

FE2owlet with ZPlus

for single phase alternating current, 4 pole

ZNO45-4E



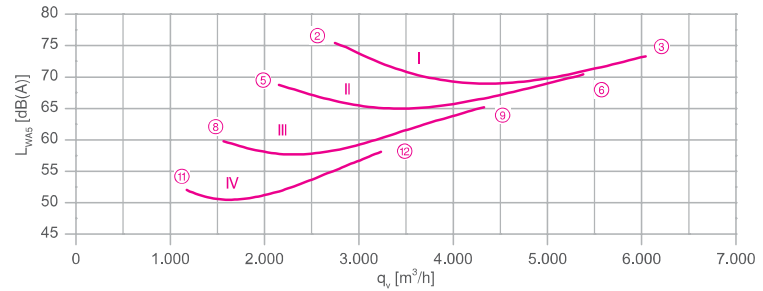
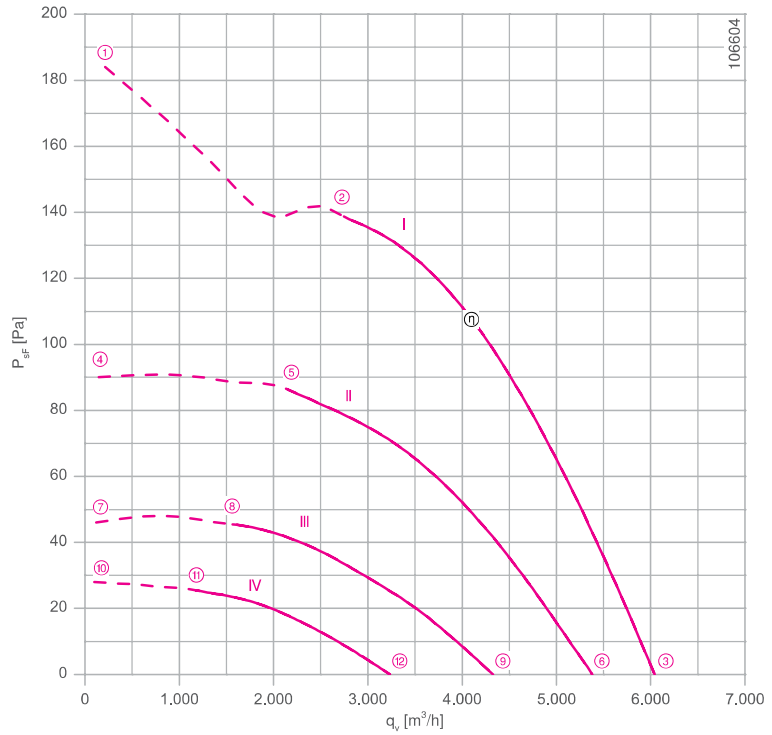
Description

Motor technology: AC
 Rated voltage U_N : 1~ 230 V±10 %*
 Rated frequency f_N : 50 Hz*
 Input power P_i : 380 W*
 Rated current I_N : 1.70 A*
 Rated speed n_N : 1250 min⁻¹*
 Starting current I_s : 3.60 A
 Current increase ΔI : 5 %
 Service capacitor C_{400V} : 7.0 μ F
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -25 °C
 Max. permitted ambient temperature $t_{R(max)}$: 65 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP44
 Motor protection: thermal contact
 Blades: High Performance Composite Material, uncoated,
 Rotor: Aluminium, 1 coat paint, jet black
 Conformity: ErP 2015, CE

ErP-data

Efficiency η_{statA} : 34.5 %
 Efficiency: $N_{actual} = 43.6 / N_{target} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

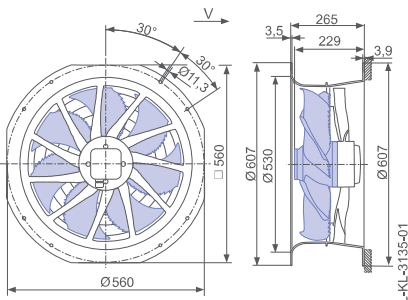
Connection diagram Page 531
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System components Page 430

Dimensions mm

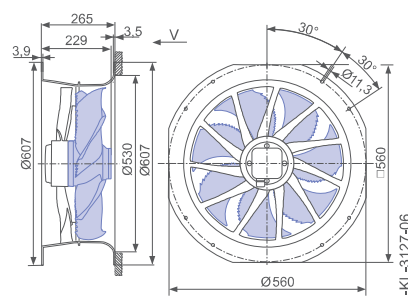
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

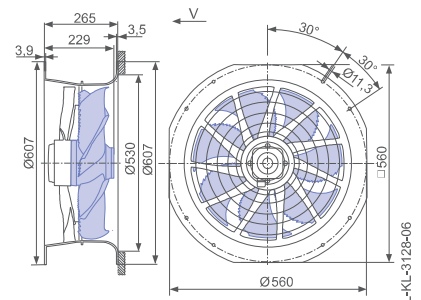


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level
		U V		I A	P ₁ W	n min ⁻¹	L _{WA5} dB(A)
ZN045-4E_2F_7P2	I	230	①	2.10	460	1150	
		230*	②	1.70*	380*	1250*	76
		230	③	1.35	300	1340	73
	II	170	④	2.00	330	800	
		170	⑤	1.75	300	990	69
		170	⑥	1.40	230	1200	70
	III	135	⑦	1.70	220	580	
		135	⑧	1.65	220	720	60
		135	⑨	1.45	190	970	65
	IV	110	⑩	1.45	160	440	
		110	⑪	1.40	150	540	52
		110	⑫	1.35	140	730	58

*rated data

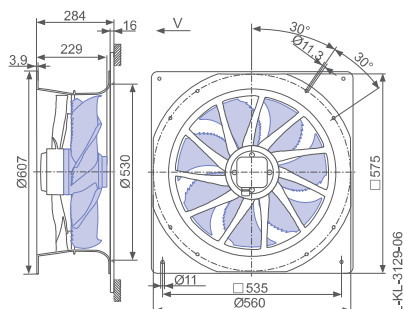
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille) side	Q (guard grille pressure side) side	H (guard grille pressure side) Flattop
Type	ZN045-4EL.2F.V7P2	ZN045-4EL.2F.V7P2	ZN045-4EL.2F.V7P2	ZN045-4EQ.2F.V7P2	ZN045-4EQ.2F.V7P2	ZN045-4EH.2F.V7P2
Article no.	166922	166885	166886	166890	166891	166895
Weight kg	9.20	8.20	8.80	8.90	9.60	8.60
ZAplus attachable on both sides.						

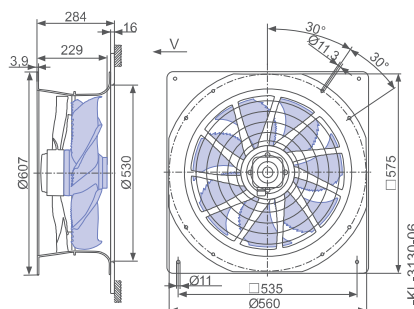
Control technology

Frequency Inverters Fcontrol 1~	Motor protection units 1~	Electronic voltage controllers 1~
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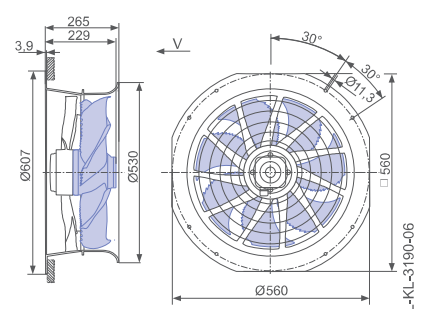
Design Q - ZAplus with adapter plate, without guard grille



Design Q - ZAplus with adapter plate, guard grille pressure side



Design H - ZAplus Flattop, guard grille pressure side



FE2owlet with ZPlus

for single phase alternating current, 4 pole

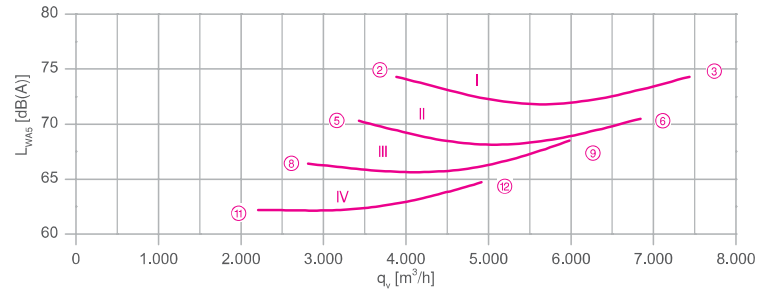
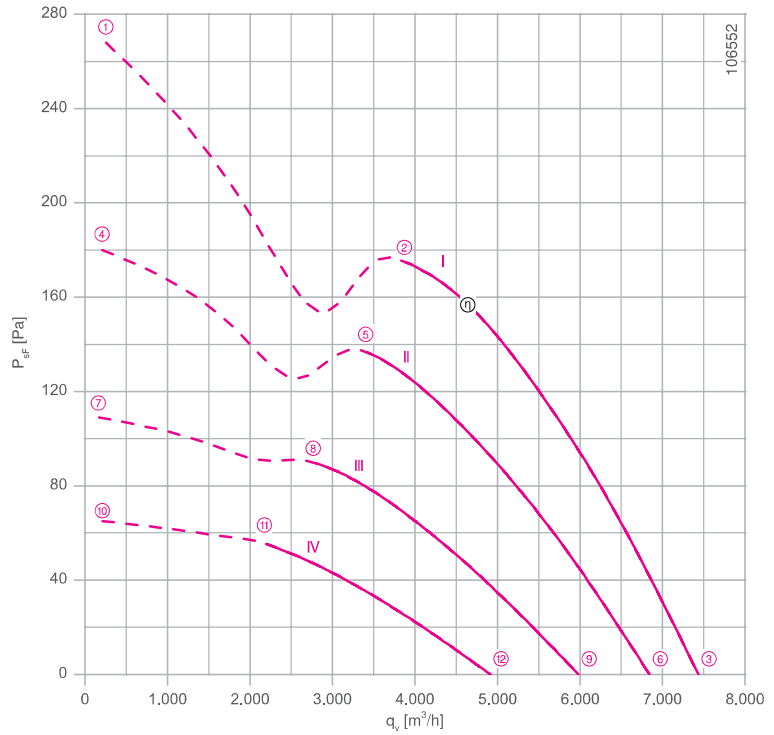
ZNO45-4E



Description

Motor technology: AC
 Rated voltage U_N : 1~ 230 V±10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 0.54 kW*
 Rated current I_N : 2.50 A*
 Rated speed n_N : 1310 min⁻¹*
 Starting current I_s : 6.50 A
 Current increase ΔI : 0 %
 Service capacitor C_{400V} : 14.0 μ F
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -25 °C
 Max. permitted ambient temperature $t_{R(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 38.8 %
 Efficiency: $N_{actual} = 46.9 / N_{target} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

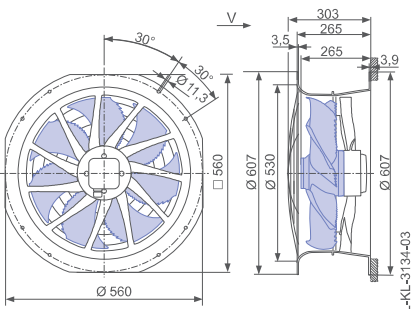
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Dimensions mm

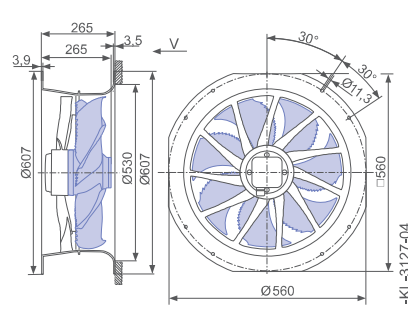
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

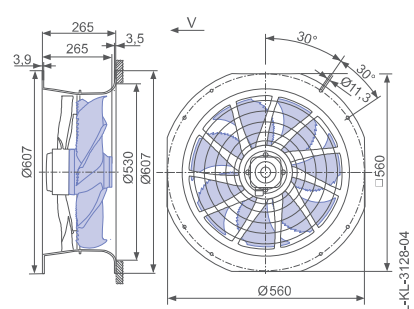


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
		U V		I A	P_1 W	n min ⁻¹	
ZN045-4E_.4I_.7P1	I	230	①	2.90	640	1250	
		230*	②	2.50*	540*	1310*	74
		230	③	2.10	460	1360	74
	II	170	④	2.90	480	1020	
		170	⑤	2.50	420	1150	70
		170	⑥	2.10	350	1260	71
	III	135	⑦	2.70	340	800	
		135	⑧	2.50	320	940	67
		135	⑨	2.20	280	1100	69
	IV	110	⑩	2.40	240	620	
		110	⑪	2.30	230	740	62
		110	⑫	2.10	220	900	65

*rated data

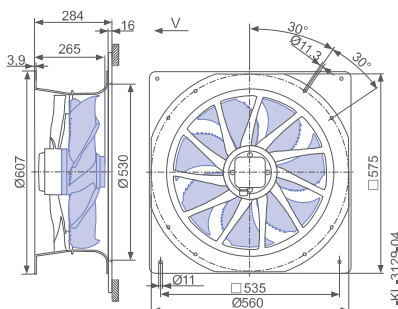
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille) side	Q (guard grille pressure side) side	H (guard grille pressure side) Flattop
Type	ZN045-4EL.4I.V7P1	ZN045-4EL.4I.V7P1	ZN045-4EL.4I.V7P1	ZN045-4EQ.4I.V7P1	ZN045-4EQ.4I.V7P1	ZN045-4EH.4I.V7P1
Article no.	169868	166841	166842	166846	166847	166851
Weight kg	13.60	14.20	14.80	14.90	15.60	14.80
ZPlus attachable on both sides.						

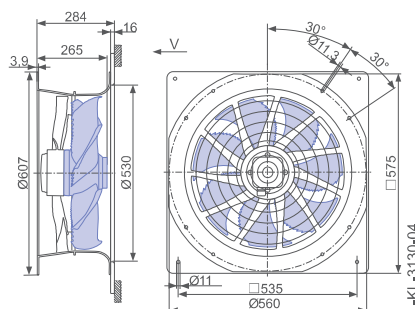
Control technology

Frequency Inverters Fcontrol 1~	Motor protection units 1~	Electronic voltage controllers 1~
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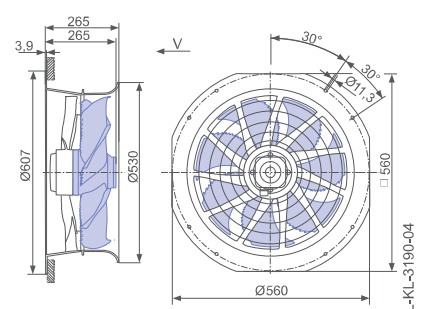
Design Q - ZPlus with adapter plate, without guard grille



Design Q - ZPlus with adapter plate, guard grille pressure side



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for single phase alternating current, 6 pole

ZNO45-6E



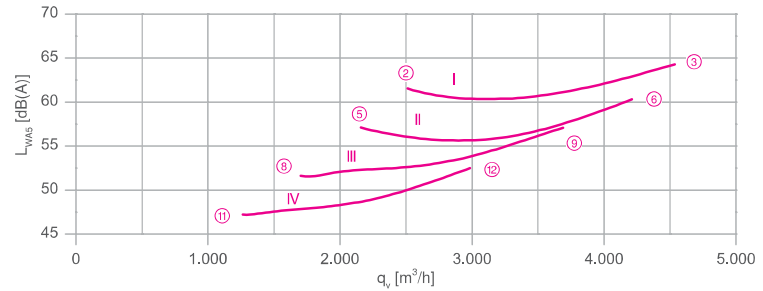
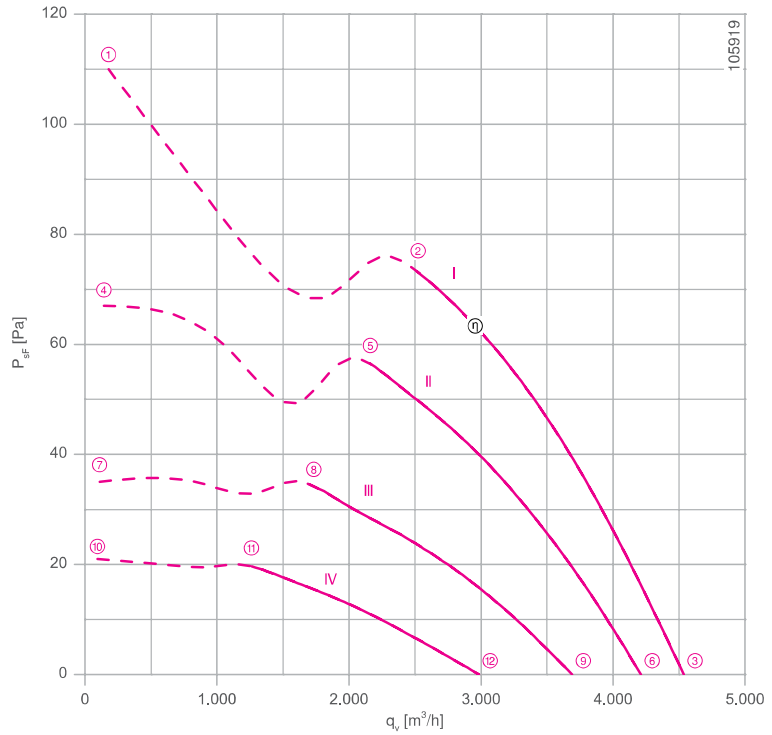
Description

Motor technology: AC
 Rated voltage U_N : 1~ 230 V±10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 180 W*
 Rated current I_N : 0.80 A*
 Rated speed n_N : 870 min⁻¹*
 Starting current I_s : 1.50 A
 Current increase ΔI : 0 %
 Service capacitor C_{400V} : 6.0 μ F
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -25 °C
 Max. permitted ambient temperature $t_{R(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP44
 Motor protection: thermal contact
 Blades: High Performance Composite Material, uncoated,
 Rotor: Aluminium, 1 coat paint, jet black
 Conformity: ErP 2015, CE

ErP-data

Efficiency η_{statA} : 30.0 %
 Efficiency: $N_{actual} = 41.1 / N_{target} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

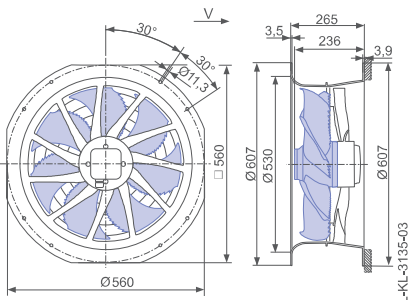
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System components Page 430

Dimensions mm

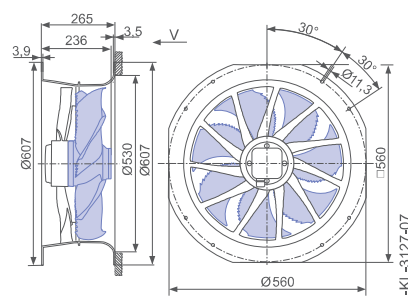
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

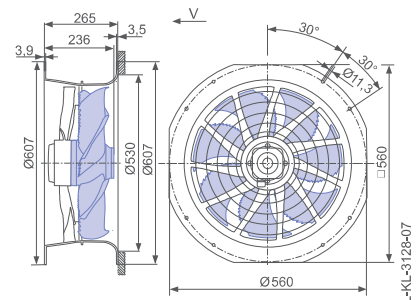


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
		U V		I A	P_1 W	n min ⁻¹	
ZN045-6E_2F_7P3	I	230	①	0.94	210	820	
		230*	②	0.80*	180*	870*	62
		230	③	0.70	160	920	64
	II	170	④	0.90	150	630	
		170	⑤	0.76	130	760	57
		170	⑥	0.62	110	850	60
	III	135	⑦	0.78	100	460	
		135	⑧	0.74	100	590	53
		135	⑨	0.62	85	750	57
	IV	110	⑩	0.68	70	350	
		110	⑪	0.66	70	440	48
		110	⑫	0.60	65	600	53

*rated data

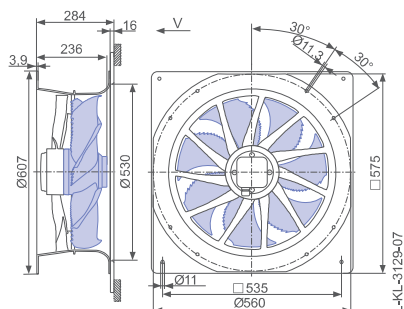
Fan ordering information

	Airflow direction		Airflow direction			
Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille) side	Q (guard grille pressure side) side	H (guard grille pressure side) Flattop
Type	ZN045-6EL.2F.V7P3	ZN045-6EL.2F.V7P3	ZN045-6EL.2F.V7P3	ZN045-6EQ.2F.V7P3	ZN045-6EQ.2F.V7P3	ZN045-6EH.2F.V7P3
Article no.	166924	166907	166908	166912	166913	166917
Weight kg	9.30	8.20	8.90	9.00	9.60	8.90
	ZApplus attachable on both sides.					

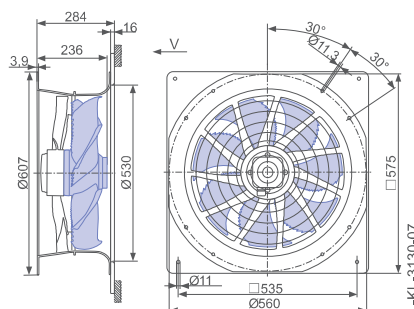
Control technology

Frequency Inverters Fcontrol 1~ Page 474	Motor protection units 1~ Page 518	Electronic voltage controllers 1~ Page 492
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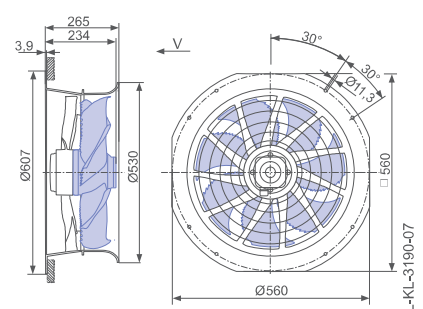
Design Q - ZApplus with adapter plate, without guard grille



Design Q - ZApplus with adapter plate, guard grille pressure side



Design H - ZApplus Flattop, guard grille pressure side



FE2owlet with ZPlus

for single phase alternating current, 6 pole

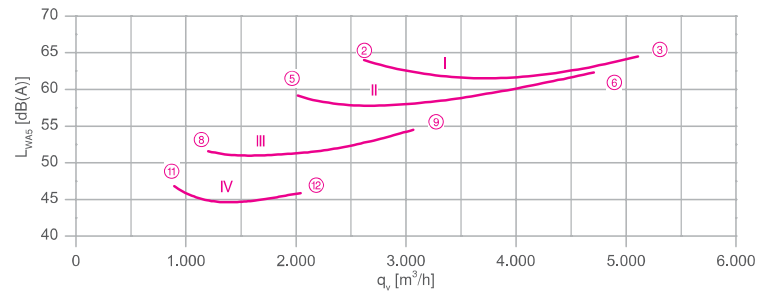
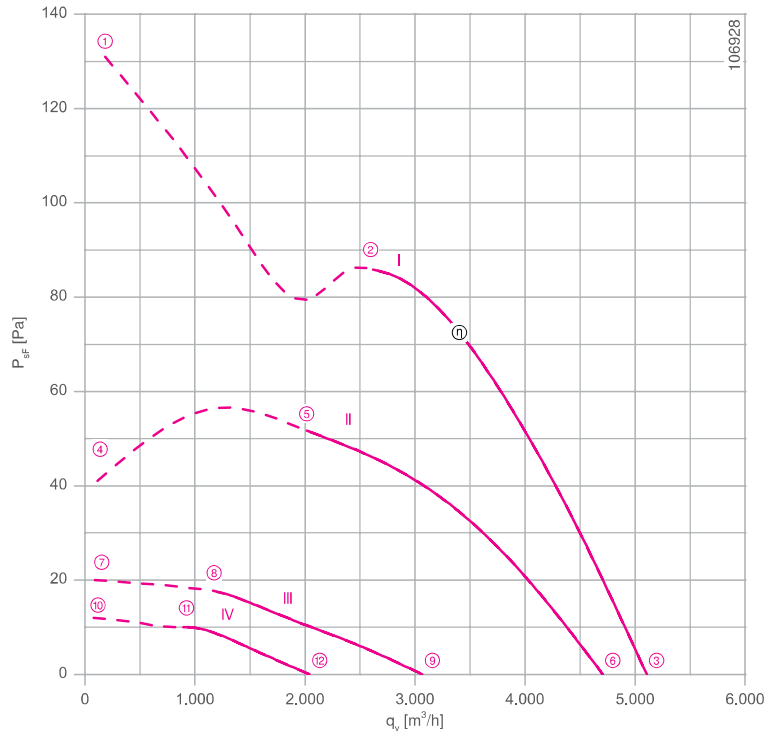
ZNO45-6E



Description

Motor technology: AC
 Rated voltage U_N : 1~ 230 V±10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 190 W*
 Rated current I_N : 0.92 A*
 Rated speed n_N : 910 min⁻¹*
 Starting current I_s : 2.00 A
 Current increase ΔI : 25 %
 Service capacitor C_{400V} : 6.0 μ F
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -25 °C
 Max. permitted ambient temperature $t_{R(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 37.0 %
 Efficiency: $N_{actual} = 47.9 / N_{target} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

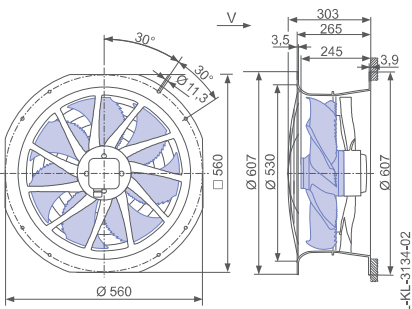
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Dimensions mm

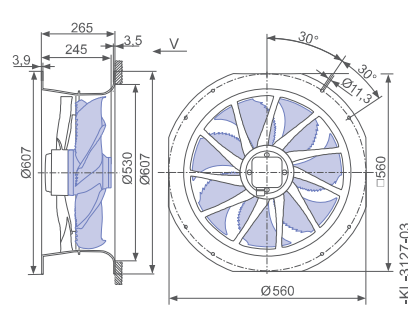
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

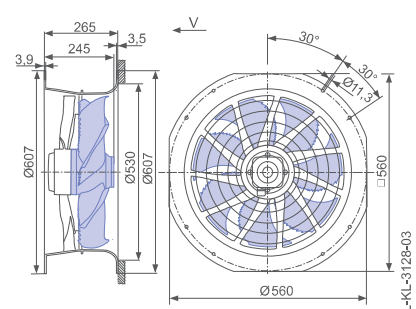


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
		U V		I A	P_1 W	n min ⁻¹	
ZN045-6E_4F_7P1	I	230	①	1.15	240	860	
		230*	②	0.90*	190*	910*	64
		230	③	0.76	160	940	65
	II	170	④	1.30	180	490	
		170	⑤	1.10	170	710	59
		170	⑥	0.80	130	870	62
	III	135	⑦	1.00	110	330	
		135	⑧	1.00	110	400	52
		135	⑨	0.96	110	570	55
	IV	110	⑩	0.84	75	260	
		110	⑪	0.84	75	310	47
		110	⑫	0.82	70	380	46

*rated data

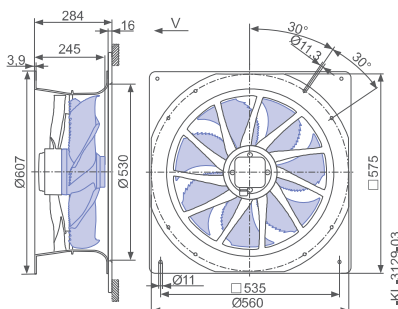
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille) side	Q (guard grille pressure side) side	H (guard grille pressure side) Flattop
Type	ZN045-6EL.4F.V7P1	ZN045-6EL.4F.V7P1	ZN045-6EL.4F.V7P1	ZN045-6EQ.4F.V7P1	ZN045-6EQ.4F.V7P1	ZN045-6EH.4F.V7P1
Article no.	166921	166863	166864	166868	166869	166873
Weight kg	13.60	12.60	13.20	13.30	14.00	13.20
ZApplus attachable on both sides.						

