

FE2owlet-ECblue with ZPlus

for single phase alternating current, 200-277 V

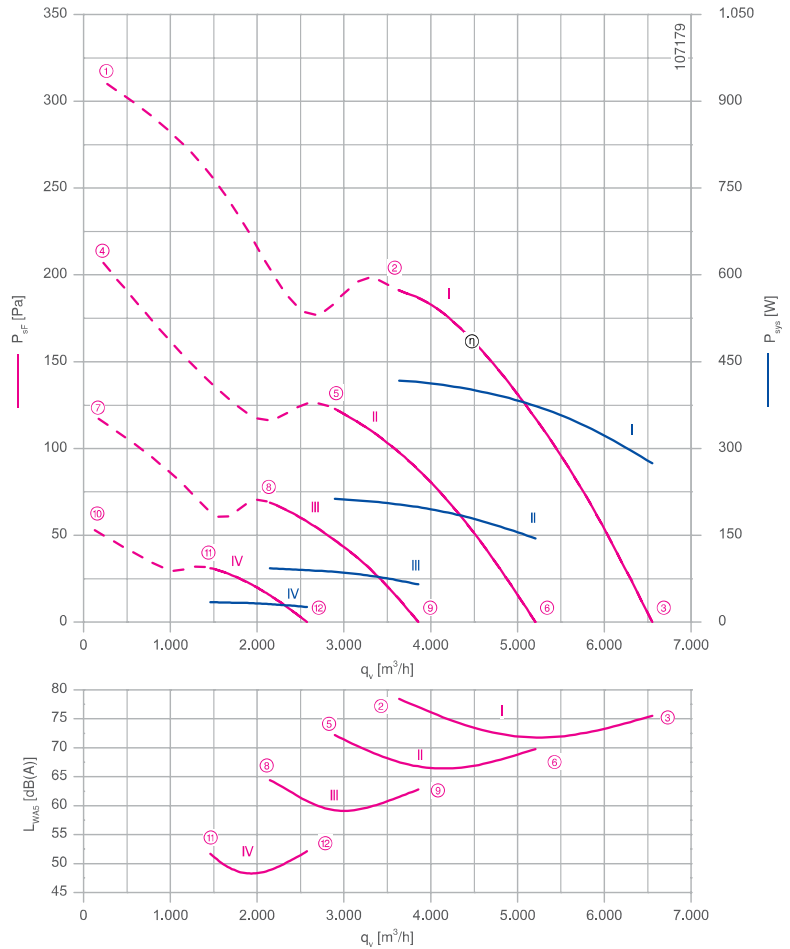
ZN045



Description

Motor technology: EC
 Rated voltage U_N : 1~ 200-277 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 420 W*
 Rated current I_N : 2.10- 1.50 A*
 Rated speed n_N : 1470 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 60 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: High Performance Composite Material, uncoated, black
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 57.1 %
 Efficiency: $N_{actual} = 65.9 / N_{target} = 40$ **
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

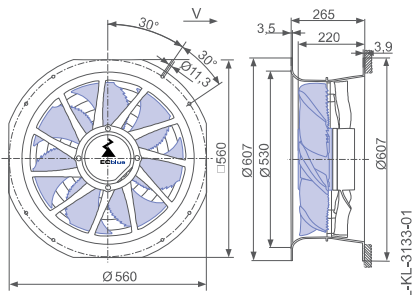
Connection diagram Page 529
1360-384

System components Page 430

Dimensions mm

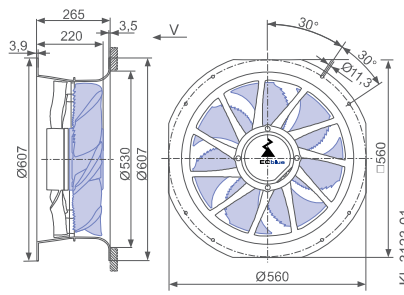
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

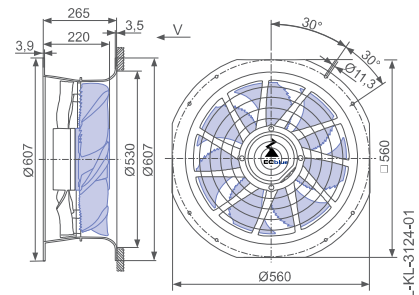


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level L_{WA5} dB(A)
		n min ⁻¹		I A	P_{sys} W	
ZN045-6L_BD_7P2	I	1470	①	2.50	580	
			②	1.80	420	79
			③	1.20	270	76
	II	1180	④	1.35	310	
			⑤	0.94	210	72
			⑥	0.64	140	70
	III	880	⑦	0.58	130	
			⑧	0.44	95	64
			⑨	0.32	65	63
	IV	590	⑩	0.24	46	
			⑪	0.20	34	52
			⑫	0.17	26	52

Current values determined at 230V

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	ZN045-6L.BD.V7P2	ZN045-6IL.BD.V7P2	ZN045-6IL.BD.V7P2	ZN045-6IQ.BD.V7P2	ZN045-6IQ.BD.V7P2	ZN045-6IH.BD.V7P2
Article no.	166918	166794	166795	166797	166798	166802
Weight kg	10.50	8.20	8.90	9.00	9.60	8.90
ZAplus attachable on both sides.						

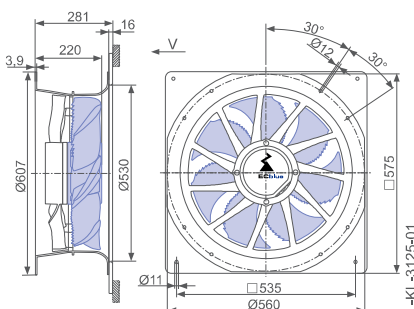
Control technology

Control modules

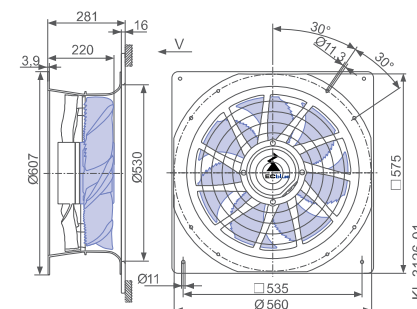


Page 452

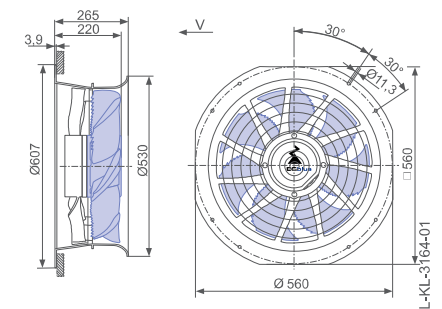
Design Q - ZAplus with adapter plate, without guard grille



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



Design H - ZAplus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for single phase alternating current, 200-277 V

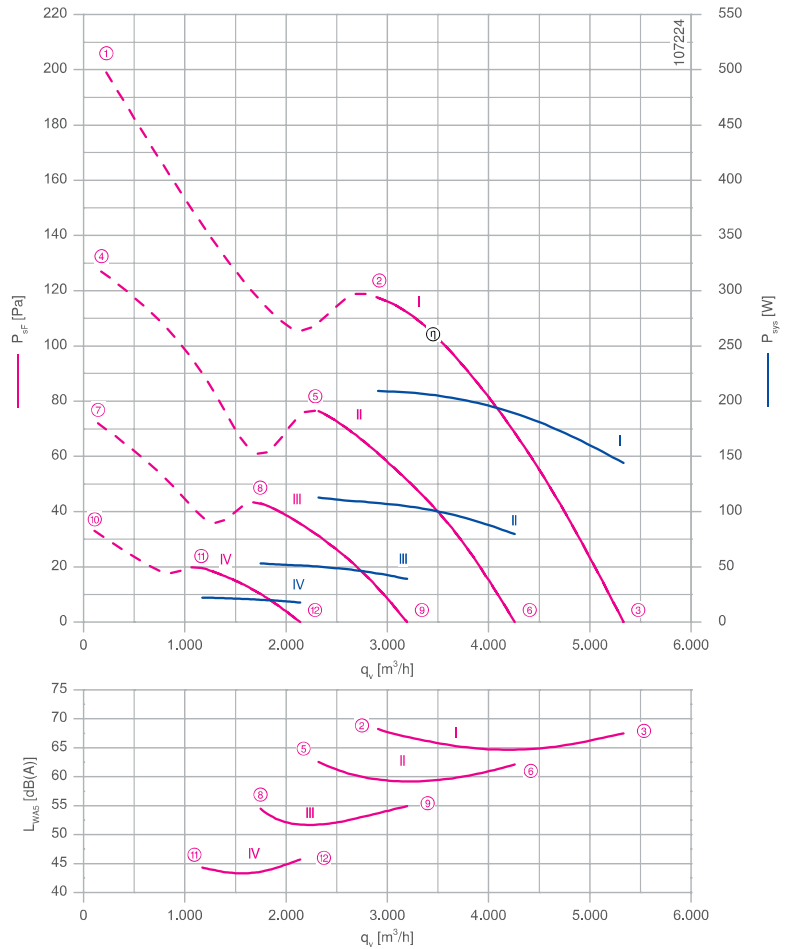
ZN045



Description

Motor technology: EC
 Rated voltage U_N : 1~ 200-277 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 210 W*
 Rated current I_N : 1.05- 0.78 A*
 Rated speed n_N : 1100 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 60 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: High Performance Composite Material, uncoated, black
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 56.6 %
 Efficiency: $N_{actual} = 67.2 / N_{target} = 40$ **
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

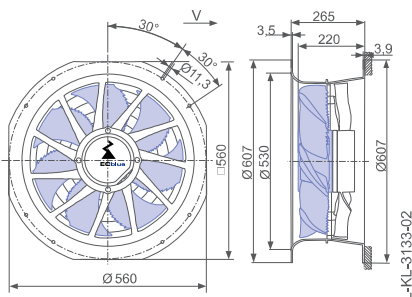
Connection diagram Page 529
1360-384

System components Page 430

Dimensions mm

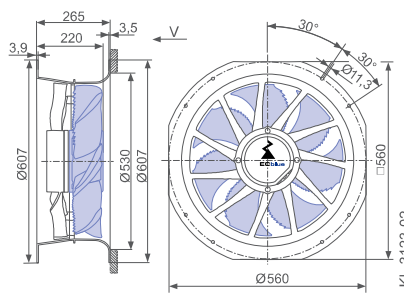
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

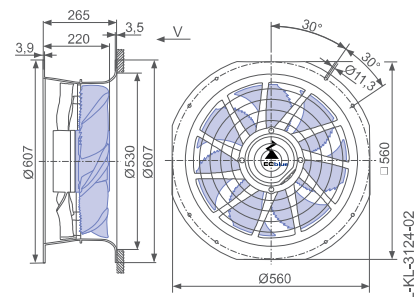


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level L_{WA5} dB(A)
		n min ⁻¹		I A	P_{sys} W	
ZN045-6L_BD_7P3	I	1100	①	1.35	300	
			②	0.92	210	69
			③	0.64	140	68
	II	880	④	0.70	160	
			⑤	0.50	110	63
			⑥	0.38	80	62
	III	660	⑦	0.34	70	
			⑧	0.27	55	55
			⑨	0.22	40	55
	IV	440	⑩	0.18	28	
			⑪	0.16	22	44
			⑫	0.16	18	46

Current values determined at 230V

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	ZN045-6L.BD.V7P3	ZN045-6L.BD.V7P3	ZN045-6L.BD.V7P3	ZN045-6IQ.BD.V7P3	ZN045-6IQ.BD.V7P3	ZN045-6IH.BD.V7P3
Article no.	166919	166812	166813	166815	166816	166820
Weight kg	10.50	8.30	8.90	9.00	9.70	8.70
ZAplus attachable on both sides.						

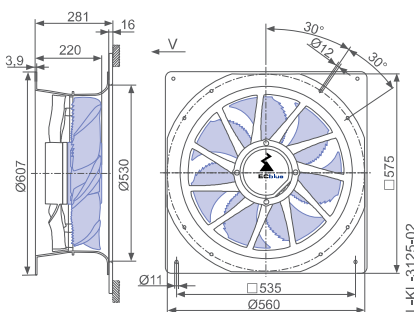
Control technology

Control modules

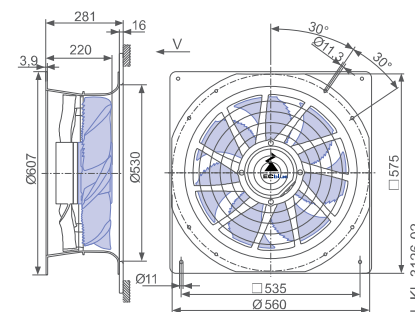


Page 452

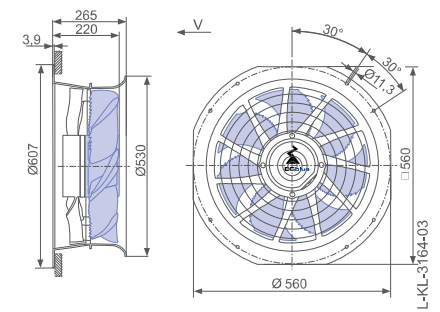
Design Q - ZAplus with adapter plate, without guard grille



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



Design H - ZAplus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for single phase alternating current, 200-277 V

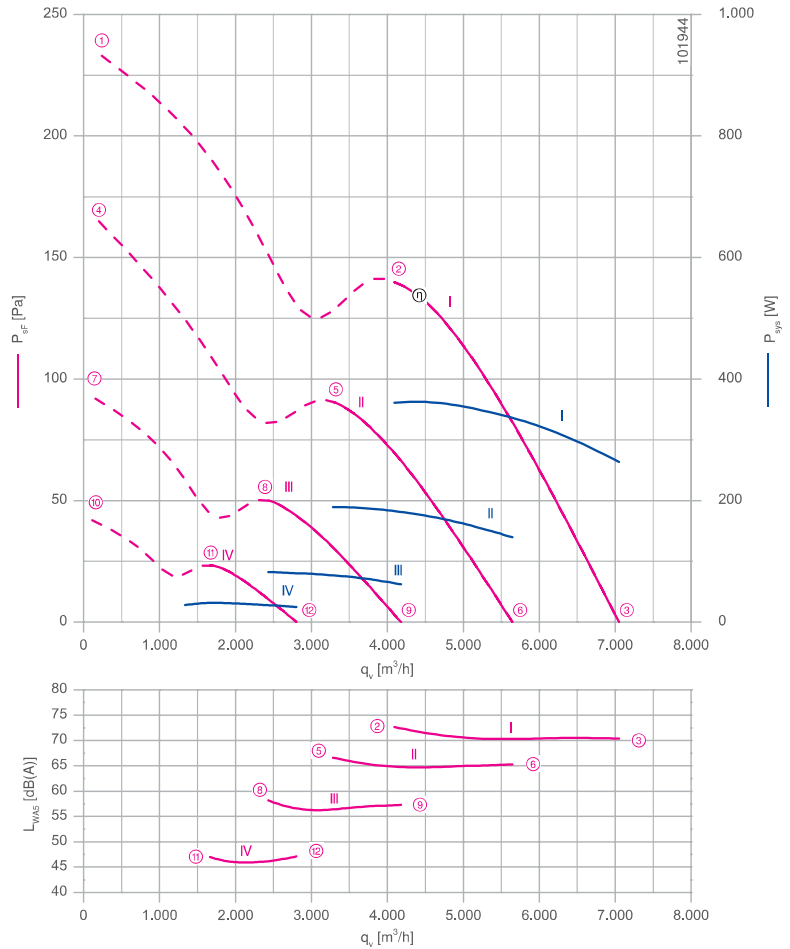
ZN050



Description

Motor technology: EC
 Rated voltage U_N : 1~ 200-277 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 360 W*
 Rated current I_N : 1.85- 1.30 A*
 Rated speed n_N : 1120 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 60 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: High Performance Composite Material, uncoated, black
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 52.0 %
 Efficiency: $N_{actual} = 61.2 / N_{target} = 40$ **
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

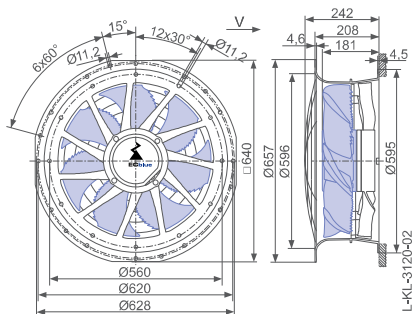
Connection diagram Page 529
1360-384

System components Page 430

Dimensions mm

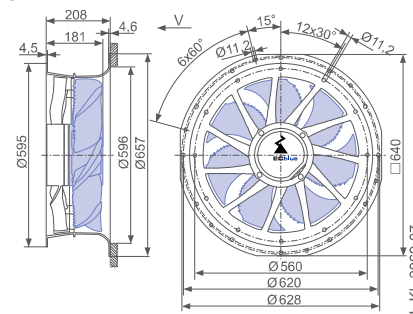
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

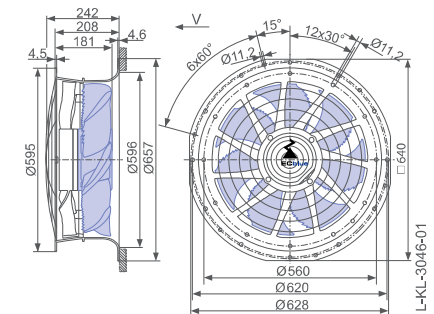


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level L_{WA5} dB(A)
		n min ⁻¹		I A	P_{sys} W	
ZN050-6L_BD.V7P2	I	1120	①	2.10	480	
			②	1.55	360	73
			③	1.15	260	70
	II	900	④	1.20	270	
			⑤	0.84	190	67
			⑥	0.62	140	65
	III	670	⑦	0.52	110	
			⑧	0.38	80	58
			⑨	0.30	60	57
	IV	450	⑩	0.23	40	
			⑪	0.19	30	47
			⑫	0.17	24	47

Current values determined at 230V

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	ZN050-6IL.BD.V7P2	ZN050-6IL.BD.V7P2	ZN050-6IL.BD.V7P2	ZN050-6IQ.BD.V7P2	ZN050-6IH.BD.V7P2
Article no.	165325	162262	162263	162265	162267
Weight kg	12.40	11.00	12.30	13.50	11.50
ZApplus attachable on both sides.					

