensione, serie IL / ILI

Drehstrommotor, zweipolig 3~230V/400V IL

Three phase alternating current motor, bipolar 3~230V/400V IL

Moteur à courant triphasé, bipolaire 3~230V/400V IL

Motor trifásico, dos polos 3~230V/400V IL

Motore a corrente trifase, a due poli 3~230V/400V IL

Betriebsart Mode Couplage Modo de funcionamiento Modalità operativa	Bg Frame size HA Tamaño mod.	Lüfterdurchmesser Blower diameter Diamètre des ventateurs Diametro del ventatore Diametro del ventatore	Spannungsbereich Range of voltage Plage de tension Rango de tensiones Campo di tensione	Max. zulässiger Strom Max. permissible current Courant max. admissible Corrente máxima permitida Corrente massima consentita	max. Leistungsaufnahme max. power input max. puissance absorbée Consumo máxima de energía Potenza massima assorbita
		(mm)	50Hz (V) 60Hz	50Hz (A) 60Hz	50Hz (W) 60Hz
1~ Δ	63	118	230-277 230-277	0,11 0,12	27 32
	71	132	230-277 230-277	0,10 0,12	27 33
	80	150	230-277 230-277	0,11 0,14	29 37
	90	169	220-277 220-277	0,29 0,25	65 65
	100	187	220-277 220-277	0,28 0,30	66 75
	112	210	220-277 220-277	0,28 0,37	71 94
	132	250	230-277 230-277	0,40 0,57	98 149
	160-200	300	230-277 -----	0,97 -----	253 -----
3~Y	63	118	346-525 380-575	0,07 0,06	28 28
	71	132	346-525 380-575	0,06 0,06	31 29
	80	150	346-525 380-575	0,06 0,06	31 34
	90	169	346-525 380-575	0,22 0,19	91 77
	100	187	346-525 380-575	0,22 0,18	91 87
	112	210	346-525 380-575	0,20 0,18	97 103
	132	250	346-525 380-575	0,33 0,25	124 148
	160-200	300	346-525 380-575	0,5 0,56	247 360
3~ Δ	63	118	200-303 220-332	0,12 0,10	28 28
	71	132	200-303 220-332	0,11 0,10	31 29
	80	150	200-303 220-332	0,11 0,10	31 34
	90	169	200-303 220-332	0,38 0,33	91 77
	100	187	200-303 220-332	0,37 0,31	91 87
	112	210	200-303 220-332	0,35 0,31	97 103
	132	250	200-303 220-332	0,58 0,44	124 148
	160-200	300	200-303 220-332	0,87 0,93	247 360

mit b-seitigem Referenzlagerschild /with bearing shield of reference on side b /avec de référence flasque latérale b /
placa de referencia en el lado b /con targhetta cuscinetti di riferimento lato b

Spannungseinsatzbereich, Baureihe IL / ILI
Range of operating voltage, type IL / ILI
Intervalle de mises sous tension, version IL / ILI
Rango de ajuste de tensión, variante de serie IL / ILI
Campo di applicazione della tensione, serie IL / ILI