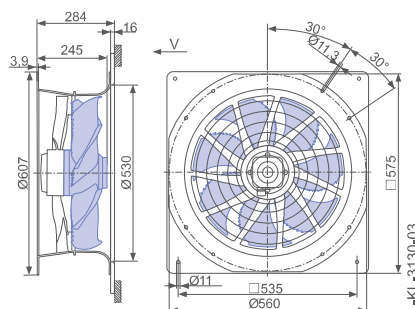
Control technology

<p>Frequency Inverters Fcontrol 1~</p> <p>Page 474</p>	<p>Motor protection units 1~</p> <p>Page 518</p>	<p>Electronic voltage controllers 1~</p> <p>Page 492</p>
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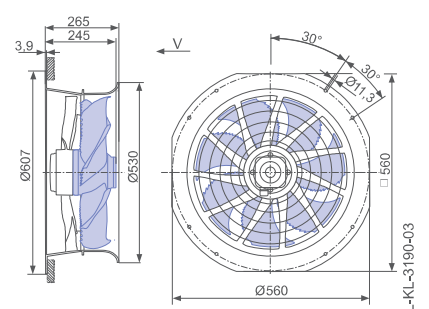
Design Q - ZApplus with adapter plate, without guard grille



Design Q - ZApplus with adapter plate, guard grille pressure side



Design H - ZApplus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 4-4 pole

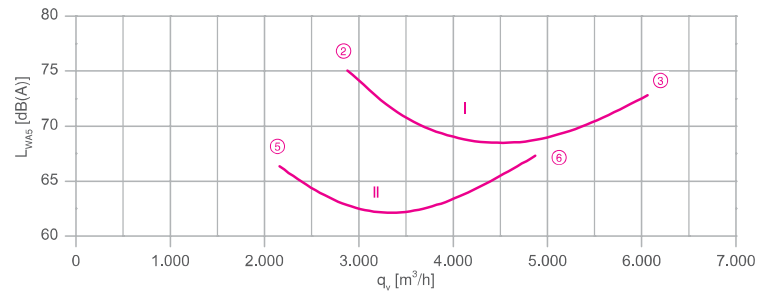
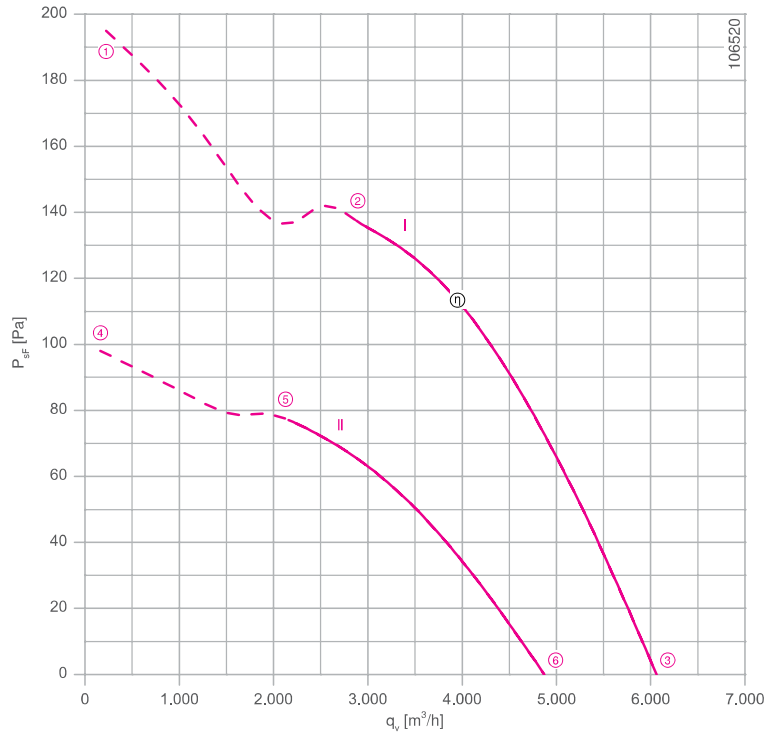
ZNO45-VD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 0.35/0.22 kW*
 Rated current I_N : 0.64/0.35 A*
 Rated speed n_N : 1260/ 950 min^{-1} *
 Starting current I_s : 1.90 / 0.65 A
 Current increase ΔI : 0 %
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(\text{min})}$: -40 °C
 Max. permitted ambient temperature $t_{R(\text{max})}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP44
 Motor protection: thermal contact
 Blades: High Performance Composite Material, uncoated,
 Rotor: Aluminium, 1 coat paint, jet black
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 38.5 %
 Efficiency: $N_{\text{actual}} = 47.9 / N_{\text{target}} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

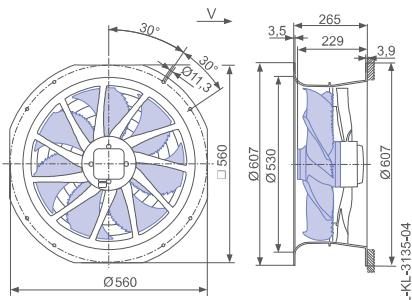
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System components Page 430

Dimensions mm

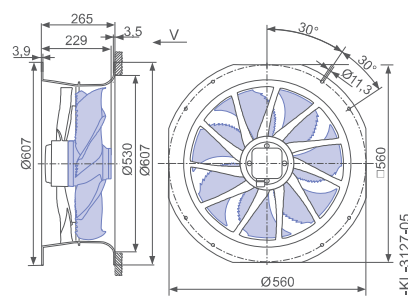
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

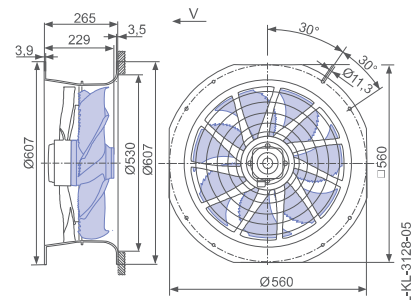


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
ZN045-VD_2F_7P2	Δ	I	400	①	0.72	420	1190	
			400*	②	0.64*	350*	1260*	75
			400	③	0.54	260	1340	73
	Y	II	400	④	0.38	240	850	
			400*	⑤	0.34*	220*	950*	67
			400	⑥	0.28	180	1090	67

*rated data

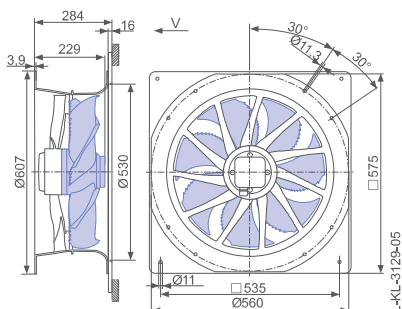
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN045-VDL.2F.V7P2	ZN045-VDL.2F.V7P2	ZN045-VDL.2F.V7P2	ZN045-VDQ.2F.V7P2	ZN045-VDQ.2F.V7P2	ZN045-VDH.2F.V7P2
Article no.	169870	166874	166875	166879	166880	166884
Weight kg	9.20	8.20	8.80	8.90	9.60	8.60
ZAplus attachable on both sides.						

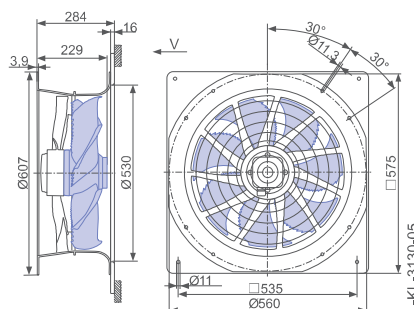
Control technology

<p>Frequency inverters Fcontrol 3~</p> <p>Page 480</p>	<p>Motor protection units 3~</p> <p>Page 518</p>	<p>Electronic voltage controllers 3~</p> <p>Page 506</p>
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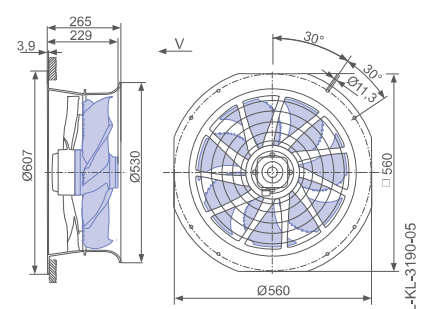
Design Q - ZAplus with adapter plate, without guard grille



Design Q - ZAplus with adapter plate, guard grille pressure side



Design H - ZAplus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 4-4 pole

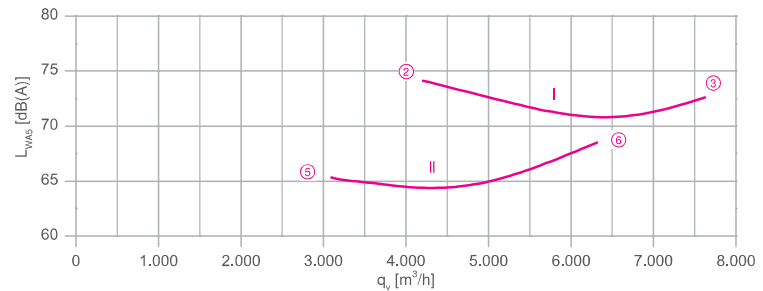
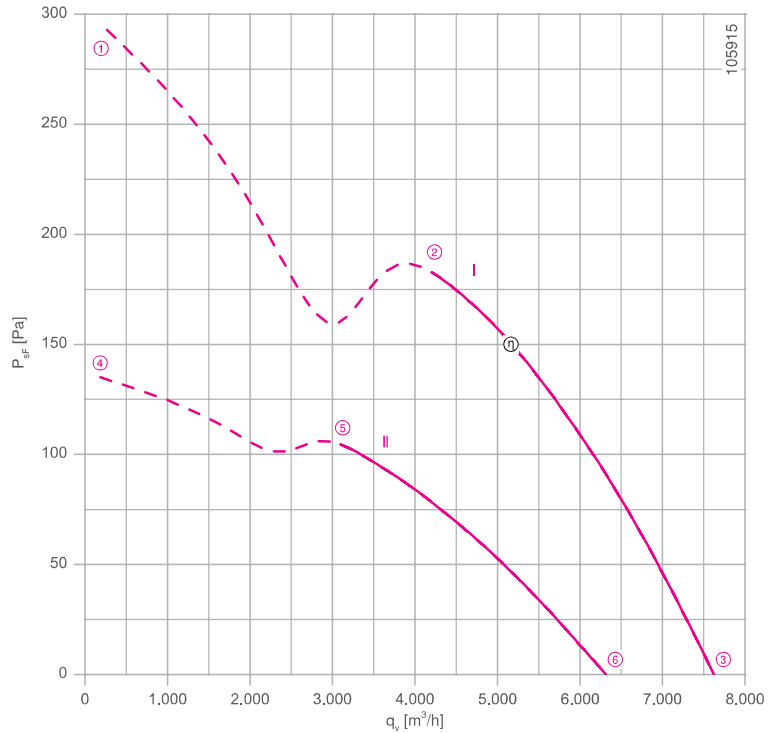
ZN045-VD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 0.56/0.38 kW*
 Rated current I_N : 1.10/0.68 A*
 Rated speed n_N : 1350/1020 min^{-1} *
 Starting current I_s : 4.00 / 1.20 A
 Current increase ΔI : 10 %
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(\text{min})}$: -40 °C
 Max. permitted ambient temperature $t_{R(\text{max})}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 41.6 %
 Efficiency: $N_{\text{actual}} = 49.6 / N_{\text{target}} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

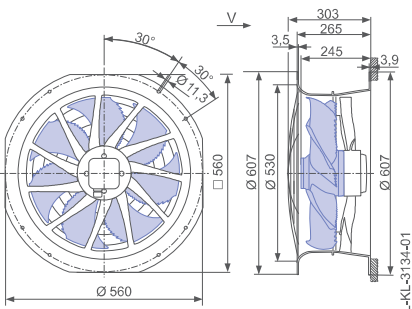
Connection diagram Page 531
1360-108XA

System components Page 430

Dimensions mm

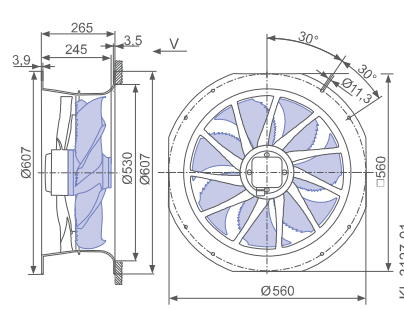
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

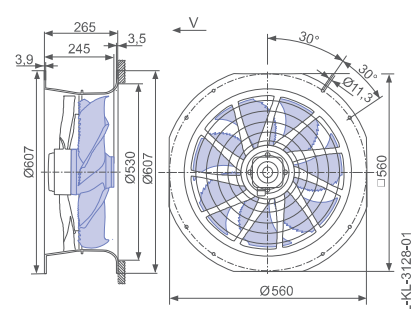


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
ZN045-VD_4F_7P1	Δ	I	400	①	1.30	700	1300	
			400*	②	1.10*	560*	1350*	74
			400	③	0.92	420	1400	73
	Y	II	400	④	0.76	420	880	
			400*	⑤	0.68*	380*	1010*	66
			400	⑥	0.58	320	1160	69

*rated data

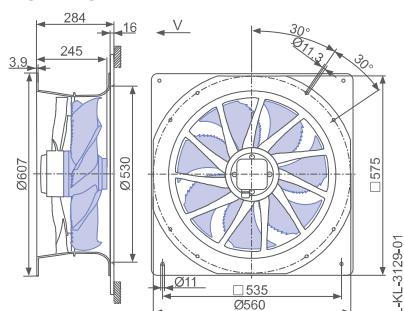
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN045-VDL.4F.V7P1	ZN045-VDL.4F.V7P1	ZN045-VDL.4F.V7P1	ZN045-VDQ.4F.V7P1	ZN045-VDQ.4F.V7P1	ZN045-VDH.4F.V7P1
Article no.	166920	166830	166831	166835	166836	166840
Weight kg	13.60	12.60	13.20	13.30	14.00	13.20
ZPlus attachable on both sides.						

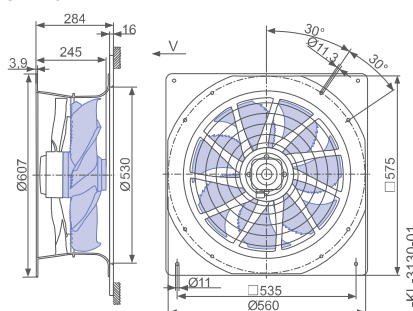
Control technology

<p>Frequency inverters Fcontrol 3~</p> <p>Page 480</p>	<p>Motor protection units 3~</p> <p>Page 518</p>	<p>Electronic voltage controllers 3~</p> <p>Page 506</p>
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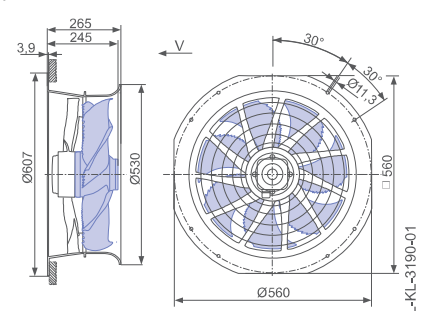
Design Q - ZPlus with adapter plate, without guard grille



Design Q - ZPlus with adapter plate, guard grille pressure side



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 6-6 pole

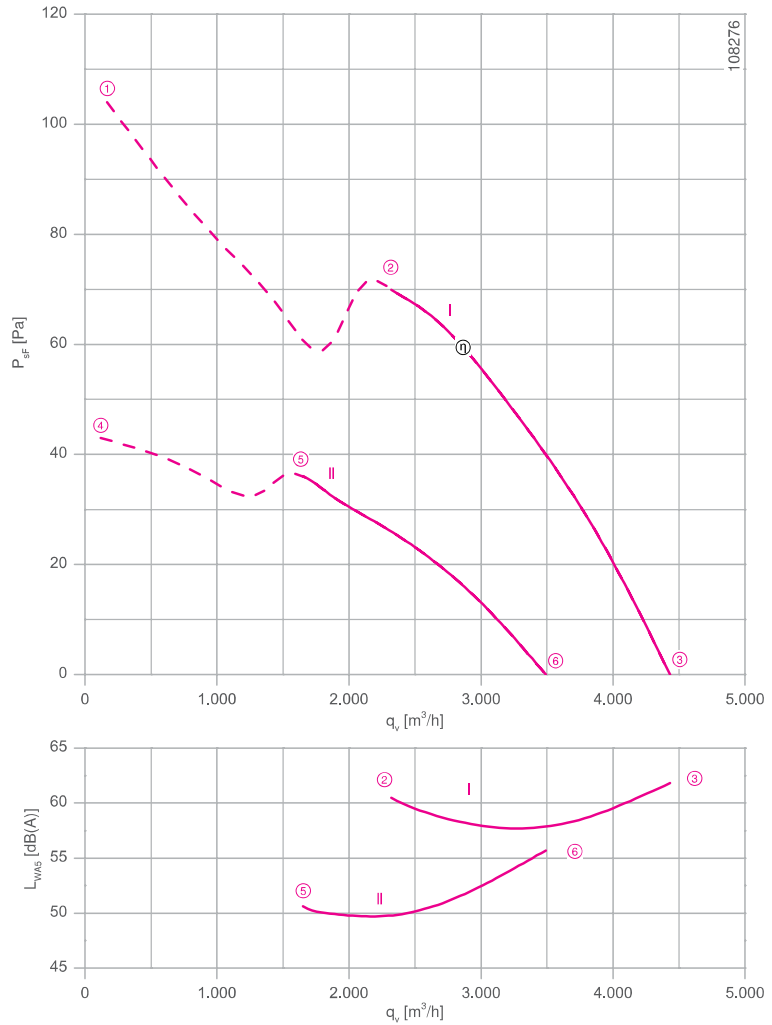
ZN045-SD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 170/95 W*
 Rated current I_N : 0.38/0.175 A*
 Rated speed n_N : 840/ 600 min^{-1} *
 Starting current I_s : 0.75 / 0.26 A
 Current increase ΔI : 0 %
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(\text{min})}$: -40 °C
 Max. permitted ambient temperature $t_{R(\text{max})}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: High Performance Composite Material, uncoated,
 Rotor: Aluminium, 1 coat paint, jet black
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 29.1 %
 Efficiency: $N_{\text{actual}} = 40.3 / N_{\text{target}} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

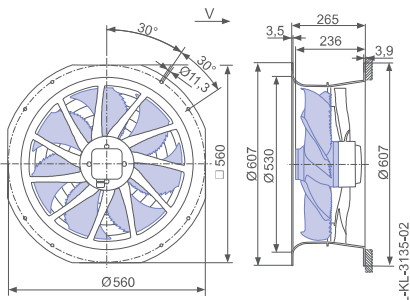
Connection diagram Page 531
1360-108XA

System components Page 430

Dimensions mm

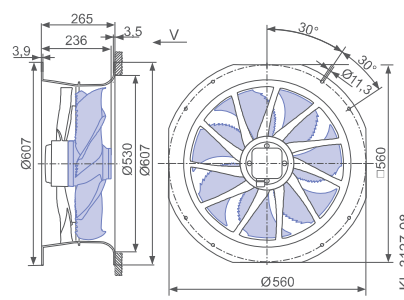
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

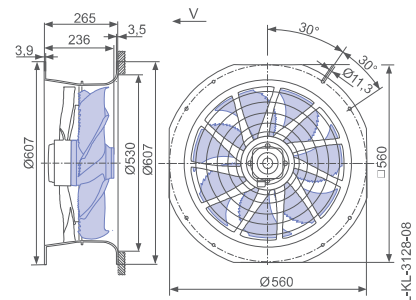


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
ZN045-SD_2C_7P3	Δ	I	400	①	0.42	210	780	
			400*	②	0.38*	170*	840*	61
			400	③	0.35	140	890	62
	Y	II	400	④	0.19	100	500	
			400*	⑤	0.17*	95*	600*	51
			400	⑥	0.15	80	710	56

*rated data

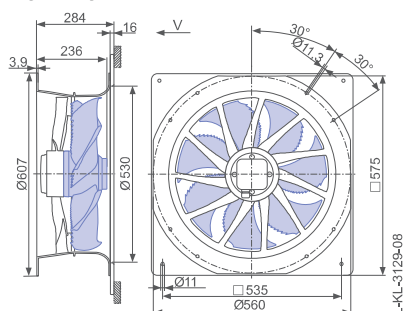
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN045-SDL.2C.V7P3	ZN045-SDL.2C.V7P3	ZN045-SDL.2C.V7P3	ZN045-SDQ.2C.V7P3	ZN045-SDQ.2C.V7P3	ZN045-SDH.2C.V7P3
Article no.	166923	166896	166897	166901	166902	166906
Weight kg	8.50	7.40	8.10	8.20	8.80	8.10
ZPlus attachable on both sides.						

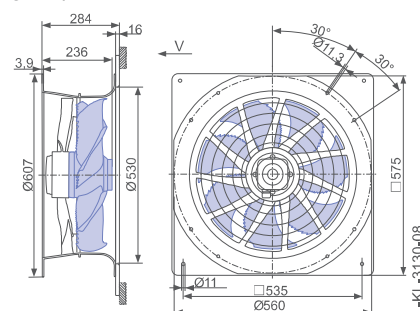
Control technology

<p>Frequency inverters Fcontrol 3~</p> <p>Page 480</p>	<p>Motor protection units 3~</p> <p>Page 518</p>	<p>Electronic voltage controllers 3~</p> <p>Page 506</p>
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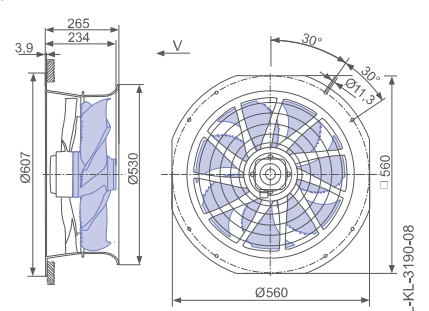
Design Q - ZPlus with adapter plate, without guard grille



Design Q - ZPlus with adapter plate, guard grille pressure side



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 6-6 pole

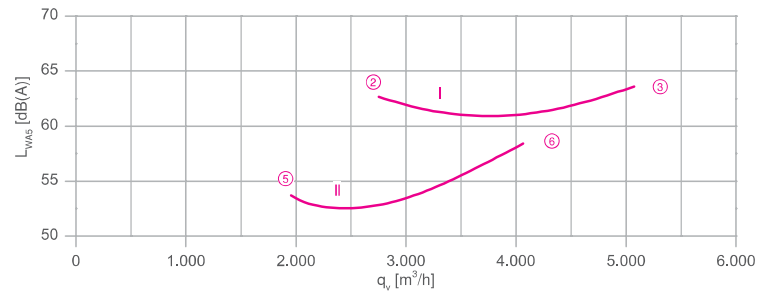
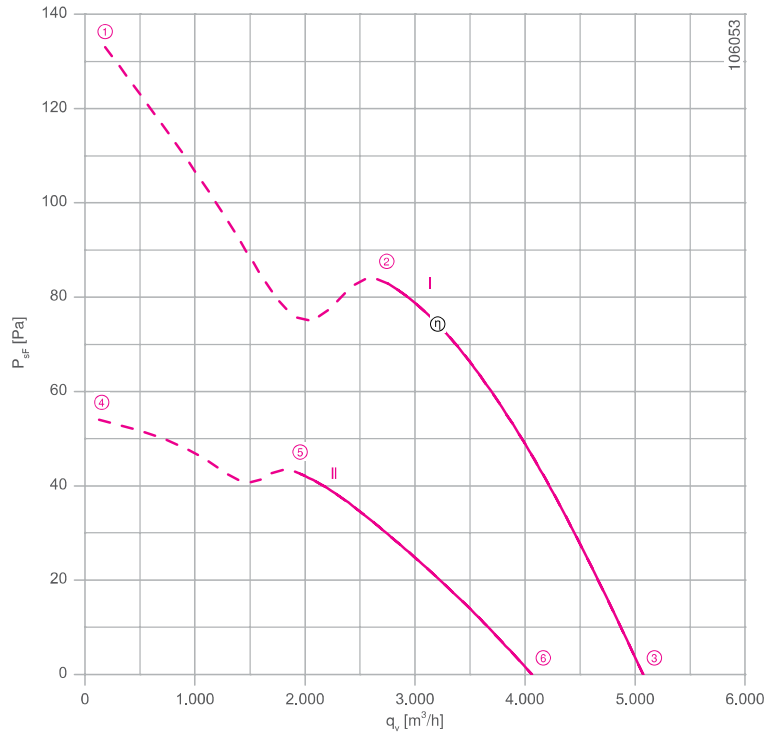
ZNO45-SD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 190/110 W*
 Rated current I_N : 0.50/0.27 A*
 Rated speed n_N : 910/ 650 min^{-1} *
 Starting current I_s : 1.10 / 0.32 A
 Current increase ΔI : 0 %
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(\text{min})}$: -40 °C
 Max. permitted ambient temperature $t_{R(\text{max})}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 36.6 %
 Efficiency: $N_{\text{actual}} = 47.5 / N_{\text{target}} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

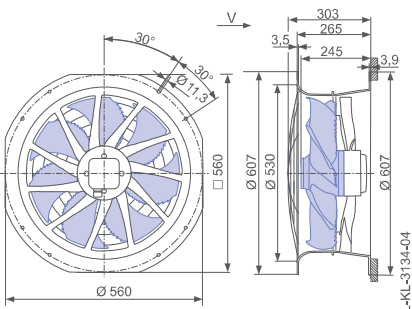
Connection diagram Page 531
1360-108XA

System components Page 430

Dimensions mm

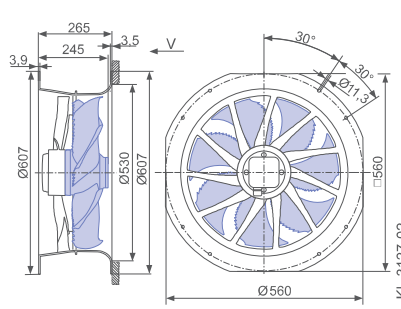
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

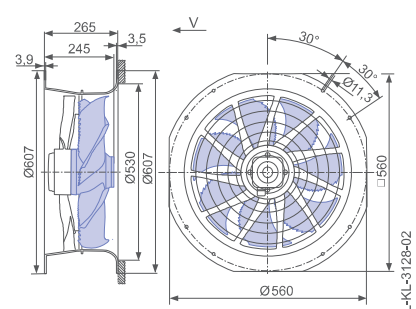


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V		I A	P_1 W	n min ⁻¹	
ZN045-SD_4F_7P1	Δ	I	400	①	0.58	240	870	
			400*	②	0.50*	190*	910*	63
			400	③	0.46	150	940	64
	Y	II	400	④	0.29	120	560	
			400*	⑤	0.27*	110*	640*	54
			400	⑥	0.24	100	750	58

*rated data

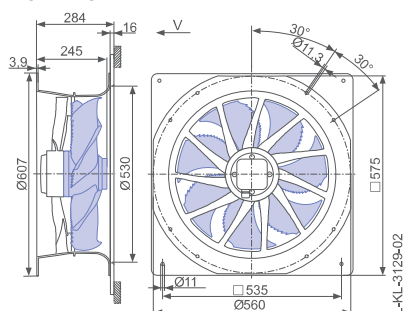
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN045-SDL.4F.V7P1	ZN045-SDL.4F.V7P1	ZN045-SDL.4F.V7P1	ZN045-SDQ.4F.V7P1	ZN045-SDQ.4F.V7P1	ZN045-SDH.4F.V7P1
Article no.	169869	166852	166853	166857	166858	166862
Weight kg	13.60	12.60	13.20	13.30	14.00	13.20
ZAplus attachable on both sides.						

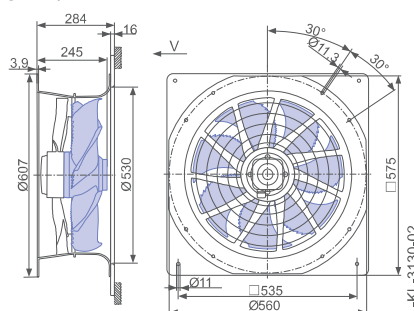
Control technology

<p>Frequency inverters Fcontrol 3~</p> <p>Page 480</p>	<p>Motor protection units 3~</p> <p>Page 518</p>	<p>Electronic voltage controllers 3~</p> <p>Page 506</p>
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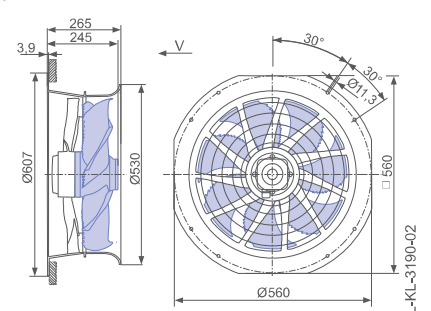
Design Q - ZAplus with adapter plate, without guard grille



Design Q - ZAplus with adapter plate, guard grille pressure side



Design H - ZAplus Flattop, guard grille pressure side



FE2owlet with ZPlus

for single phase alternating current, 4 pole

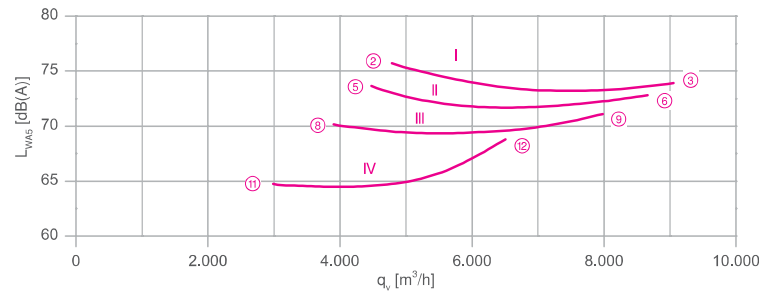
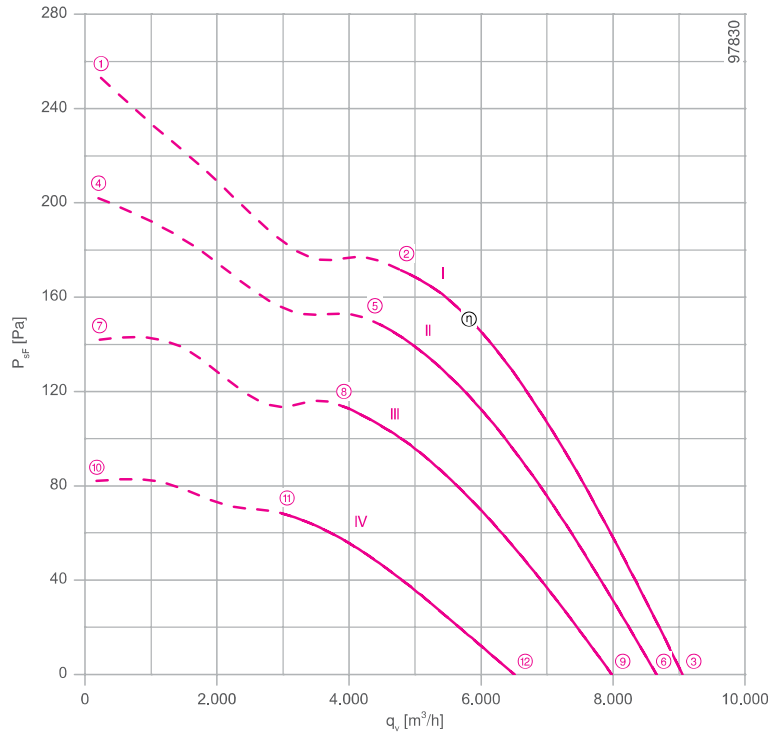
ZN050-4E



Description

Motor technology: AC
 Rated voltage U_N : 1~ 230 V±10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 0.72 kW*
 Rated current I_N : 3.20 A*
 Rated speed n_N : 1230 min⁻¹*
 Starting current I_s : 6.50 A
 Current increase ΔI : 0 %
 Service capacitor C_{400V} : 16.0 µF
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -25 °C
 Max. permitted ambient temperature $t_{R(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 35.8 %
 Efficiency: $N_{actual} = 43.1 / N_{target} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

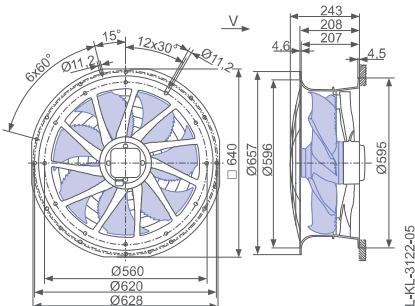
Connection diagram Page 531
1360-104XA

System components Page 430

Dimensions mm

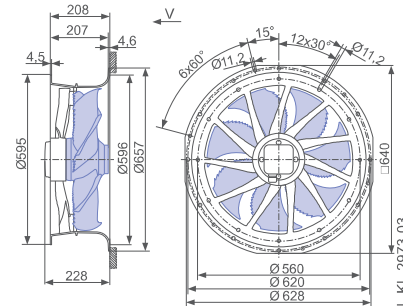
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

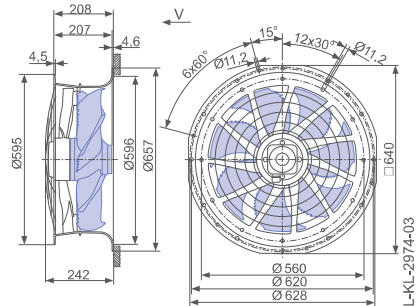


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
		U V		I A	P_1 W	n min ⁻¹	
ZN050-4E_4I_7P1	I	230	①	3.70	840	1120	
		230*	②	3.20*	720*	1230*	76
		230	③	2.60	600	1310	74
	II	200	④	3.70	720	1000	
		200	⑤	3.20	620	1140	74
		200	⑥	2.60	520	1260	73
	III	170	⑦	3.40	560	840	
		170	⑧	3.10	520	1000	71
		170	⑨	2.60	440	1160	71
	IV	135	⑩	2.90	370	640	
		135	⑪	2.80	360	780	65
		135	⑫	2.50	330	950	69

*rated data

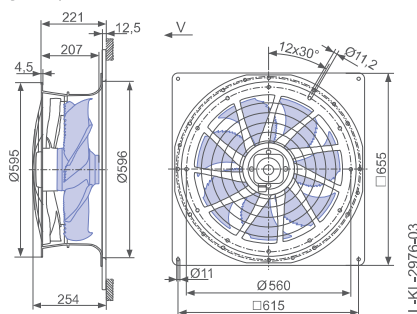
Fan ordering information

	Airflow direction →		← Airflow direction		
Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN050-4EL.4I.V7P1	ZN050-4EL.4I.V7P1	ZN050-4EL.4I.V7P1	ZN050-4EQ.4I.V7P1	ZN050-4EH.4I.V7P1
Article no.	169875	161772	161773	161777	161779
Weight kg	16.20	14.90	16.00	17.30	15.40
ZApplus attachable on both sides.					