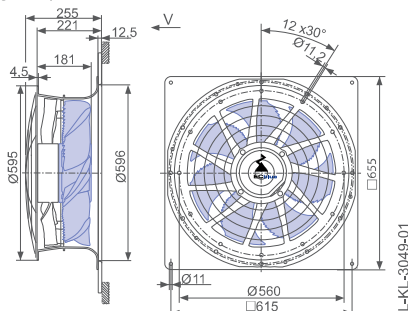
Control technology

Control modules

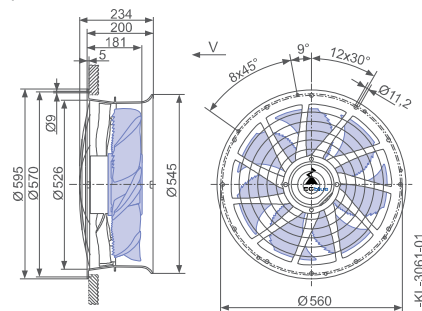


Page 452

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



Design H - ZApplus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for single phase alternating current, 200-277 V

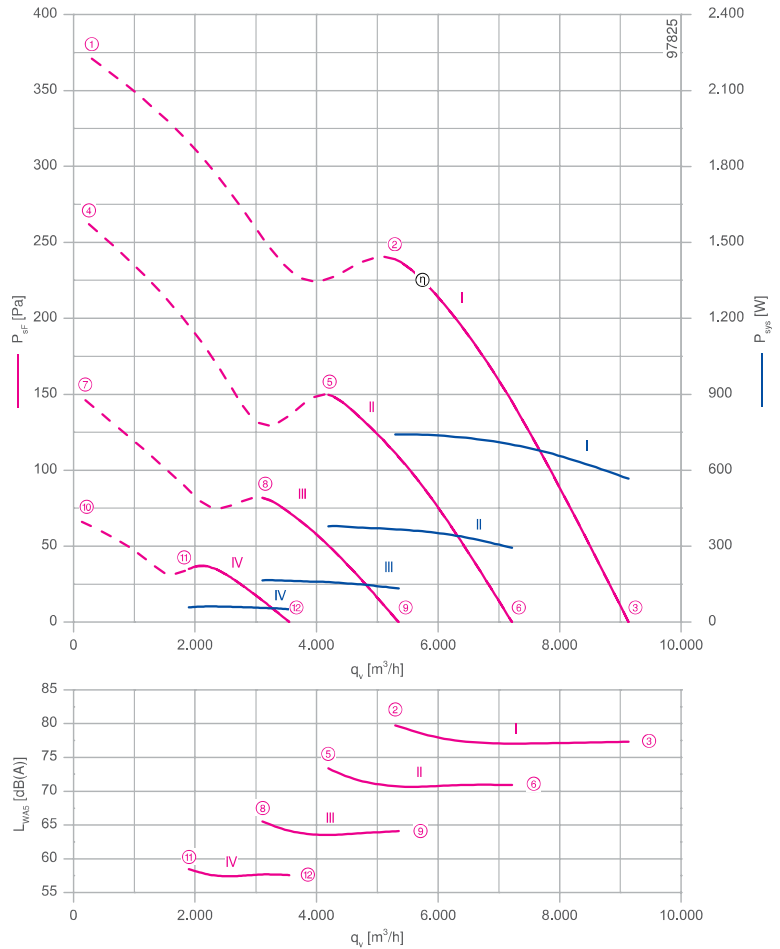
ZN050



Description

Motor technology: EC
 Rated voltage U_N : 1~ 200-277 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 0.74 kW*
 Rated current I_N : 4.00- 2.90 A*
 Rated speed n_N : 1440 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 60 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: High Performance Composite Material, uncoated, black
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 54.5 %
 Efficiency: $N_{actual} = 61.7 / N_{target} = 40$ **
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

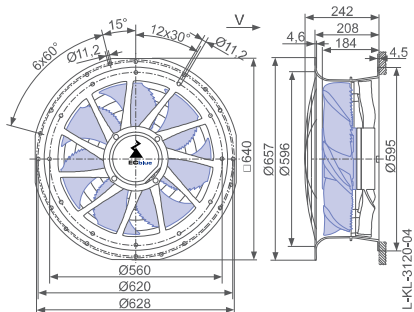
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

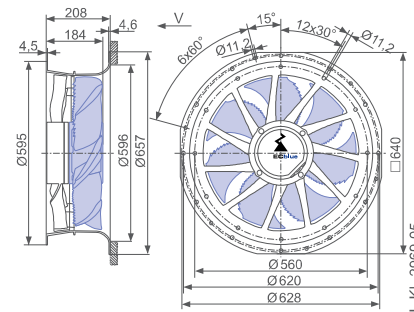
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

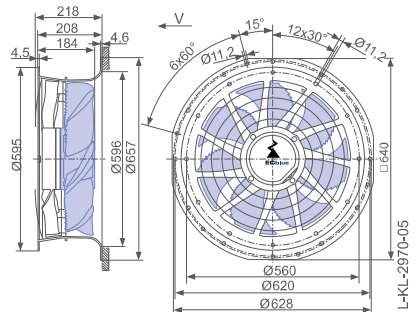


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level L_{WA5} dB(A)
		n min ⁻¹		I A	P_{sys} W	
ZN050-ZI_DC.V7P2	I	1440	①	4.20	880	
			②	3.50	740	80
			③	2.70	560	77
	II	1150	④	2.60	520	
			⑤	1.85	380	73
			⑥	1.40	290	71
	III	860	⑦	1.05	230	
			⑧	0.76	160	66
			⑨	0.64	130	64
	IV	580	⑩	0.42	80	
			⑪	0.37	60	58
			⑫	0.33	50	58

Current values determined at 230V

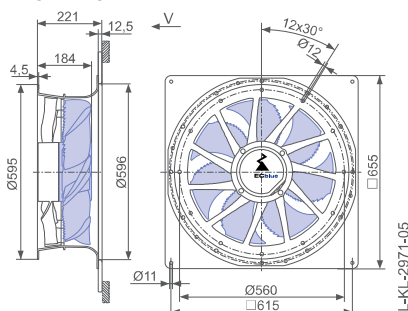
Fan ordering information

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	ZN050-ZIL.DC.V7P2	ZN050-ZIL.DC.V7P2	ZN050-ZIL.DC.V7P2	ZN050-ZIQ.DC.V7P2	ZN050-ZIQ.DC.V7P2	ZN050-ZIH.DC.V7P2
Article no.	169872	161736	161738	161742	161744	161748
Weight kg	13.80	12.50	13.50	13.70	14.70	13.20
ZApplus attachable on both sides.						

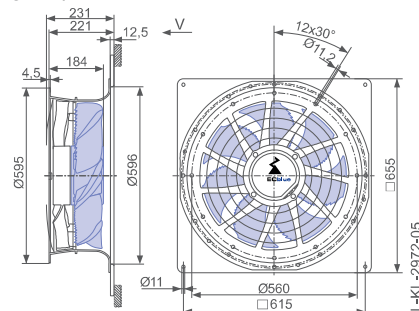
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

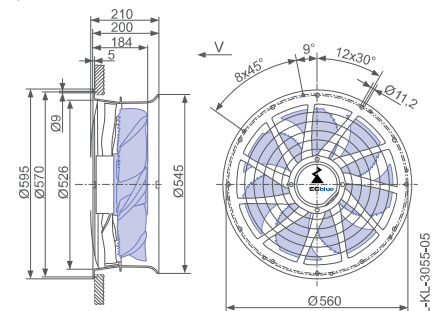
Design Q - ZApplus with adapter plate, without guard grille



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



Design H - ZApplus Flattop, guard grille pressure side



Information

FE2owlet-ECblue

FE2owlet

FE2owlet-ECblue with ZApplus

FE2owlet with ZApplus

System components

Control technology

Appendix

FE2owlet-ECblue with ZPlus

for three phase alternating current, 200-240 V

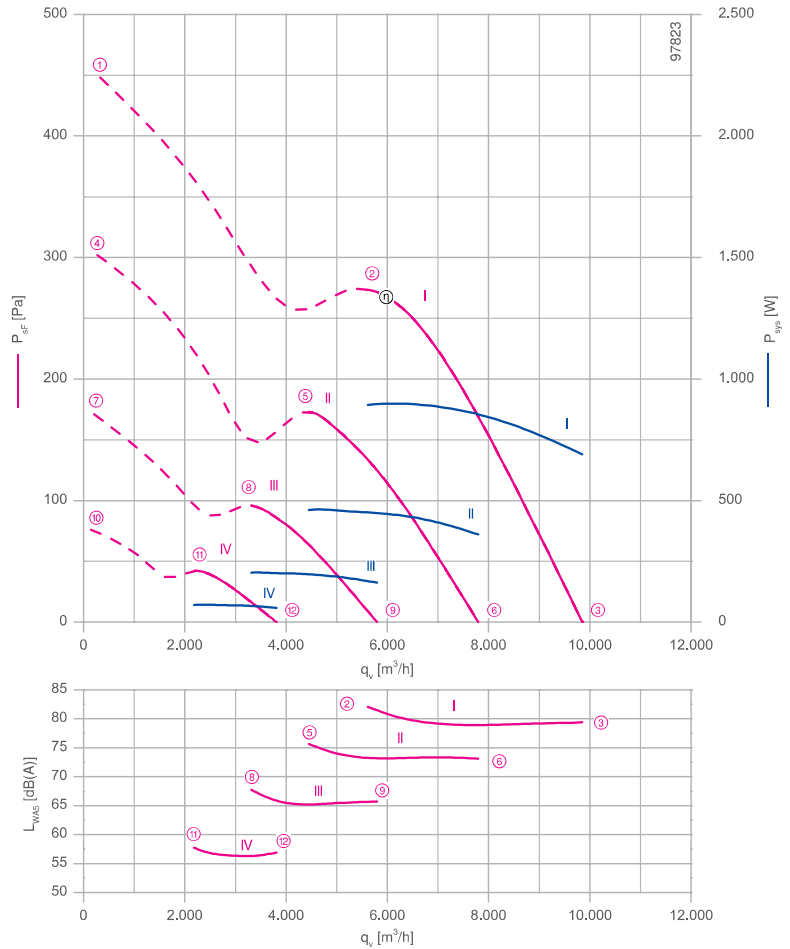
ZN050



Description

Motor technology: EC
 Rated voltage U_N : 3- 200-240 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 0.90 kW*
 Rated current I_N : 2.80- 2.30 A*
 Rated speed n_N : 1550 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 60 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: High Performance Composite Material, uncoated, black
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 55.4 %
 Efficiency: $N_{actual} = 62.0 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

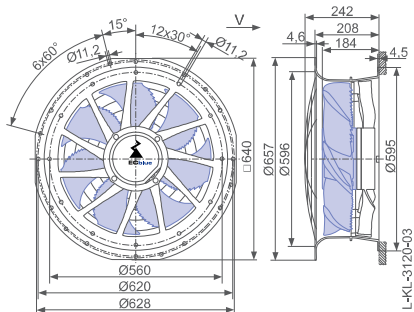
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

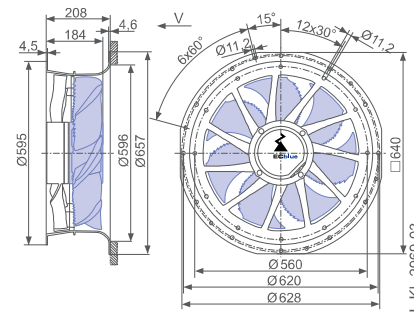
Airflow direction →

Design L - ZPlus Ontop, guard grille suction side

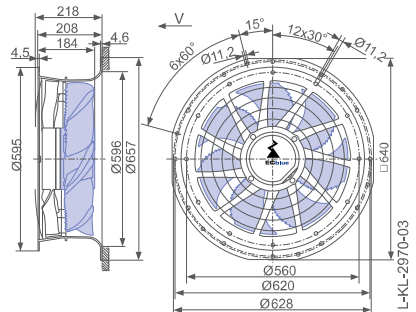


Airflow direction ←

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level L_{WA5} dB(A)
		n min ⁻¹		I A	P_{sys} W	
ZN050-ZI_DC.V7P2	I	1550	①	3.10	1150	
			②	2.40	900	81
			③	1.85	700	79
	II	1240	④	1.75	640	
			⑤	1.25	460	76
			⑥	1.00	360	73
	III	930	⑦	0.82	280	
			⑧	0.64	200	68
			⑨	0.54	160	66
	IV	620	⑩	0.39	95	
			⑪	0.33	70	58
			⑫	0.29	60	57

Current values determined at 230V

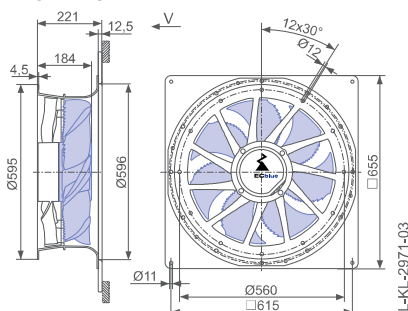
Fan ordering information

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	ZN050-ZIL.DC.V7P2	ZN050-ZIL.DC.V7P2	ZN050-ZIL.DC.V7P2	ZN050-ZIQ.DC.V7P2	ZN050-ZIQ.DC.V7P2	ZN050-ZIH.DC.V7P2
Article no.	169871	161722	161724	161728	161730	161734
Weight kg	13.80	12.50	13.50	13.70	14.70	13.20
ZPlus attachable on both sides.						

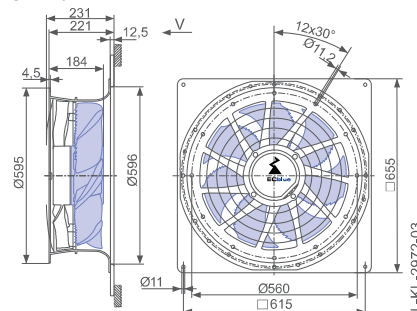
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

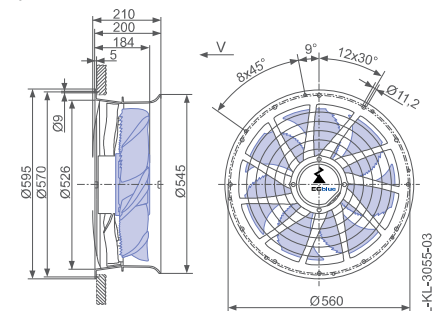
Design Q - ZPlus with adapter plate, without guard grille



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



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 380-480 V

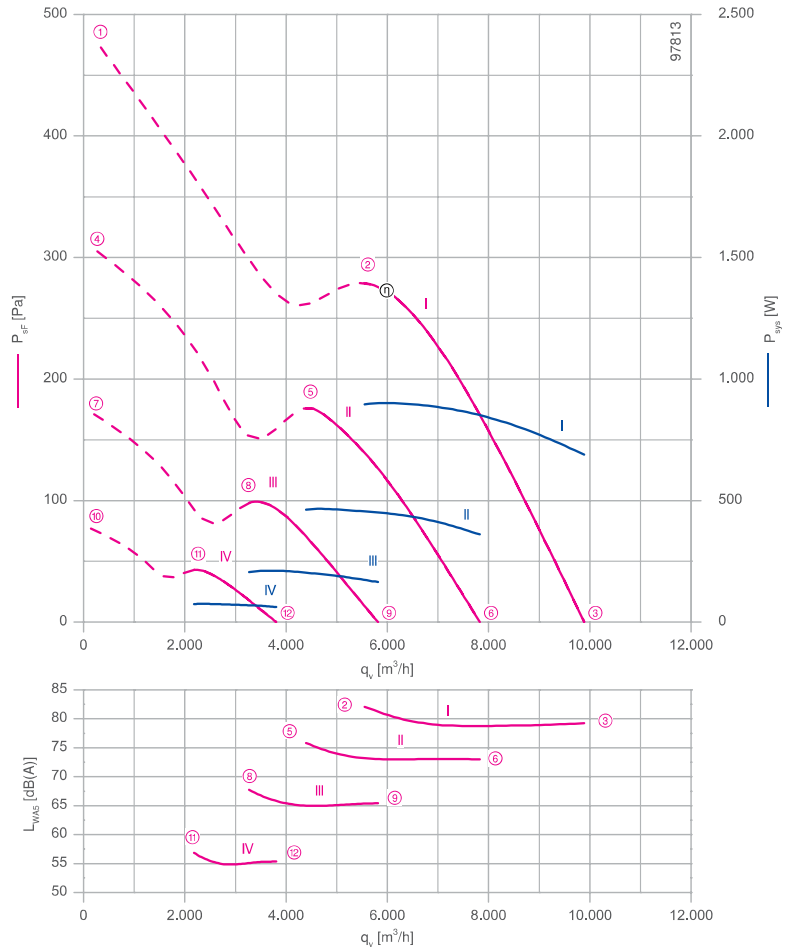
ZN050



Description

Motor technology: EC
 Rated voltage U_N : 3- 380-480 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 0.90 kW*
 Rated current I_N : 1.55- 1.25 A*
 Rated speed n_N : 1550 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 60 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: High Performance Composite Material, uncoated, black
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 56.3 %
 Efficiency: $N_{actual} = 62.9 / N_{target} = 40$ **
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

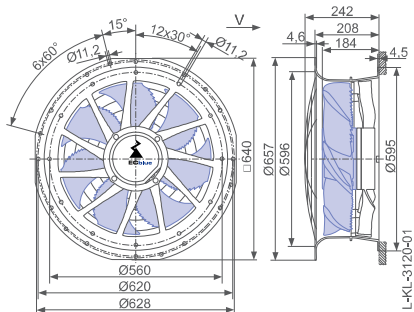
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

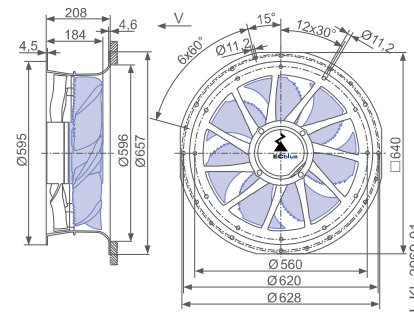
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

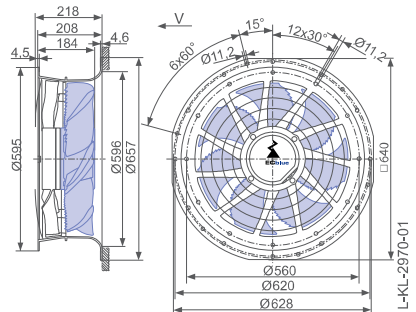


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level L_{WA5} dB(A)
		n min ⁻¹		I A	P_{sys} W	
ZN050-ZI_DC.V7P2	I	1550	①	1.95	1250	
			②	1.45	900	82
			③	1.20	680	79
	II	1240	④	1.15	640	
			⑤	0.90	460	76
			⑥	0.76	360	73
	III	930	⑦	0.64	280	
			⑧	0.54	210	68
			⑨	0.46	160	65
	IV	620	⑩	0.34	95	
			⑪	0.29	75	57
			⑫	0.26	60	55

Current values determined at 400V

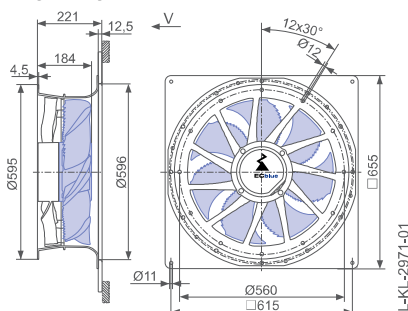
Fan ordering information

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	ZN050-ZIL.DC.V7P2	ZN050-ZIL.DC.V7P2	ZN050-ZIL.DC.V7P2	ZN050-ZIQ.DC.V7P2	ZN050-ZIQ.DC.V7P2	ZN050-ZIH.DC.V7P2
Article no.	165326	161708	161710	161714	161716	161720
Weight kg	13.80	12.50	13.50	13.70	14.70	13.20
ZApplus attachable on both sides.						

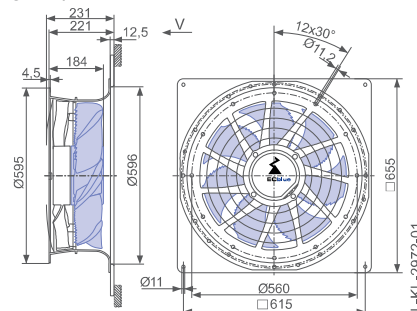
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

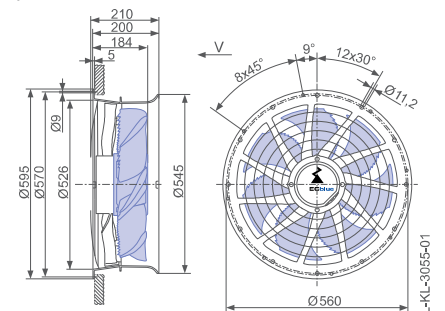
Design Q - ZApplus with adapter plate, without guard grille



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



Design H - ZApplus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for single phase alternating current, 200-277 V

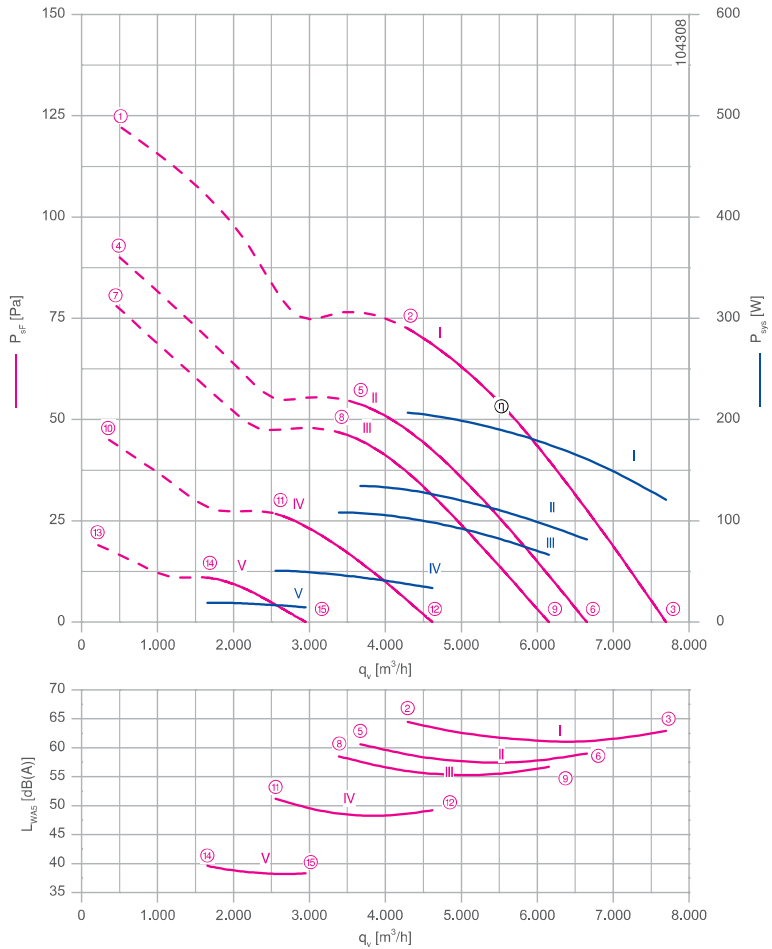
ZN063



Description

Motor technology: EC
 Rated voltage U_N : 1~ 200-277 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 210 W*
 Rated current I_N : 1.05- 0.78 A*
 Rated speed n_N : 660 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 55 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: High Performance Composite Material, uncoated, black
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 51.4 %
 Efficiency: $N_{actual} = 62.4 / N_{target} = 40$ **
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

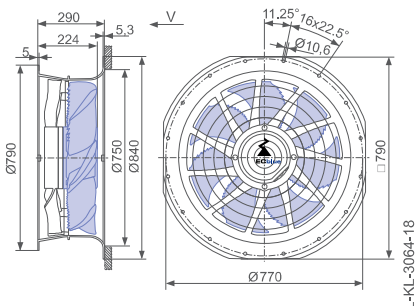
Connection diagram Page 529
1360-384

System components Page 430

Dimensions mm

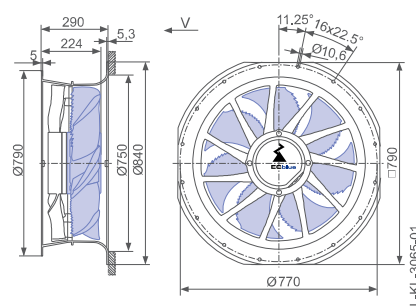
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

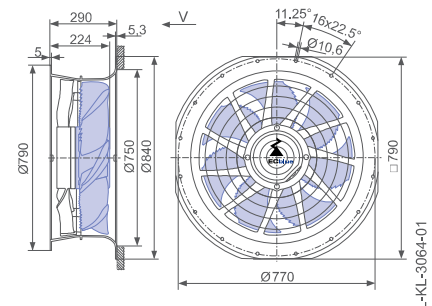


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)	
ZN063-6L_BD.V7P2	I	660	①	1.25	290		55
			②	0.92	210	65	
			③	0.54	120	63	
	II	570	④	0.80	180		60
			⑤	0.60	130	61	
			⑥	0.38	80	59	
	III	530	⑦	0.66	150		
			⑧	0.48	110	59	
			⑨	0.32	65	57	
	IV	400	⑩	0.33	70		
			⑪	0.26	50	51	
			⑫	0.20	34	49	
	V	260	⑬	0.17	24		
			⑭	0.15	19	40	
			⑮	0.14	15	38	

Current values determined at 230V

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 Article no.	ZN063-6L.BD.V7P2 166779	ZN063-6L.BD.V7P2 163303	ZN063-6L.BD.V7P2 163304	ZN063-6IQ.BD.V7P2 163307	ZN063-6IH.BD.V7P2 163311
Weight kg	17.30	15.50	16.50	18.60	16.90
ZApplus attachable on both sides.					