Drehstrommotor, zweipolig 3~230V/400V ILI

Three phase alternating current motor, bipolar 3~230V/400V ILI

Moteur à courant triphasé, bipolaire 3~230V/400V ILI

Motor trifásico, dos polos 3~230V/400V ILI

Motore a corrente trifase, a due poli 3~230V/400V ILI

Betriebsart Mode Couplage Modo de funcionamiento Modalità operativa	Bg Frame size HA Tamaño mod.	Lüfterdurchmesser Blower diameter Diamètre des ventilateurs Diametro del ventilatore Diametro del ventilatore	Spannungsbereich Range of voltage Plage de tension Rango de tensiones Campo di tensione	Max. zulässiger Strom Max. permissible current Courant max. admissible Corriente máxima permitida Corrente massima consentita	max. Leistungsaufnahme max. power input max. puissance absorbée Consumo máxima de energía Potenza massima assorbita
		(mm)	50Hz (V) 60Hz	50Hz (A) 60Hz	50Hz (W) 60Hz
1~I(Δ)	63	118	230-277 230-277	0,18 0,21	46 54
	71	132	230-277 230-277	0,18 0,21	48 56
	80	150	230-277 230-277	0,19 0,22	48 59
	90	169	220-277 220-277	0,29 0,23	59 61
	100	187	220-277 220-277	0,29 0,28	62 73
	112	210	220-277 220-277	0,27 0,36	64 88
	132	250	230-277 230-277	0,52 0,61	125 163
	160-200	300	230-277 230-277	1,05 1,52	246 390
3~Y	63	118	346-525 380-575	0,09 0,08	28 29
	71	132	346-525 380-575	0,09 0,07	29 28
	80	150	346-525 380-575	0,09 0,07	33 36
	90	169	346-525 380-575	0,22 0,18	78 71
	100	187	346-525 380-575	0,21 0,18	80 80
	112	210	346-525 380-575	0,20 0,17	87 93
	132	250	346-525 380-575	0,37 0,32	160 180
	160-200	300	346-525 380-575	0,74 0,62	314 391
3~Δ	63	118	200-303 220-332	0,15 0,14	28 29
	71	132	200-303 220-332	0,15 0,13	29 28
	80	150	200-303 220-332	0,16 0,13	33 36
	90	169	200-303 220-332	0,39 0,32	78 71
	100	187	200-303 220-332	0,37 0,30	80 80
	112	210	200-303 220-332	0,35 0,29	87 93
	132	250	200-303 220-332	0,64 0,55	160 180
	160-200	300	200-303 220-332	1,28 1,08	314 391

mit b-seitigem Referenzlagerschild /with bearing shield of reference on side b /avec de référence flasque latérale b /
placa de referencia en el lado b /con targhetta cuscinetti di riferimento lato b

Spannungseinsatzbereich, Baureihe IL / ILI

Range of operating voltage, type IL

Intervalle de mises sous tension, version IL

Rango de ajuste de tensión, variante de serie IL

Campo di applicazione della tensione, serie IL

Drehstrommotor, vierpolig 3~230V/400V, IL

Three phase alternating current motor, quadripolar 3~230V/400V, IL

Moteur à courant triphasé, quadripolaire 3~230V/400V, IL

Motor trifásico, cuatro polos 3~230V/400V, IL

Motore a corrente trifase, a quattro poli 3~230V/400V, IL

Betriebsart Mode Couplage Modo de funcionamiento Modalità operativa	Bg Frame size HA Tamaño mod.	Lüfterdurchmesser Blower diameter Diamètre des ventilateurs Diametro del ventilatore Diametro del ventilatore	Spannungsbereich Range of voltage Plage de tension Rango de tensiones Campo di tensione	Max. zulässiger Strom Max. permissible current Courant max. admissible Corrente máxima permitida Corrente massima consentita	max. Leistungsaufnahme max. power input max. puissance absorbée Consumo máxima de energía Potenza massima assorbita
		(mm)	50Hz (V) 60Hz	50Hz (A) 60Hz	50Hz (W) 60Hz
1~ I(Δ)	90	169	230-277 230-277	0.16 0.16	40 40
	100	187	230-277 230-277	0.16 0.16	40 41
	112	210	230-277 230-277	0.16 0.16	41 42
	132	250	230-277 230-277	0.28 0.26	61 67
	160-200	300	230-277 230-277	0.45 0.43	93 112
3~ Y	90	169	346-525 380-575	0.10 0.09	51 47
	100	187	346-525 380-575	0.10 0.09	51 48
	112	210	346-525 380-575	0.10 0.09	51 51
	132	250	346-525 380-575	0.21 0.19	81 67
	160-200	300	346-525 380-575	0.35 0.31	118 104
	204-249	375	346-525 380-575	0.35 0.43	170 262
			346-690 * 380-690	0.64 0.44	285 285
	250-450	470	346-525 380-575	0.59 0.83	321 505
			346-690 * 380-690	1.13 0.82	454 540
3~ Δ	90	169	200-303 220-332	0.18 0.16	51 47
	100	187	200-303 220-332	0.17 0.16	51 48
	112	210	200-303 220-332	0.17 0.16	51 51
	132	250	200-303 220-332	0.38 0.33	81 67
	160-200	300	200-303 220-332	0.62 0.54	118 104
	204-249	375	200-400 220-400	1.10 0.76	285 285
			200-400 * 220-400	1.10 0.76	285 285
	250-450	470	200-400 220-400	1.95 1.42	454 540
			200-400 * 220-400	1.95 1.42	454 540