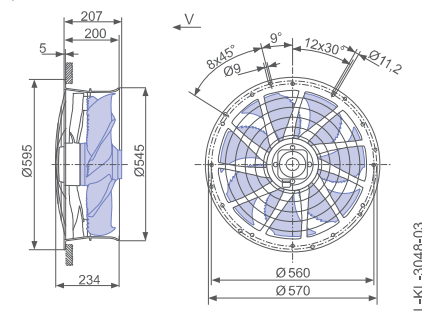
Control technology

Frequency Inverters Fcontrol 1~	Motor protection units 1~	Electronic voltage controllers 1~
Page 474	Page 518	Page 492

Design Q - ZApplus with adapter plate, guard grille pressure side



Design H - ZApplus Flattop, guard grille pressure side



FE2owlet with ZPlus

for single phase alternating current, 6 pole

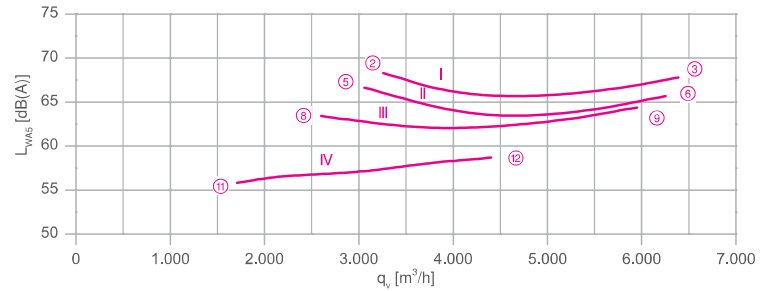
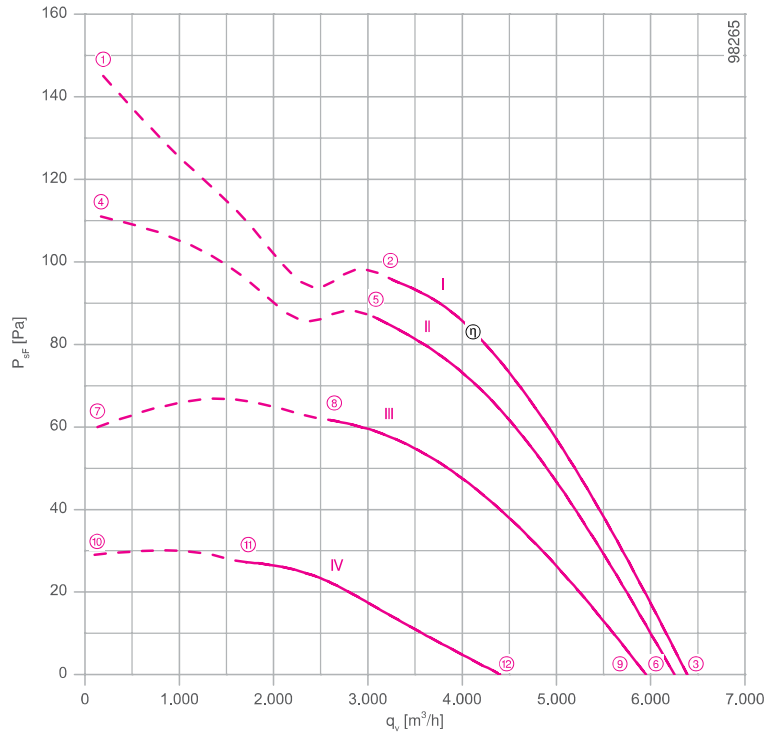
ZN050-6E



Description

Motor technology: AC
 Rated voltage U_N : 1~ 230 V±10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 290 W*
 Rated current I_N : 1.30 A*
 Rated speed n_N : 900 min⁻¹*
 Starting current I_s : 2.60 A
 Current increase ΔI : 5 %
 Service capacitor C_{400V} : 10,0 µF
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -25 °C
 Max. permitted ambient temperature $t_{R(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 35.0 %
 Efficiency: $N_{actual} = 44.8 / N_{target} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

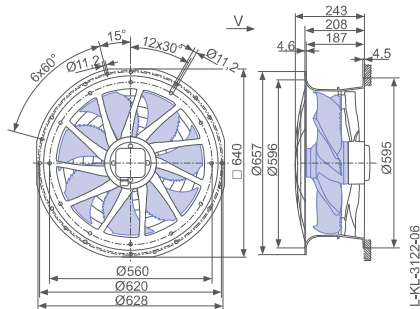
Connection diagram Page 531
1360-104XA

System components Page 430

Dimensions mm

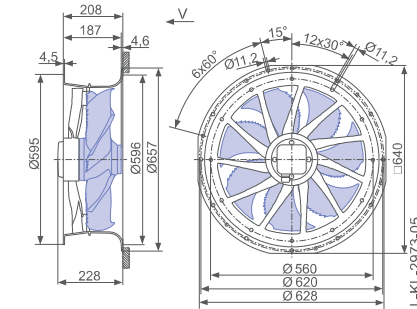
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

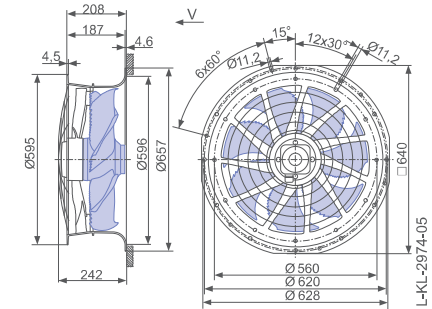


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level
		U V		I A	P ₁ W	n min ⁻¹	L _{WA5} dB(A)
ZN050-6E_.4F_.7P1	I	230	①	1.55	340	840	
		230*	②	1.30*	290*	900*	68
		230	③	1.10	240	930	68
	II	200	④	1.60	300	730	
		200	⑤	1.30	250	850	67
		200	⑥	1.05	200	910	66
	III	170	⑦	1.50	220	540	
		170	⑧	1.35	210	720	64
		170	⑨	1.05	180	870	64
	IV	135	⑩	1.20	140	380	
		135	⑪	1.20	140	480	56
		135	⑫	1.10	140	650	59

*rated data

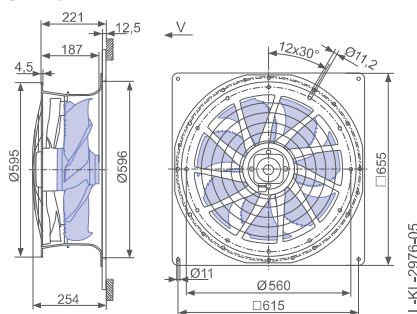
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN050-6EL.4F.V7P1	ZN050-6EL.4F.V7P1	ZN050-6EL.4F.V7P1	ZN050-6EQ.4F.V7P1	ZN050-6EH.4F.V7P1
Article no.	169876	161788	161789	161793	161795
Weight kg	14.70	13.40	14.50	15.80	13.90
ZAplus attachable on both sides.					

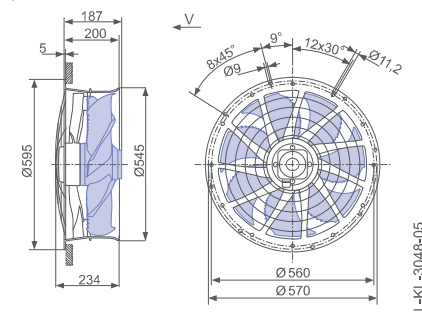
Control technology

Frequency inverters Fcontrol 1~ 	Motor protection units 1~ 	Electronic voltage controllers 1~
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Design Q - ZAplus with adapter plate, guard grille pressure side



Design H - ZAplus Flattop, guard grille pressure side



FE2owlet with ZPlus

for single phase alternating current, 8 pole

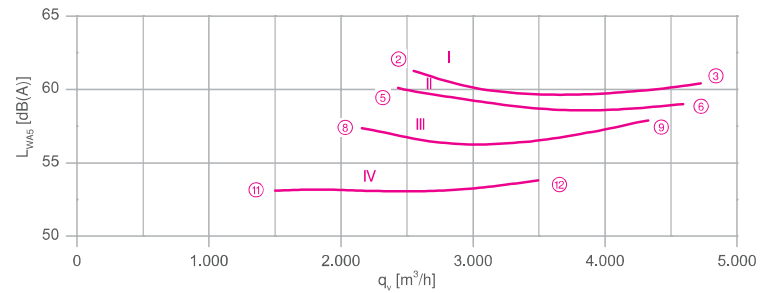
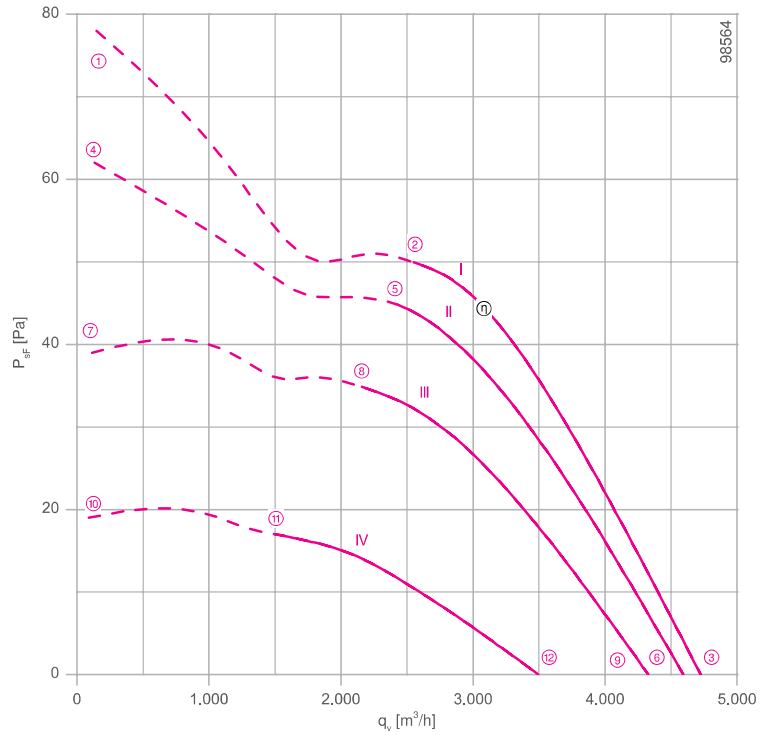
ZN050-8E



Description

Motor technology: AC
 Rated voltage U_N : 1~ 230 V±10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 140 W*
 Rated current I_N : 0.68 A*
 Rated speed n_N : 670 min⁻¹*
 Starting current I_s : 1.30 A
 Current increase ΔI : 0 %
 Service capacitor C_{400V} : 3.0 μ F
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -25 °C
 Max. permitted ambient temperature $t_{R(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 28.3 %
 Efficiency: $N_{actual} = 40.0 / N_{target} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

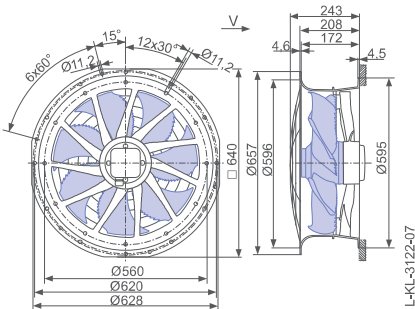
Connection diagram Page 531
1360-104XA

System components Page 430

Dimensions mm

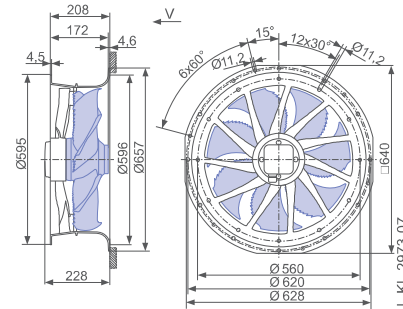
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

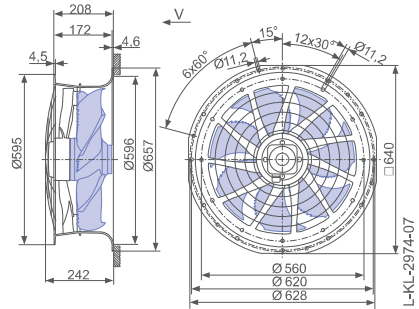


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level
		U V		I A	P ₁ W	n min ⁻¹	L _{WA5} dB(A)
ZN050-8E_4C.V7P1	I	230	①	0.80	170	620	
		230*	②	0.68*	140*	670*	61
		230	③	0.60	120	690	60
	II	200	④	0.80	150	560	
		200	⑤	0.66	120	630	60
		200	⑥	0.56	100	680	59
	III	170	⑦	0.78	120	440	
		170	⑧	0.68	110	560	57
		170	⑨	0.56	85	640	58
	IV	135	⑩	0.66	80	310	
		135	⑪	0.64	75	400	53
		135	⑫	0.58	70	520	54

*rated data

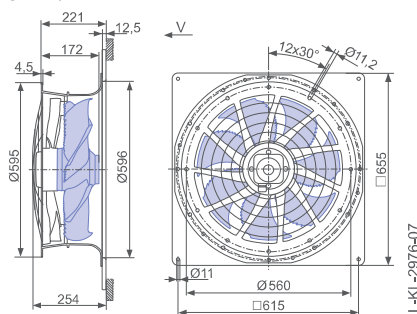
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN050-8EL.4C.V7P1	ZN050-8EL.4C.V7P1	ZN050-8EL.4C.V7P1	ZN050-8EQ.4C.V7P1	ZN050-8EH.4C.V7P1
Article no.	169877	161804	161805	161809	161811
Weight kg	13.00	11.70	12.80	14.10	12.20
ZPlus attachable on both sides.					

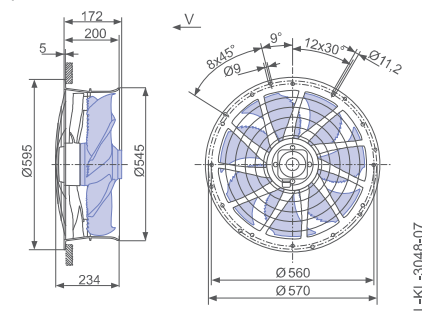
Control technology

<p>Frequency inverters Fcontrol 1~</p> <p>Page 474</p>	<p>Motor protection units 1~</p> <p>Page 518</p>	<p>Electronic voltage controllers 1~</p> <p>Page 492</p>
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Design Q - ZPlus with adapter plate, guard grille pressure side



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 4-4 pole

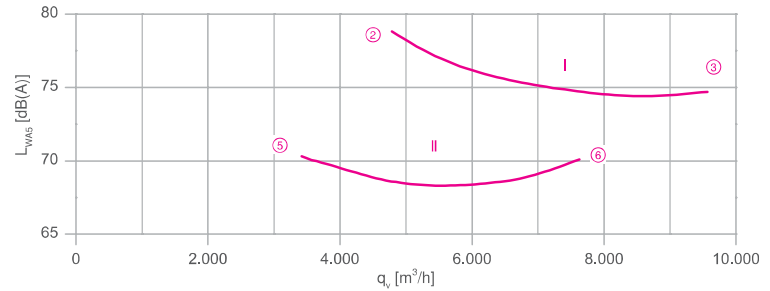
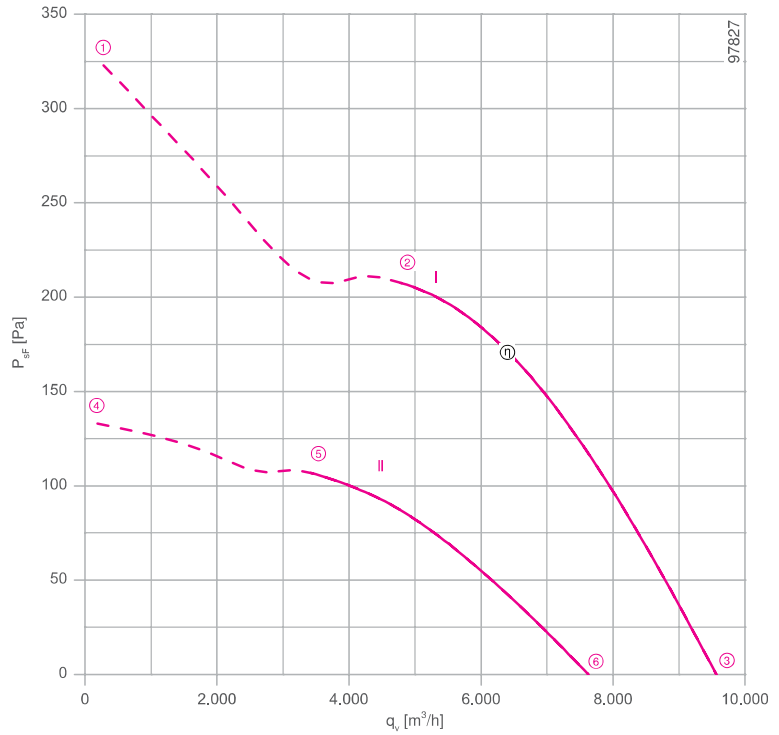
ZN050-VD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %*
 Rated frequency f_N : 50 Hz*
 Input power P_i : 0.80/0.54 kW*
 Rated current I_N : 1.40/0.94 A*
 Rated speed n_N : 1330/ 960 min^{-1} *
 Starting current I_s : 5.00 / 1.60 A
 Current increase ΔI : 15 %
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(\text{min})}$: -40 °C
 Max. permitted ambient temperature $t_{R(\text{max})}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 41.2 %
 Efficiency: $N_{\text{actual}} = 48.3 / N_{\text{target}} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

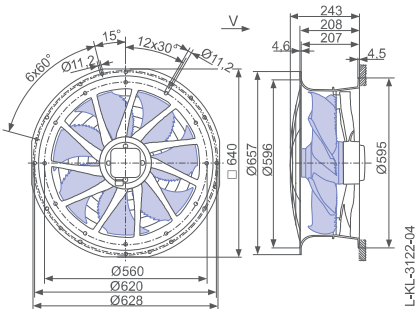
Connection diagram Page 531
1360-108XA

System components Page 430

Dimensions mm

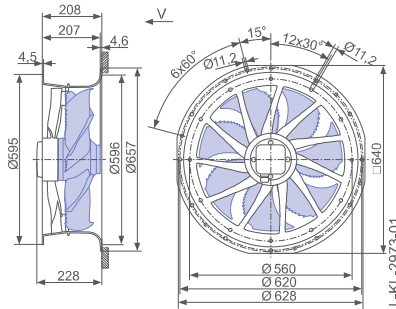
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

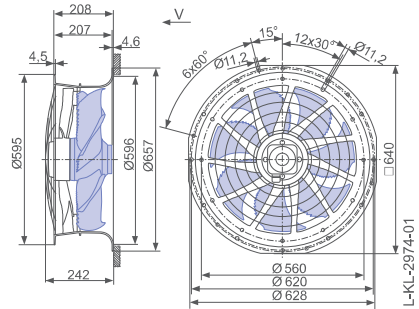


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
ZN050-VD_4I.V7P1	Δ	I	400	①	1.80	1050	1260	
			400*	②	1.40*	800*	1330*	79
			400	③	1.10	580	1390	75
	Y	II	400	④	1.05	580	810	
			400*	⑤	0.94*	540*	950*	71
			400	⑥	0.78	460	1110	70

*rated data

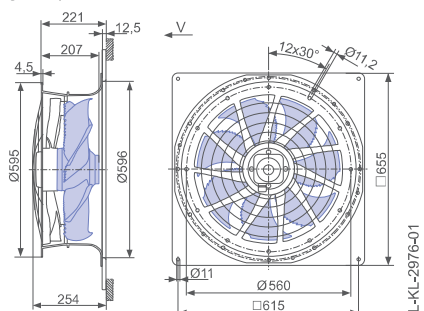
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN050-VDL.4I.V7P1	ZN050-VDL.4I.V7P1	ZN050-VDL.4I.V7P1	ZN050-VDQ.4I.V7P1	ZN050-VDH.4I.V7P1
Article no.	169874	161756	161757	161761	161763
Weight kg	16.20	14.90	16.00	17.30	15.40
ZPlus attachable on both sides.					

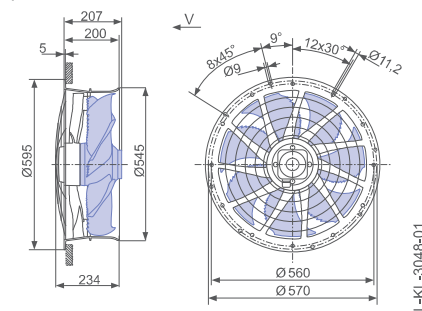
Control technology

<p>Frequency inverters Fcontrol 3~</p> <p>Page 480</p>	<p>Motor protection units 3~</p> <p>Page 518</p>	<p>Electronic voltage controllers 3~</p> <p>Page 506</p>
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Design Q - ZPlus with adapter plate, guard grille pressure side



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 4-4 pole

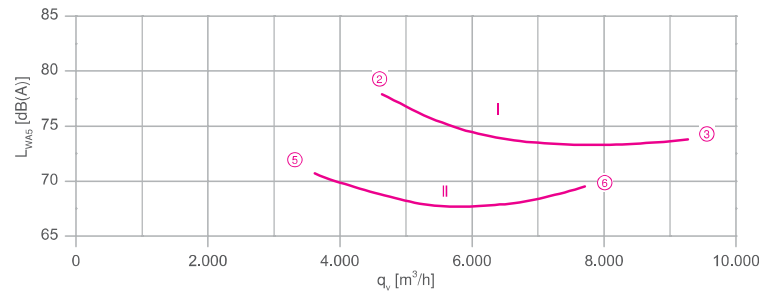
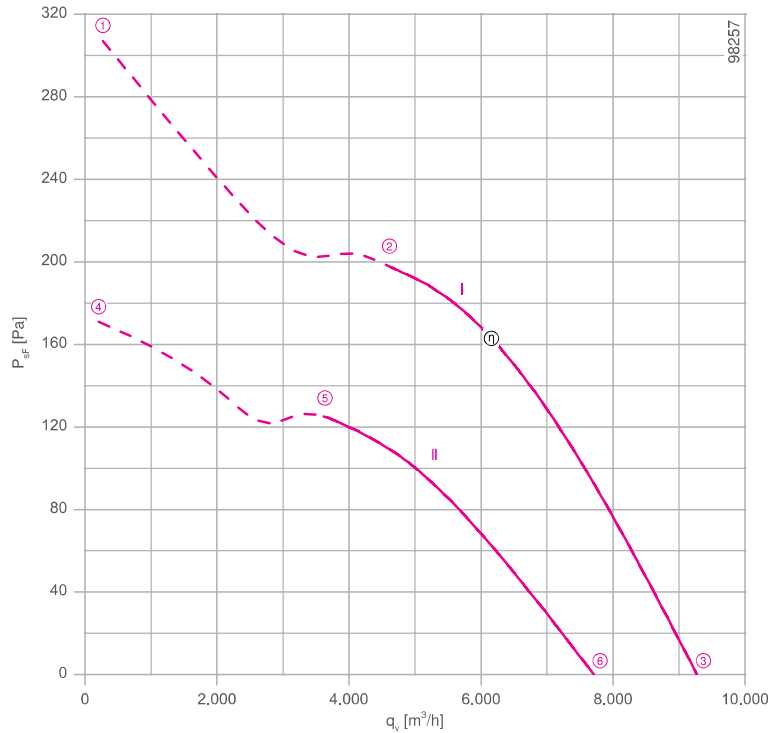
ZN050-VD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 0.74/0.46 kW*
 Rated current I_N : 1.60/0.80 A*
 Rated speed n_N : 1290/1020 min⁻¹*
 Current increase ΔI : 0 %
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -40 °C
 Max. permitted ambient temperature $t_{R(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 41.0 %
 Efficiency: $N_{actual} = 48.3 / N_{target} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

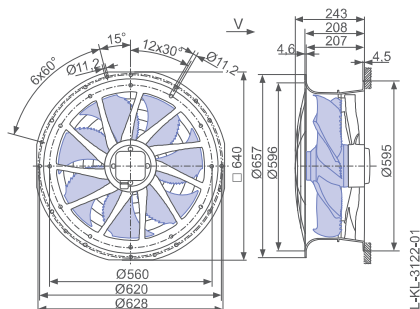
Connection diagram Page 531
1360-108XA

System components Page 430

Dimensions mm

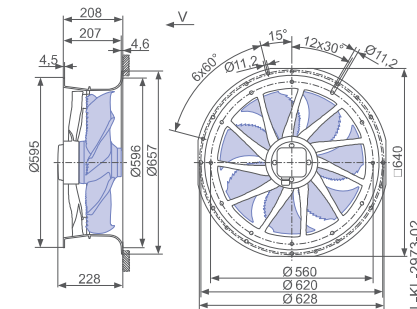
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

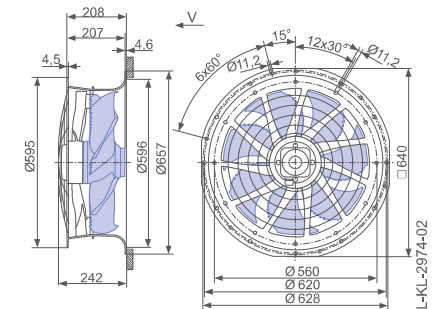


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
ZN050-VD_4I.V7P1	Δ	I	400	①	1.80	900	1230	
			400*	②	1.60*	740*	1290*	78
			400	③	1.45	560	1340	74
	Y	II	400	④	0.90	520	910	
			400*	⑤	0.80*	460*	1020*	71
			400	⑥	0.68	380	1120	70

*rated data

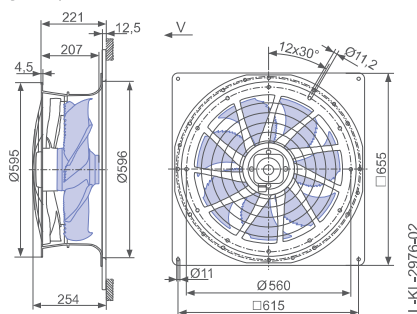
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN050-VDL.4I.V7P1	ZN050-VDL.4I.V7P1	ZN050-VDL.4I.V7P1	ZN050-VDQ.4I.V7P1	ZN050-VDH.4I.V7P1
Article no.	165327	161764	161765	161769	161771
Weight kg	16.20	14.90	16.00	17.30	15.40
ZPlus attachable on both sides.					

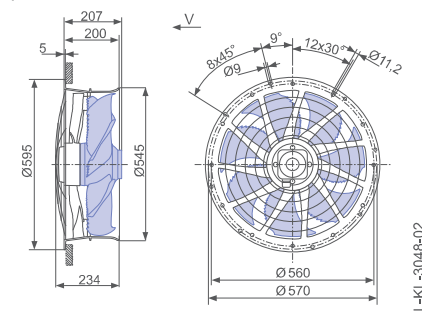
Control technology

<p>Frequency inverters Fcontrol 3~</p> <p>Page 480</p>	<p>Motor protection units 3~</p> <p>Page 518</p>	<p>Electronic voltage controllers 3~</p> <p>Page 506</p>
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Design Q - ZPlus with adapter plate, guard grille pressure side



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 6-6 pole

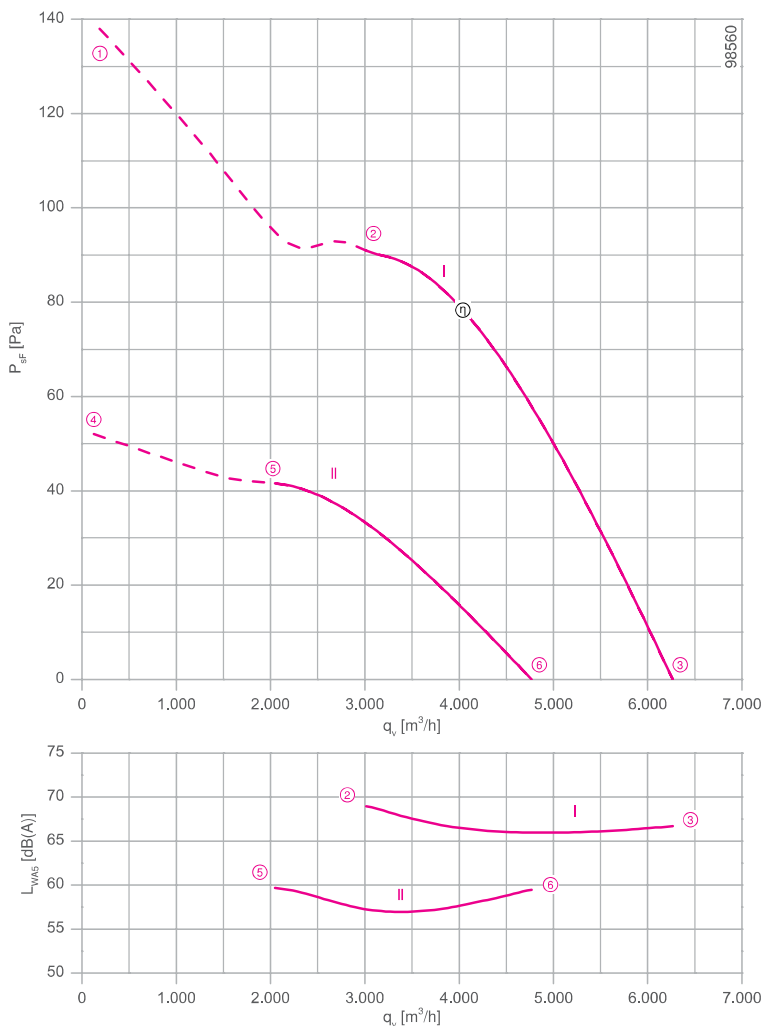
ZN050-SD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 270/150 W*
 Rated current I_N : 0.66/0.34 A*
 Rated speed n_N : 880/ 600 min^{-1} *
 Starting current I_s : 1.50 / 0.40 A
 Current increase ΔI : 0 %
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(\text{min})}$: -40 °C
 Max. permitted ambient temperature $t_{R(\text{max})}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency $\eta_{\text{stat}A}$: 33.8 %
 Efficiency: $N_{\text{actual}} = 43.8 / N_{\text{target}} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

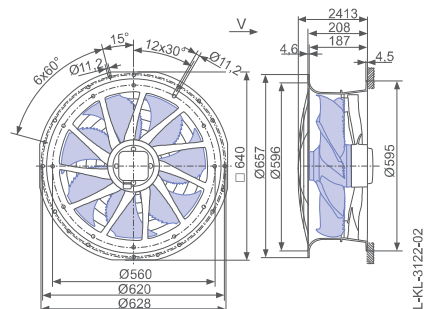
Connection diagram Page 531
1360-108XA

System components Page 430

Dimensions mm

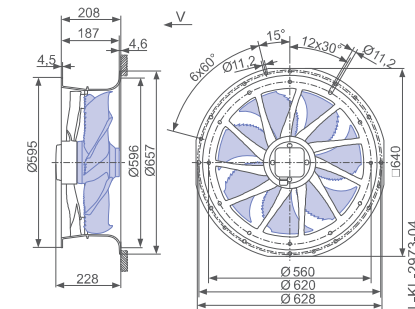
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

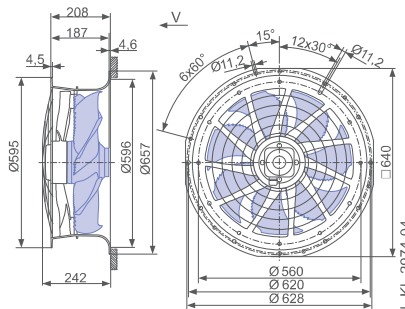


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
ZN050-SD_4F.V7P1	Δ	I	400	①	0.78	340	830	
			400*	②	0.68*	280*	880*	69
			400	③	0.58	210	920	67
	Y	II	400	④	0.36	150	510	
			400*	⑤	0.34*	150*	590*	60
			400	⑥	0.31	130	700	60

*rated data

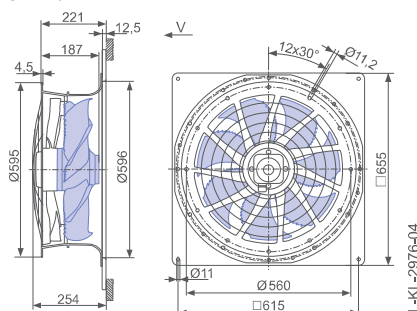
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN050-SDL.4F.V7P1	ZN050-SDL.4F.V7P1	ZN050-SDL.4F.V7P1	ZN050-SDQ.4F.V7P1	ZN050-SDH.4F.V7P1
Article no.	165328	161780	161781	161785	161787
Weight kg	14.70	13.40	14.50	15.80	13.90
ZPlus attachable on both sides.					