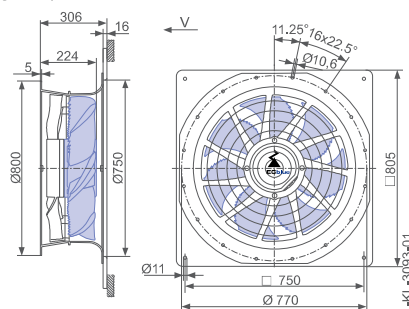
Control technology

Control modules

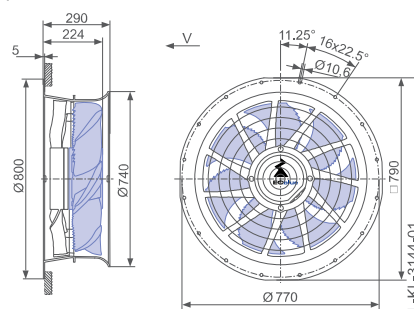


Page 452

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



Design H - ZApplus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for single phase alternating current, 200-277 V

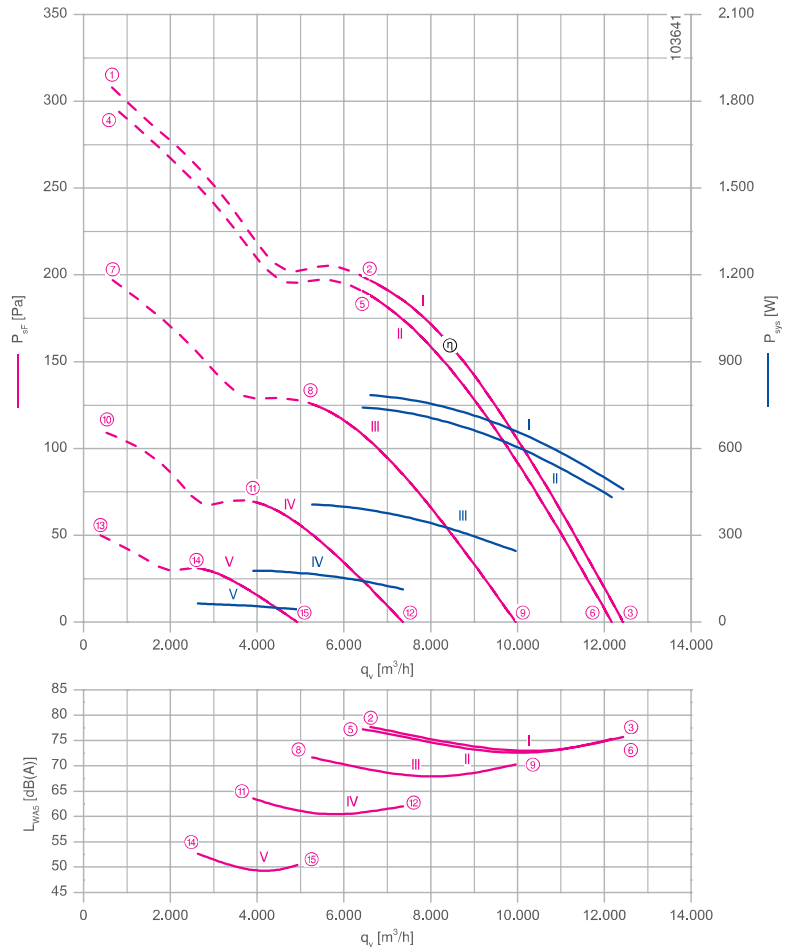
ZN063



Description

Motor technology: EC
 Rated voltage U_N : 1~ 200-277 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 0.78 kW*
 Rated current I_N : 4.00- 2.90 A*
 Rated speed n_N : 1060 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 55 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: High Performance Composite Material, uncoated, black
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 57.2 %
 Efficiency: $N_{actual} = 64.4 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

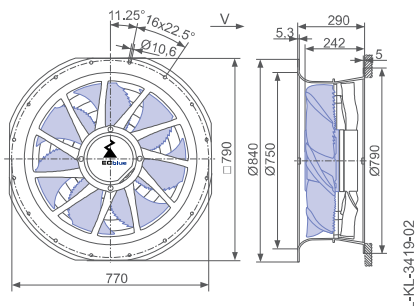
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

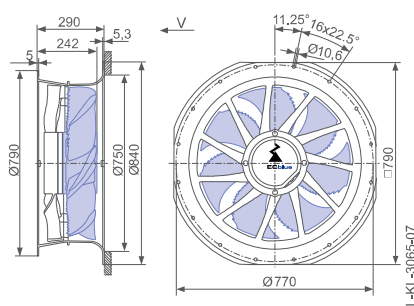
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

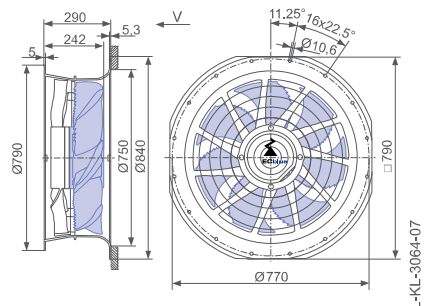


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)	
ZN063-ZL_DG.V7P2	I	1060	①	4.60	1000		55
			②	3.50	780	78	
			③	2.10	460	76	
	II	1040	④	4.20	960		60
			⑤	3.30	740	77	
			⑥	1.95	440	75	
	III	850	⑦	2.40	540		
			⑧	1.85	400	72	
			⑨	1.15	250	70	
	IV	630	⑩	1.05	230		
			⑪	0.82	180	64	
			⑫	0.54	110	62	
	V	420	⑬	0.42	80		
			⑭	0.54	65	53	
			⑮	0.46	44	50	

Current values determined at 230V

Fan ordering information

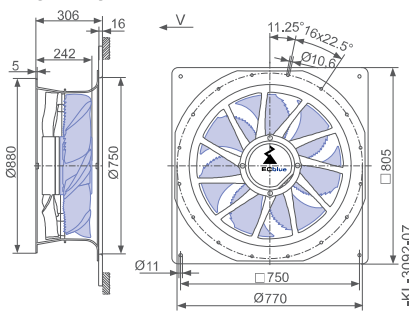
Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type Article no.	ZN063-ZIL.DG.V7P2 169880	ZN063-ZIL.DG.V7P2 163357	ZN063-ZIL.DG.V7P2 163358	ZN063-ZIQ.DG.V7P2 163360	ZN063-ZIQ.DG.V7P2 163361	ZN063-ZIH.DG.V7P2 163365
Weight kg	20.60	18.80	19.80	20.80	21.80	19.80

ZPlus attachable on both sides.

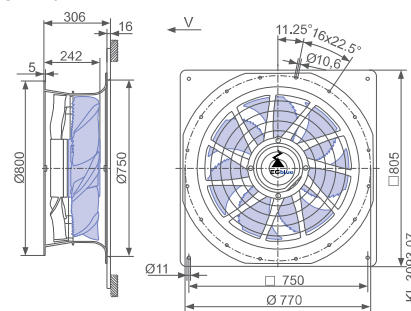
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

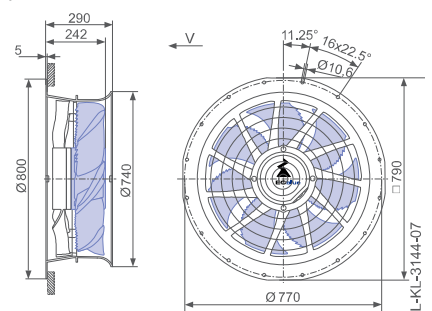
Design Q - ZPlus with adapter plate, without guard grille



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



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 200-240 V

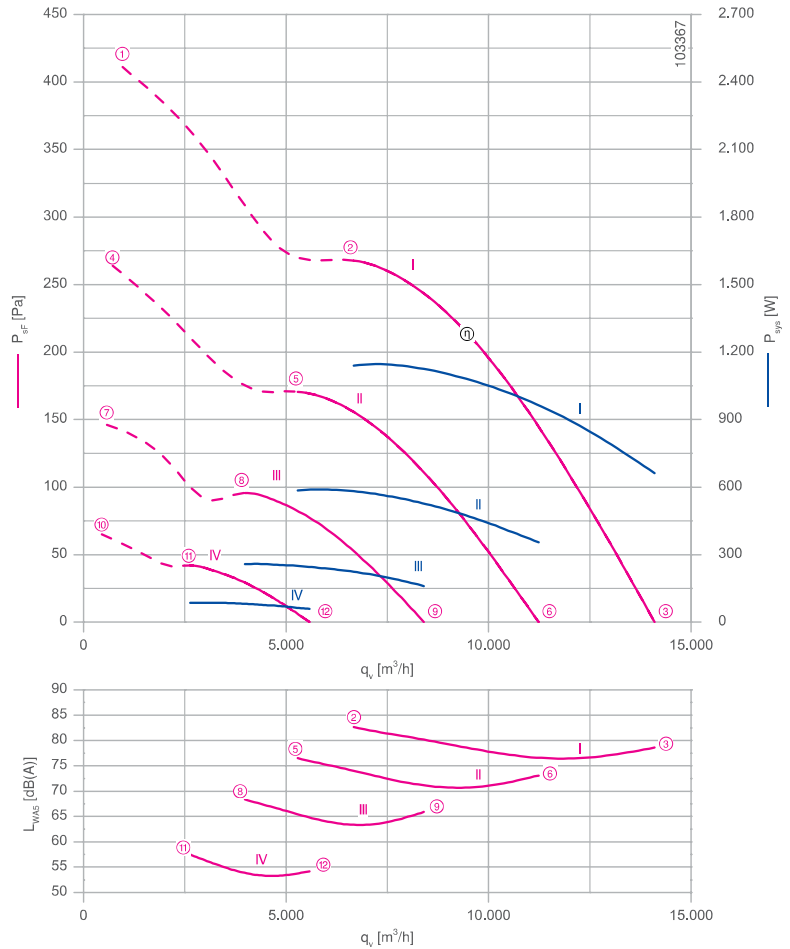
ZN063



Description

Motor technology: EC
 Rated voltage U_N : 3~ 200-240 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 1.00 kW*
 Rated current I_N : 3.60- 3.00 A*
 Rated speed n_N : 1200 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 60 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: High Performance Composite Material, uncoated, black
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 58.2 %
 Efficiency: $N_{actual} = 64.3 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

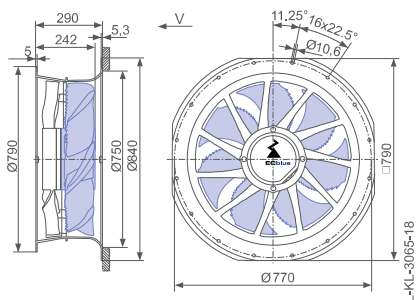
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

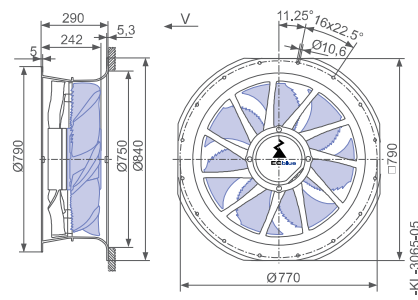
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

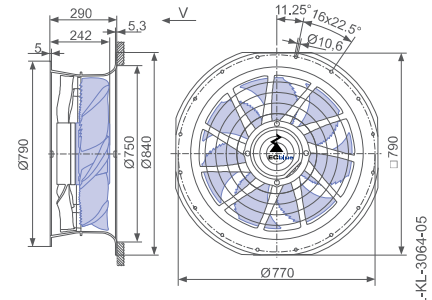


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level L_{WA5} dB(A)
		n min ⁻¹		I A	P_{sys} W	
ZN063-ZI_DG.V7P2	I	1200	①	4.00	1500	
			②	3.10	1150	83
			③	1.85	660	79
	II	960	④	2.40	780	
			⑤	1.90	580	77
			⑥	1.20	350	73
	III	720	⑦	1.15	330	
			⑧	0.88	250	69
			⑨	0.60	160	66
	IV	480	⑩	0.46	110	
			⑪	0.39	85	58
			⑫	0.30	60	54

Current values determined at 230V

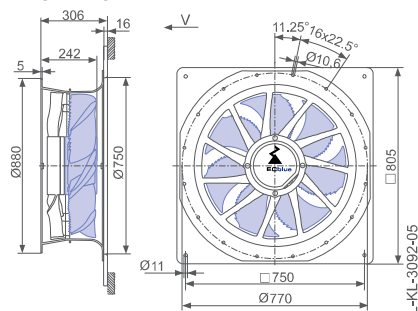
Fan ordering information

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	ZN063-ZIL.DG.V7P2	ZN063-ZIL.DG.V7P2	ZN063-ZIL.DG.V7P2	ZN063-ZIQ.DG.V7P2	ZN063-ZIQ.DG.V7P2	ZN063-ZIH.DG.V7P2
Article no.	169879	163339	163340	163342	163343	163347
Weight kg	20.60	18.80	19.80	20.80	21.80	19.80
ZApplus attachable on both sides.						

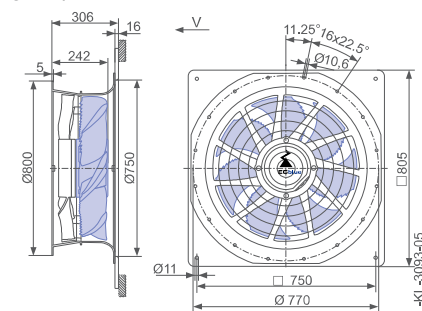
Control technology



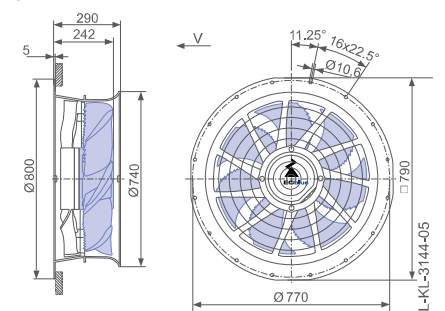
Design Q - ZApplus with adapter plate, without guard grille



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



Design H - ZApplus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 200-240 V

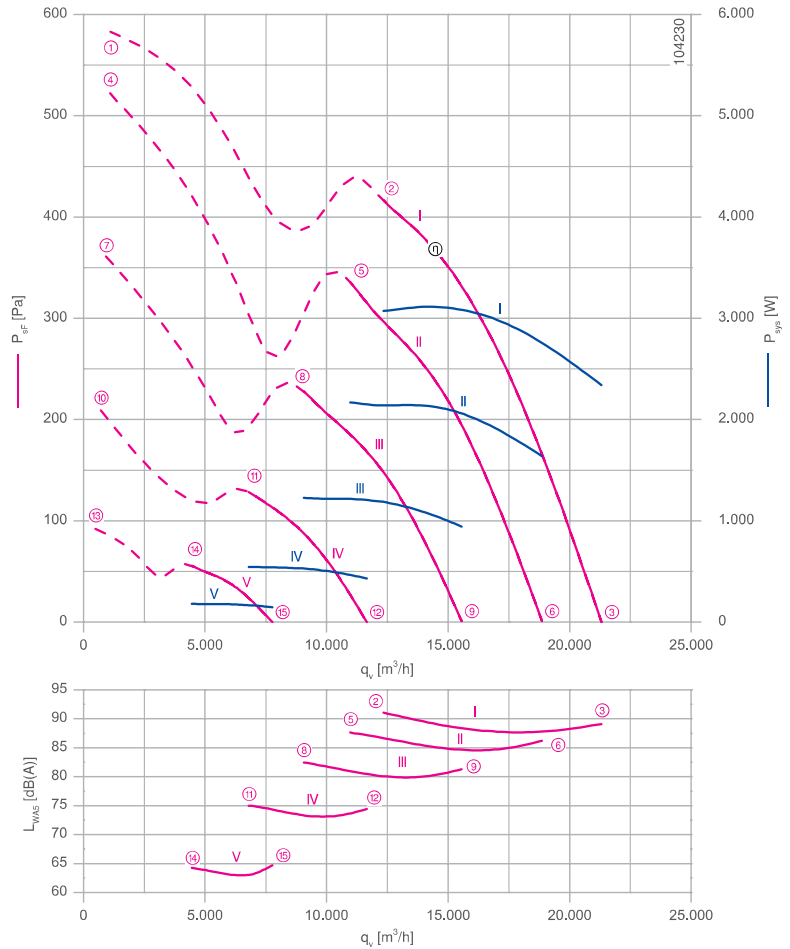
ZN063



Description

Motor technology: EC
 Rated voltage U_N : 3- 200-240 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 3.10 kW*
 Rated current I_N : 9.40- 8.00 A*
 Rated speed n_N : 1500 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 45 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: Aluminium, uncoated
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 51.2 %
 Efficiency: $N_{actual} = 54.4 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

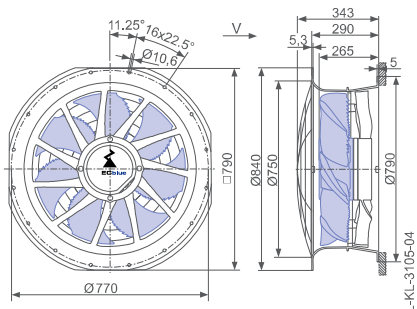
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

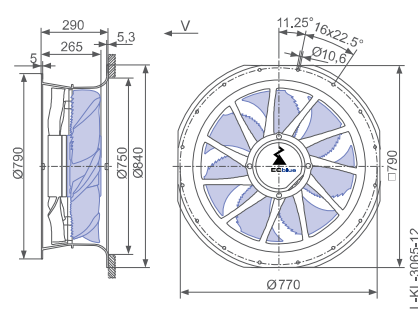
Airflow direction →

Design L - ZPlus Ontop, guard grille suction side

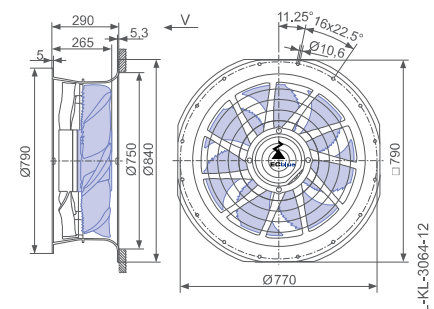


← Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)	
ZN063-ZL_GG.V7P3	I	1500	①	8.40	3200		45
			②	8.20	3100	91	
			③	6.20	2300	89	
	II	1340	④	7.00	2700		60
			⑤	5.60	2100	88	
			⑥	4.40	1650	86	
	III	1110	⑦	4.00	1500		
			⑧	3.30	1200	83	
			⑨	2.60	940	81	
	IV	830	⑩	1.90	680		
			⑪	1.55	540	75	
			⑫	1.25	440	74	
	V	550	⑬	0.74	220		
			⑭	0.62	180	64	
			⑮	0.54	150	65	

Current values determined at 230V

Fan ordering information

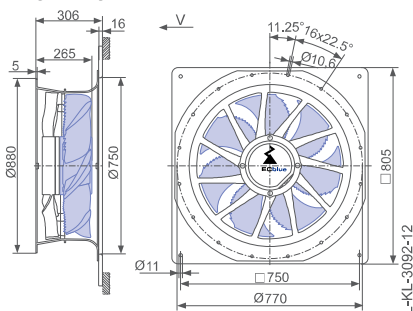
Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type Article no.	ZN063-ZIL.GG.V7P3 169881	ZN063-ZIL.GG.V7P3 164302	ZN063-ZIL.GG.V7P3 164303	ZN063-ZIQ.GG.V7P3 164305	ZN063-ZIQ.GG.V7P3 164306	ZN063-ZIH.GG.V7P3 164310
Weight kg	33.40	31.40	32.50	32.80	33.80	32.50

ZPlus attachable on both sides.