*Variante bis 690V ohne UL-Zulassung

*Version up to 690V without UL-certification

Hinweis: Bg204 > ohne Stufenrohr mit Lüfter 375mm
Bg249 > wie Bg250 jedoch noch mit Lüfter 375mm

Drehstrommotor, vierpolig 3~230V/400V, **ILI**

Three phase alternating current motor, quadripolar 3~230V/400V, **ILI**

Moteur à courant triphasé, quadripolaire 3~230V/400V, **ILI**

Motor trifásico, cuatro polos 3~230V/400V, **ILI**

Motore a corrente trifase, a quattro poli 3~230V/400V, **ILI**

Betriebsart Mode Couplage Modo de funcionamiento Modalità operativa	Bg Frame size HA Tamaño mod.	Lüfterdurchmesser Blower diameter Diamètre des ventilateurs Diametro del ventilatore Diametro del ventilatore	Spannungsbereich Range of voltage Plage de tension Rango de tensiones Campo di tensione	Max. zulässiger Strom Max. permissible current Courant max. admissible Corrente máxima permitida Corrente massima consentita	max. Leistungsaufnahme max. power input max. puissance absorbée Consumo máxima de energía Potenza massima assorbita
		(mm)	50Hz (V) 60Hz	50Hz (A) 60Hz	50Hz (W) 60Hz
1~ I(Δ)	90	169	230-277 230-277	0,16 0,16	40 40
	100	187	230-277 230-277	0,17 0,17	41 41
	112	210	230-277 230-277	0,17 0,17	42 43
	132	250	230-277 230-277	0,33 0,23	48 53
	160-200	300	230-277 230-277	0,34 0,29	59 71
3~ Y	90	169	346-525 380-575	0,10 0,09	51 47
	100	187	346-525 380-575	0,10 0,09	55 53
	112	210	346-525 380-575	0,10 0,10	56 56
	132	250	346-525 380-575	0,24 0,21	67 55
	160-200	300	346-525 380-575	0,25 0,21	84 86
	204-249	375	346-525 380-575	0,31 0,34	154 223
			346-690 * 380-690	0,53 0,36	238 247
	250-450	470	346-525 380-575	0,42 0,61	254 396
			346-690 * 380-690	0,77 0,61	330 415
3~ Δ	90	169	200-303 220-332	0,18 0,16	51 47
	100	187	200-303 220-332	0,17 0,16	55 53
	112	210	200-303 220-332	0,17 0,16	56 56
	132	250	200-303 220-332	0,42 0,36	67 55
	160-200	300	200-303 220-332	0,43 0,37	84 86
	204-249	375	200-400 220-400	0,91 0,62	238 247
			200-400 * 220-400	0,91 0,62	238 247
	250-450	470	200-400 220-400	1,34 1,06	330 415
			200-400 * 220-400	1,34 1,06	330 415

*Variante bis 690V ohne UL-Zulassung

*Version up to 690V without UL-certification

Hinweis: Bg204 > ohne Stufenrohr mit Lüfter 375mm
Bg249 > wie Bg250 jedoch noch mit Lüfter 375mm

mit b-seitigem Referenzlagerschild
with bearing shield of reference on side b
avec de référence flasque latérale b
placa de referencia en el lado b
con targhetta cuscinetti di riferimento lato b