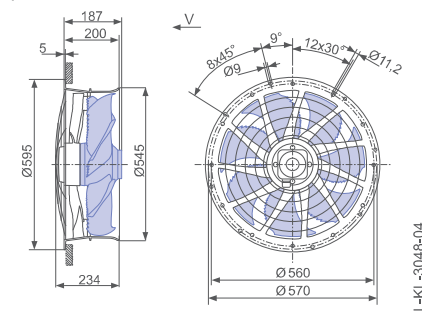
Control technology

Frequency inverters Fcontrol 3~ 	Motor protection units 3~ 	Electronic voltage controllers 3~
Page 480	Page 518	Page 506

Design Q - ZPlus with adapter plate, guard grille pressure side



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 8-8 pole

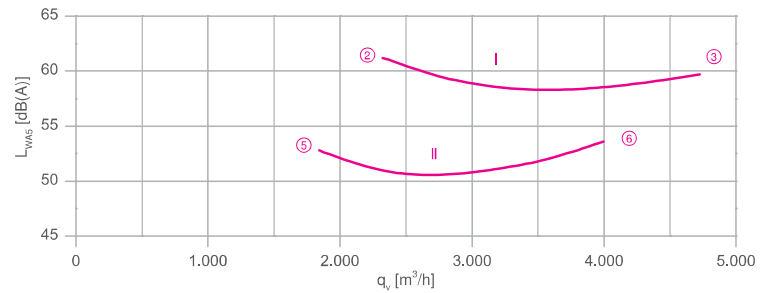
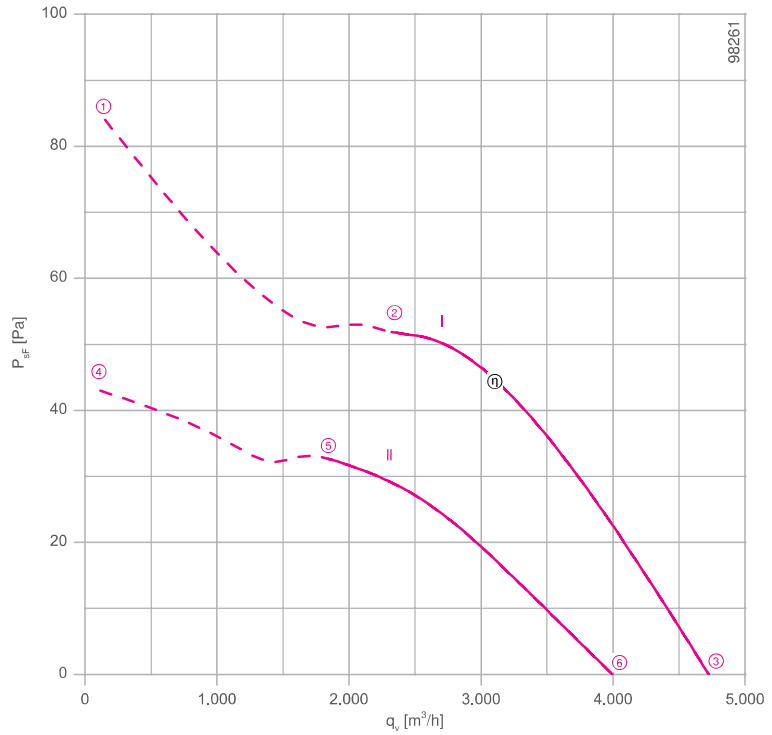
ZN050-AD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 130/80 W*
 Rated current I_N : 0.31/0.155 A*
 Rated speed n_N : 670/530 min⁻¹*
 Starting current I_s : 0.80 / 0.26 A
 Current increase ΔI : 0 %
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -40 °C
 Max. permitted ambient temperature $t_{R(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 30.6 %
 Efficiency: $N_{actual} = 42.5 / N_{target} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

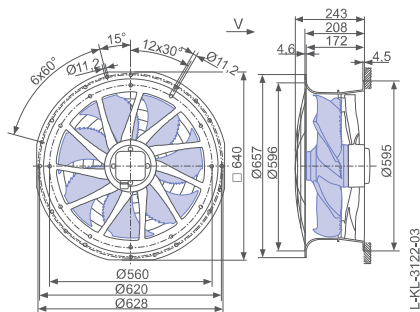
Connection diagram Page 531
1360-108XA

System components Page 430

Dimensions mm

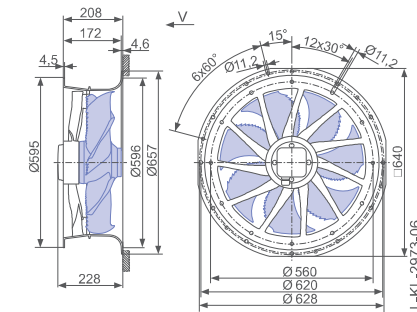
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

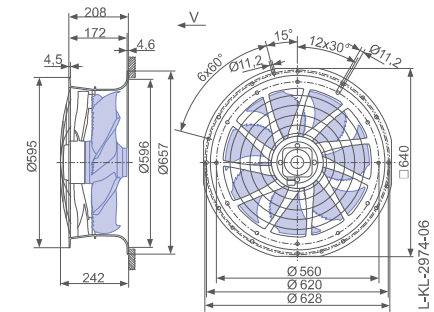


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
ZN050-AD_4C.V7P1	Δ	I	400	①	0.34	160	640	
			400*	②	0.31*	130*	670*	61
			400	③	0.30	110	700	60
	Y	II	400	④	0.17	95	460	
			400*	⑤	0.15*	85*	530*	53
			400	⑥	0.13	70	590	54

*rated data

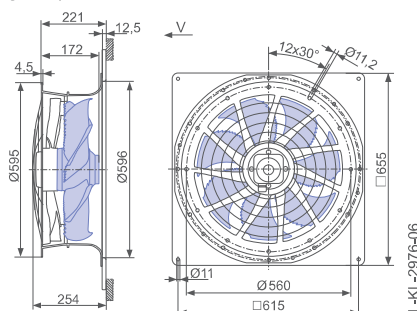
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN050-ADL.4C.V7P1	ZN050-ADL.4C.V7P1	ZN050-ADL.4C.V7P1	ZN050-ADQ.4C.V7P1	ZN050-ADH.4C.V7P1
Article no.	165329	161796	161797	161801	161803
Weight kg	13.00	11.70	12.80	14.10	12.20
ZPlus attachable on both sides.					

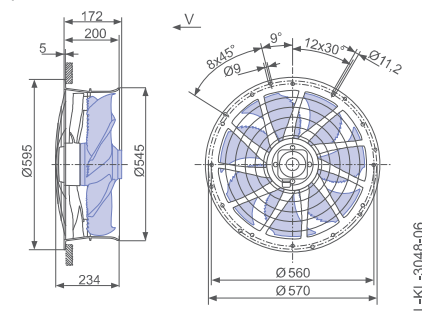
Control technology

<p>Frequency inverters Fcontrol 3~</p> <p>Page 480</p>	<p>Motor protection units 3~</p> <p>Page 518</p>	<p>Electronic voltage controllers 3~</p> <p>Page 506</p>
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Design Q - ZPlus with adapter plate, guard grille pressure side



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for single phase alternating current, 6 pole

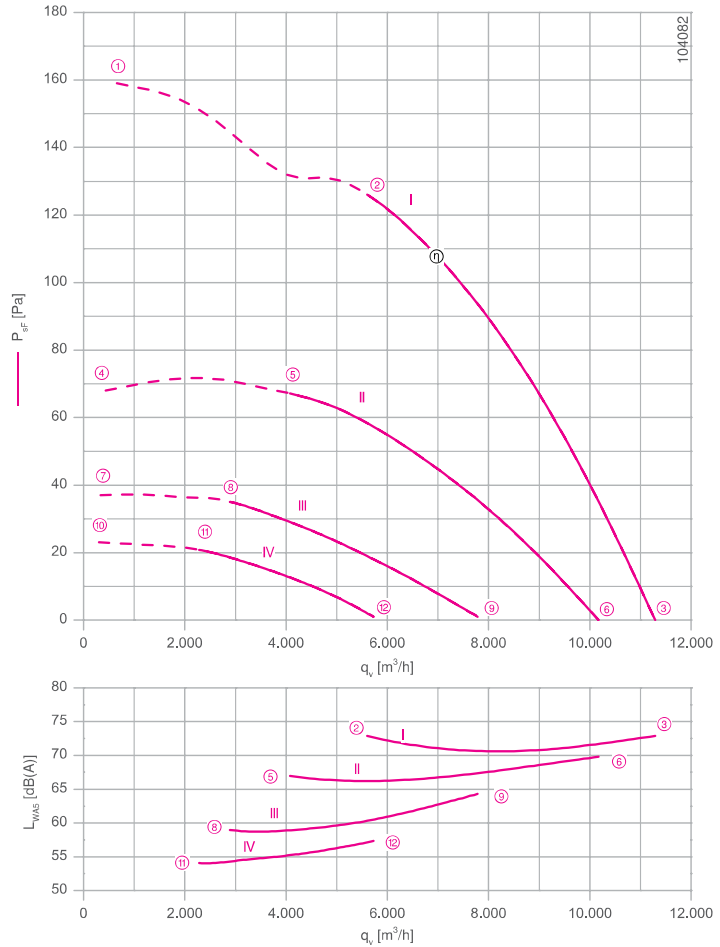
ZN063-6E



Description

Motor technology: AC
 Rated voltage U_N : 1~ 230 V \pm 10 %*
 Rated frequency f_N : 50 Hz*
 Input power P_i : 0.64 kW*
 Rated current I_N : 2.90 A*
 Rated speed n_N : 860 min⁻¹*
 Starting current I_s : 5.50 A
 Current increase ΔI : 5 %
 Service capacitor C_{400V} : 12.0 μ F
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -25 °C
 Max. permitted ambient temperature $t_{R(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 35.5 %
 Efficiency: $N_{actual} = 43.2 / N_{target} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

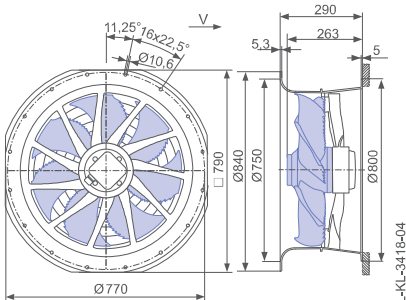
Connection diagram Page 531
1360-104XA

System components Page 430

Dimensions mm

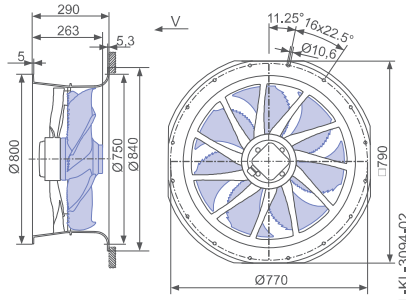
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

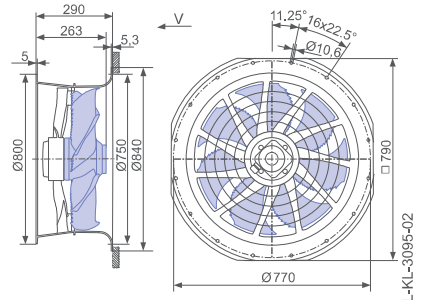


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V		I A	P_1 W	n min ⁻¹	
ZN063-6E_4I.V7P1	I	230	①	3.60	760	750	
		230*	②	2.90*	620*	860*	73
		230	③	2.10	460	930	73
	II	170	④	3.10	460	490	
		170	⑤	2.90	440	630	67
		170	⑥	2.20	360	850	70
	III	135	⑦	2.50	290	360	
		135	⑧	2.40	290	460	59
		135	⑨	2.20	270	650	64
	IV	110	⑩	2.10	200	290	
		110	⑪	2.10	200	350	54
		110	⑫	2.00	190	480	57

*rated data

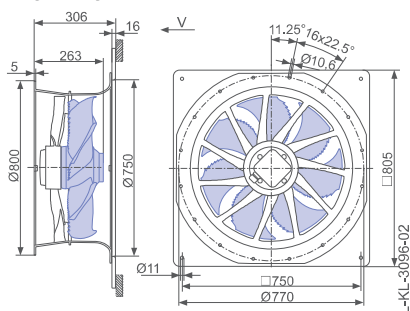
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN063-6EL.4I.V7P1	ZN063-6EL.4I.V7P1	ZN063-6EL.4I.V7P1	ZN063-6EQ.4I.V7P1	ZN063-6EQ.4I.V7P1	ZN063-6EH.4I.V7P1
Article no.	169883	164366	164367	164371	164372	164376
Weight kg	20.40	18.50	19.60	20.60	21.60	18.70
ZPlus attachable on both sides.						

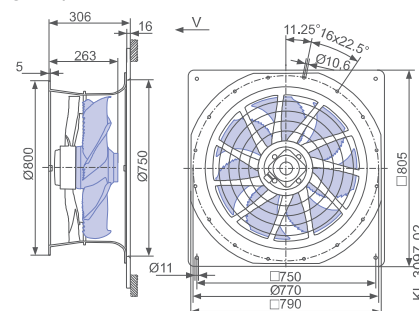
Control technology

Frequency inverters Fcontrol 1~	Motor protection units 1~	Electronic voltage controllers 1~
Page 474	Page 518	Page 492

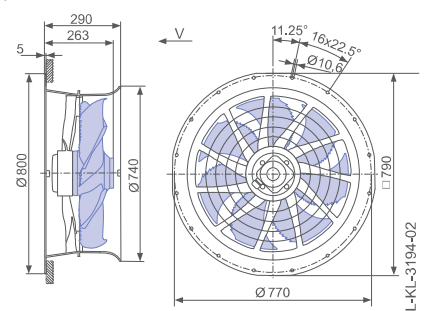
Design Q - ZPlus with adapter plate, without guard grille



Design Q - ZPlus with adapter plate, guard grille pressure side



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for single phase alternating current, 6 pole

ZN063-6E



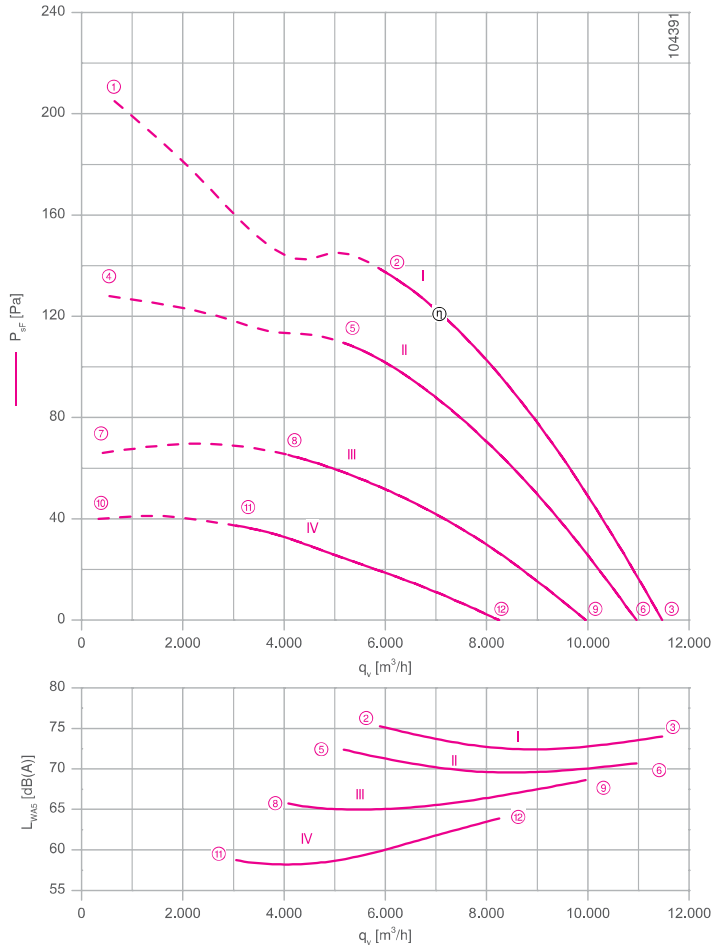
Description

Motor technology: AC
 Rated voltage U_N : 1~ 230 V \pm 10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 0.70 kW*
 Rated current I_N : 3.30 A*
 Rated speed n_N : 920 min⁻¹*
 Starting current I_s : 8.00 A
 Current increase ΔI : 5 %
 Service capacitor C_{400V} : 16.0 μ F
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -25 °C
 Max. permitted ambient temperature $t_{R(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE

ErP-data

Efficiency η_{statA} : 35.7 %
 Efficiency: $N_{actual} = 43.1 / N_{target} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

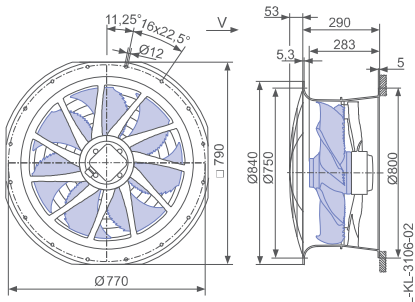
Connection diagram Page 531
1360-104XA

System components Page 430

Dimensions mm

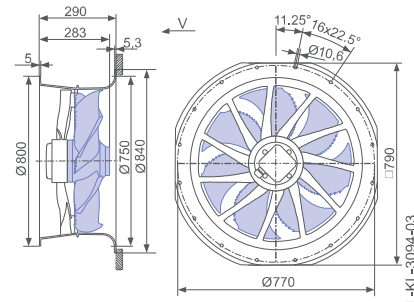
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

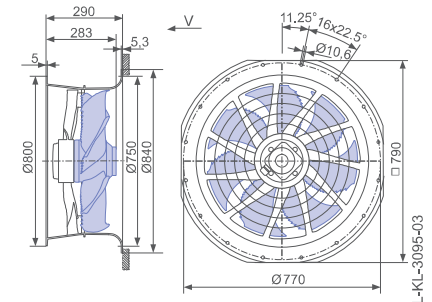


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V		I A	P_1 W	n min ⁻¹	
ZN063-6E_4M.V7P1	I	230	①	4.00	860	870	
		230*	②	3.20*	700*	920*	75
		230	③	2.60	540	950	74
	II	170	④	4.20	660	680	
		170	⑤	3.40	560	810	73
		170	⑥	2.40	390	910	71
	III	135	⑦	3.70	440	500	
		135	⑧	3.40	420	630	66
		135	⑨	2.50	330	830	69
	IV	110	⑩	3.10	310	380	
		110	⑪	3.00	300	480	59
		110	⑫	2.60	270	690	64

*rated data

Fan ordering information

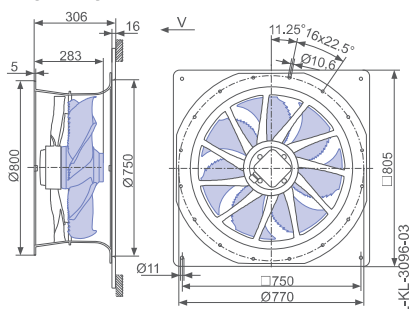
Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN063-6EL.4M.V7P1	ZN063-6EL.4M.V7P1	ZN063-6EL.4M.V7P1	ZN063-6EQ.4M.V7P1	ZN063-6EQ.4M.V7P1	ZN063-6EH.4M.V7P1
Article no.	169884	164377	164378	164382	164383	164387
Weight kg	22.70	20.70	21.80	22.70	23.80	21.80

ZAplus attachable on both sides.

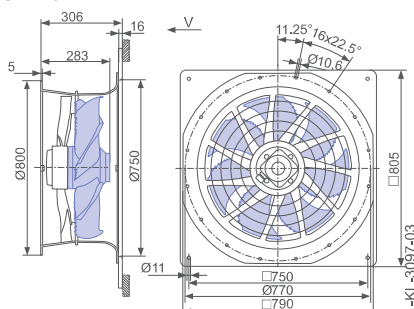
Control technology

Page 474	Page 518	Page 492

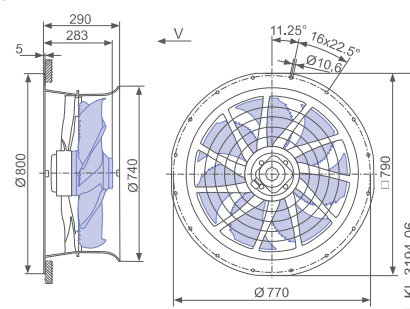
Design Q - ZAplus with adapter plate, without guard grille



Design Q - ZAplus with adapter plate, guard grille pressure side



Design H - ZAplus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 4-4 pole

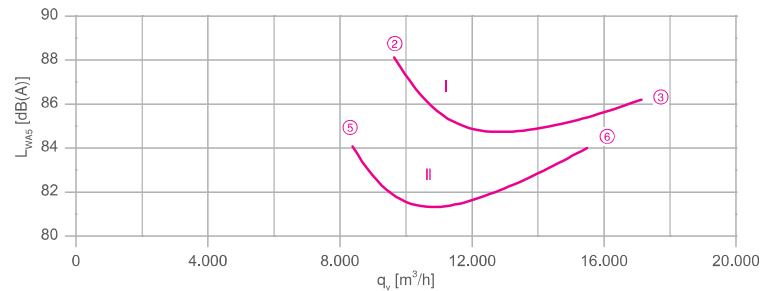
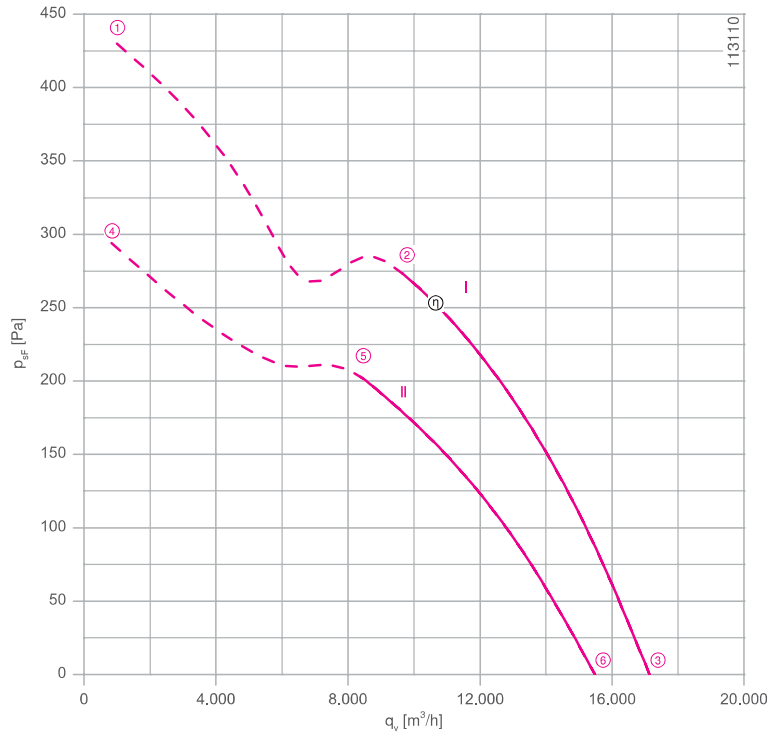
ZN063-VD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 1.75/1.35 kW*
 Rated current I_N : 3.70/2.20 A*
 Rated speed n_N : 1400/1210 min⁻¹*
 Starting current I_s : 20.00 / 6.50 A
 Current increase ΔI : 5 %
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -40 °C
 Max. permitted ambient temperature $t_{R(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 44.8 %
 Efficiency: $N_{actual} = 49.7 / N_{target} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

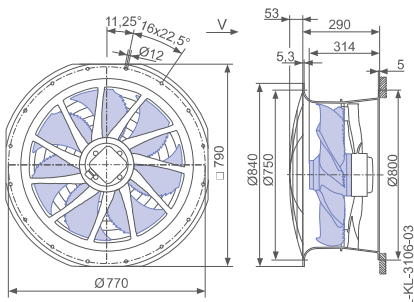
Connection diagram Seite 531
1360-108XA

System components Seite 430

Dimensions mm

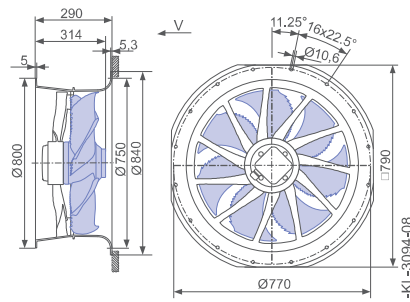
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

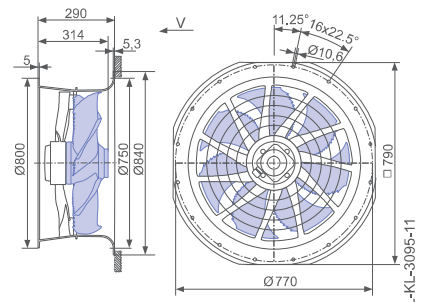


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
ZN063-VD_6N.V7P6	Δ	I	400	①	4.20	2200	1370	
			400*	②	3.70*	1750*	1400*	88
			400	③	3.10	1250	1440	86
	Y	II	400	④	2.60	1550	1130	
			400*	⑤	2.20*	1300*	1210*	84
			400	⑥	1.75	1000	1300	84

*rated data

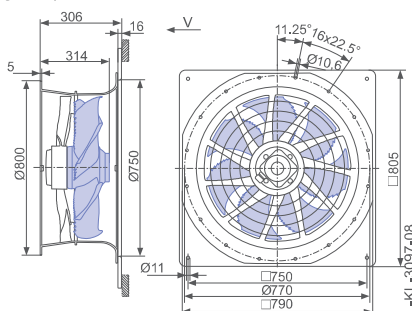
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN063-VDL.6N.V7P6	ZN063-VDL.6N.V7P6	ZN063-VDL.6N.V7P6	ZN063-VDQ.6N.V7P6	ZN063-VDH.6N.V7P6
Article no.	170238	169028	169025	169024	169022
Weight kg	32.30	30.30	31.30	33.40	30.70
ZPlus attachable on both sides.					