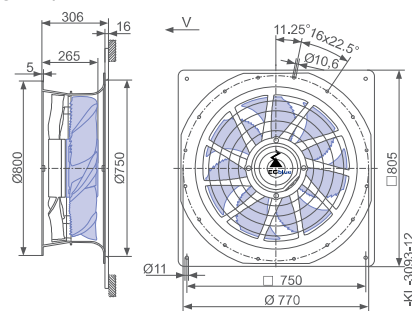
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

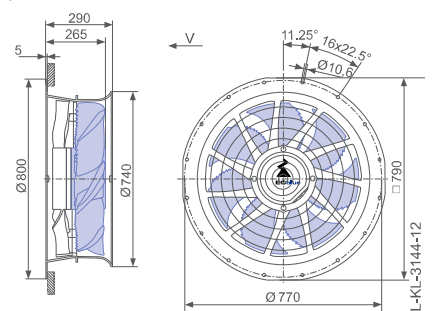
Design Q - ZPlus with adapter plate, without guard grille



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



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 200-240 V

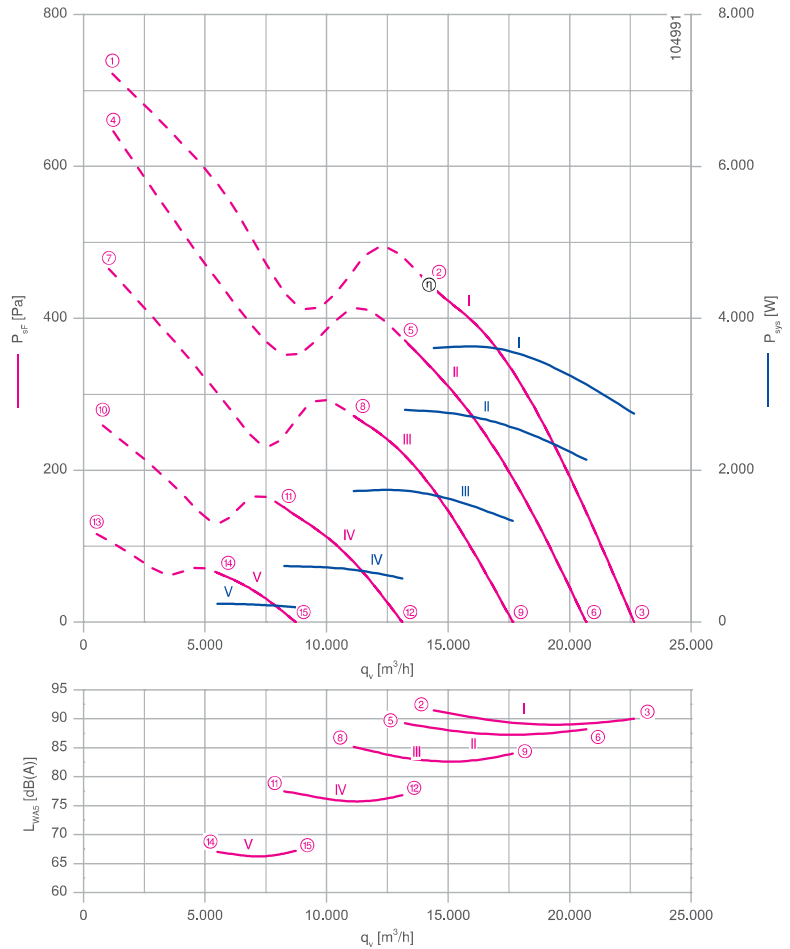
ZN063



Description

Motor technology: EC
 Rated voltage U_N : 3- 200-240 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 3.60 kW*
 Rated current I_N : 11.00- 9.20 A*
 Rated speed n_N : 1600 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 50 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: Aluminium, uncoated
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 52.4 %
 Efficiency: $N_{actual} = 55.2 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

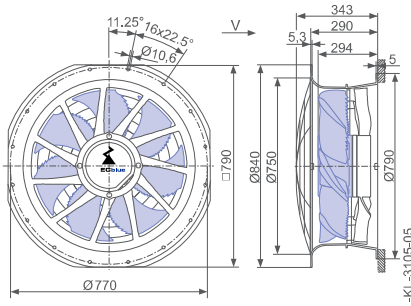
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

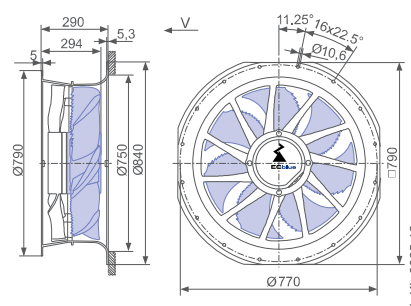
Airflow direction →

Design L - ZPlus Ontop, guard grille suction side

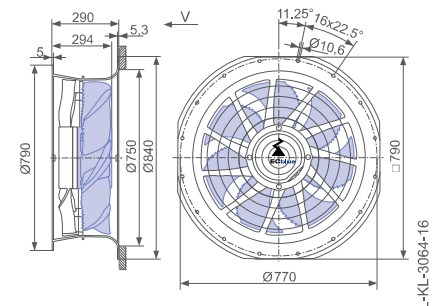


← Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)	
ZN063-ZL_GL.V7P3	I	1600	①	11.00	4200		50
			②	9.60	3600	92	
			③	7.20	2700	90	
	II	1470	④	9.40	3500		60
			⑤	7.40	2800	89	
			⑥	5.60	2100	88	
	III	1250	⑦	5.60	2100		
			⑧	4.60	1750	85	
			⑨	3.50	1350	84	
	IV	930	⑩	2.40	920		
			⑪	1.95	740	78	
			⑫	1.55	580	77	
	V	620	⑬	0.86	300		
			⑭	0.72	240	67	
			⑮	0.62	200	67	

Current values determined at 230V

Fan ordering information

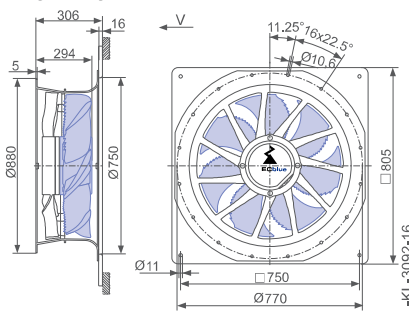
Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type Article no.	ZN063-ZIL.GL.V7P3 169882	ZN063-ZIL.GL.V7P3 164337	ZN063-ZIL.GL.V7P3 164338	ZN063-ZIQ.GL.V7P3 164340	ZN063-ZIQ.GL.V7P3 164341	ZN063-ZIH.GL.V7P3 164345
Weight kg	37.60	35.60	36.70	37.20	38.20	36.70

ZPlus attachable on both sides.

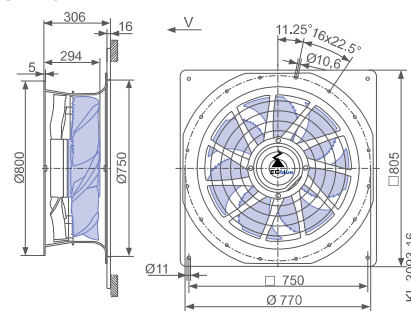
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

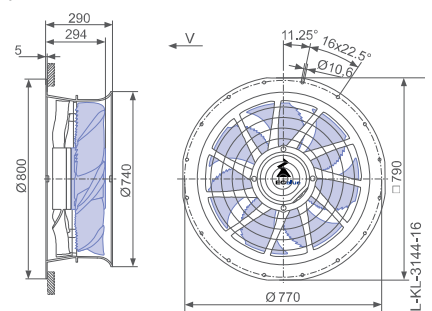
Design Q - ZPlus with adapter plate, without guard grille



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



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 380-480 V

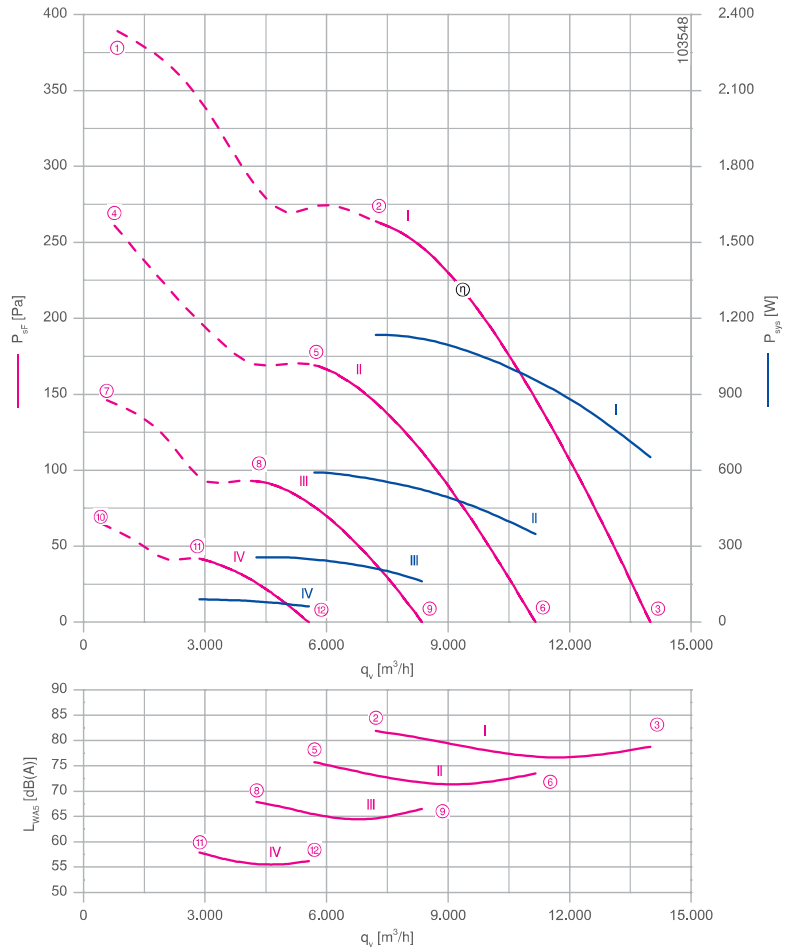
ZN063



Description

Motor technology: EC
 Rated voltage U_N : 3- 380-480 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 1.00 kW*
 Rated current I_N : 2.00- 1.60 A*
 Rated speed n_N : 1200 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 60 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: High Performance Composite Material, uncoated, black
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 58.7 %
 Efficiency: $N_{actual} = 64.8 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

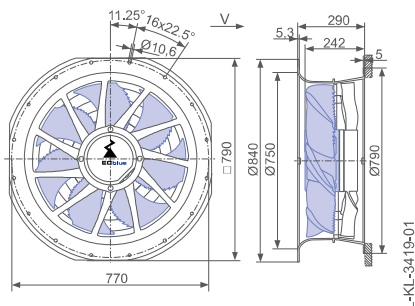
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

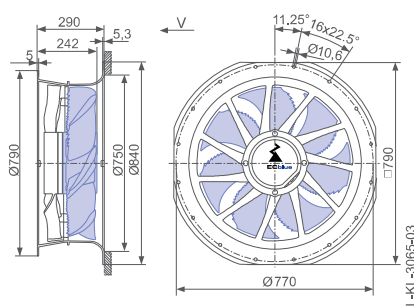
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

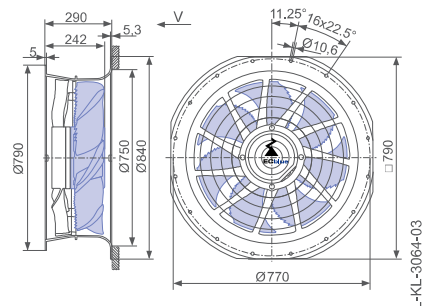


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level L_{WA5} dB(A)
		n min ⁻¹		I A	P_{sys} W	
ZN063-ZI_DG.V7P2	I	1200	①	2.30	1400	
			②	1.90	1150	82
			③	1.25	660	79
	II	960	④	1.40	780	
			⑤	1.15	580	76
			⑥	0.84	350	74
	III	720	⑦	0.82	340	
			⑧	0.70	260	68
			⑨	0.54	160	67
	IV	480	⑩	0.42	110	
			⑪	0.37	90	58
			⑫	0.29	60	56

Current values determined at 400V

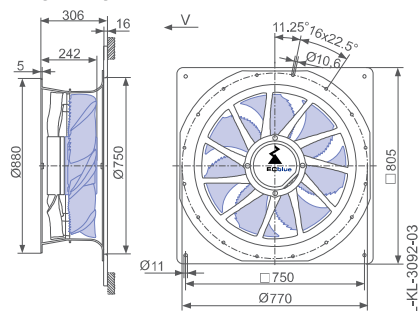
Fan ordering information

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	ZN063-ZIL.DG.V7P2	ZN063-ZIL.DG.V7P2	ZN063-ZIL.DG.V7P2	ZN063-ZIQ.DG.V7P2	ZN063-ZIQ.DG.V7P2	ZN063-ZIH.DG.V7P2
Article no.	166780	163321	163322	163324	163325	163329
Weight kg	20.60	18.80	19.80	20.80	21.80	19.80
ZApplus attachable on both sides.						

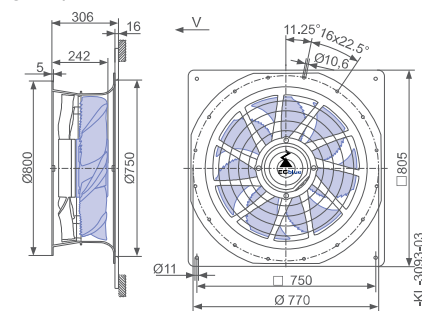
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

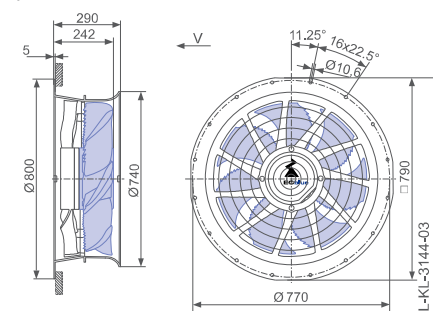
Design Q - ZApplus with adapter plate, without guard grille



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



Design H - ZApplus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 380-480 V

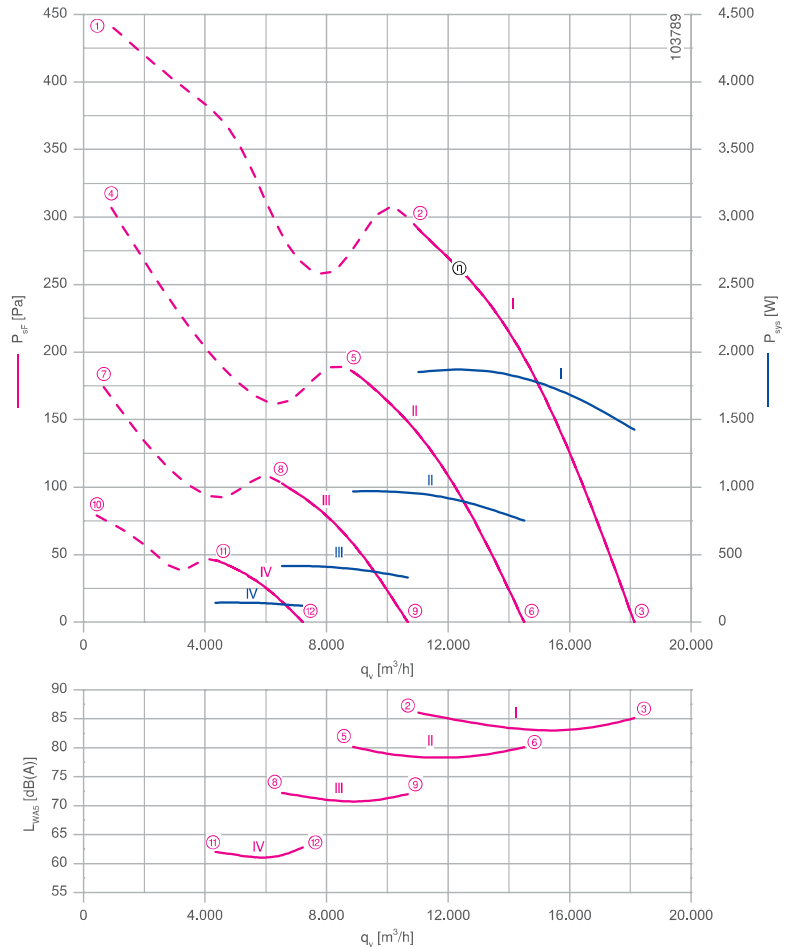
ZN063



Description

Motor technology: EC
 Rated voltage U_N : 3- 380-480 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 1.85 kW*
 Rated current I_N : 3.00- 2.40 A*
 Rated speed n_N : 1270 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 65 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: Aluminium, uncoated
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 52.8 %
 Efficiency: $N_{actual} = 57.5 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

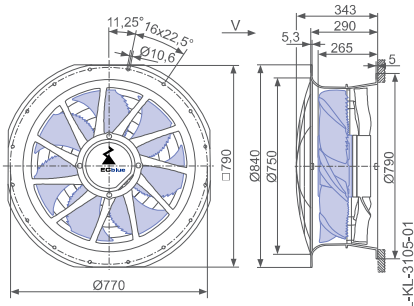
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

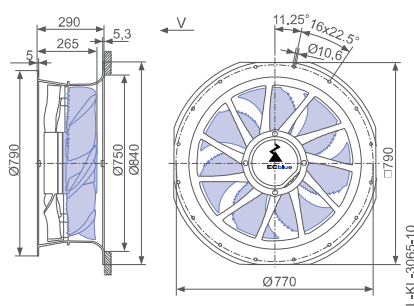
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

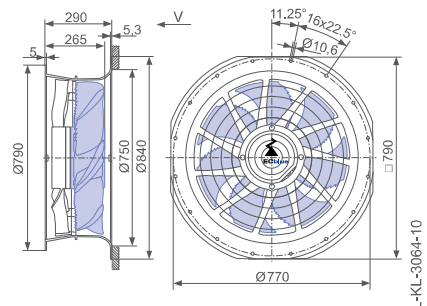


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level L_{WA5} dB(A)
		n min ⁻¹		I A	P_{sys} W	
ZN063-ZI_GG.V7P3	I	1270	①	3.10	2000	
			②	2.90	1850	86
			③	2.20	1400	85
	II	1020	④	1.85	1200	
			⑤	1.55	960	80
			⑥	1.25	760	80
	III	760	⑦	0.94	520	
			⑧	0.80	420	72
			⑨	0.68	330	72
	IV	510	⑩	0.48	180	
			⑪	0.42	140	62
			⑫	0.38	120	63

Current values determined at 400V

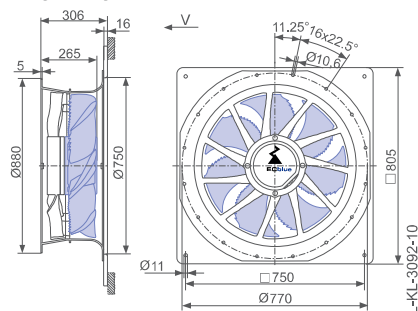
Fan ordering information

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	ZN063-ZIL.GG.V7P3	ZN063-ZIL.GG.V7P3	ZN063-ZIL.GG.V7P3	ZN063-ZIQ.GG.V7P3	ZN063-ZIQ.GG.V7P3	ZN063-ZIH.GG.V7P3
Article no.	166781	164284	164285	164287	164288	164292
Weight kg	33.40	31.40	32.50	32.80	33.80	32.50
ZApplus attachable on both sides.						