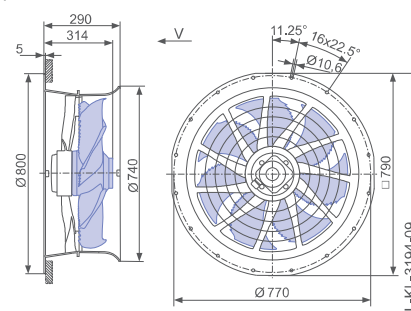
Control technology

Frequency inverters Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
Seite 480	Seite 518	Seite 506

Design Q - ZPlus with adapter plate, guard grille pressure side



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 4-4 pole

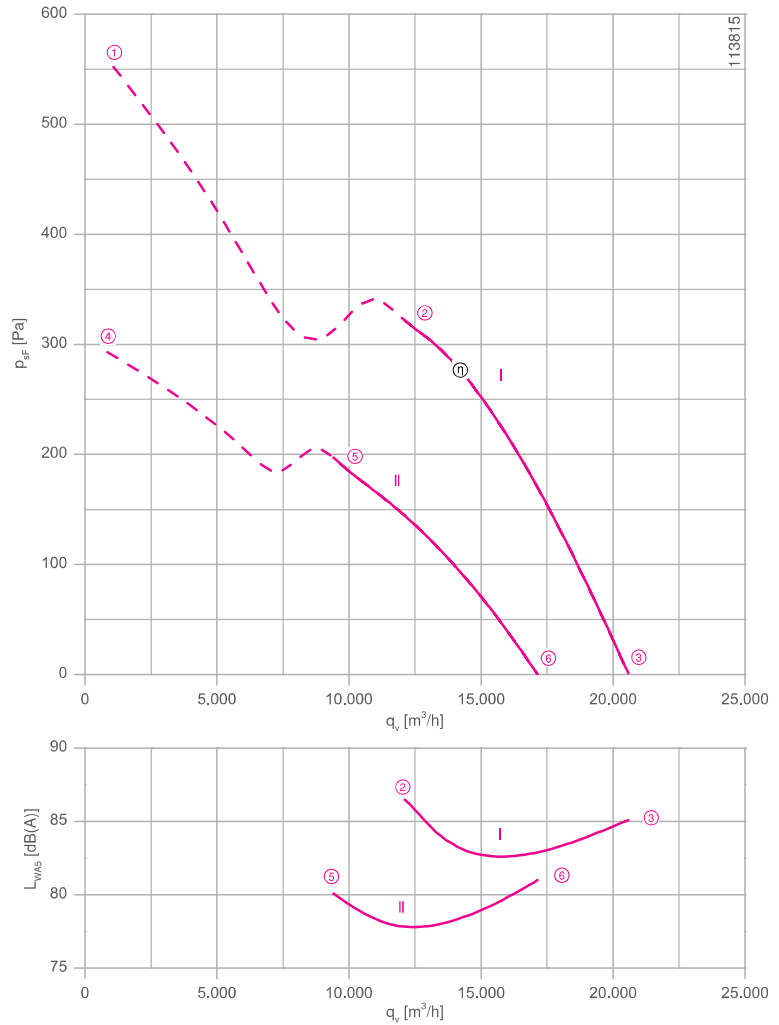
ZN063-VD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %*
 Rated frequency f_N : 50 Hz*
 Input power P_i : 2.70/1.75 kW*
 Rated current I_N : 5.00/2.90 A*
 Rated speed n_N : 1330/1040 min⁻¹*
 Starting current I_s : 19.00 / 6.00 A
 Current increase ΔI : 5 %
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -40 °C
 Max. permitted ambient temperature $t_{R(max)}$: 60 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 43.1 %
 Efficiency: $N_{actual} = 46.8 / N_{target} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

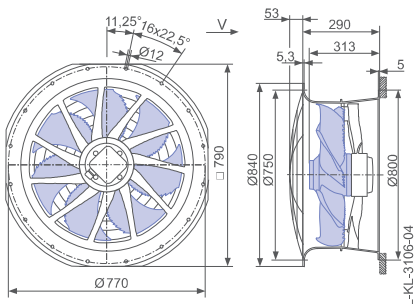
Connection diagram Page 531
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System components Page 430

Dimensions mm

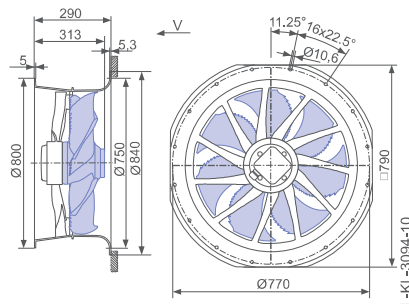
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

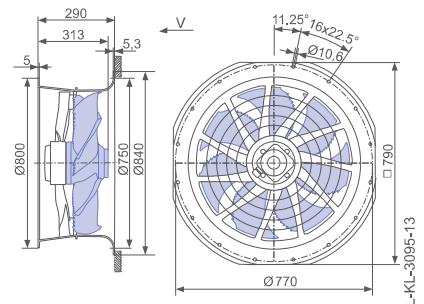


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
ZN063-VD_6N_7P7	Δ	I	400	①	6.00	3400	1270	
			400*	②	5.00*	2700*	1330*	87
			400	③	4.00	2000	1380	85
	Y	II	400	④	3.40	2000	920	
			400*	⑤	2.90*	1750*	1040*	80
			400	⑥	2.50	1450	1150	81

*rated data

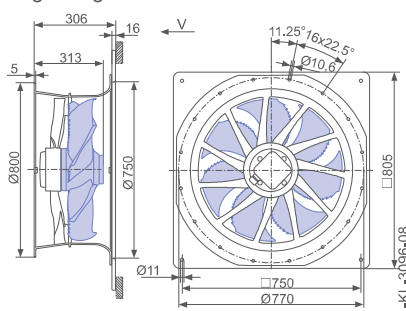
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN063-VDL.6N.V7P7	ZN063-VDL.6N.V7P7	ZN063-VDL.6N.V7P7	ZN063-VDQ.6N.V7P7	ZN063-VDQ.6N.V7P7	ZN063-VDH.6N.V7P7
Article no.	170239	169703	169704	169705	169706	169708
Weight kg	35.30	33.30	34.30	35.30	36.40	33.70
ZPlus attachable on both sides.						

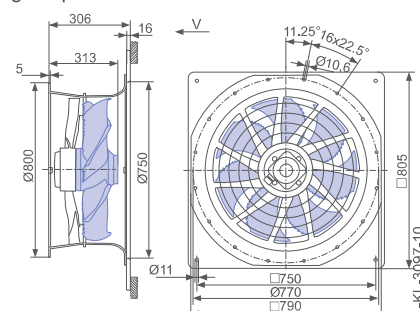
Control technology

<p>Frequency inverters Fcontrol 3~</p> <p>Page 480</p>	<p>Motor protection units 3~</p> <p>Page 518</p>	<p>Electronic voltage controllers 3~</p> <p>Page 506</p>
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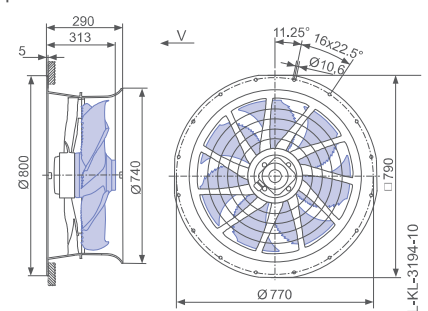
Design Q - ZPlus with adapter plate, without guard grille



Design Q - ZPlus with adapter plate, guard grille pressure side



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 6-6 pole

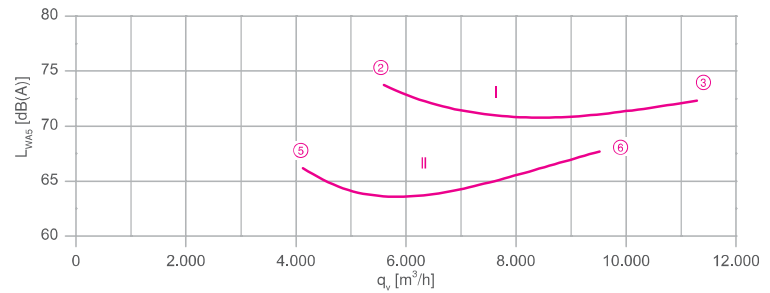
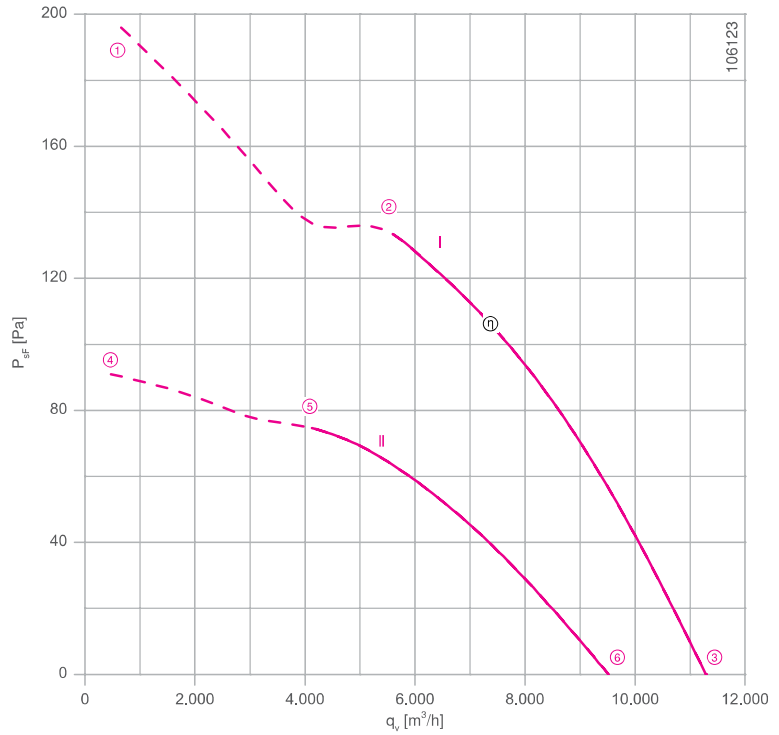
ZN063-SD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 0.60/0.37 kW*
 Rated current I_N : 1.30/0.70 A*
 Rated speed n_N : 890/ 660 min^{-1} *
 Starting current I_s : 4.40 / 1.40 A
 Current increase ΔI : 0 %
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(\text{min})}$: -40 °C
 Max. permitted ambient temperature $t_{R(\text{max})}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{stat^A} : 39.3 %
 Efficiency: $N_{\text{actual}} = 47.1 / N_{\text{target}} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

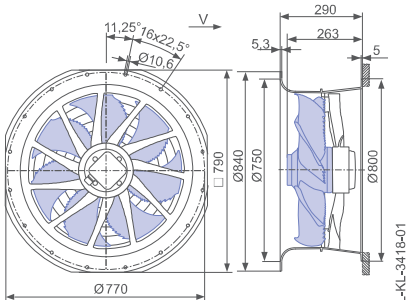
Connection diagram Page 531
1360-108XA

System components Page 430

Dimensions mm

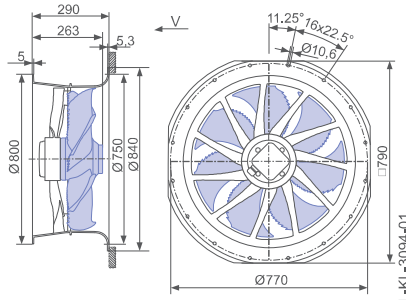
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

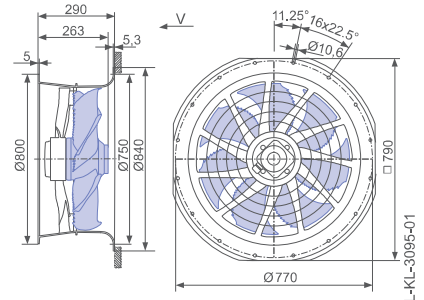


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
ZN063-SD_4I.V7P1	Δ	I	400	①	1.50	780	840	
			400*	②	1.30*	600*	890*	74
			400	③	1.10	400	930	72
	Y	II	400	④	0.78	420	570	
			400*	⑤	0.70*	370*	670*	66
			400	⑥	0.54	290	790	68

*rated data

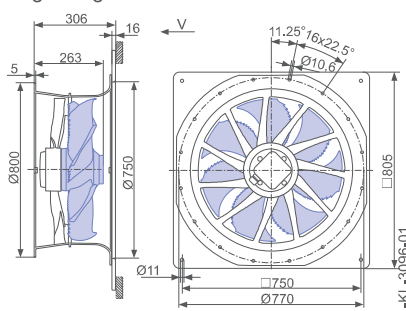
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN063-SDL.4I.V7P1	ZN063-SDL.4I.V7P1	ZN063-SDL.4I.V7P1	ZN063-SDQ.4I.V7P1	ZN063-SDQ.4I.V7P1	ZN063-SDH.4I.V7P1
Article no.	166783	164355	164356	164360	164361	164365
Weight kg	20.40	18.50	19.60	20.60	21.60	18.70
ZPlus attachable on both sides.						

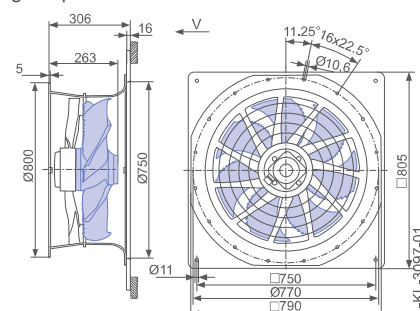
Control technology

<p>Frequency inverters Fcontrol 3~</p> <p>Page 480</p>	<p>Motor protection units 3~</p> <p>Page 518</p>	<p>Electronic voltage controllers 3~</p> <p>Page 506</p>
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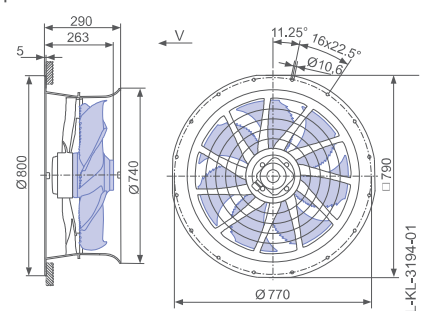
Design Q - ZPlus with adapter plate, without guard grille



Design Q - ZPlus with adapter plate, guard grille pressure side



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 8-8 pole

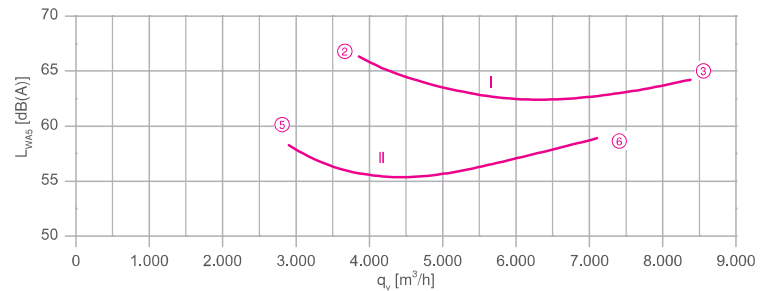
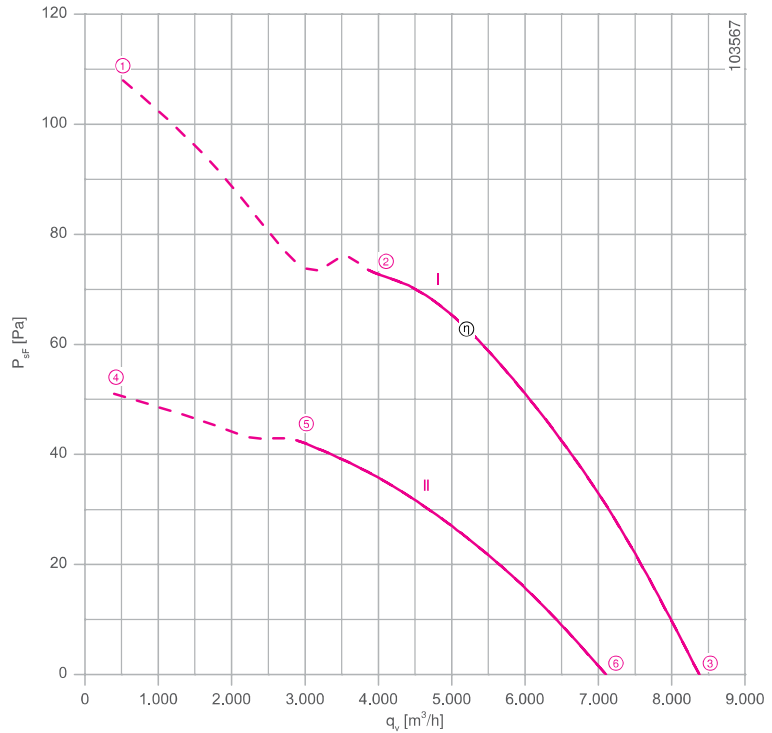
ZN063-AD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 290/170 W*
 Rated current I_N : 0.78/0.37 A*
 Rated speed n_N : 660/ 490 min^{-1} *
 Starting current I_s : 1.70 / 0.50 A
 Current increase ΔI : 0 %
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(\text{min})}$: -40 °C
 Max. permitted ambient temperature $t_{R(\text{max})}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 33.6 %
 Efficiency: $N_{\text{actual}} = 43.5 / N_{\text{target}} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

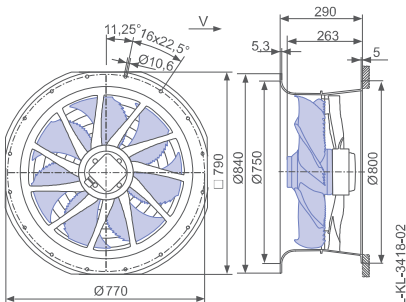
Connection diagram Page 531
1360-108XA

System components Page 430

Dimensions mm

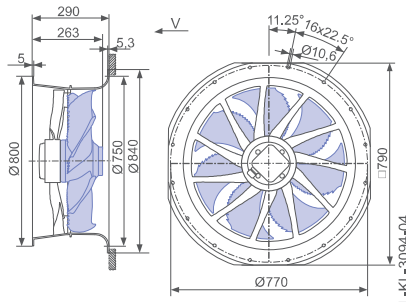
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

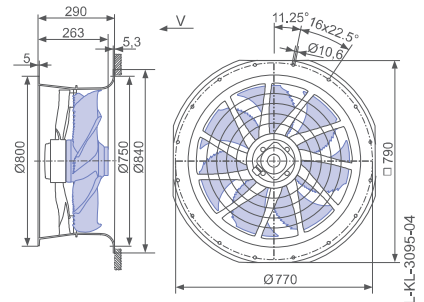


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
ZN063-AD_4I.V7P1	Δ	I	400	①	0.88	360	620	
			400*	②	0.78*	290*	660*	67
			400	③	0.72	210	690	64
	Y	II	400	④	0.40	180	430	
			400*	⑤	0.37*	170*	490*	58
			400	⑥	0.31	130	590	59

*rated data

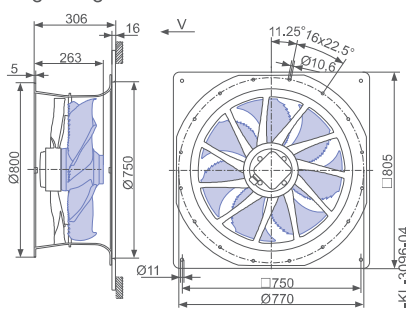
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN063-ADL.4I.V7P1	ZN063-ADL.4I.V7P1	ZN063-ADL.4I.V7P1	ZN063-ADQ.4I.V7P1	ZN063-ADQ.4I.V7P1	ZN063-ADH.4I.V7P1
Article no.	166784	164388	164389	164393	164394	164398
Weight kg	20.40	18.50	19.60	20.60	21.60	18.70
ZPlus attachable on both sides.						

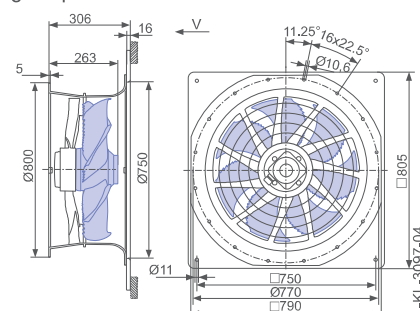
Control technology

<p>Frequency inverters Fcontrol 3~</p> <p>Page 480</p>	<p>Motor protection units 3~</p> <p>Page 518</p>	<p>Electronic voltage controllers 3~</p> <p>Page 506</p>
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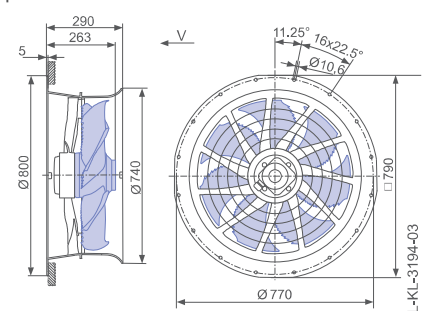
Design Q - ZPlus with adapter plate, without guard grille



Design Q - ZPlus with adapter plate, guard grille pressure side



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 12-12 pole

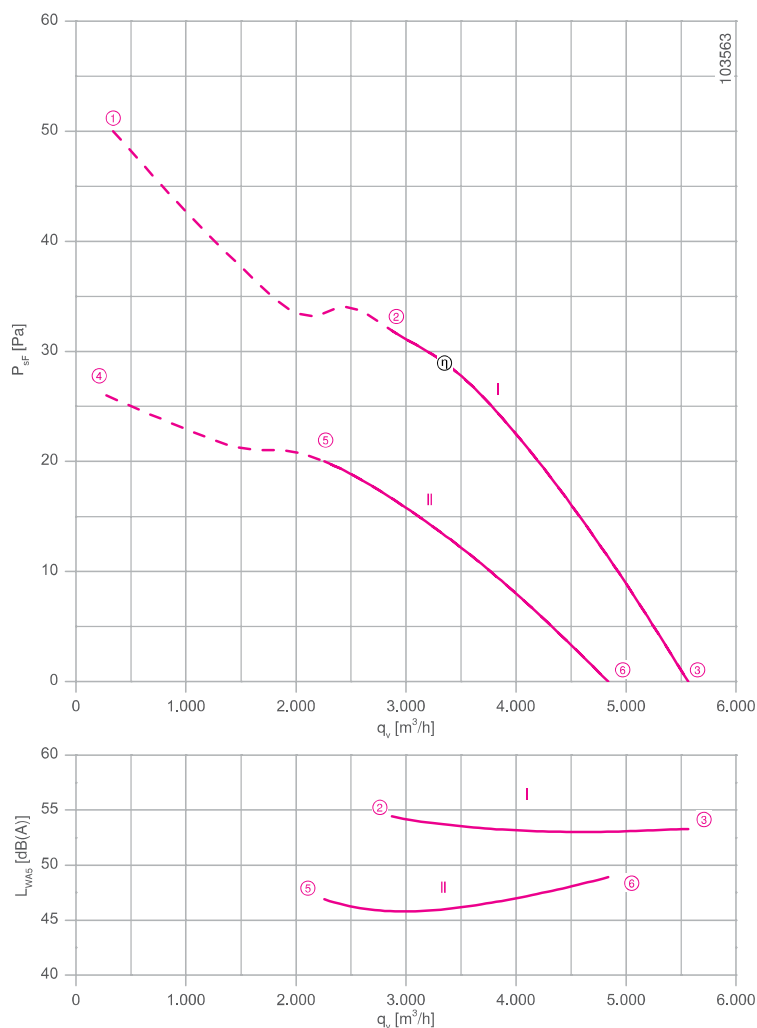
ZN063-ND



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 120/65 W*
 Rated current I_N : 0.31/0.13 A*
 Rated speed n_N : 440/ 340 min^{-1} *
 Current increase ΔI : 0 %
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(\text{min})}$: -40 °C
 Max. permitted ambient temperature $t_{R(\text{max})}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: CE
ErP-data
 Not subject to the regulations of ErP directive ($P_i < 125$ W)
 * Rated data

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

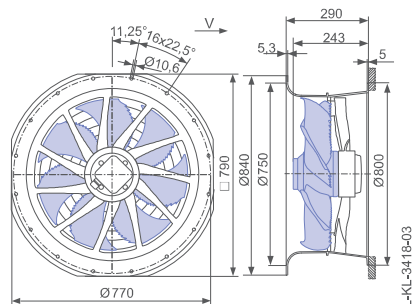
Connection diagram Page 531
1360-108XA

System components Page 430

Dimensions mm

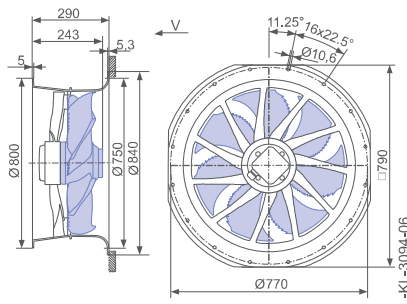
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

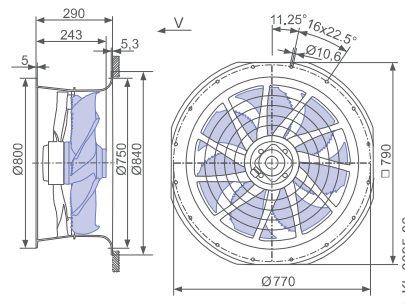


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
ZN063-ND_4F.V7P1	Δ	I	400	①	0.32	140	420	
			400*	②	0.31*	120*	440*	55
			400	③	0.29	95	460	53
	Y	II	400	④	0.14	70	300	
			400*	⑤	0.13*	65*	350*	47
			400	⑥	0.11	50	400	49

*rated data

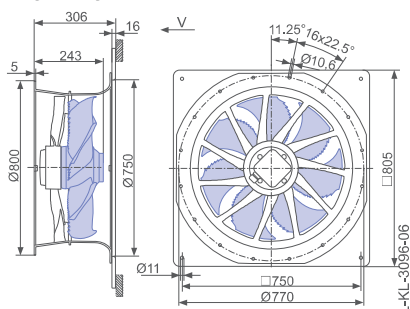
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN063-NDL.4F.V7P1	ZN063-NDL.4F.V7P1	ZN063-NDL.4F.V7P1	ZN063-NDQ.4F.V7P1	ZN063-NDQ.4F.V7P1	ZN063-NDH.4F.V7P1
Article no.	166785	164410	164411	164415	164416	164420
Weight kg	18.80	16.90	18.00	19.00	20.00	17.10
ZPlus attachable on both sides.						

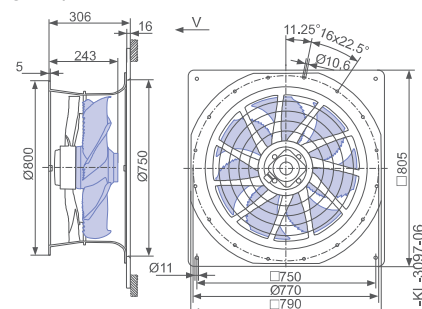
Control technology

<p>Frequency inverters Fcontrol 3~</p> <p>Page 480</p>	<p>Motor protection units 3~</p> <p>Page 518</p>	<p>Electronic voltage controllers 3~</p> <p>Page 506</p>
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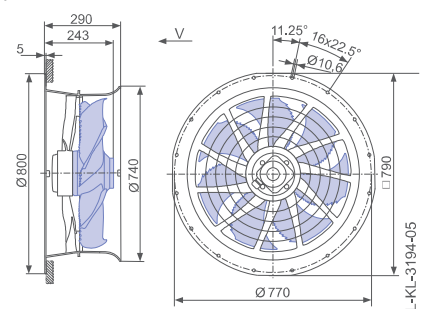
Design Q - ZPlus with adapter plate, without guard grille



Design Q - ZPlus with adapter plate, guard grille pressure side



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 4-4 pole

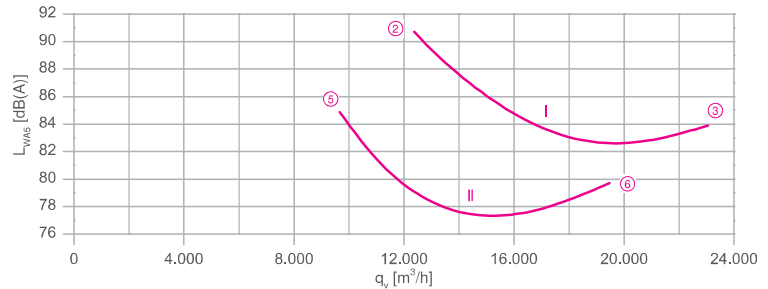
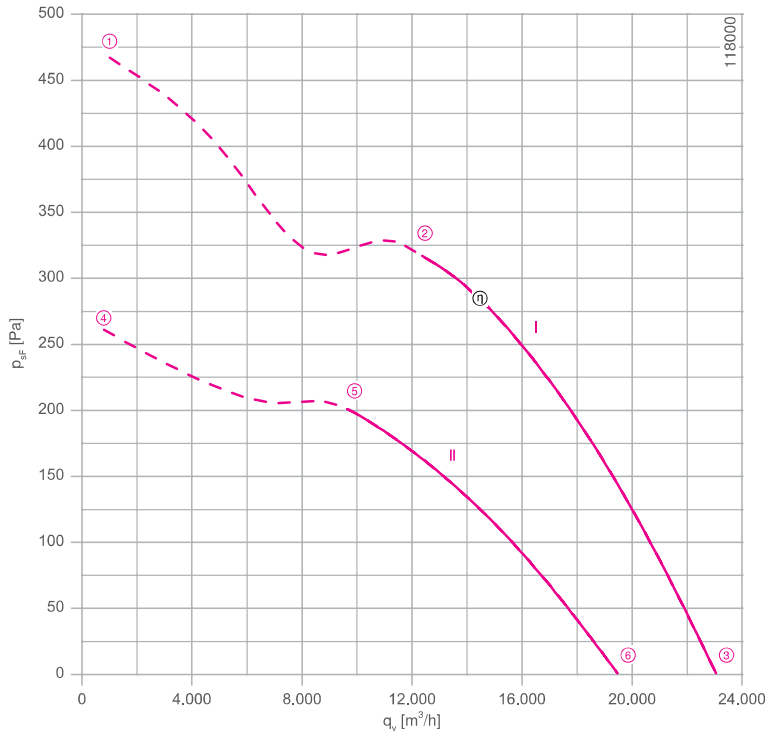
ZN071-VD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) $\pm 10\%$ *
 Rated frequency f_N : 50 Hz*
 Input power P_i : 2.60/1.80 kW*
 Rated current I_N : 4.80/3.00 A*
 Rated speed n_N : 1340/1060 min⁻¹*
 Starting current I_s : 20.00 / 6.50 A
 Current increase ΔI : 5 %
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{R(min)}$: -40 °C
 Max. permitted ambient temperature $t_{R(max)}$: 60 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 44.7 %
 Efficiency: $N_{actual} = 48.4 / N_{target} = 40^{**}$
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

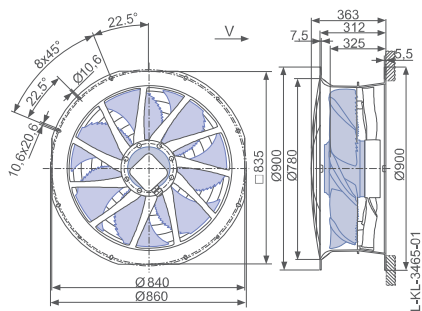
Connection diagram Page 531
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System components Page 430

Dimensions mm

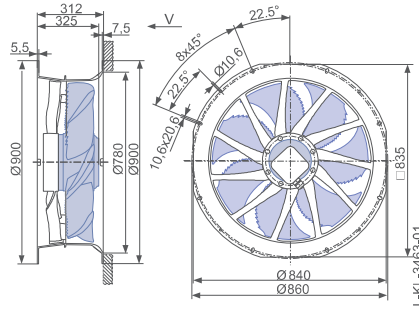
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

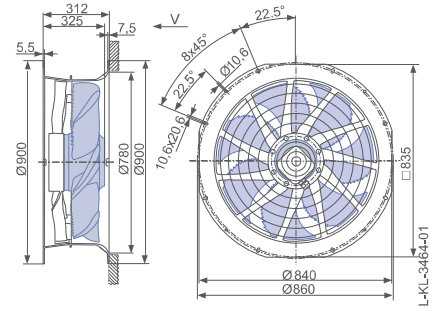


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
ZN071-VD_6N_7P2	Δ	I	400	①	5.80	3300	1290	
			400*	②	4.80*	2600*	1340*	91
			400	③	3.90	1900	1390	84
	Y	II	400	④	3.40	2100	950	
			400*	⑤	2.90*	1800*	1060*	85
			400	⑥	2.40	1450	1180	80

*rated data

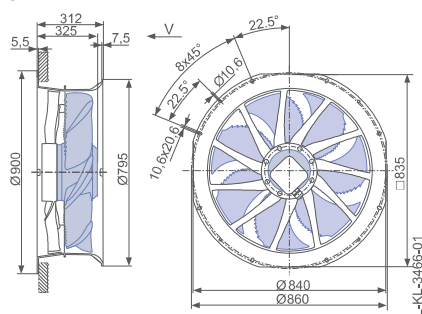
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	H (without guard grille) Flattop	H (guard grille pressure side) Flattop
Type	ZN071-VDL.6N.V7P2	ZN071-VDL.6N.V7P2	ZN071-VDL.6N.V7P2	ZN071-VDH.6N.V7P2	ZN071-VDH.6N.V7P2
Article no.	170443	170353	170354	170441	170442
Weight kg	34.40	31.80	33.00	30.90	32.10
ZPlus attachable on both sides.					

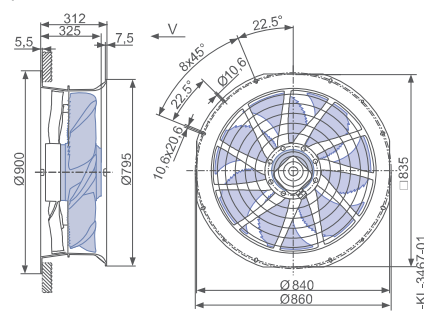
Control technology

Frequency inverters Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
Page 480	Page 518	Page 506

Design H - ZPlus Flattop, without guard grille



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 6-6 pole

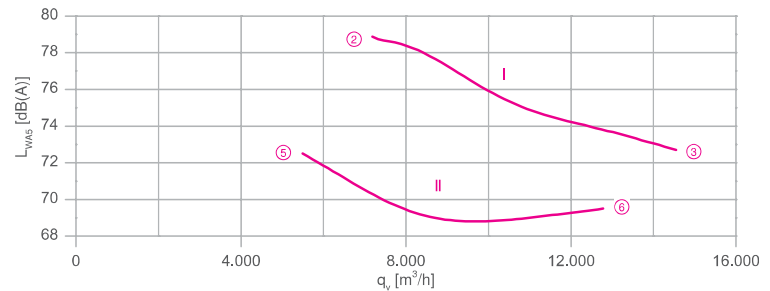
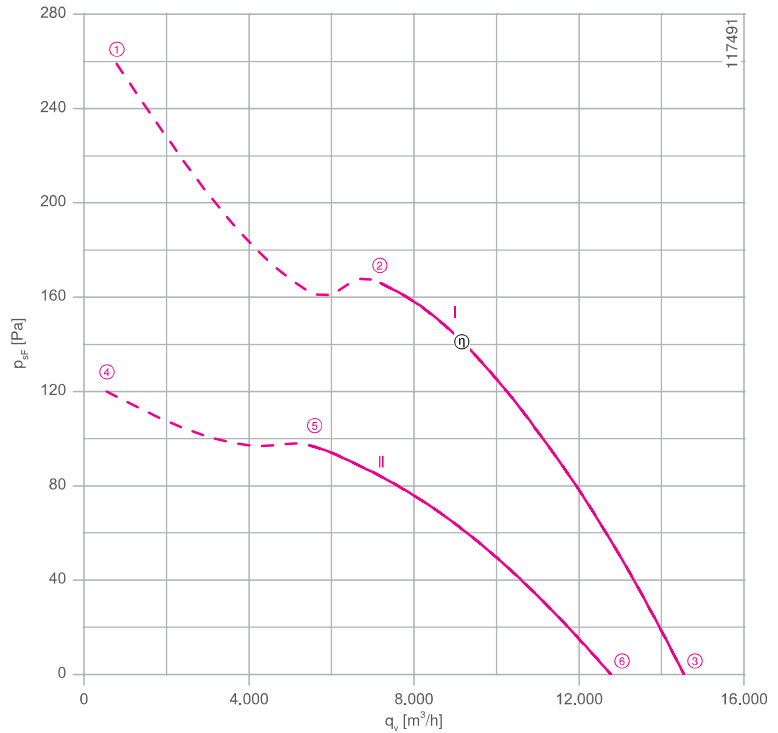
ZNO71-SD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) $\pm 10\%$ *
 Rated frequency f_N : 50 Hz*
 Input power P_i : 0,88/0,62 kW*
 Rated current I_N : 1,65/1,10 A*
 Rated speed n_N : 900/ 690 min^{-1} *
 Starting current I_s : 6,00 / 1,80 A
 Current increase ΔI : 10 %
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(\text{min})}$: -40 °C
 Max. permitted ambient temperature $t_{R(\text{max})}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency $\eta_{\text{stat}A}$: 43,8 %
 Efficiency: $N_{\text{actual}} = 50,6 / N_{\text{target}} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

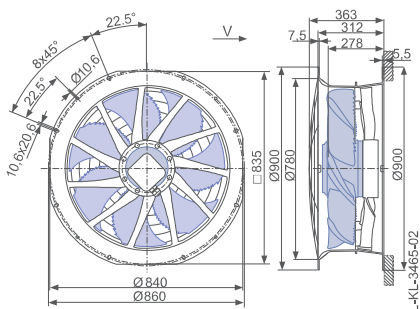
Connection diagram Page 531
1360-108XA

System components Page 430

Dimensions mm

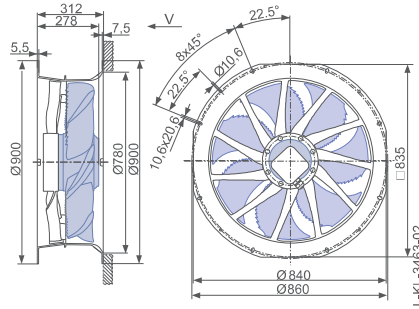
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

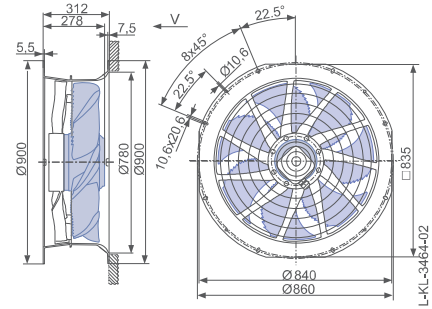


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V		I A	P_1 W	n min ⁻¹	
ZN071-SD_6F_7P1	Δ	I	400	①	2.10	1200	850	
			400*	②	1.65*	880*	900*	79
			400	③	1.30	540	950	73
	Y	II	400	④	1.25	720	570	
			400*	⑤	1.05*	620*	690*	73
			400	⑥	0.74	440	830	70

*rated data

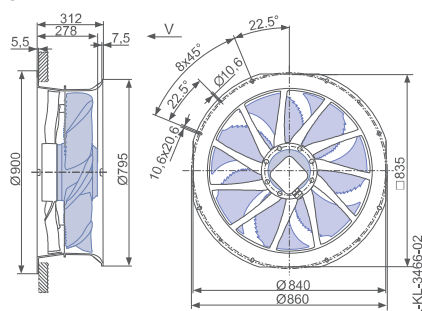
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	H (without guard grille) Flattop	H (guard grille pressure side) Flattop
Type	ZN071-SDL.6F.V7P1	ZN071-SDL.6F.V7P1	ZN071-SDL.6F.V7P1	ZN071-SDH.6F.V7P1	ZN071-SDH.6F.V7P1
Article no.	170447	170355	170356	170445	170446
Weight kg	28.90	26.40	27.50	25.40	26.60
ZPlus attachable on both sides.					

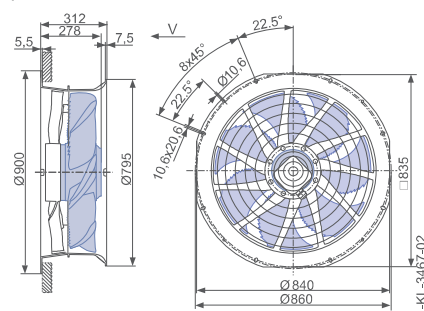
Control technology

Frequency inverters Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
Page 480	Page 518	Page 506

Design H - ZPlus Flattop, without guard grille



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 6-6 pole

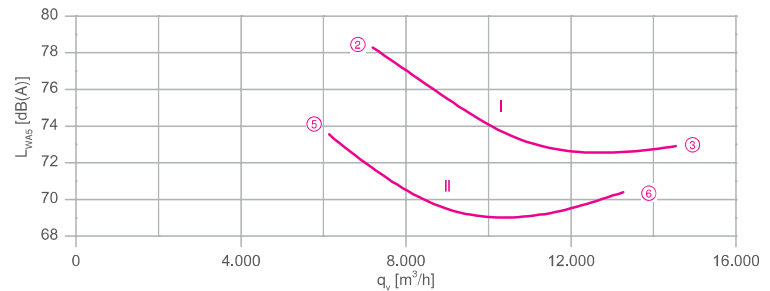
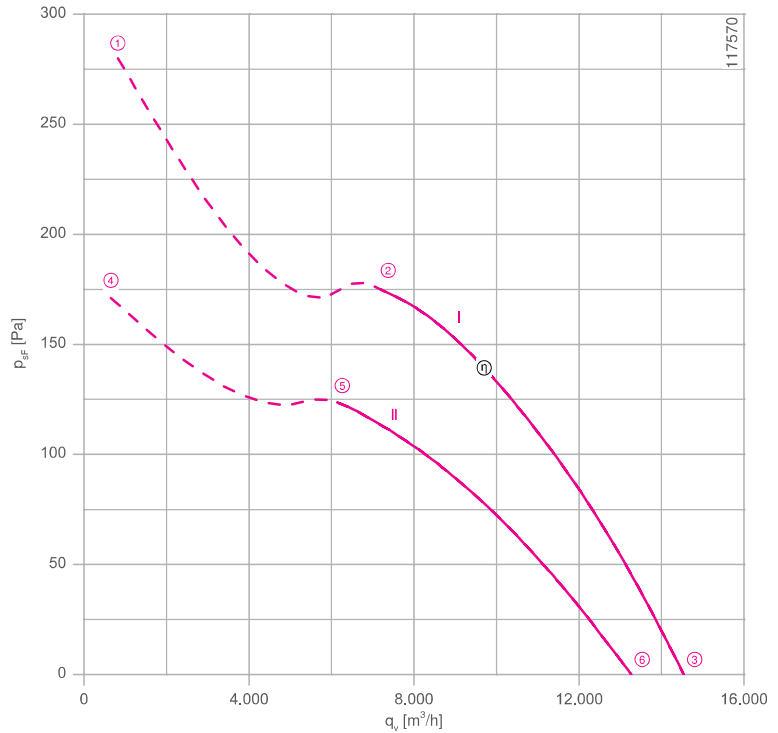
ZNO71-SD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 0.94/0.66 kW*
 Rated current I_N : 2.40/1.20 A*
 Rated speed n_N : 920/ 770 min^{-1} *
 Starting current I_s : 9.50 / 3.00 A
 Current increase ΔI : 0 %
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(\text{min})}$: -40 °C
 Max. permitted ambient temperature $t_{R(\text{max})}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 43.9 %
 Efficiency: $N_{\text{actual}} = 50.6 / N_{\text{target}} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

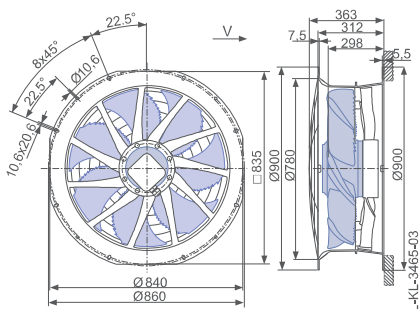
Connection diagram Page 531
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System components Page 430

Dimensions mm

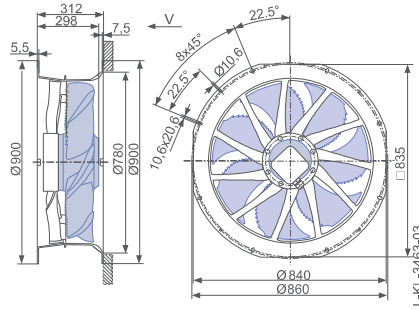
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

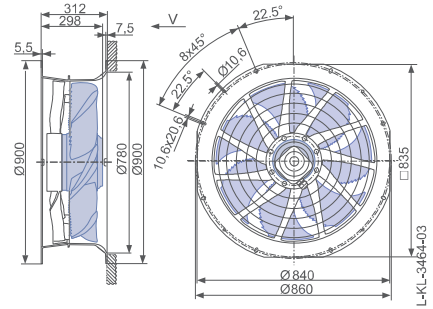


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
ZN071-SD_6K.V7P1	Δ	I	400	①	2.70	1250	880	
			400*	②	2.40*	940*	920*	78
			400	③	2.10	580	950	73
	Y	II	400	④	1.45	800	690	
			400*	⑤	1.20*	660*	770*	74
			400	⑥	0.86	440	870	70

*rated data

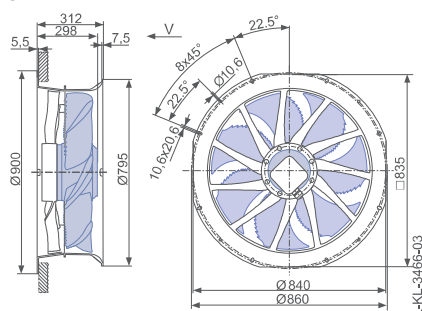
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	H (without guard grille) Flattop	H (guard grille pressure side) Flattop
Type	ZN071-SDL.6K.V7P1	ZN071-SDL.6K.V7P1	ZN071-SDL.6K.V7P1	ZN071-SDH.6K.V7P1	ZN071-SDH.6K.V7P1
Article no.	170455	170357	170358	170452	170453
Weight kg	32.50	30.00	31.20	29.00	30.20
ZPlus attachable on both sides.					

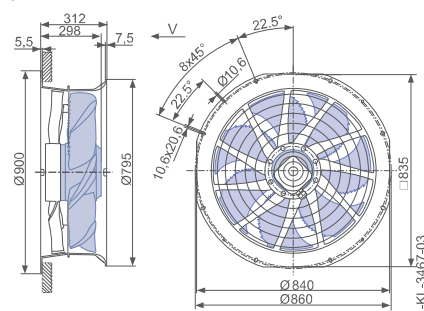
Control technology

Frequency inverters Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
Page 480	Page 518	Page 506

Design H - ZPlus Flattop, without guard grille



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 8-8 pole

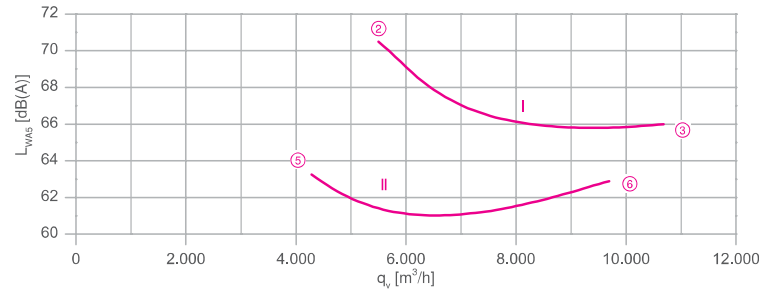
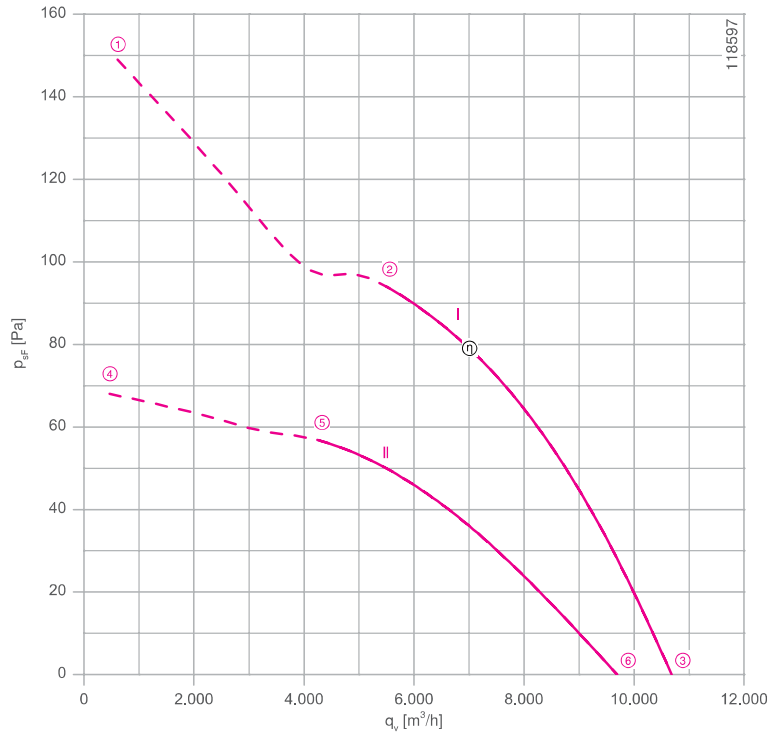
ZNO71-AD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 0.44/0.30 kW*
 Rated current I_N : 1.05/0.60 A*
 Rated speed n_N : 680/ 530 min^{-1} *
 Starting current I_s : 3.20 / 0.95 A
 Current increase ΔI : 0 %
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(\text{min})}$: -40 °C
 Max. permitted ambient temperature $t_{R(\text{max})}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 38.0 %
 Efficiency: $N_{\text{actual}} = 46.7 / N_{\text{target}} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

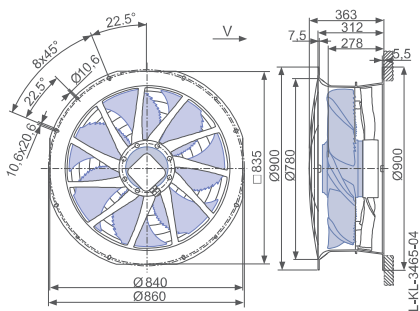
Connection diagram Page 531
1360-108XA

System components Page 430

Dimensions mm

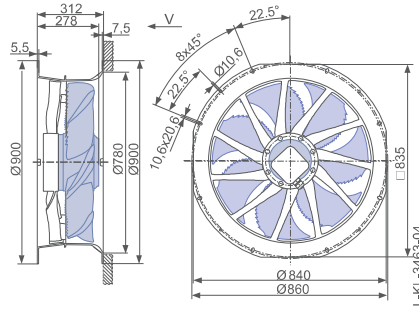
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

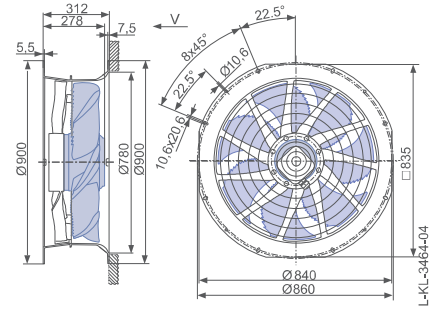


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
ZN071-AD_6F_7P1	Δ	I	400	①	1.25	580	650	
			400*	②	1.05*	440*	680*	71
			400	③	0.92	290	710	66
	Y	II	400	④	0.68	330	440	
			400*	⑤	0.58*	290*	530*	63
			400	⑥	0.42	210	630	63

*rated data

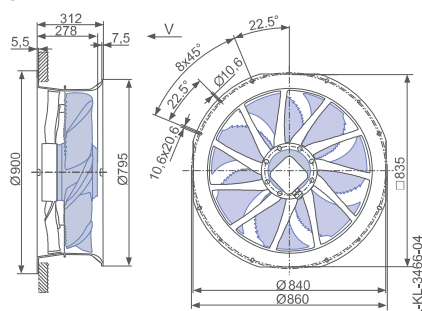
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	H (without guard grille) Flattop	H (guard grille pressure side) Flattop
Type	ZN071-ADL.6F.V7P1	ZN071-ADL.6F.V7P1	ZN071-ADL.6F.V7P1	ZN071-ADH.6F.V7P1	ZN071-ADH.6F.V7P1
Article no.	170465	170456	170457	170462	170463
Weight kg	28.90	26.40	27.60	25.40	26.60
ZPlus attachable on both sides.					

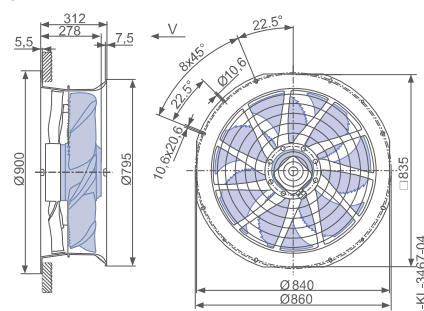
Control technology

Frequency inverters Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
Page 480	Page 518	Page 506

Design H - ZPlus Flattop, without guard grille



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 12-12 pole

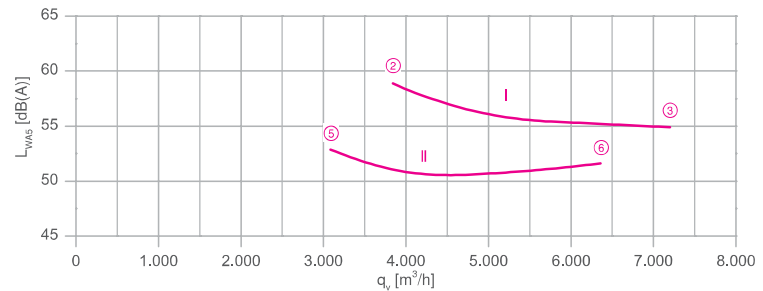
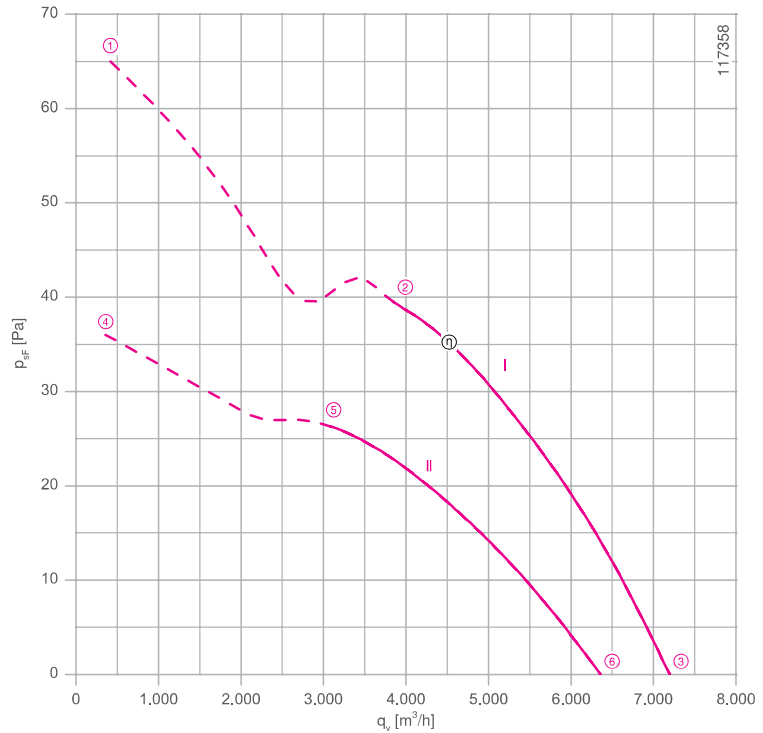
ZNO71-ND



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 170/100 W*
 Rated current I_N : 0.54/0.23 A*
 Rated speed n_N : 450/ 360 min^{-1} *
 Starting current I_s : 1.10 / 0.34 A
 Current increase ΔI : 0 %
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(\text{min})}$: -40 °C
 Max. permitted ambient temperature $t_{R(\text{max})}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency $\eta_{\text{stat}A}$: 28.8 %
 Efficiency: $N_{\text{actual}} = 40.1 / N_{\text{target}} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

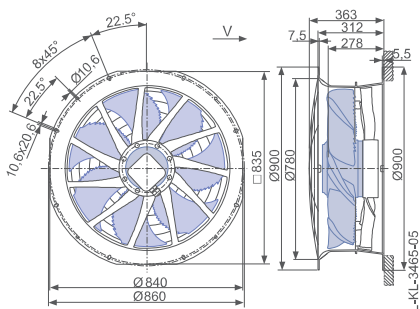
Connection diagram Page 531
1360-108XA

System components Page 430

Dimensions mm

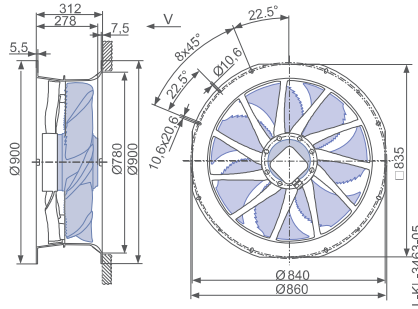
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

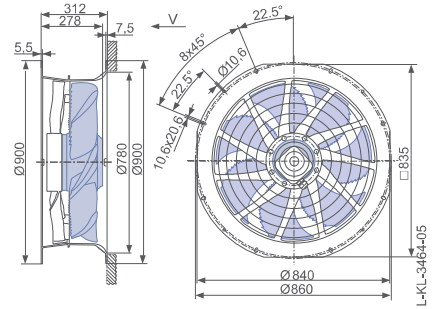


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
ZN071-ND_6F_7P1	Δ	I	400	①	0.56	210	430	
			400*	②	0.54*	170*	450*	59
			400	③	0.52	130	470	55
	Y	II	400	④	0.25	110	320	
			400*	⑤	0.23*	100*	370*	53
			400	⑥	0.19	75	420	52

*rated data

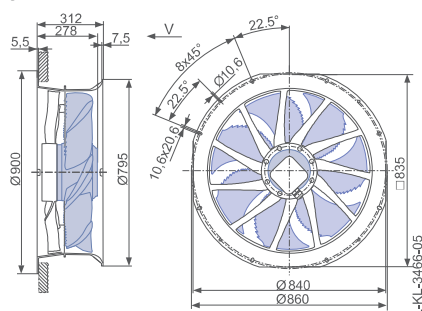
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	H (without guard grille) Flattop	H (guard grille pressure side) Flattop
Type	ZN071-NDL.6F.V7P1	ZN071-NDL.6F.V7P1	ZN071-ADL.6F.V7P1	ZN071-NDH.6F.V7P1	ZN071-ADH.6F.V7P1
Article no.	170475	170466	170467	170472	170473
Weight kg	28.90	26.40	27.60	25.40	26.60
ZPlus attachable on both sides.					

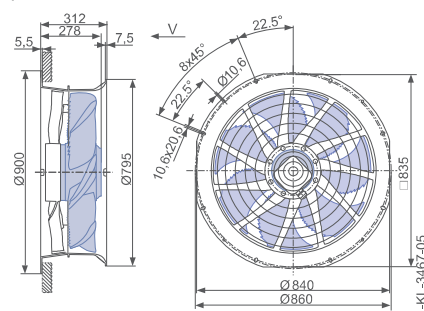
Control technology

Frequency inverters Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
Page 480	Page 518	Page 506

Design H - ZPlus Flattop, without guard grille



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 6-6 pole

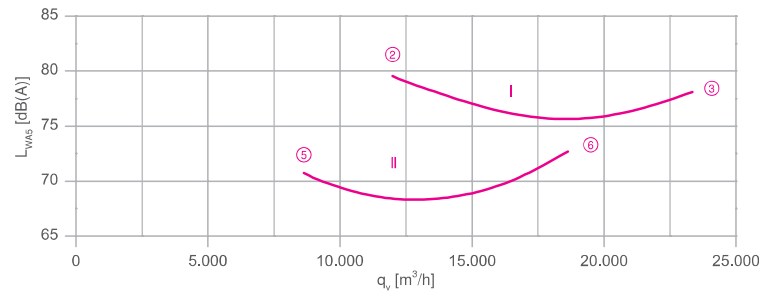
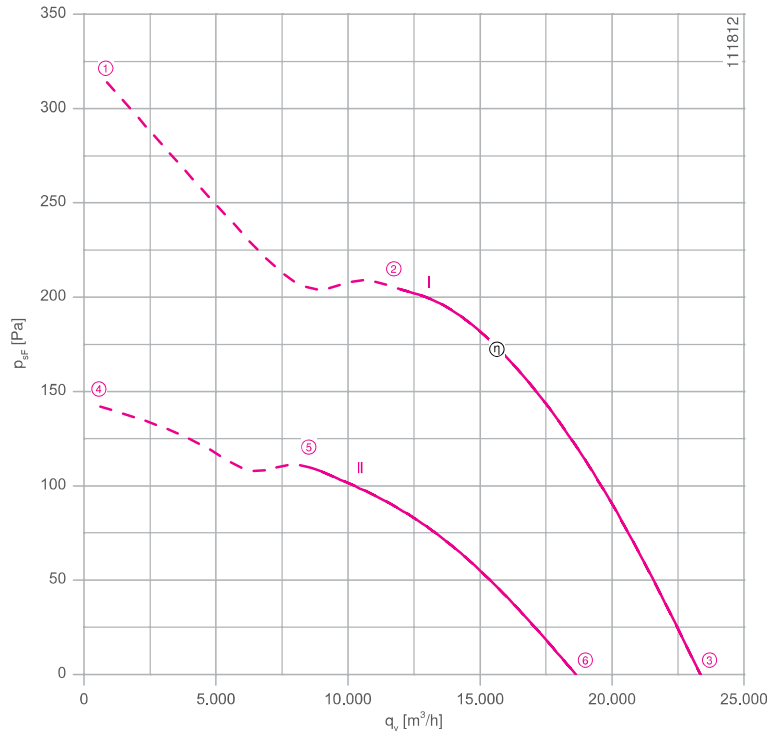
ZN080-SD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %*
 Rated frequency f_N : 50 Hz*
 Input power P_i : 1.85/1.05 kW*
 Rated current I_N : 3.80/2.00 A*
 Rated speed n_N : 870/ 640 min^{-1} *
 Starting current I_s : 11.00 / 3.40 A
 Current increase ΔI : 0 %
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(\text{min})}$: -40 °C
 Max. permitted ambient temperature $t_{R(\text{max})}$: 60 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 42.7 %
 Efficiency: $\eta_{\text{actual}} = 47.5 / N_{\text{target}} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

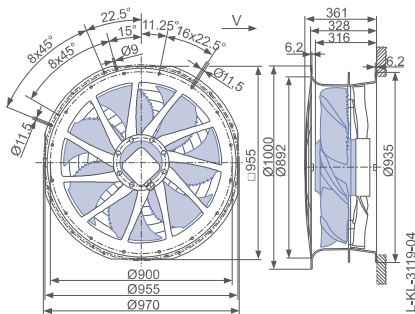
Connection diagram Page 531
1360-108XA

System components Page 430

Dimensions mm

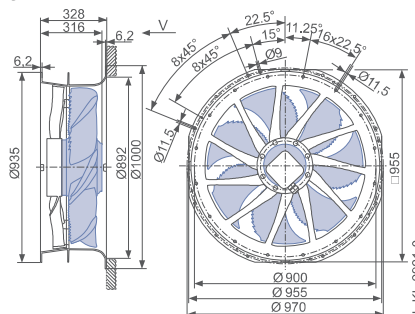
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

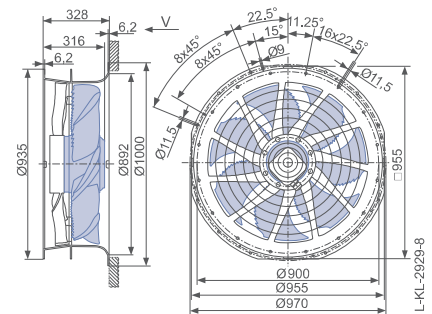


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
ZN080-SD_6N.V7P5	Δ	I	400	①	4.80	2400	800	
			400*	②	3.80*	1850*	870*	80
			400	③	3.10	1350	920	78
	Y	II	400	④	2.20	1200	540	
			400*	⑤	2.00*	1050*	640*	71
			400	⑥	1.70	900	730	73

*rated data

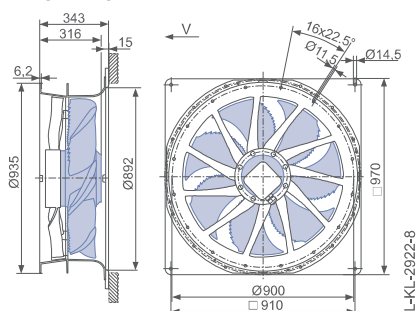
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN080-SDL.6N.V7P5	ZN080-SDL.6N.V7P5	ZN080-SDL.6N.V7P5	ZN080-SDQ.6N.V7P5	ZN080-SDQ.6N.V7P5	ZN080-SDH.6N.V7P5
Article no.	170240	168918	168919	168920	168921	168925
Weight kg	41.70	38.80	40.30	41.90	43.40	38.60
ZPlus attachable on both sides.						