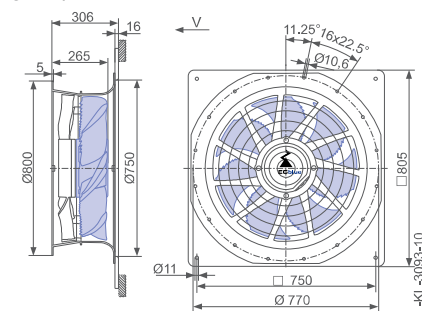
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

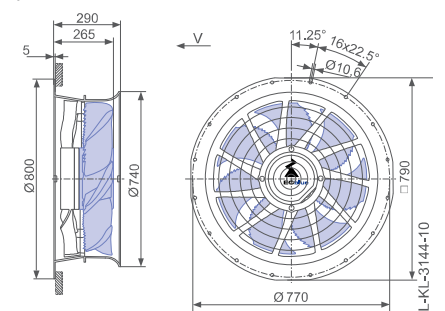
Design Q - ZApplus with adapter plate, without guard grille



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



Design H - ZApplus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 380-480 V

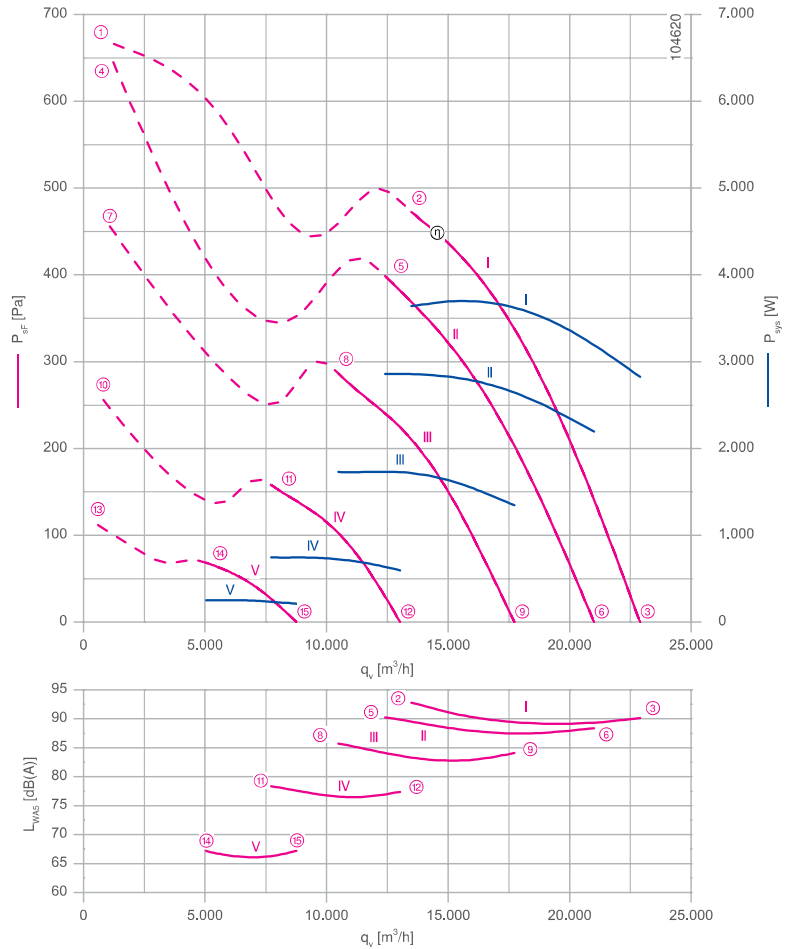
ZN063



Description

Motor technology: EC
 Rated voltage U_N : 3- 380-480 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 3.70 kW*
 Rated current I_N : 6.00- 4.70 A*
 Rated speed n_N : 1600 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 55 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: Aluminium, uncoated
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 52.9 %
 Efficiency: $N_{actual} = 55.7 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

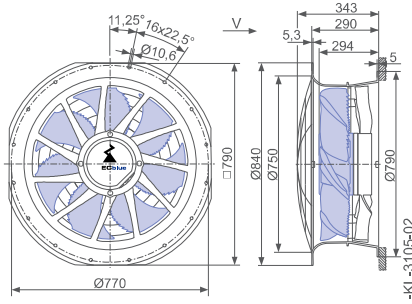
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

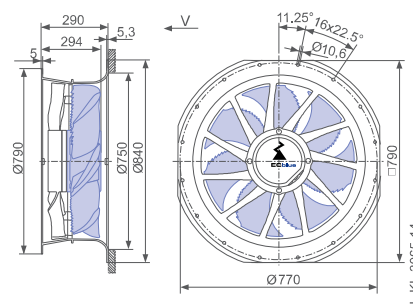
Airflow direction →

Design L - ZPlus Ontop, guard grille suction side

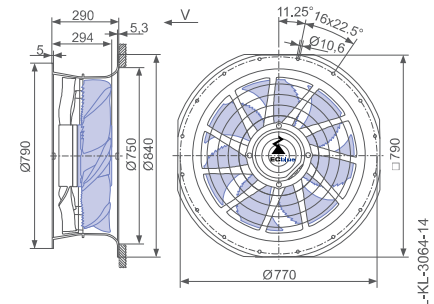


← Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)	
ZN063-ZL_GL.V7P3	I	1600	①	5.60	3700		55
			②	5.60	3600	93	
			③	4.40	2800	90	
	II	1480	④	5.40	3500		60
			⑤	4.40	2900	90	
			⑥	3.40	2200	88	
	III	1250	⑦	3.20	2100		
			⑧	2.70	1700	86	
			⑨	2.10	1350	84	
	IV	930	⑩	1.50	920		
			⑪	1.25	740	78	
			⑫	1.05	600	77	
	V	620	⑬	0.66	300		
			⑭	0.58	250	67	
			⑮	0.52	210	67	

Current values determined at 400V

Fan ordering information

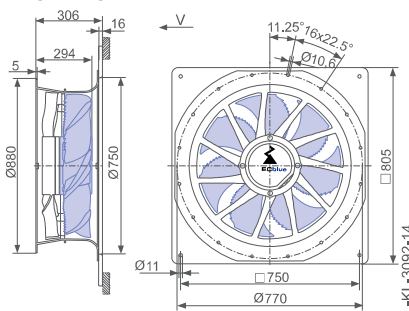
Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type Article no.	ZN063-ZIL.GL.V7P3 166782	ZN063-ZIL.GL.V7P3 164319	ZN063-ZIL.GL.V7P3 164320	ZN063-ZIQ.GL.V7P3 164322	ZN063-ZIQ.GL.V7P3 164323	ZN063-ZIH.GL.V7P3 164327
Weight kg	37.60	35.70	36.70	37.20	38.20	36.70

ZPlus attachable on both sides.

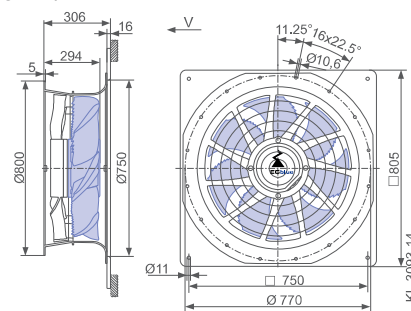
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

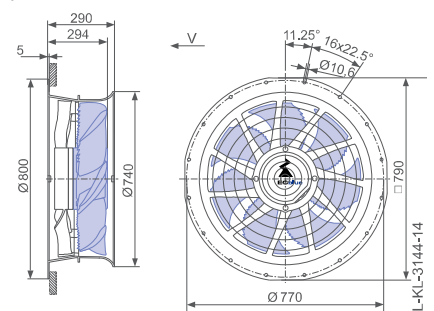
Design Q - ZPlus with adapter plate, without guard grille



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



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for single phase alternating current, 200-277 V

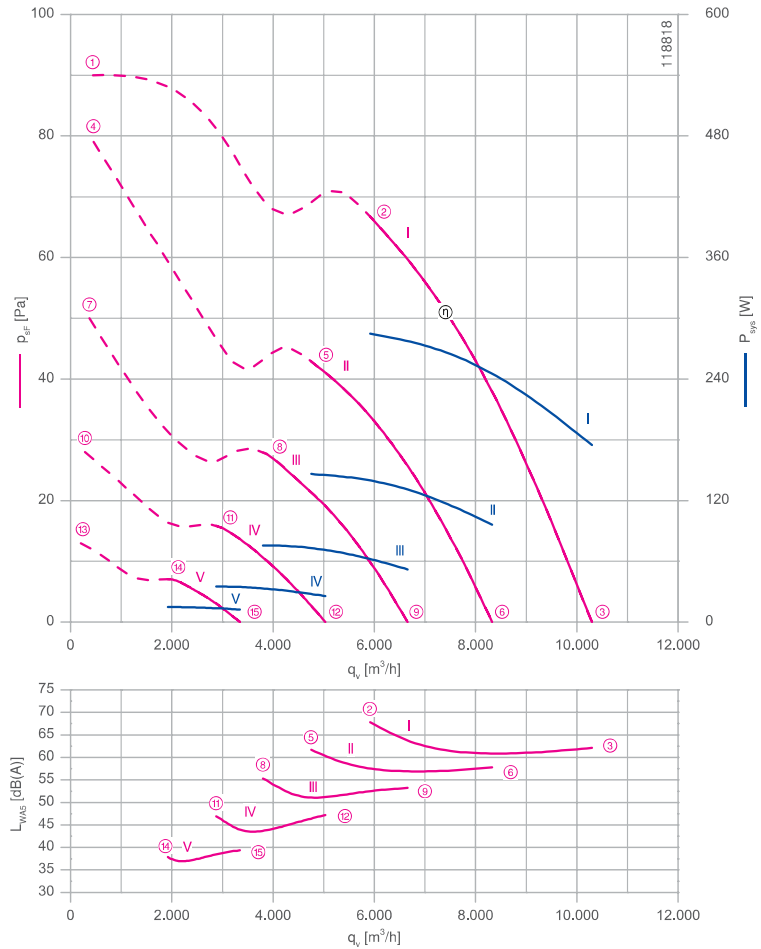
ZNO71



Description

Motor technology: EC
 Rated voltage U_N : 1~ 200-277 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 290 W*
 Rated current I_N : 1.45- 1.05 A*
 Rated speed n_N : 620 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 45 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: High Performance Composite Material, uncoated, black
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{statA} : 46.0 %
 Efficiency: $N_{actual} = 55.9 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

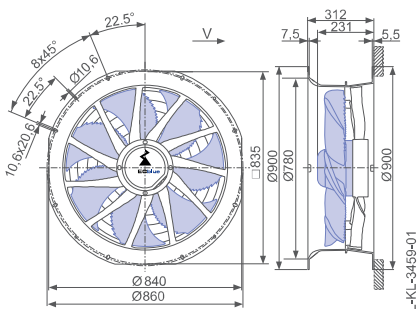
Connection diagram Page 529
1360-384

System components Page 430

Dimensions mm

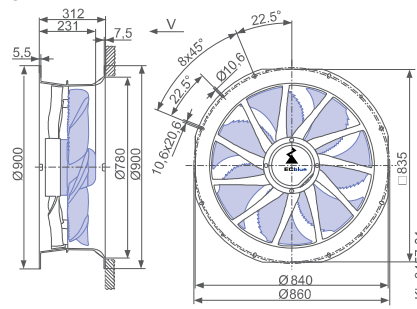
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

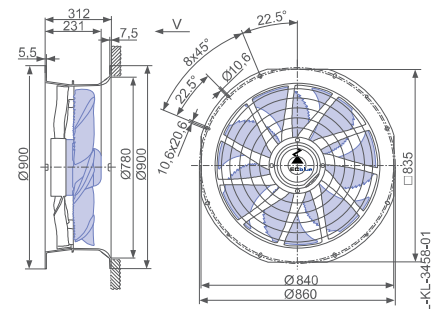


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)	
ZN071-6L_BD.V7P3	I	620	①	1.25	290		45
			②	1.25	280	68	
			③	0.78	170	62	
	II	500	④	1.00	230		60
			⑤	0.64	150	62	
			⑥	0.44	95	58	
	III	400	⑦	0.52	120		
			⑧	0.36	75	55	
			⑨	0.27	50	53	
	IV	300	⑩	0.26	50		
			⑪	0.20	36	47	
			⑫	0.17	26	47	
	V	200	⑬	0.15	20		
			⑭	0.14	15	38	
			⑮	0.13	12	39	

Current values determined at 230V

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	ZN071-6IL.BD.V7P3	ZN071-6IL.BD.V7P3	ZN071-6IL.BD.V7P3	ZN071-6IH.BD.V7P3	ZN071-6IH.BD.V7P3
Article no.	170380	170376	170377	170378	170379
Weight kg	19.40	16.20	17.50	15.20	16.50
ZApplus attachable on both sides.					

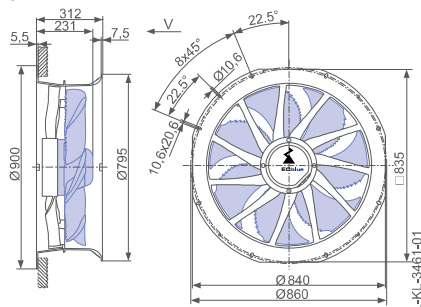
Control technology

Control modules

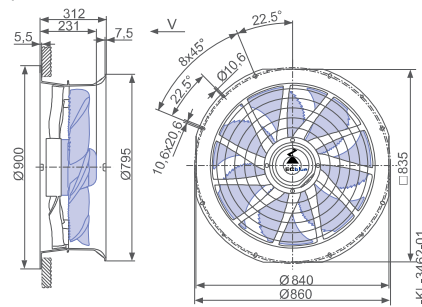


Page 452

Design H - ZApplus Flattop, without guard grille



Design H - ZApplus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for single phase alternating current, 200-277 V

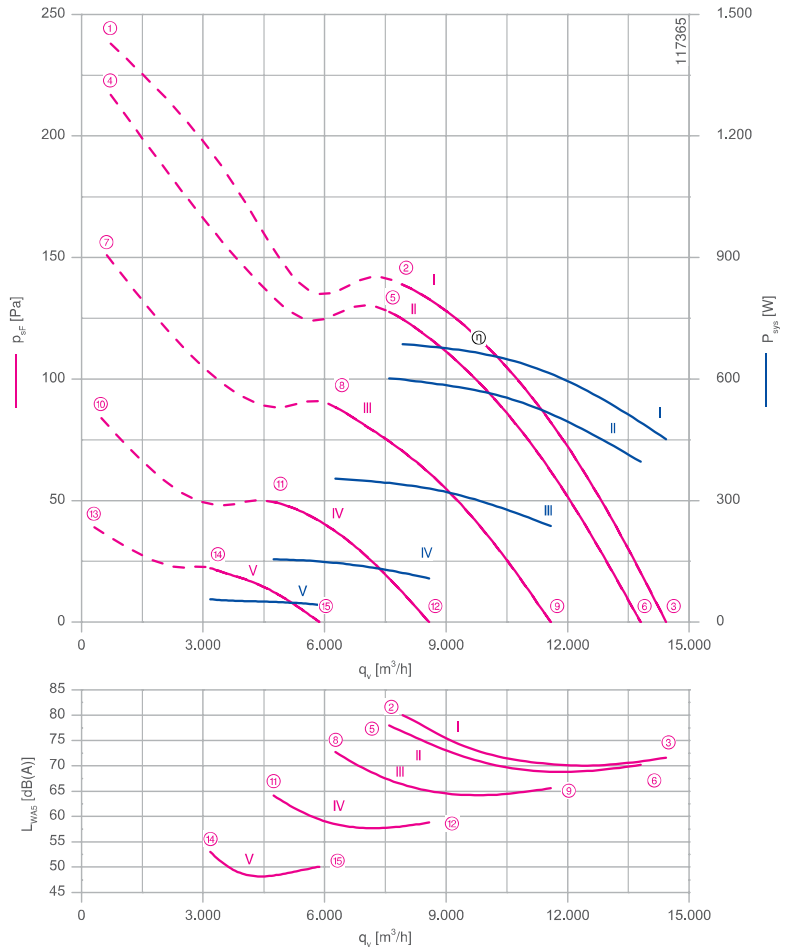
ZNO71



Description

Motor technology: EC
 Rated voltage U_N : 1~ 200-277 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 0.68 kW*
 Rated current I_N : 3.50- 2.50 A*
 Rated speed n_N : 890 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 55 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: High Performance Composite Material, uncoated, black
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 53.6 %
 Efficiency: $N_{actual} = 61.0 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

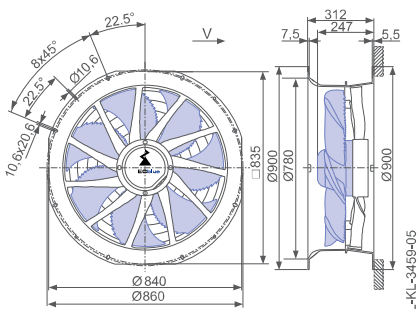
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

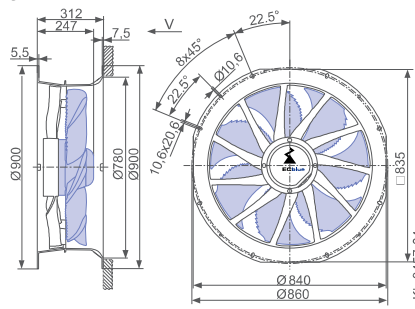
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

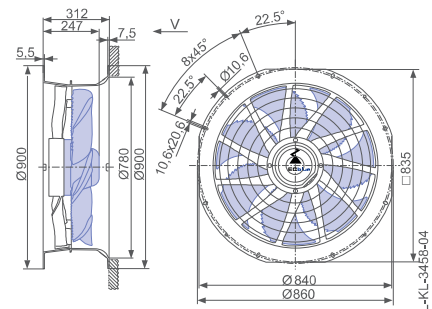


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)	
ZN071-ZL_DG_7P3	I	890	①	4.40	1000		55
			②	3.00	680	80	
			③	2.00	460	72	
	II	850	④	3.80	860		60
			⑤	2.60	600	78	
			⑥	1.75	400	70	
	III	710	⑦	2.20	500		
			⑧	1.55	350	73	
			⑨	1.10	240	66	
	IV	530	⑩	0.98	220		
			⑪	0.72	150	64	
			⑫	0.52	110	59	
	V	360	⑬	0.42	80		
			⑭	0.50	55	53	
			⑮	0.44	42	50	

Current values determined at 230V

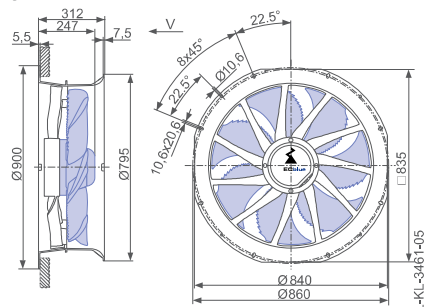
Fan ordering information

Design	Airflow direction		Airflow direction		
	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 Article no.	ZN071-ZIL.DG.V7P3 170404	ZN071-ZIL.DG.V7P3 170341	ZN071-ZIL.DG.V7P3 170342	ZN071-ZIH.DG.V7P3 170402	ZN071-ZIH.DG.V7P3 170403
Weight kg	22.40	19.30	20.60	18.30	19.50
ZApplus attachable on both sides.					