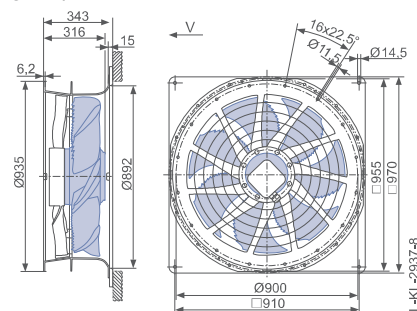
Control technology

<p>Frequency inverters Fcontrol 3~</p> <p>Page 480</p>	<p>Motor protection units 3~</p> <p>Page 518</p>	<p>Electronic voltage controllers 3~</p> <p>Page 506</p>
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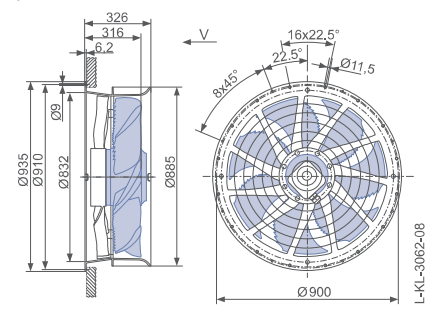
Design Q - ZPlus with adapter plate, without guard grille



Design Q - ZPlus with adapter plate, guard grille pressure side



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 6-6 pole

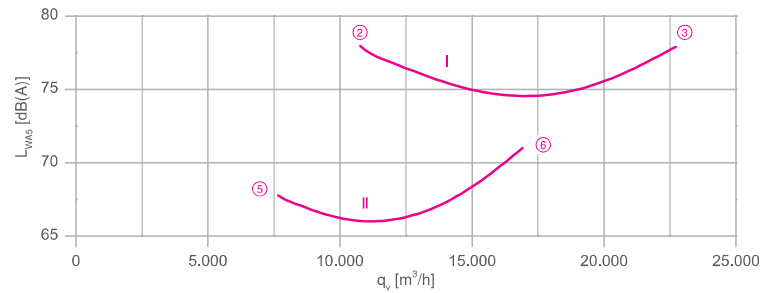
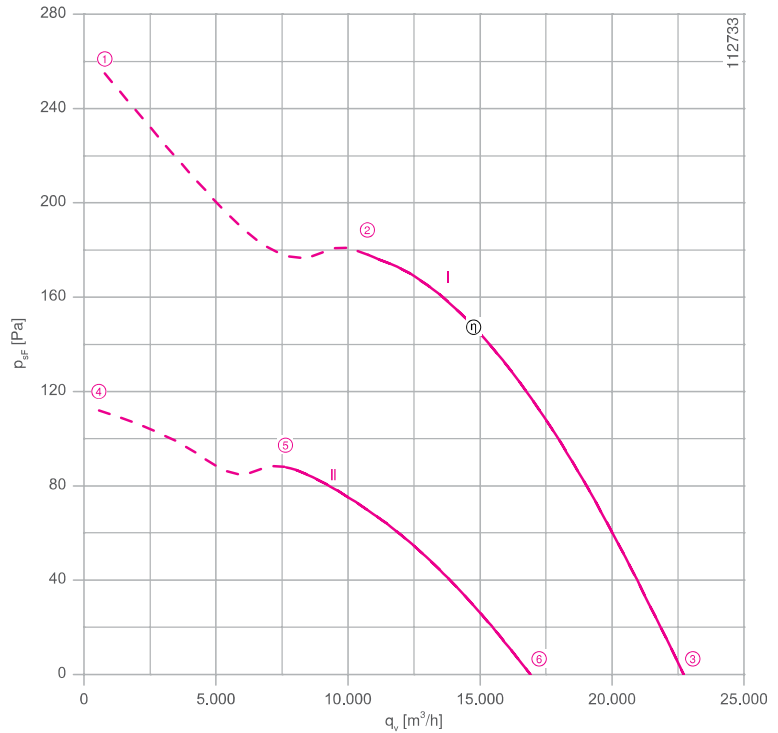
ZN080-SD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 1.60/0.80 kW*
 Rated current I_N : 3.50/1.55 A*
 Rated speed n_N : 800/ 560 min^{-1} *
 Starting current I_s : 9.50 / 3.00 A
 Current increase ΔI : 0 %
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(\text{min})}$: -40 °C
 Max. permitted ambient temperature $t_{R(\text{max})}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 39.6 %
 Efficiency: $N_{\text{actual}} = 44.7 / N_{\text{target}} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

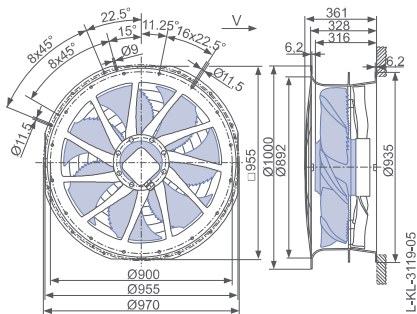
Connection diagram Page 531
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System components Page 430

Dimensions mm

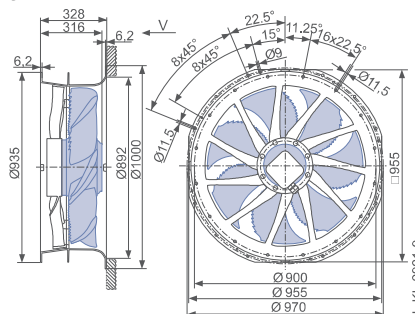
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

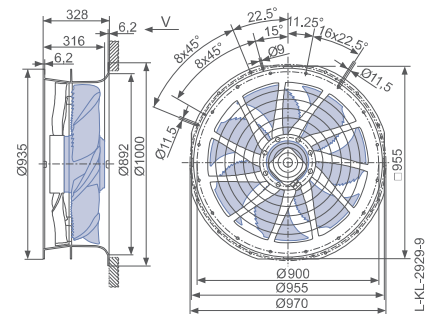


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
ZN080-SD_6N.V7P5	Δ	I	400	①	4.00	1950	730	
			400*	②	3.50*	1600*	800*	78
			400	③	3.00	1250	860	78
	Y	II	400	④	1.70	880	480	
			400*	⑤	1.55*	800*	560*	68
			400	⑥	1.40	700	650	71

*rated data

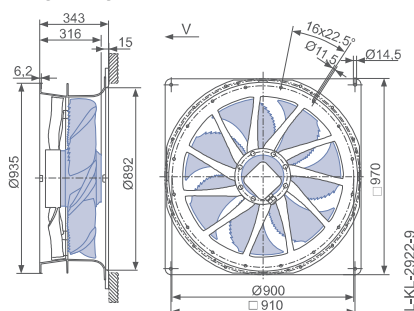
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN080-SDL.6N.V7P5	ZN080-SDL.6N.V7P5	ZN080-SDL.6N.V7P5	ZN080-SDQ.6N.V7P5	ZN080-SDQ.6N.V7P5	ZN080-SDH.6N.V7P5
Article no.	170241	168928	168929	168930	168931	168935
Weight kg	41.70	38.80	38.80	41.90	43.40	38.60
ZPlus attachable on both sides.						

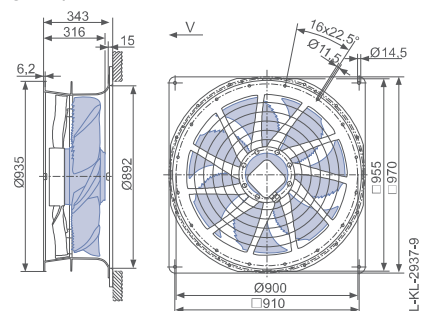
Control technology

<p>Frequency inverters Fcontrol 3~</p> <p>Page 480</p>	<p>Motor protection units 3~</p> <p>Page 518</p>	<p>Electronic voltage controllers 3~</p> <p>Page 506</p>
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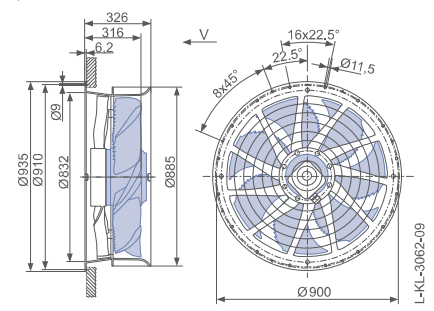
Design Q - ZPlus with adapter plate, without guard grille



Design Q - ZPlus with adapter plate, guard grille pressure side



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 8-8 pole

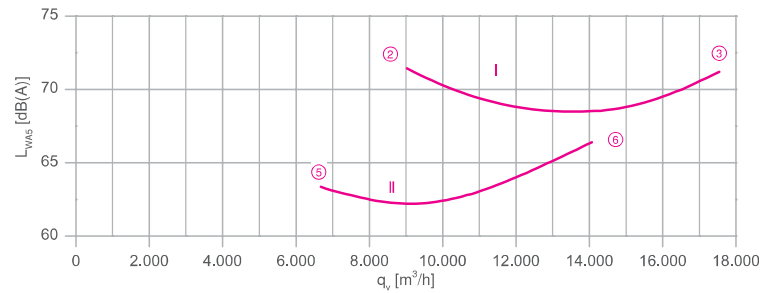
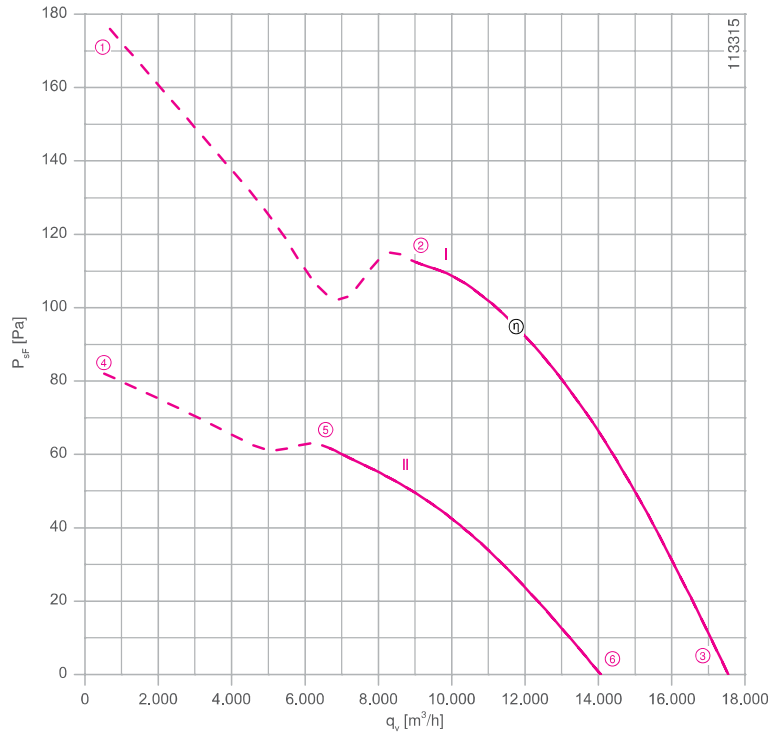
ZN080-AD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 0.84/0.46 kW*
 Rated current I_N : 2.10/0.98 A*
 Rated speed n_N : 650/ 480 min^{-1} *
 Starting current I_s : 5.50 / 1.60 A
 Current increase ΔI : 0 %
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(\text{min})}$: -40 °C
 Max. permitted ambient temperature $t_{R(\text{max})}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{stat^A} : 39.2 %
 Efficiency: $N_{\text{actual}} = 46.1 / N_{\text{target}} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

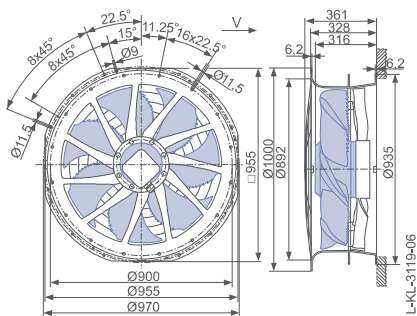
Connection diagram Page 531
1360-108XA

System components Page 430

Dimensions mm

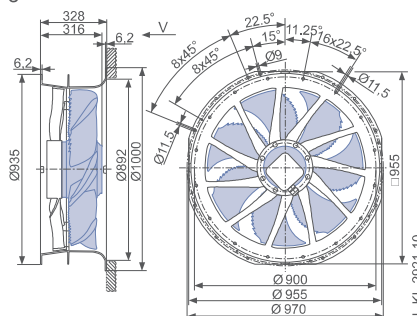
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

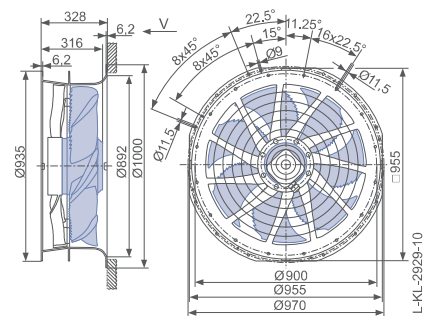


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
ZN080-AD_6N.V7P5	Δ	I	400	①	2.50	1050	600	
			400*	②	2.10*	840*	650*	72
			400	③	1.90	620	690	71
	Y	II	400	④	1.10	520	410	
			400*	⑤	0.98*	460*	480*	64
			400	⑥	0.86	390	550	66

*rated data

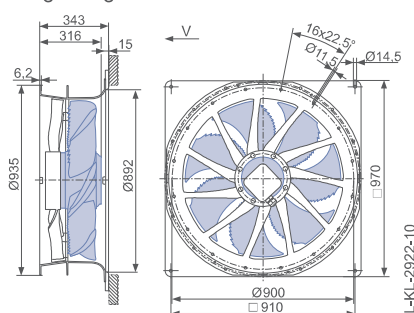
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN080-ADL.6N.V7P5	ZN080-ADL.6N.V7P5	ZN080-ADL.6N.V7P5	ZN080-ADQ.6N.V7P5	ZN080-ADQ.6N.V7P5	ZN080-ADH.6N.V7P5
Article no.	170242	168989	168990	168991	168992	168996
Weight kg	41.70	38.80	40.30	41.90	43.40	38.60
ZPlus attachable on both sides.						

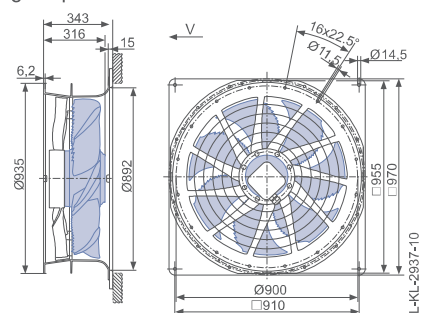
Control technology

<p>Frequency inverters Fcontrol 3~</p> <p>Page 480</p>	<p>Motor protection units 3~</p> <p>Page 518</p>	<p>Electronic voltage controllers 3~</p> <p>Page 506</p>
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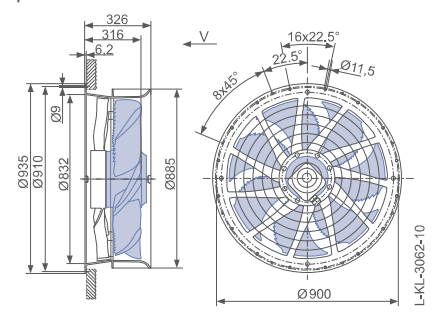
Design Q - ZPlus with adapter plate, without guard grille



Design Q - ZPlus with adapter plate, guard grille pressure side



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 12-12 pole

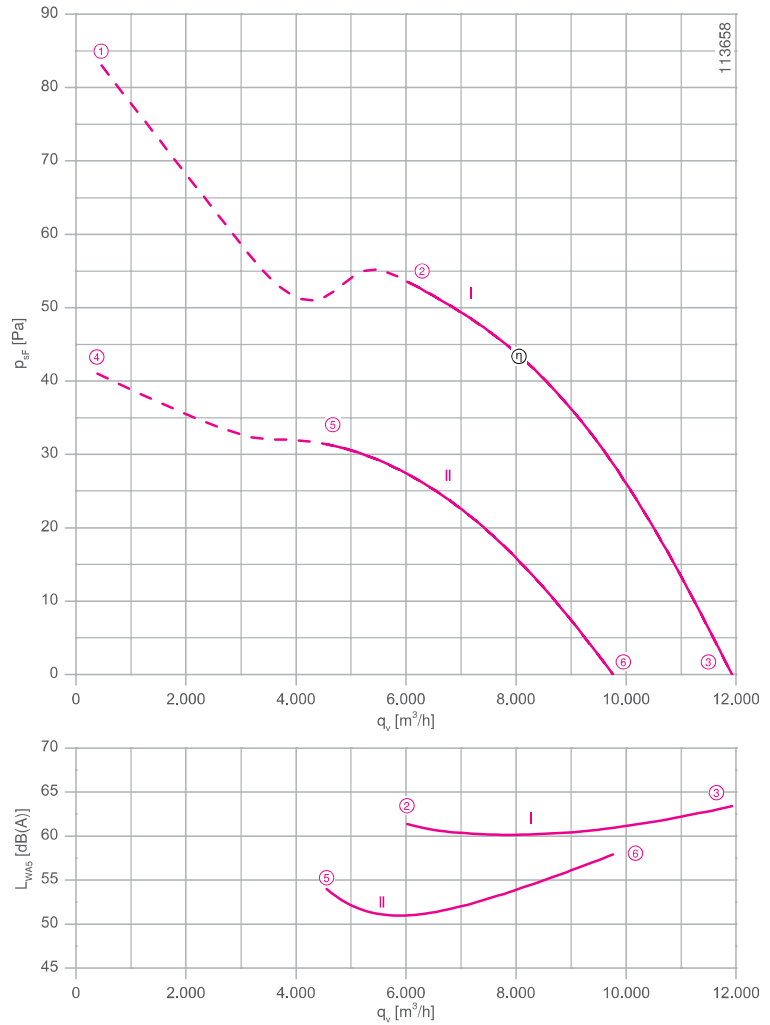
ZN080-ND



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_i : 310/190 W*
 Rated current I_N : 0.78/0.38 A*
 Rated speed n_N : 440/ 340 min⁻¹*
 Current increase ΔI : 0 %
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -40 °C
 Max. permitted ambient temperature $t_{R(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 33.6 %
 Efficiency: $N_{actual} = 43.2 / N_{target} = 40$ **
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

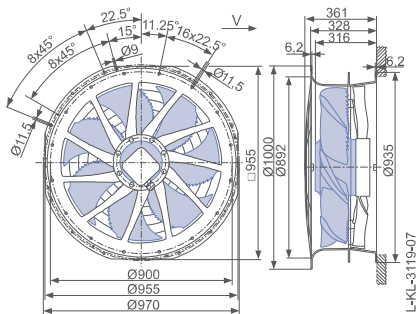
Connection diagram Page 531
1360-108XA

System components Page 430

Dimensions mm

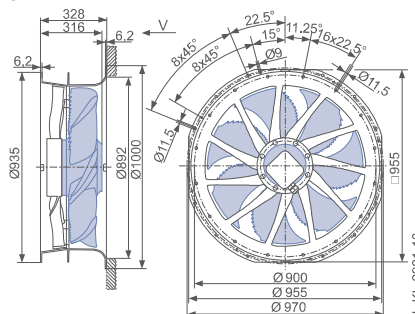
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

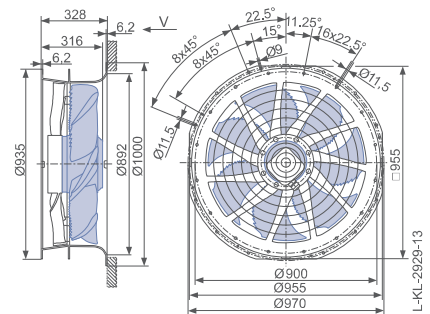


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
ZN080-ND_6N_7P5	Δ	I	400	①	0.88	390	410	
			400*	②	0.78*	310*	440*	62
			400	③	0.74	240	460	63
	Y	II	400	④	0.42	210	290	
			400*	⑤	0.38*	190*	340*	54
			400	⑥	0.33	160	380	58

*rated data

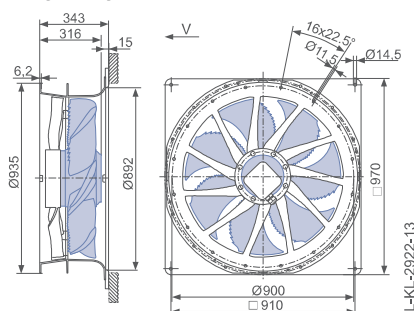
Fan ordering information

Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN080-NDL.6N.V7P5	ZN080-NDL.6N.V7P5	ZN080-NDL.6N.V7P5	ZN080-NDQ.6N.V7P5	ZN080-NDQ.6N.V7P5	ZN080-NDH.6N.V7P5
Article no.	170243	169061	169062	169063	169064	169068
Weight kg	41.70	38.80	40.30	41.90	43.40	38.60
ZPlus attachable on both sides.						

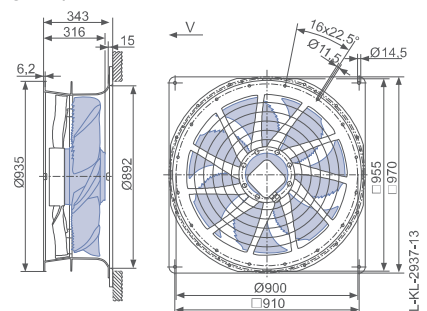
Control technology

<p>Frequency inverters Fcontrol 3~</p> <p>Page 480</p>	<p>Motor protection units 3~</p> <p>Page 518</p>	<p>Electronic voltage controllers 3~</p> <p>Page 506</p>
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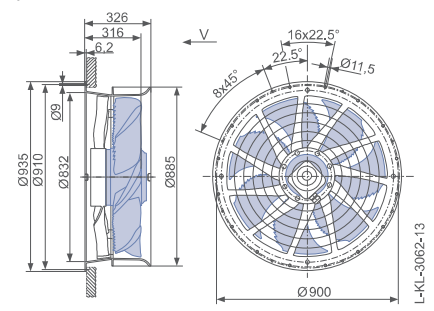
Design Q - ZPlus with adapter plate, without guard grille



Design Q - ZPlus with adapter plate, guard grille pressure side



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet with ZPlus

for three phase alternating current, 4-4 pole

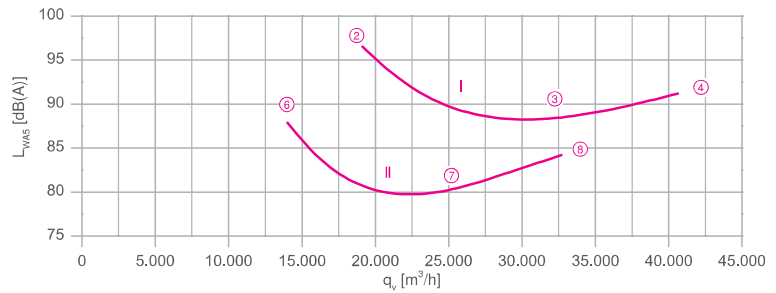
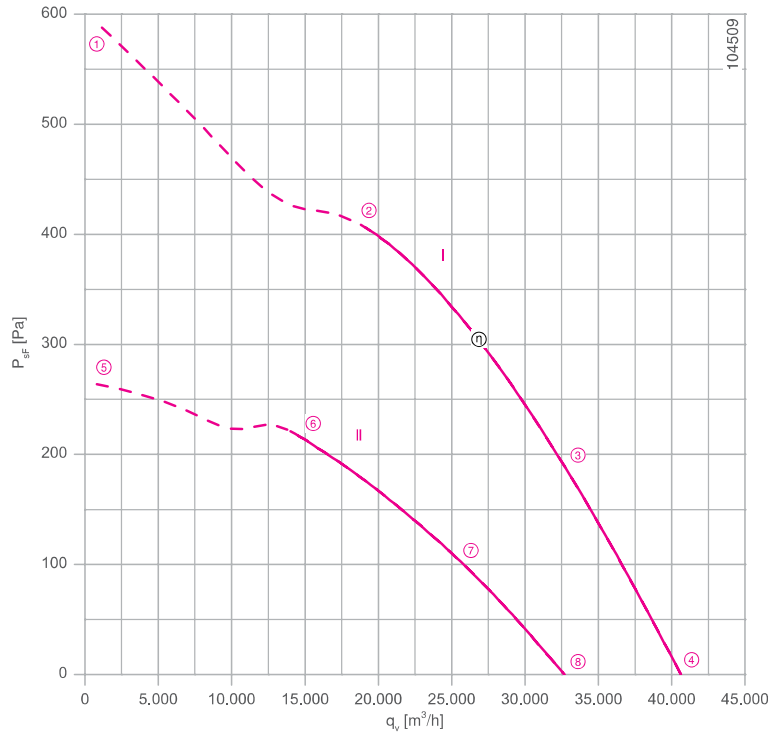
ZN091-VD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) $\pm 10\%$ *
 Rated frequency f_N : 5 Hz*
 Input power P_i : 5.40/3.20 kW*
 Rated current I_N : 9.00/5.20 A*
 Rated speed n_N : 1230/ 900 min^{-1} *
 Starting current I_s : 32.00 / 10.00 A
 Current increase ΔI : 0 %
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{R(\text{min})}$: -40 °C
 Max. permitted ambient temperature $t_{R(\text{max})}$: 40 °C
 Electrical connection: Terminal box
 Number of blades: 5
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency $\eta_{\text{stat}A}$: 45.7 %
 Efficiency: $N_{\text{actual}} = 47.6 / N_{\text{target}} = 40^{**}$
 * Rated data
 **ErP 2015

Characteristic curve



Measured in ZPlus without guard grille in installation type A according to ISO 5801

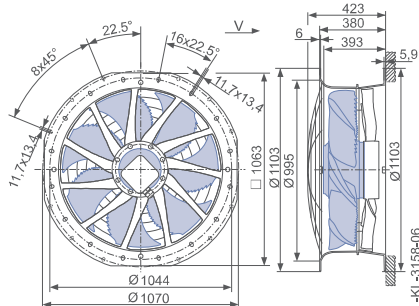
Connection diagram Page 531
1360-108XA

System components Page 430

Dimensions mm

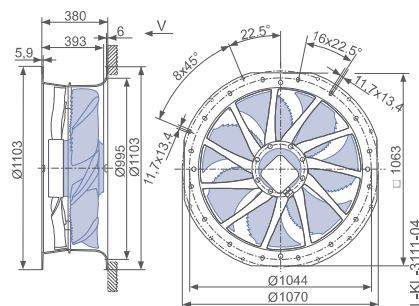
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

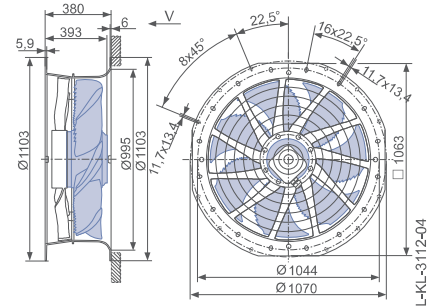


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)	Maximum ambient temperature t_{R} °C
			U V						
ZN091-VD_7Q_5P1	Δ	I	400	①	12.00	7400	1100		40
			400*	②	9.00*	5400*	1230*	97	
			400	③	7.80	4600	1280	88	
			400	④	6.40	3700	1330	91	
	Y	II	400	⑤	6.00	3700	740		40
			400*	⑥	5.20*	3200*	900*	88	
			400	⑦	4.80	2900	980	80	
			400	⑧	4.00	2500	1070	84	

*rated data

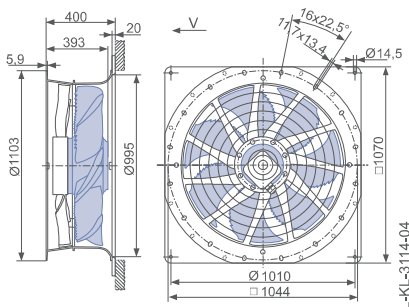
Fan ordering information

	Airflow direction		Airflow direction		
Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type	ZN091-VDL.7Q.V5P1	ZN091-VDL.7Q.V5P1	ZN091-VDL.7Q.V5P1	ZN091-VDQ.7Q.V5P1	ZN091-VDH.7Q.V5P1
Article no.	169901	165077	165078	165083	165087
Weight kg	60.00	56.40	58.30	62.20	58.30
	ZAplus attachable on both sides.				

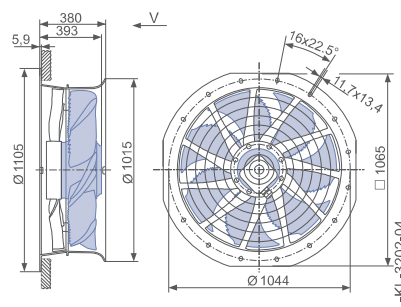
Control technology

Frequency inverters Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
Page 480	Page 518	Page 506

Design Q - ZAplus with adapter plate, guard grille pressure side



Design H - ZAplus Flattop, guard grille pressure side



FE2owlet mit ZPlus

für Dreiphasen-Wechselstrom, 6-6-polig

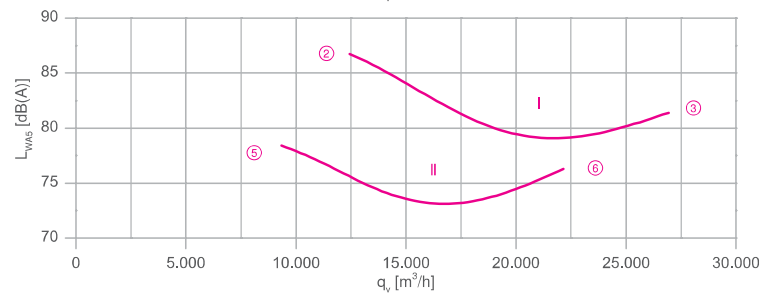
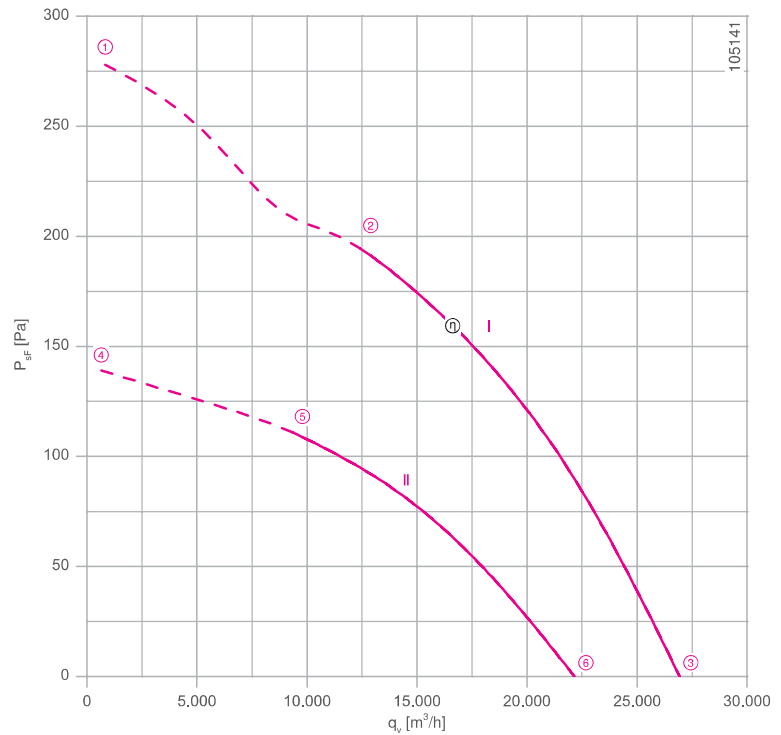
ZN091-SD



Beschreibung

Motortechnologie: AC
 Bemessungsspannung U_N : 3~ 400 V (Δ/Y) ± 10 %*
 Bemessungsfrequenz f_N : 50 Hz* (60Hz Daten verfügbar)
 Aufnahmeleistung P_1 : 1,85/1,05 kW*
 Bemessungsstrom I_N : 3,80/1,90 A*
 Bemessungsdrehzahl n_N : 850/ 640 min^{-1} *
 Anlaufstrom I_A : 11,00 / 3,40 A
 Stromerhöhung ΔI : 0 %
 Thermische Klasse: **THCL155***
 Min. zulässige Fördermitteltemperatur $t_{R(\text{min})}$: -40 °C
 Max. zulässige Fördermitteltemperatur $t_{R(\text{max})}$: 65 °C
 Elektrischer Anschluss: Klemmenkasten
 Flügelanzahl: 7
 Schutzart: IP54
 Motorschutz: Thermostatschalter
 Flügel: Aluminium, unlackiert
 Rotor: Aluminium, unlackiert
 Konformität: ErP 2015, CE
ErP-Daten
 Wirkungsgrad η_{statA} : 44,7 %
 Effizienzgrad: $N_{\text{isi}} = 49,6 / N_{\text{scil}} = 40$ **
 * Leistungsschilddaten
 **ErP 2015

Kennlinie



Gemessen in ZPlus ohne Berührschutz in Einbautart A nach ISO 5801

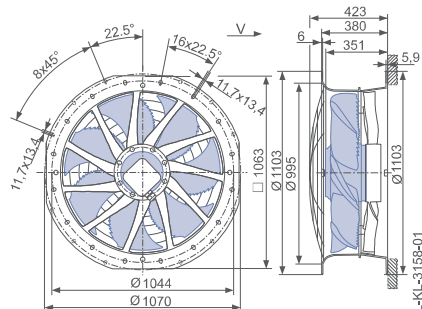
Anschluss Schaltbild Seite 531
1360-108XA

Systemkomponenten Seite 430

Abmessungen mm

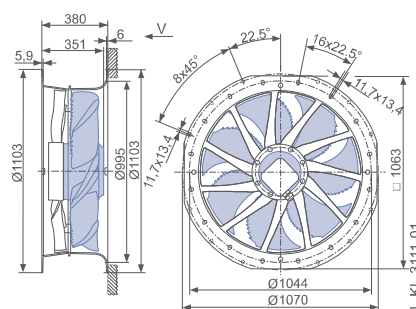
Luftförderrichtung

Bauform L - ZPlus Ontop, saugseitiger Berührschutz

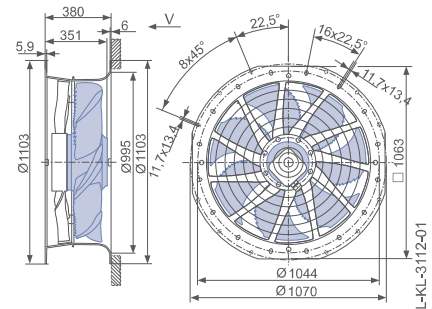


Luftförderrichtung

Bauform L - ZPlus Ontop, ohne Berührschutz



Bauform L - ZPlus Ontop, druckseitiger Berührschutz



Leistungsdaten

Typbezeichnung	Schaltung	Kennlinie	Spannung	Betriebspunkt	Strom	Aufnahmeleistung	Drehzahl	Schalleis- tungspegel saugseitig
			U V		I A	P ₁ W	n min ⁻¹	L _{WA5} dB(A)
ZN091-SD_6N.V7P2	Δ	I	400	①	4,40	2300	790	
			400*	②	3,80*	1750*	840*	87
			400	③	3,10	1200	910	81
	Y	II	400	④	2,10	1200	550	
			400*	⑤	1,85*	1050*	640*	78
			400	⑥	1,50	800	750	76

*Leistungsschilddaten

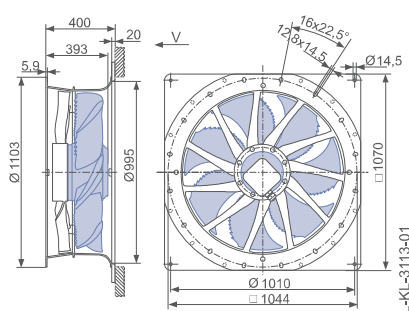
Bestellinformationen Ventilator

Bauform	L (saugseitiger Berühr- schutz) Ontop	L (ohne Berührschutz) Ontop	L (druckseitiger Berühr- schutz) Ontop	Q (ohne Berührschutz)	Q (druckseitiger Be- rührschutz)	H (druckseitiger Berühr- schutz) Flattop
Typ	ZN091-SDL.6N.V7P2	ZN091-SDL.6N.V7P2	ZN091-SDL.6N.V7P2	ZN091-SDQ.6N.V7P2	ZN091-SDQ.6N.V7P2	ZN091-SDH.6N.V7P2
Artikel-Nr.	167289	165044	165045	165049	165050	165054
Gewicht kg	44,50	40,90	42,80	44,40	46,30	42,50
ZAPlus beidseitig montierbar.						

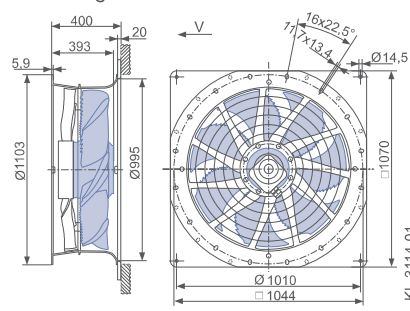
Regeltechnik

<p>Frequenzrichter Fcontrol 3~</p>  <p>Seite 480</p>	<p>Motorschutzgeräte 3~</p>  <p>Seite 518</p>	<p>Elektronische Span- nungsregelgeräte 3~</p>  <p>Seite 506</p>
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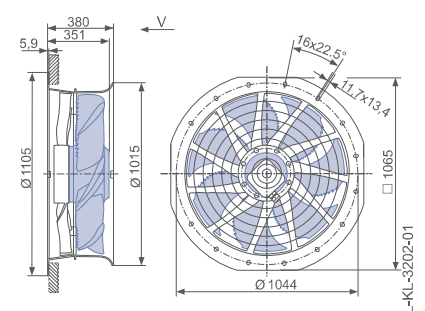
Bauform Q - ZAPlus mit Adapterplatte, ohne Berührschutz



Bauform Q - ZAPlus mit Adapterplatte, druckseitiger Berührschutz



Bauform H - ZAPlus Flattop, druckseitiger Berührschutz



FE2owlet mit ZPlus

für Dreiphasen-Wechselstrom, 6-6-polig

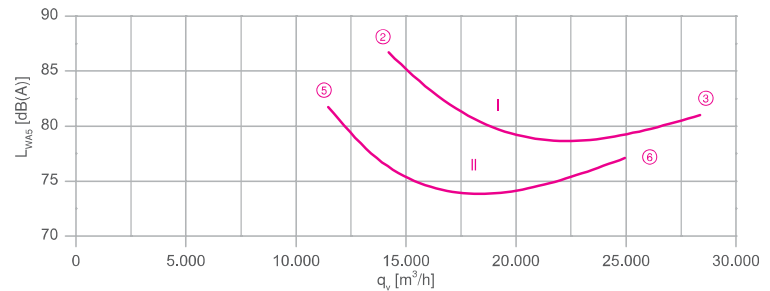
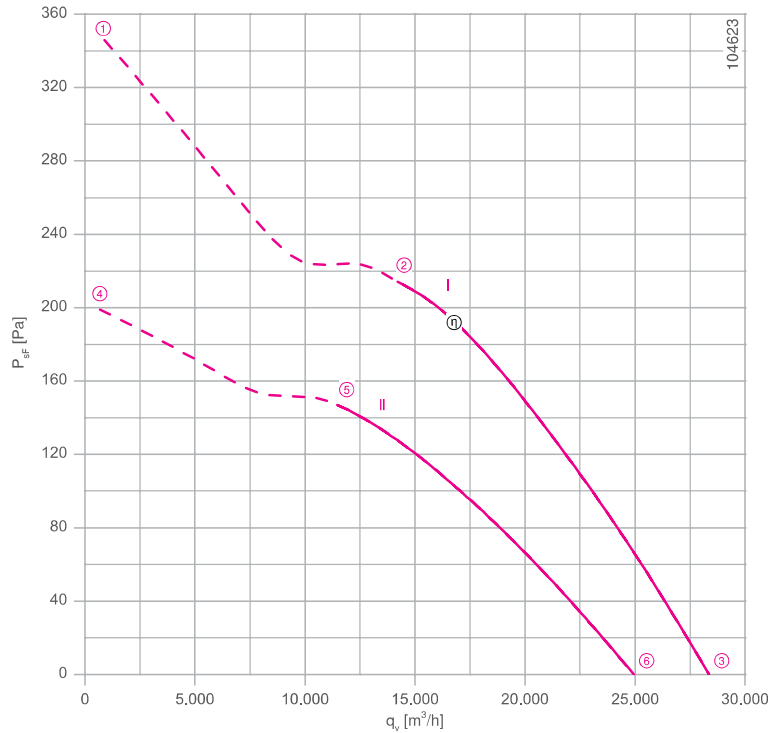
ZN091-SD



Beschreibung

Motortechnologie: AC
 Bemessungsspannung U_N : 3~ 400 V (Δ/Y) $\pm 10\%$ *
 Bemessungsfrequenz f_N : 50 Hz* (60Hz Daten verfügbar)
 Aufnahmeleistung P_1 : 1,95/1,30 kW*
 Bemessungsstrom I_N : 4,20/2,30 A*
 Bemessungsdrehzahl n_N : 890/ 730 min^{-1} *
 Anlaufstrom I_A : 17,00 / 5,50 A
 Stromerhöhung ΔI : 0 %
 Thermische Klasse: **THCL155***
 Min. zulässige Fördermitteltemperatur $t_{R(\text{min})}$: -40 °C
 Max. zulässige Fördermitteltemperatur $t_{R(\text{max})}$: 70 °C
 Elektrischer Anschluss: Klemmenkasten
 Flügelanzahl: 5
 Schutzart: IP54
 Motorschutz: Thermostatschalter
 Flügel: Aluminium, unlackiert
 Rotor: Aluminium, unlackiert
 Konformität: ErP 2015, CE
ErP-Daten
 Wirkungsgrad η_{statA} : 49,3 %
 Effizienzgrad: $N_{\text{isi}} = 53,9 / N_{\text{scil}} = 40^{**}$
 * Leistungsschilddaten
 **ErP 2015

Kennlinie



Gemessen in ZPlus ohne Berührschutz in Einbautart A nach ISO 5801

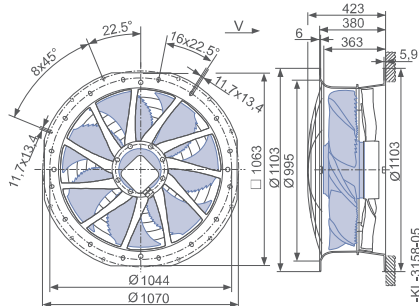
Anschluss Schaltbild Seite 531
1360-108XA

Systemkomponenten Seite 430

Abmessungen mm

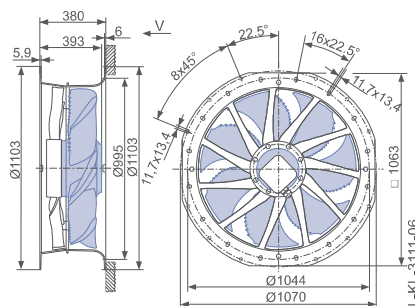
Luftförderrichtung

Bauform L - ZPlus Ontop, saugseitiger Berührschutz

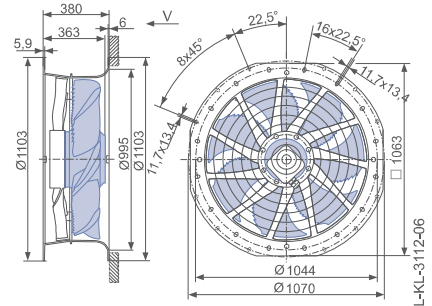


Luftförderrichtung

Bauform L - ZPlus Ontop, ohne Berührschutz



Bauform L - ZPlus Ontop, druckseitiger Berührschutz



Leistungsdaten

Typbezeichnung	Schaltung	Kennlinie	Spannung	Betriebspunkt	Strom	Aufnahmeleistung	Drehzahl	Schalleis- tungspegel saugseitig
			U V		I A	P_1 W	n min ⁻¹	L_{WA5} dB(A)
ZN091-SD_7M.V5P1	Δ	I	400	①	5,40	2800	830	
			400*	②	4,20*	1950*	890*	87
			400	③	3,60	1300	930	81
	Y	II	400	④	2,90	1700	630	
			400*	⑤	2,30*	1300*	730*	82
			400	⑥	1,75	980	820	77

*Leistungsschilddaten

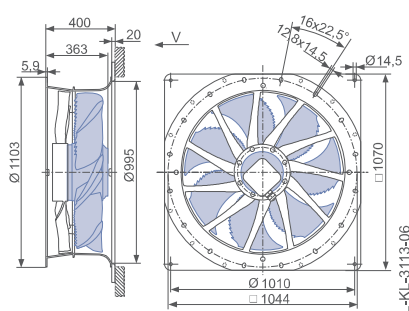
Bestellinformationen Ventilator

Bauform	Luftförderrichtung		Luftförderrichtung			
	L (saugseitiger Berühr- schutz) Ontop	L (ohne Berührschutz) Ontop	L (druckseitiger Berühr- schutz) Ontop	Q (ohne Berührschutz)	Q (druckseitiger Be- rührschutz)	H (druckseitiger Berühr- schutz) Flattop
Typ	ZN091-SDL.7M.V5P1	ZN091-SDL.7M.V5P1	ZN091-SDL.7M.V5P1	ZN091-SDQ.7M.V5P1	ZN091-SDQ.7M.V5P1	ZN091-SDH.7M.V5P1
Artikel-Nr.	167293	165099	165100	165104	165105	165109
Gewicht kg	53,70	50,10	52,00	54,00	55,90	52,00
ZAPLUS beidseitig montierbar.						

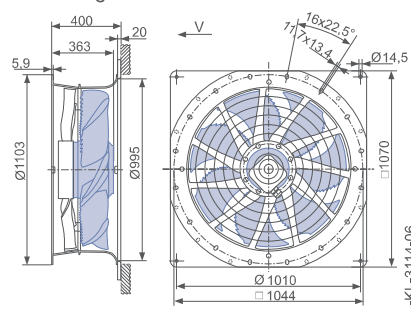
Regeltechnik

<p>Frequenzrichter Fcontrol 3~</p> <p>Seite 480</p>	<p>Motorschutzgeräte 3~</p> <p>Seite 518</p>	<p>Elektronische Span- nungsregelgeräte 3~</p> <p>Seite 506</p>
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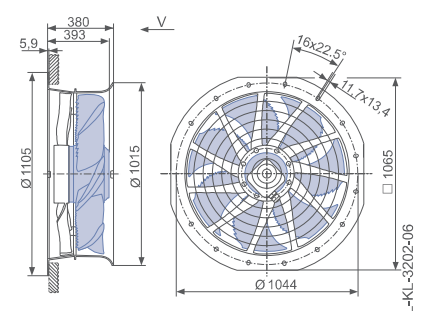
Bauform Q - ZAPLUS mit Adapterplatte, ohne Berührschutz



Bauform Q - ZAPLUS mit Adapterplatte, druckseitiger Berührschutz



Bauform H - ZAPLUS Flattop, druckseitiger Berührschutz



FE2owlet mit ZPlus

für Dreiphasen-Wechselstrom, 8-8-polig

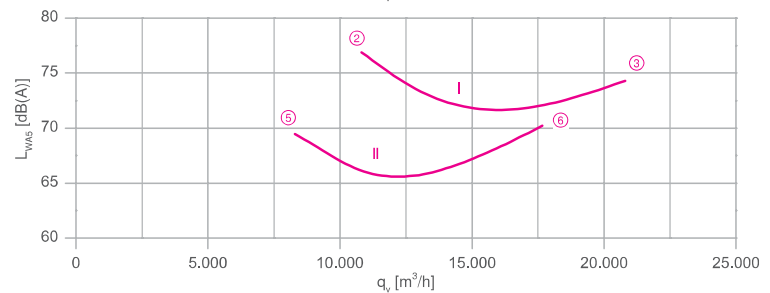
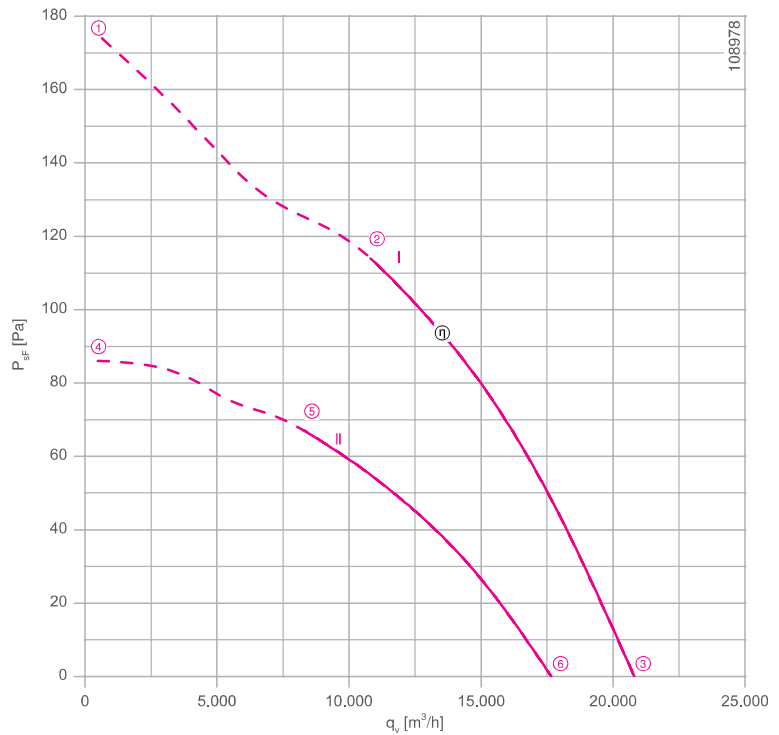
ZN091-AD



Beschreibung

Motortechnologie: AC
 Bemessungsspannung U_N : 3~ 400 V (Δ/Y) $\pm 10\%$ *
 Bemessungsfrequenz f_N : 50 Hz* (60Hz Daten verfügbar)
 Aufnahmeleistung P_1 : 0,90/0,54 kW*
 Bemessungsstrom I_N : 2,20/1,10 A*
 Bemessungsdrehzahl n_N : 660/ 500 min^{-1} *
 Anlaufstrom I_A : 5,50 / 1,60 A
 Stromerhöhung ΔI : 0 %
 Thermische Klasse: **THCL155***
 Min. zulässige Fördermitteltemperatur $t_{R(\text{min})}$: -40 °C
 Max. zulässige Fördermitteltemperatur $t_{R(\text{max})}$: 70 °C
 Elektrischer Anschluss: Klemmenkasten
 Flügelanzahl: 7
 Schutzart: IP54
 Motorschutz: Thermostatschalter
 Flügel: Aluminium, unlackiert
 Rotor: Aluminium, unlackiert
 Konformität: ErP 2015, CE
ErP-Daten
 Wirkungsgrad η_{statA} : 43,4 %
 Effizienzgrad: $N_{\text{isi}} = 50,1 / N_{\text{scoll}} = 40^{**}$
 * Leistungsschilddaten
 **ErP 2015

Kennlinie



Gemessen in ZPlus ohne Berührschutz in Einbautart A nach ISO 5801

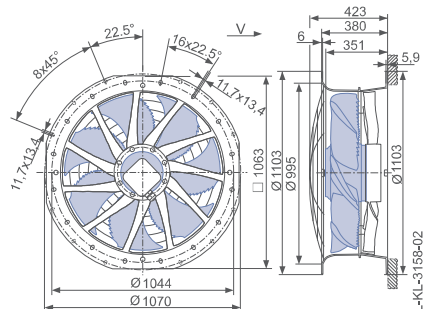
Anschluss Schaltbild Seite 531
1360-108XA

Systemkomponenten Seite 430

Abmessungen mm

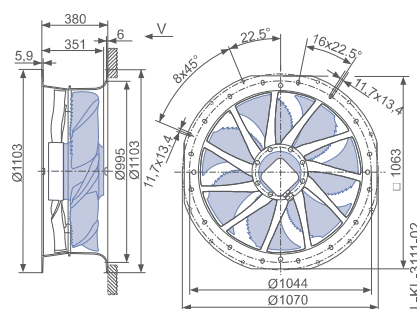
Luftförderrichtung

Bauform L - ZPlus Ontop, saugseitiger Berührschutz

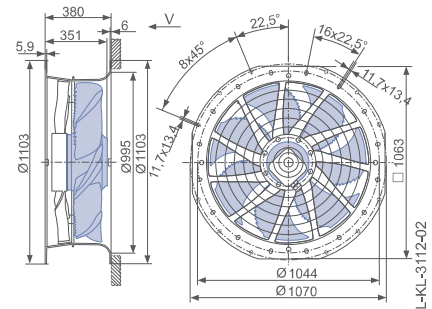


Luftförderrichtung

Bauform L - ZPlus Ontop, ohne Berührschutz



Bauform L - ZPlus Ontop, druckseitiger Berührschutz



Leistungsdaten

Typbezeichnung	Schaltung	Kennlinie	Spannung	Betriebspunkt	Strom	Aufnahmeleistung	Drehzahl	Schalleis- tungspegel saugseitig
			U V		I A	P_1 W	n min ⁻¹	L_{WA5} dB(A)
ZN091-AD_6N_7P2	Δ	I	400	①	2,50	1150	610	
			400*	②	2,10*	880*	660*	77
			400	③	1,80	600	700	74
	Y	II	400	④	1,25	620	430	
			400*	⑤	1,10*	540*	510*	69
			400	⑥	0,88	420	600	70

*Leistungsschilddaten

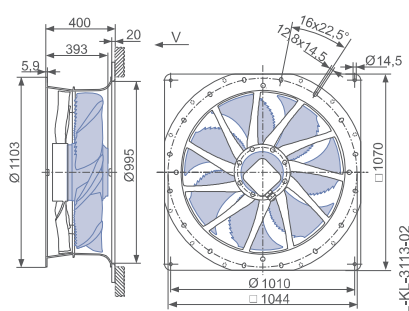
Bestellinformationen Ventilator

Bauform	Luftförderrichtung		Luftförderrichtung			
	L (saugseitiger Berühr- schutz) Ontop	L (ohne Berührschutz) Ontop	L (druckseitiger Berühr- schutz) Ontop	Q (ohne Berührschutz)	Q (druckseitiger Be- rührschutz)	H (druckseitiger Berühr- schutz) Flattop
Typ	ZN091-ADL.6N.V7P2	ZN091-ADL.6N.V7P2	ZN091-ADL.6N.V7P2	ZN091-ADQ.6N.V7P2	ZN091-ADQ.6N.V7P2	ZN091-ADH.6N.V7P2
Artikel-Nr.	167290	165055	165056	165060	165061	165065
Gewicht kg	44,50	40,90	42,80	44,40	46,30	42,50
ZAPlus beidseitig montierbar.						

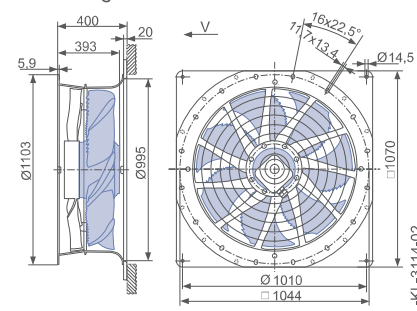
Regeltechnik

<p>Frequenzumrichter Fcontrol 3~</p> <p>Seite 480</p>	<p>Motorschutzgeräte 3~</p> <p>Seite 518</p>	<p>Elektronische Span- nungsregelgeräte 3~</p> <p>Seite 506</p>
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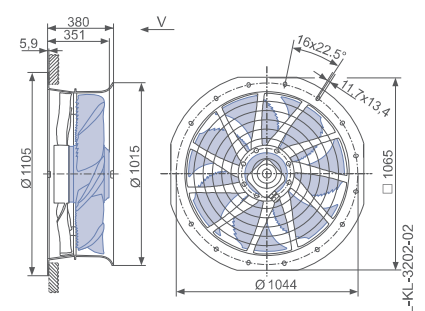
Bauform Q - ZAPlus mit Adapterplatte, ohne Berührschutz



Bauform Q - ZAPlus mit Adapterplatte, druckseitiger Berührschutz



Bauform H - ZAPlus Flattop, druckseitiger Berührschutz



FE2owlet mit ZPlus

für Dreiphasen-Wechselstrom, 12-12-polig

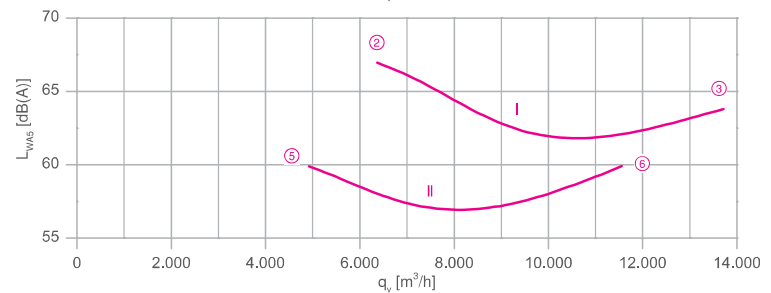
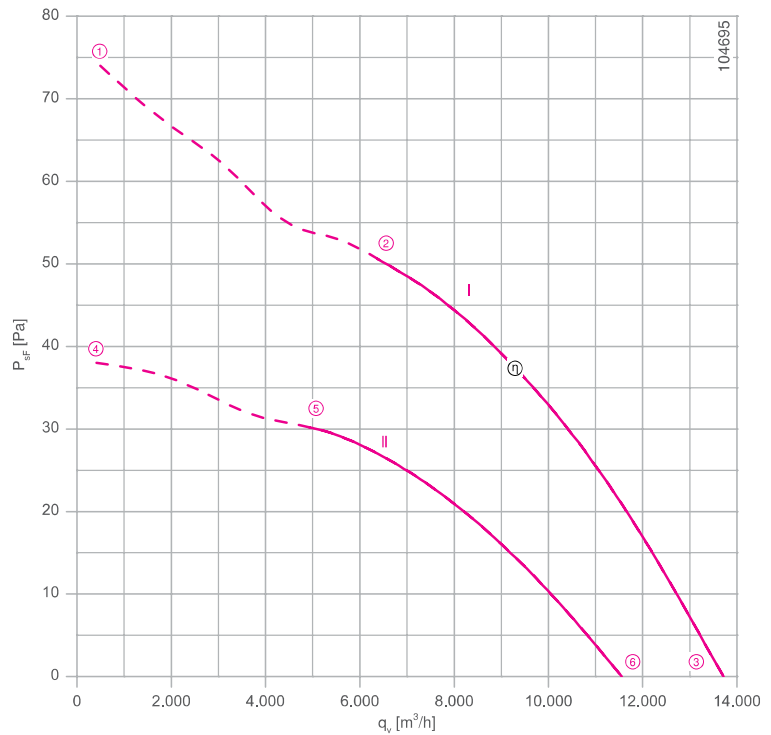
ZN091-ND



Beschreibung

Motortechnologie: AC
 Bemessungsspannung U_N : 3~ 400 V (Δ/Y) $\pm 10\%$
 Bemessungsfrequenz f_N : 50 Hz* (60Hz Daten verfügbar)
 Aufnahmeleistung P_1 : 300/180 W*
 Bemessungsstrom I_N : 0,76/0,37 A*
 Bemessungsdrehzahl n_N : 430/ 330 min⁻¹*
 Stromerhöhung ΔI : 0 %
 Thermische Klasse: THCL155*
 Min. zulässige Fördermitteltemperatur $t_{R(min)}$: -40 °C
 Max. zulässige Fördermitteltemperatur $t_{R(max)}$: 70 °C
 Elektrischer Anschluss: Klemmenkasten
 Flügelanzahl: 7
 Schutzart: IP54
 Motorschutz: Thermostatschalter
 Flügel: Aluminium, unlackiert
 Rotor: Aluminium, unlackiert
 Konformität: ErP 2015, CE
ErP-Daten
 Wirkungsgrad η_{statA} : 34,9 %
 Effizienzgrad: $N_{ist} = 44,7 / N_{soll} = 40^{**}$
 * Leistungsschilddaten
 **ErP 2015

Kennlinie



Gemessen in ZPlus ohne Berührschutz in Einbautart A nach ISO 5801

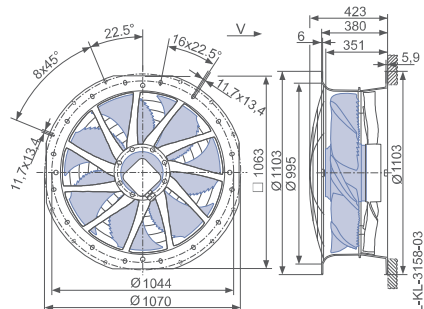
Anschluss Schaltbild Seite 531
1360-108XA

Systemkomponenten Seite 430

Abmessungen mm

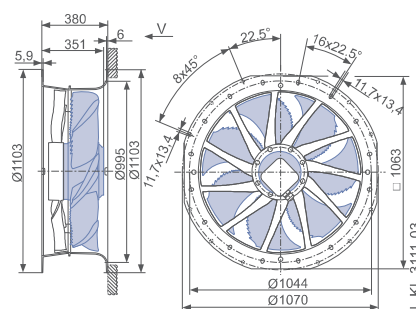
Luftförderrichtung

Bauform L - ZPlus Ontop, saugseitiger Berührschutz



Luftförderrichtung

Bauform L - ZPlus Ontop, ohne Berührschutz



Bauform L - ZPlus Ontop, druckseitiger Berührschutz