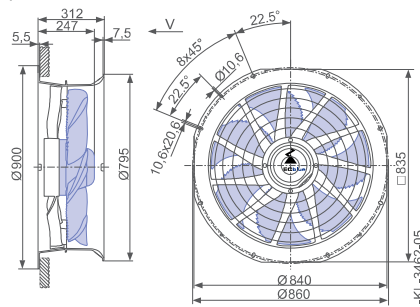
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

Design H - ZApplus Flattop, without guard grille



Design H - ZApplus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 200-240 V

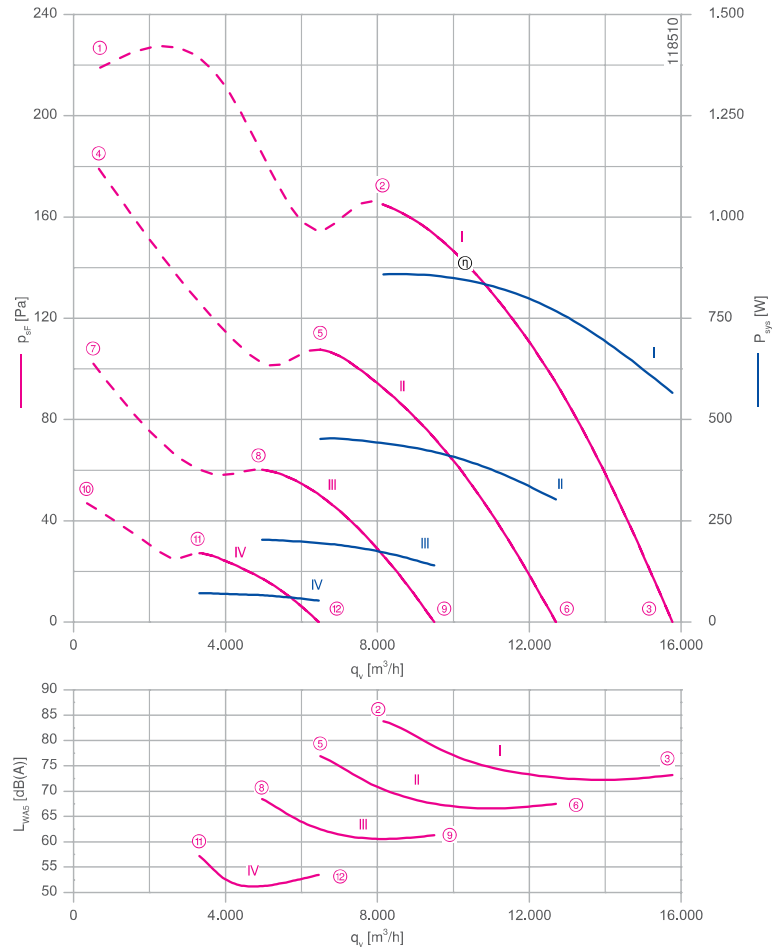
ZNO71



Description

Motor technology: EC
 Rated voltage U_N : 3~ 200-240 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 0.86 kW*
 Rated current I_N : 2.70- 2.20 A*
 Rated speed n_N : 960 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 60 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: High Performance Composite Material, uncoated, black
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 54.1 %
 Efficiency: $N_{actual} = 60.9 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

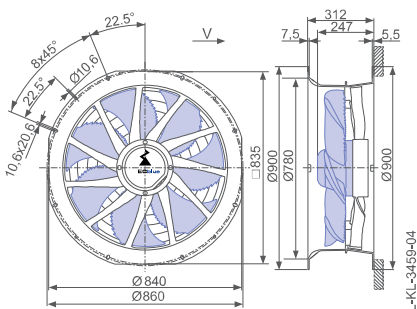
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

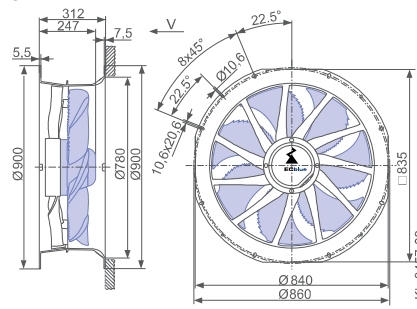
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

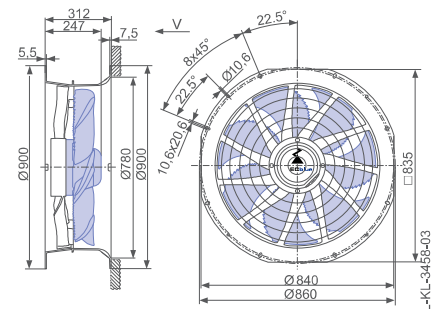


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)
ZN071-ZI_DG.V7P3	I	960	①	2.40	880	
			②	2.30	860	84
			③	1.55	560	73
	II	770	④	1.80	660	
			⑤	1.25	440	77
			⑥	0.90	300	68
	III	580	⑦	0.88	290	
			⑧	0.68	200	69
			⑨	0.54	140	61
	IV	390	⑩	0.44	100	
			⑪	0.34	70	58
			⑫	0.29	55	54

Current values determined at 230V

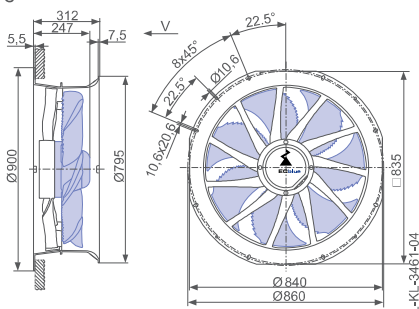
Fan ordering information

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-ZIL.DG.V7P3	ZN071-ZIL.DG.V7P3	ZN071-ZIL.DG.V7P3	ZN071-ZIH.DG.V7P3	ZN071-ZIH.DG.V7P3
Article no.	170396	170392	170393	170394	170395
Weight kg	22.40	19.30	20.50	18.30	19.50
ZAplus attachable on both sides.					

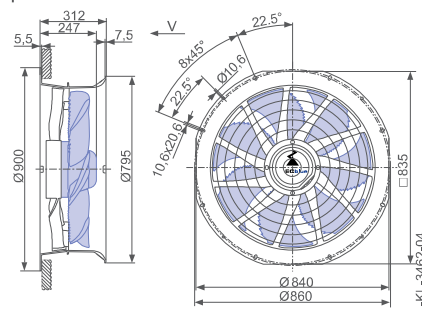
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

Design H - ZAplus Flattop, without guard grille



Design H - ZAplus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 200-240 V

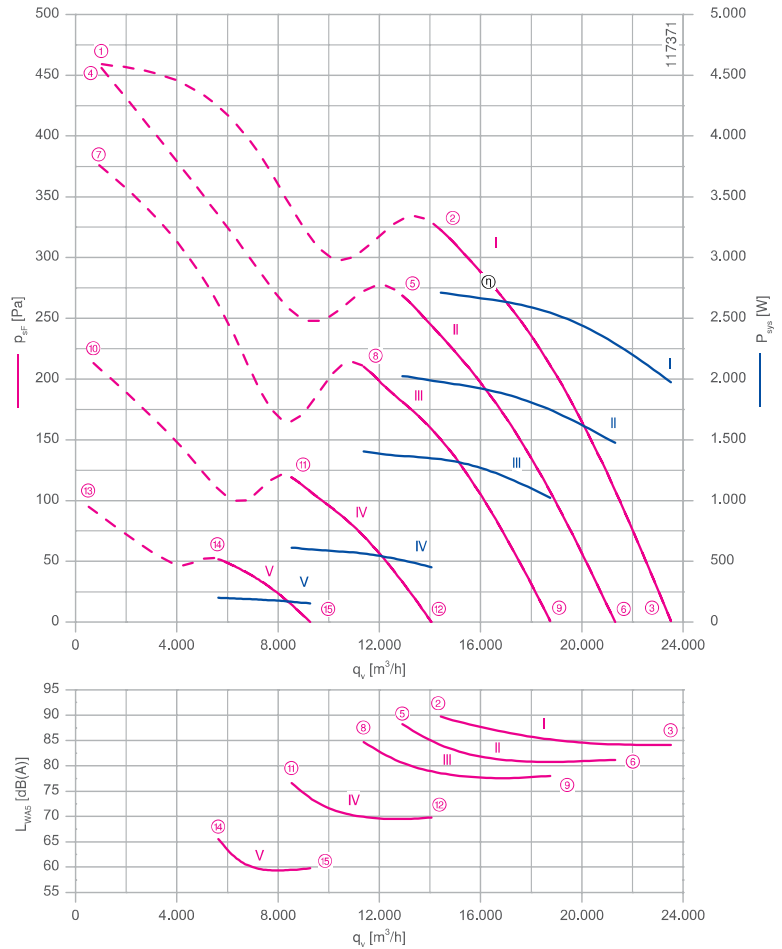
ZNO71



Description

Motor technology: EC
 Rated voltage U_N : 3~ 200-240 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 2.70 kW*
 Rated current I_N : 8.20- 6.80 A*
 Rated speed n_N : 1300 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 50 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: Aluminium, uncoated
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 52.8 %
 Efficiency: $N_{actual} = 56.5 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

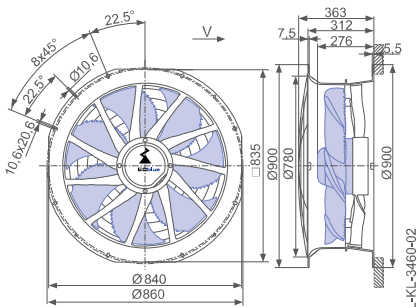
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

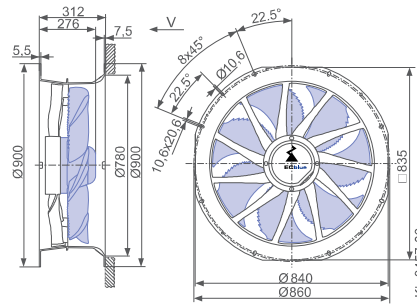
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

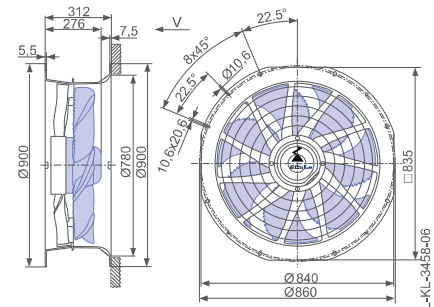


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)	
ZN071-ZL_GG.V7P4	I	1300	①	7.40	2800		50
			②	7.20	2700	90	
			③	5.20	1950	84	
	II	1180	④	7.40	2800		60
			⑤	5.40	2000	88	
			⑥	3.90	1500	81	
	III	1040	⑦	5.40	2100		
			⑧	3.70	1400	85	
			⑨	2.80	1000	78	
	IV	780	⑩	2.40	880		
			⑪	1.65	600	77	
			⑫	1.30	460	70	
	V	520	⑬	0.86	280		
			⑭	0.66	200	66	
			⑮	0.58	150	60	

Current values determined at 230V

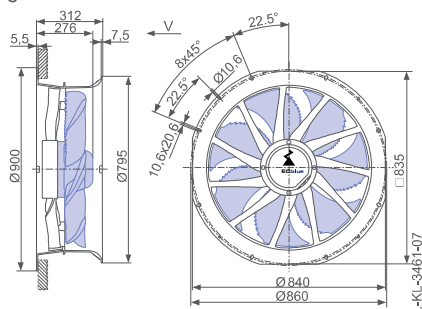
Fan ordering information

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 Article no.	ZN071-ZIL.GG.V7P4 170418	ZN071-ZIL.GG.V7P4 170414	ZN071-ZIL.GG.V7P4 170415	ZN071-ZIH.GG.V7P4 170416	ZN071-ZIH.GG.V7P4 170417
Weight kg	33.40	30.80	32.00	29.90	31.10
ZPlus attachable on both sides.					

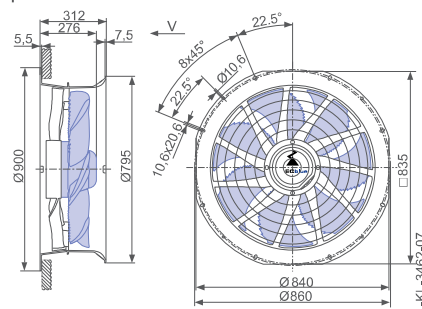
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

Design H - ZPlus Flattop, without guard grille



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 200-240 V

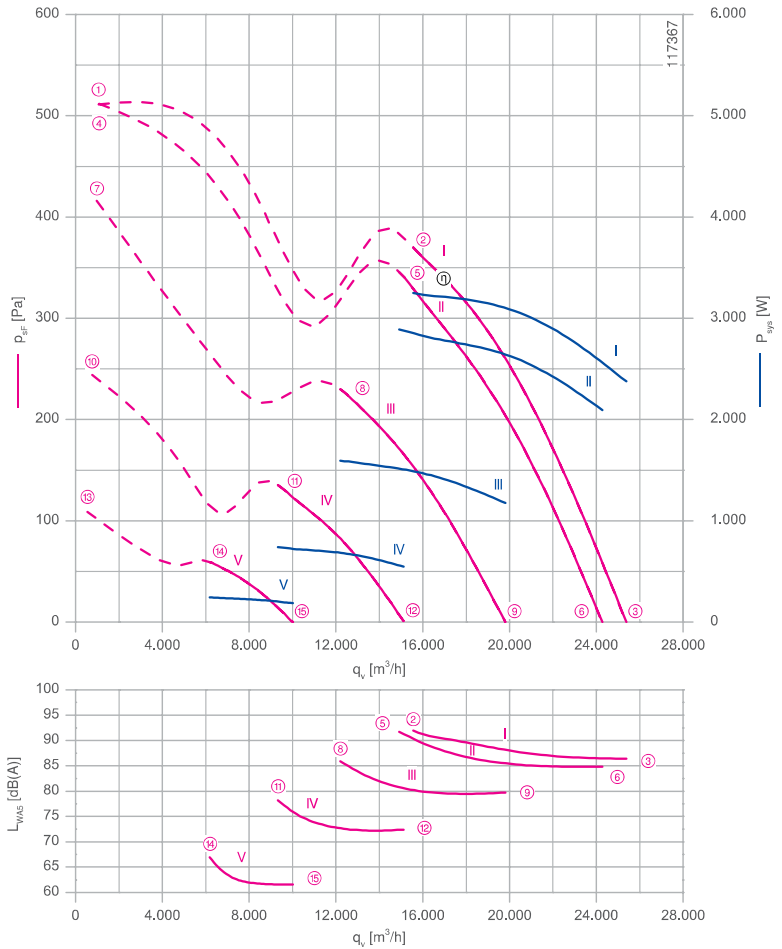
ZNO71



Description

Motor technology: EC
 Rated voltage U_N : 3~ 200-240 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 3.30 kW*
 Rated current I_N : 10.00- 8.40 A*
 Rated speed n_N : 1400 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 55 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: Aluminium, uncoated
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 53.9 %
 Efficiency: $N_{actual} = 57.0 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

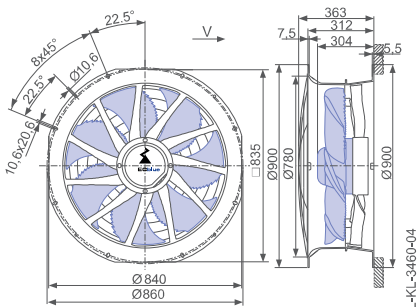
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

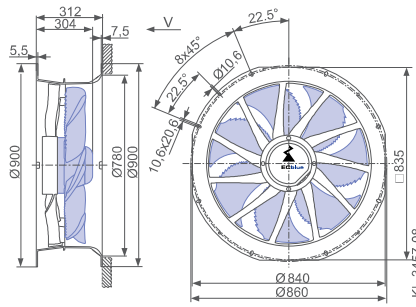
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

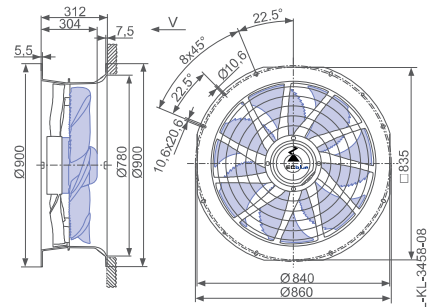


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)	
ZN071-ZL_GL.V7P4	I	1400	①	8.60	3200		55
			②	8.60	3300	92	
			③	6.20	2400	86	
	II	1340	④	8.40	3200		60
			⑤	7.60	2900	92	
			⑥	5.60	2100	85	
	III	1100	⑦	6.20	2300		
			⑧	4.20	1600	86	
			⑨	3.20	1200	80	
	IV	840	⑩	2.90	1050		
			⑪	2.00	720	78	
			⑫	1.55	540	72	
	V	560	⑬	1.00	340		
			⑭	0.76	240	67	
			⑮	0.64	190	62	

Current values determined at 230V

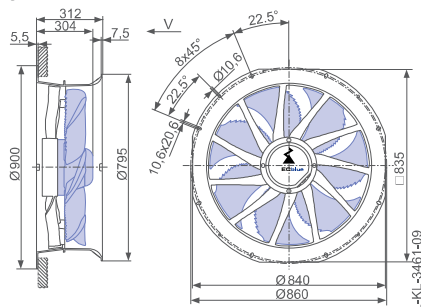
Fan ordering information

	Airflow direction →		← Airflow direction		
Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	H (without guard grille) Flattop	H (guard grille pressure side) Flattop
Type	ZN071-ZIL.GL.V7P4	ZN071-ZIL.GL.V7P4	ZN071-ZIL.GL.V7P4	ZN071-ZIH.GL.V7P4	ZN071-ZIH.GL.V7P4
Article no.	170434	170430	170431	170432	170433
Weight kg	37.80	35.20	36.40	34.30	35.50
ZApplus attachable on both sides.					

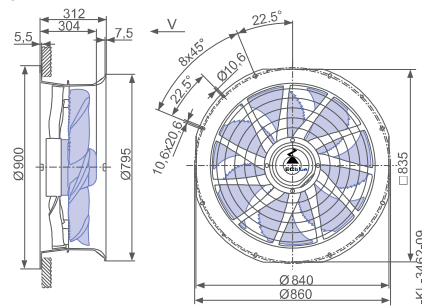
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

Design H - ZApplus Flattop, without guard grille



Design H - ZApplus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 380-480 V

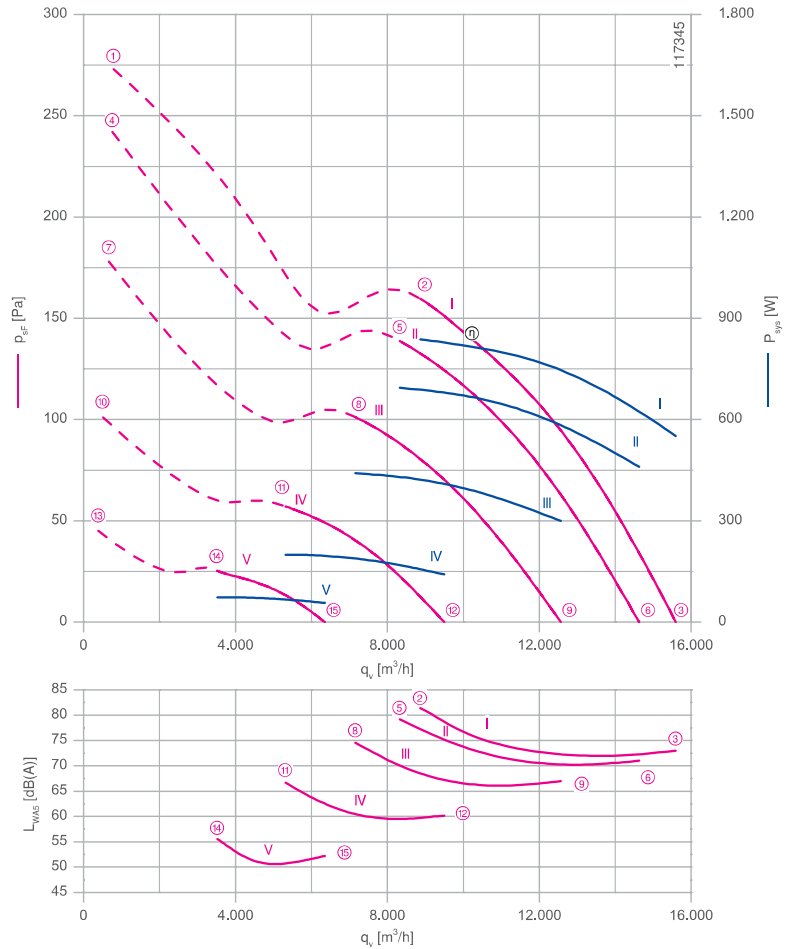
ZNO71



Description

Motor technology: EC
 Rated voltage U_N : 3- 380-480 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 0.84 kW*
 Rated current I_N : 1.45- 1.15 A*
 Rated speed n_N : 960 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 55 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: High Performance Composite Material, uncoated, black
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 54.5 %
 Efficiency: $N_{actual} = 61.4 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

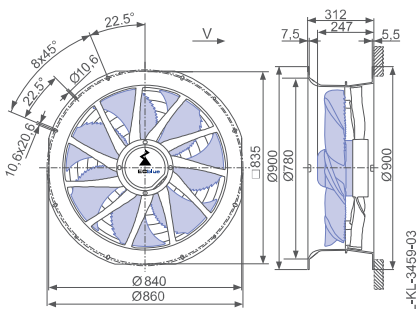
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

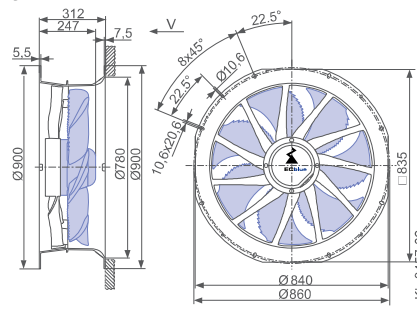
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

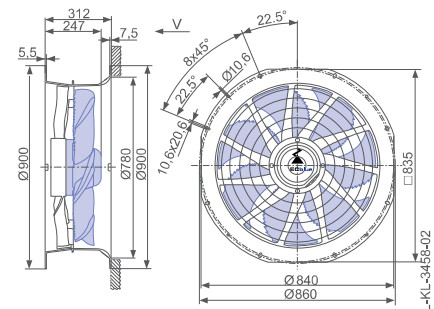


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)	
ZN071-ZL_DG_7P3	I	960	①	1.90	1250		55
			②	1.35	840	82	
			③	0.98	560	73	
	II	900	④	1.60	1000		60
			⑤	1.20	700	79	
			⑥	0.88	460	71	
	III	770	⑦	1.10	640		
			⑧	0.86	440	75	
			⑨	0.68	300	67	
	IV	580	⑩	0.66	280		
			⑪	0.52	200	67	
			⑫	0.42	140	60	
	V	390	⑬	0.33	100		
			⑭	0.28	75	56	
			⑮	0.24	55	52	

Current values determined at 400V

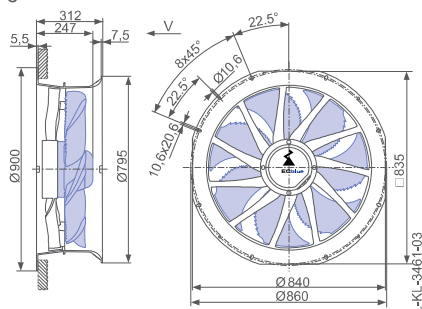
Fan ordering information

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 Article no.	ZN071-ZIL.DG.V7P3 170388	ZN071-ZIL.DG.V7P3 170337	ZN071-ZIL.DG.V7P3 170338	ZN071-ZIH.DG.V7P3 170386	ZN071-ZIH.DG.V7P3 170387
Weight kg	22.40	19.30	20.50	18.30	19.50
ZApplus attachable on both sides.					

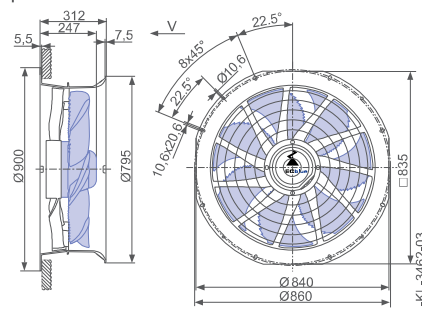
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

Design H - ZApplus Flattop, without guard grille



Design H - ZApplus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 380-480 V

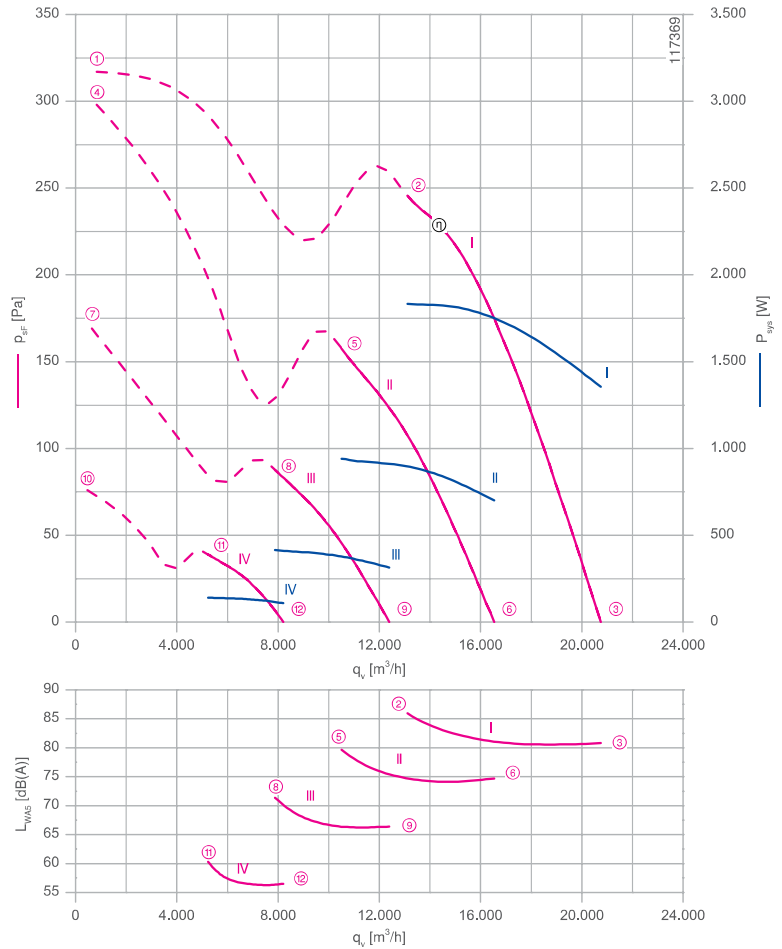
ZN071



Description

Motor technology: EC
 Rated voltage U_N : 3- 380-480 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 1.85 kW*
 Rated current I_N : 3.00- 2.40 A*
 Rated speed n_N : 1150 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 65 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: Aluminium, uncoated
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 54.8 %
 Efficiency: $N_{actual} = 59.5 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

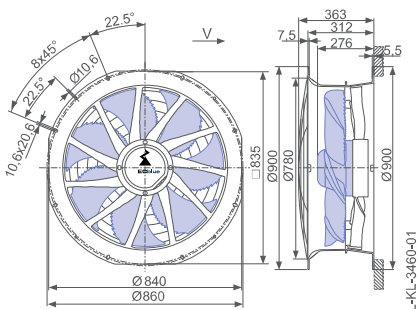
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

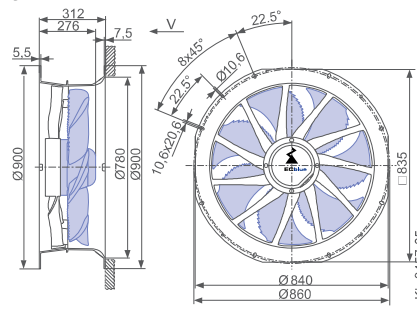
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

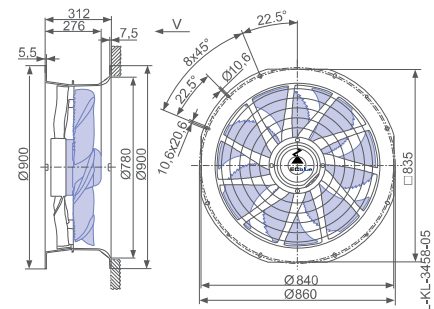


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level L_{WA5} dB(A)
		n min ⁻¹		I A	P_{sys} W	
ZN071-ZL_GG.V7P4	I	1150	①	2.40	1550	
			②	2.80	1850	86
			③	2.10	1350	81
	II	920	④	2.20	1400	
			⑤	1.55	940	80
			⑥	1.20	700	75
	III	690	⑦	1.10	600	
			⑧	0.84	420	72
			⑨	0.70	310	66
	IV	460	⑩	0.52	200	
			⑪	0.42	140	61
			⑫	0.37	110	57

Current values determined at 400V

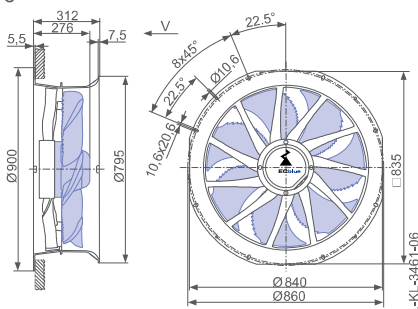
Fan ordering information

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-ZIL.GG.V7P4	ZN071-ZIL.GG.V7P4	ZN071-ZIL.GG.V7P4	ZN071-ZIH.GG.V7P4	ZN071-ZIH.GG.V7P4
Article no.	170410	170345	170346	170408	170409
Weight kg	33.40	30.80	32.00	29.90	31.10
ZAplus attachable on both sides.					

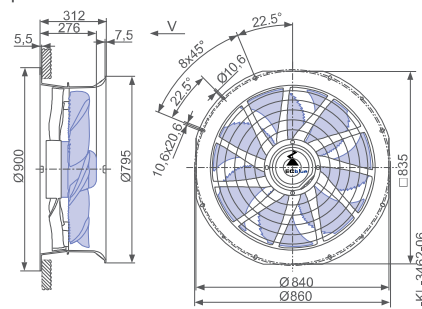
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

Design H - ZAplus Flattop, without guard grille



Design H - ZAplus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 380-480 V

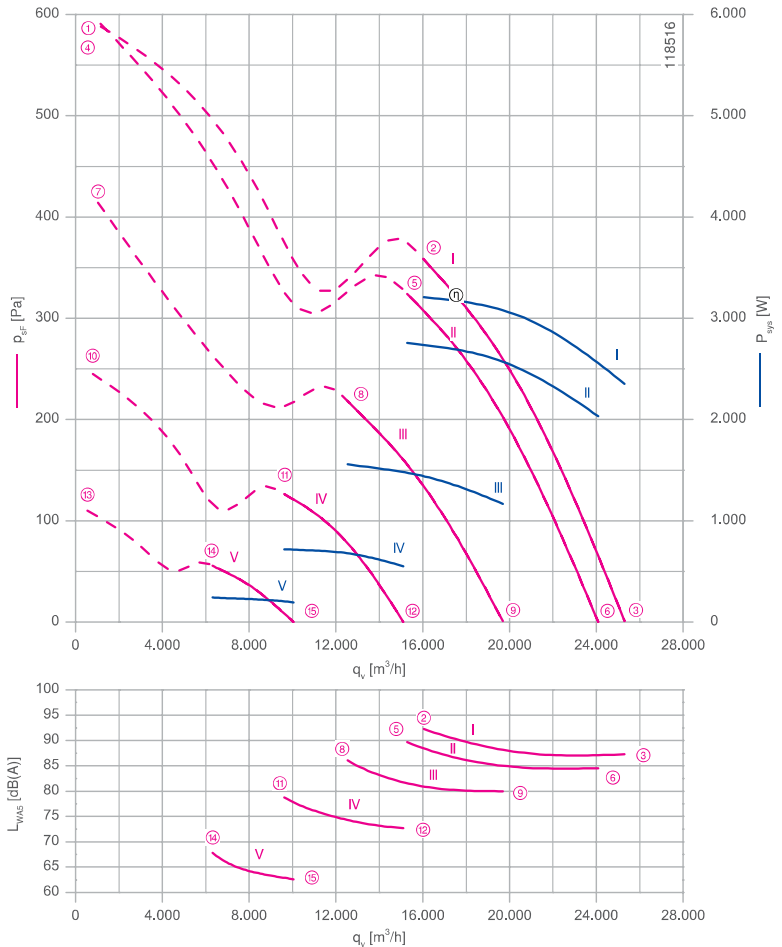
ZN071



Description

Motor technology: EC
 Rated voltage U_N : 3- 380-480 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 3.20 kW*
 Rated current I_N : 5.20- 4.00 A*
 Rated speed n_N : 1400 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 55 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: Aluminium, uncoated
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{stat}^A : 54.4 %
 Efficiency: $N_{actual} = 57.6 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

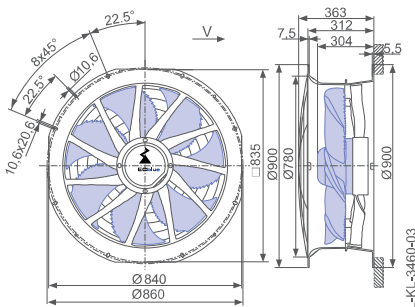
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

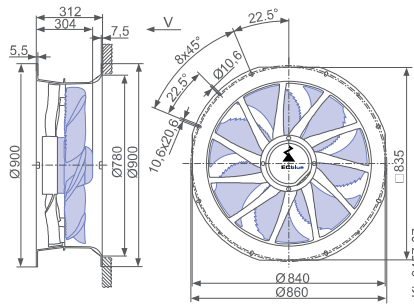
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

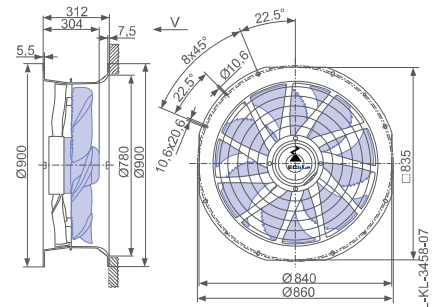


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed n min ⁻¹	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature t _R °C
				I A	P _{sys} W	L _{WA5} dB(A)	
ZN071-ZL_GL.V7P4	I	1400	①	6.00	3900		55
			②	4.80	3200	93	
			③	3.60	2400	87	
	II	1330	④	1.25	3900		60
			⑤	2.40	2800	90	
			⑥	1.85	2000	85	
	III	1100	⑦	0.60	2300		
			⑧	0.54	1550	86	
			⑨	1.25	1150	80	
	IV	840	⑩	4.20	1050		
			⑪	3.10	720	79	
			⑫	0.60	560	73	
	V	560	⑬	6.00	350		
			⑭	4.20	240	68	
			⑮	4.20	200	63	

Current values determined at 400V

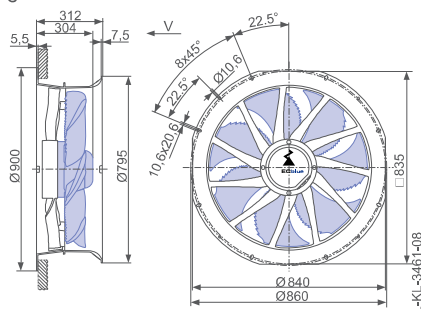
Fan ordering information

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-ZIL.GL.V7P4	ZN071-ZIL.GL.V7P4	ZN071-ZIL.GL.V7P4	ZN071-ZIH.GL.V7P4	ZN071-ZIH.GL.V7P4
Article no.	170426	170349	170350	170424	170425
Weight kg	37.80	35.20	36.40	34.30	35.50
ZPlus attachable on both sides.					

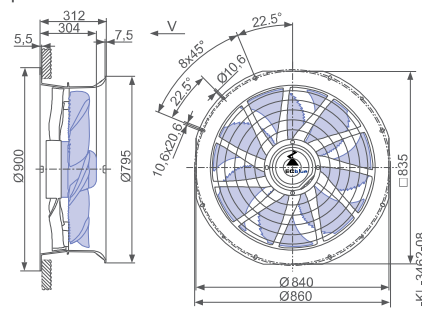
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

Design H - ZPlus Flattop, without guard grille



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for single phase alternating current, 200-277 V

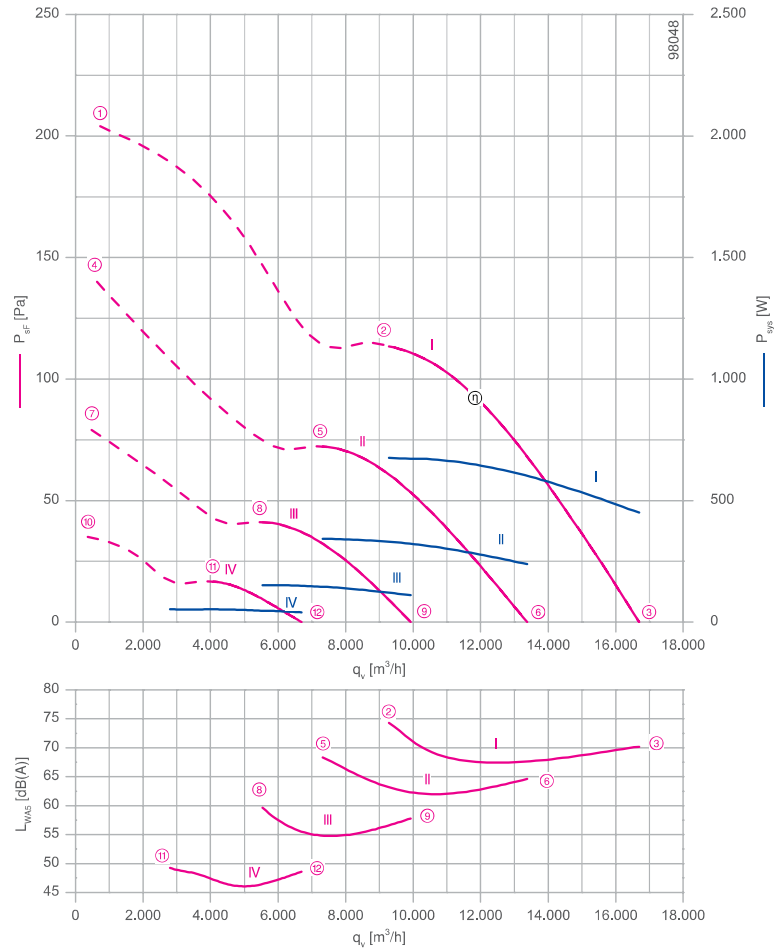
ZN080



Description

Motor technology: EC
 Rated voltage U_N : 1~ 200-277 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 0.70 kW*
 Rated current I_N : 3.60- 2.60 A*
 Rated speed n_N : 650 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 55 °C
 Electrical connection: integrated Controller
 Number of blades: 5
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: High Performance Composite Material, uncoated, black
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 53.5 %
 Efficiency: $N_{actual} = 61.0 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

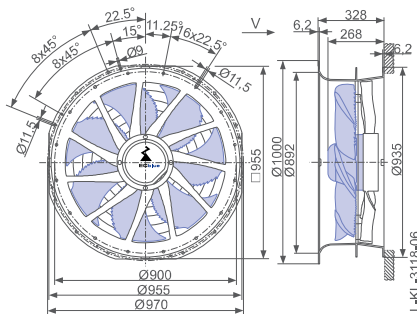
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

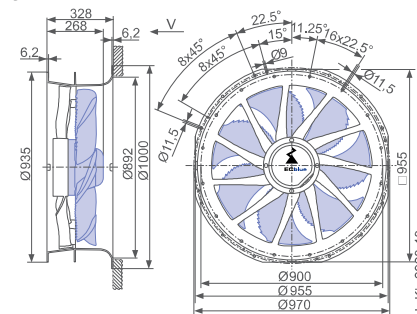
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

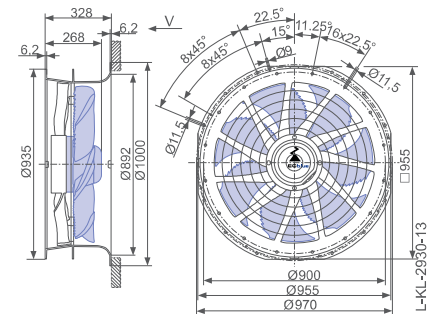


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)	
ZN080-ZL_DG.V5P4	I	650	①	4.40	960		55
			②	3.10	680	75	
			③	2.10	440	70	
	II	520	④	2.50	540		60
			⑤	1.65	340	69	
			⑥	1.15	240	65	
	III	390	⑦	1.10	230		
			⑧	0.72	150	60	
			⑨	0.56	110	58	
	IV	260	⑩	0.42	75		
			⑪	0.33	55	49	
			⑫	0.42	40	49	

Current values determined at 230V

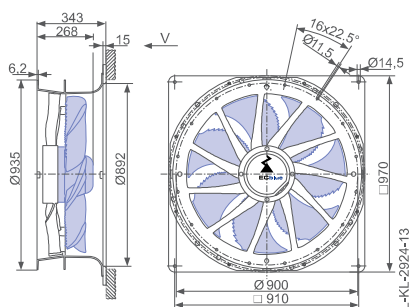
Fan ordering information

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	ZN080-ZIL.DG.V5P4	ZN080-ZIL.DG.V5P4	ZN080-ZIL.DG.V5P4	ZN080-ZIQ.DG.V5P4	ZN080-ZIQ.DG.V5P4	ZN080-ZIH.DG.V5P4
Article no.	169895	161467	161469	161397	161395	162219
Weight kg	26.40	23.60	26.00	26.70	28.20	24.30
ZPlus attachable on both sides.						

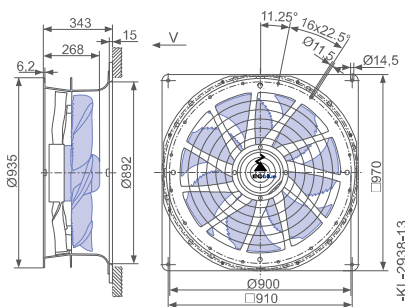
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

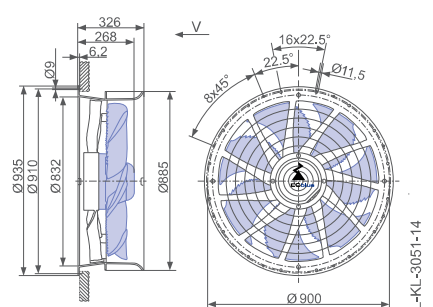
Design Q - ZPlus with adapter plate, without guard grille



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



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 200-240 V

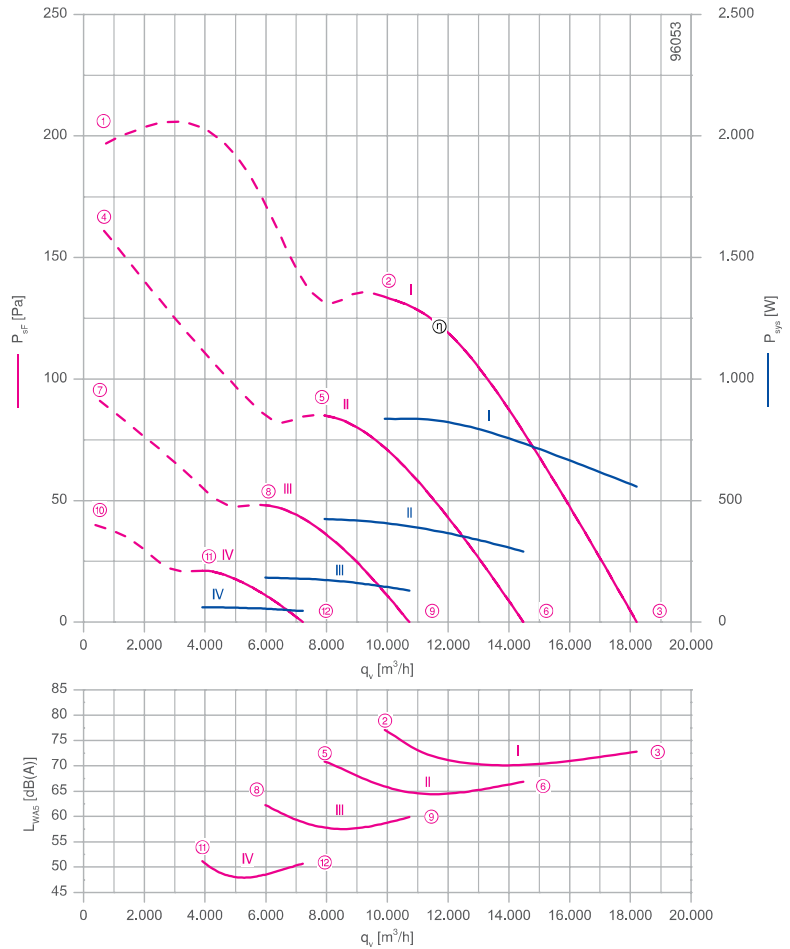
ZN080



Description

- Motor technology: EC
- Rated voltage U: **3~ 200-240 V***
- Rated frequency f: **50/60 Hz***
- Motor input power P_{sys} : **0.86 kW***
- Rated current I: **2.80- 2.30 A***
- Rated speed n_{max} : **700 Min⁻¹***
- Thermal class: **THCL155***
- Min. permitted conveyor temperature $t_{R(min)}$: **-35 °C**
- Max. permitted conveyor temperature $t_{R(max)}$: **45 °C**
- Electrical connection: integrated Controller
- Number of blades: 5
- Protection class: IP54
- Motor protection: Integrated active temperature management
- Blades: High Performance Composite Material, uncoated, black
- Rotor: Steel, 2 coat paint, ultramarine blue
- Conformity: ErP 2015, CE, UL
- ErP-data**
- Efficiency η_{statA} : **54.5 %**
- Efficiency: $N_{actual} = 61.3 / N_{target} = 40^{**}$
- EC controller integrated
- * Rated data
- **ErP 2015

Characteristic curve



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

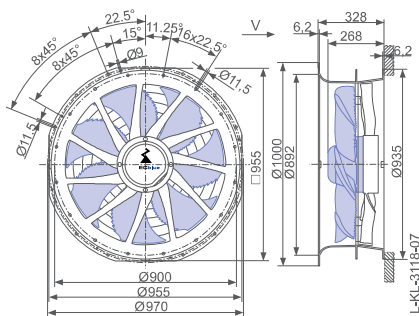
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

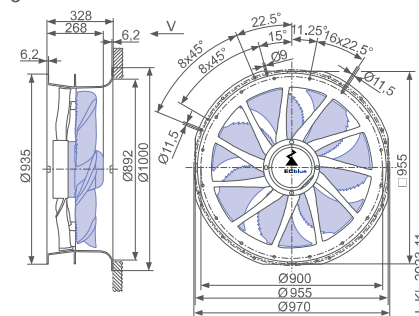
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

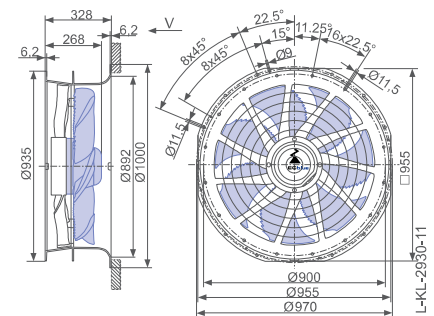


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)	
ZN080-ZL_DG.V5P4	I	700	①	2.60	900		45
			②	2.40	840	77	
			③	1.60	560	73	
	II	560	④	1.90	660		60
			⑤	1.25	420	71	
			⑥	0.88	290	67	
	III	420	⑦	0.86	280		
			⑧	0.58	180	63	
			⑨	0.44	130	60	
	IV	280	⑩	0.32	90		
			⑪	0.24	60	51	
			⑫	0.20	46	51	

Current values determined at 230V

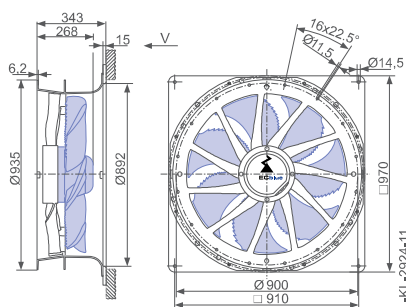
Fan ordering information

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	ZN080-ZIL.DG.V5P4	ZN080-ZIL.DG.V5P4	ZN080-ZIL.DG.V5P4	ZN080-ZIQ.DG.V5P4	ZN080-ZIQ.DG.V5P4	ZN080-ZIH.DG.V5P4
Article no.	169894	161463	161465	161387	161385	162215
Weight kg	26.40	23.60	26.00	26.70	28.20	24.30
ZPlus attachable on both sides.						

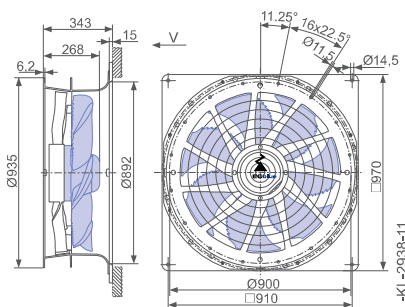
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

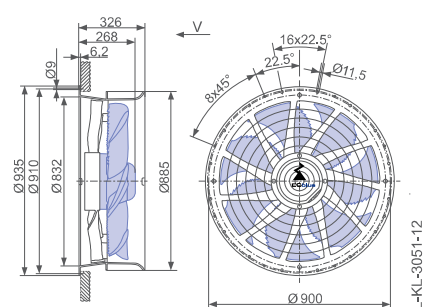
Design Q - ZPlus with adapter plate, without guard grille



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



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 200-240 V

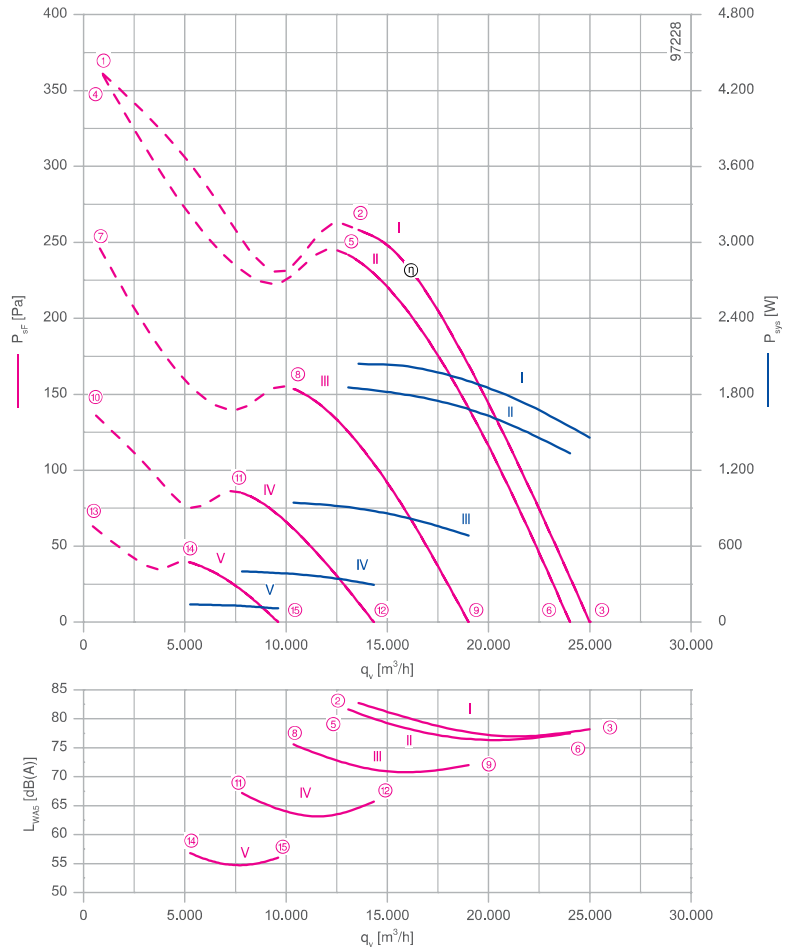
ZN080



Description

Motor technology: EC
 Rated voltage U_N : 3- 200-240 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 2.10 kW*
 Rated current I_N : 6.20- 5.20 A*
 Rated speed n_N : 970 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 50 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: Aluminium, uncoated
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{stat}^A : 55.9 %
 Efficiency: $N_{actual} = 60.3 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

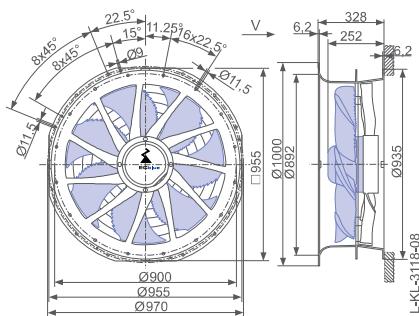
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

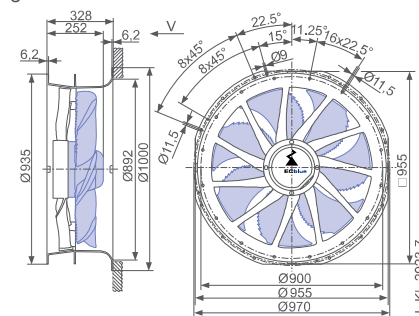
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

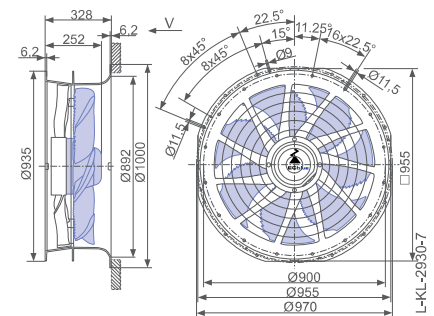


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)	
ZN080-ZL_GG.V7P3	I	970	①	6.40	2400		50
			②	5.40	2000	83	
			③	3.80	1450	78	
	II	940	④	6.40	2400		55
			⑤	4.80	1850	82	
			⑥	3.50	1350	78	
	III	750	⑦	3.50	1350		60
			⑧	2.50	940	76	
			⑨	1.85	680	72	
	IV	560	⑩	1.50	560		
			⑪	1.10	400	67	
			⑫	0.86	290	66	
	V	380	⑬	0.60	190		
			⑭	0.50	140	57	
			⑮	0.44	110	56	

Current values determined at 230V

Fan ordering information

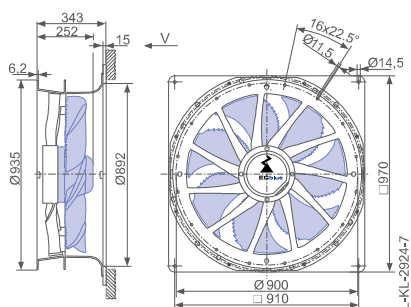
Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type Article no.	ZN080-ZIL.GG.V7P3 169893	ZN080-ZIL.GG.V7P3 161513	ZN080-ZIL.GG.V7P3 161515	ZN080-ZIQ.GG.V7P3 161521	ZN080-ZIQ.GG.V7P3 161519	ZN080-ZIH.GG.V7P3 162235
Weight kg	39.70	37.00	38.50	40.10	41.60	36.80

ZPlus attachable on both sides.

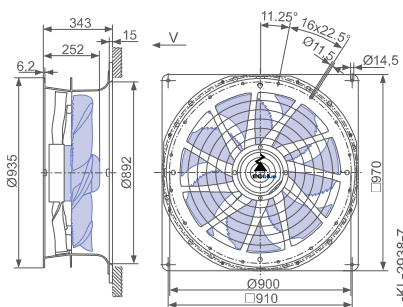
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

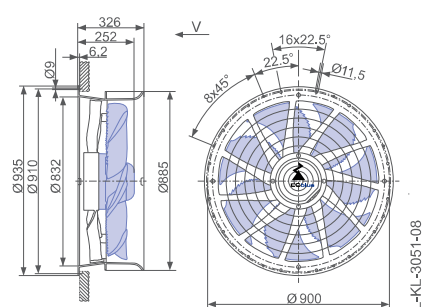
Design Q - ZPlus with adapter plate, without guard grille



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



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 200-240 V

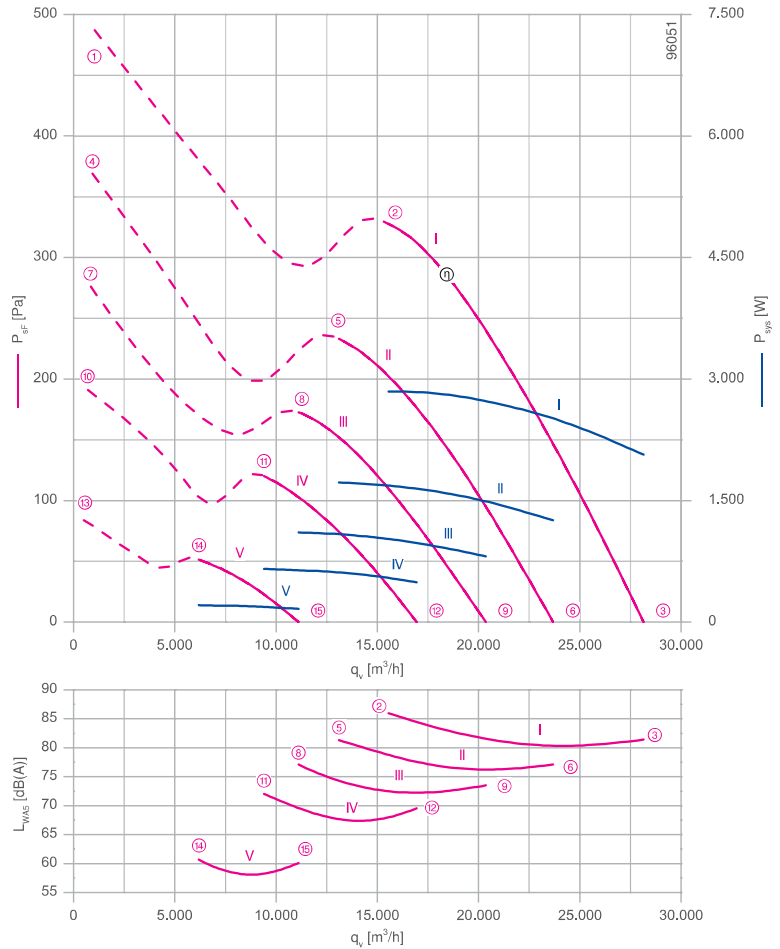
ZN080



Description

Motor technology: EC
 Rated voltage U: 3~ 200-240 V*
 Rated frequency f: 50/60 Hz*
 Motor input power P_{sys} : 2.90 kW*
 Rated current I: 8.60- 7.20 A*
 Rated speed n_{max} : 1100 Min⁻¹*
 Thermal class: THCL155*
 Min. permitted conveyor temperature $t_{R(min)}$: -35 °C
 Max. permitted conveyor temperature $t_{R(max)}$: 40 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: Aluminium, uncoated
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 55.8 %
 Efficiency: $N_{actual} = 59.3 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

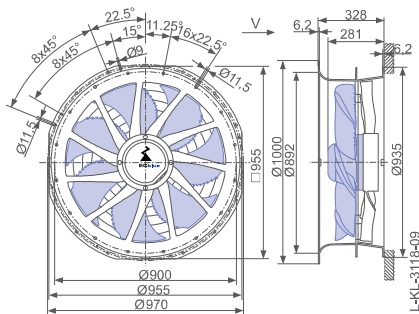
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

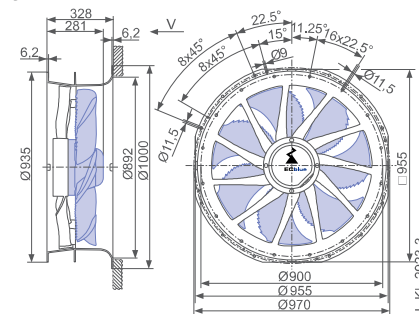
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

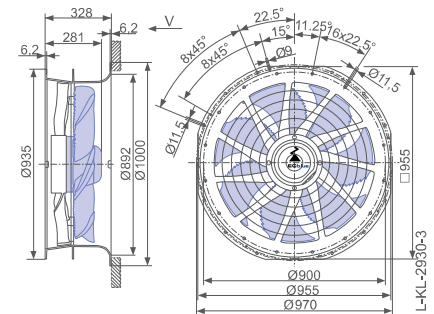


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)	
ZN080-ZL_GL.V7P3	I	1100	①	9.80	3700		40
			②	7.60	2800	86	
			③	5.40	2100	81	
	II	930	④	6.40	2400		60
			⑤	4.60	1700	82	
			⑥	3.30	1250	77	
	III	800	⑦	4.20	1550		
			⑧	2.90	1100	77	
			⑨	2.20	820	74	
	IV	670	⑩	2.40	920		
			⑪	1.80	660	72	
			⑫	1.35	500	70	
	V	440	⑬	0.84	280		
			⑭	0.66	210	61	
			⑮	0.54	160	60	

Current values determined at 230V

Fan ordering information

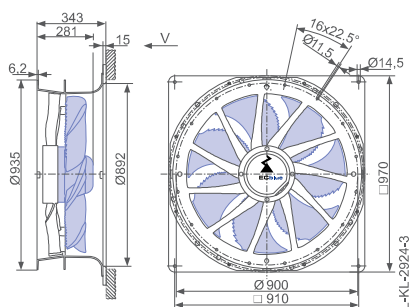
Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type Article no.	ZN080-ZIL.GL.V7P3 169892	ZN080-ZIL.GL.V7P3 161475	ZN080-ZIL.GL.V7P3 161477	ZN080-ZIQ.GL.V7P3 161417	ZN080-ZIQ.GL.V7P3 161415	ZN080-ZIH.GL.V7P3 162227
Weight kg	43.90	41.20	42.70	44.30	45.80	41.00

ZPlus attachable on both sides.

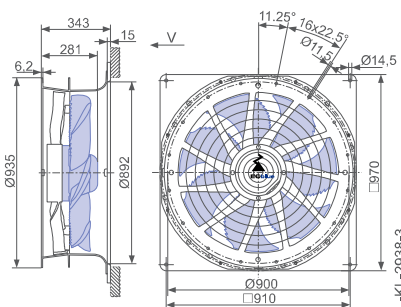
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

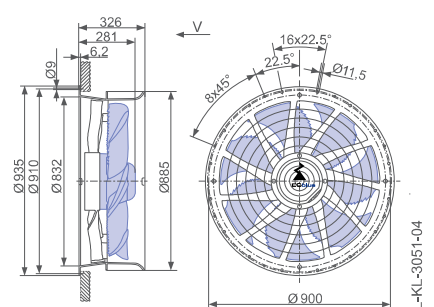
Design Q - ZPlus with adapter plate, without guard grille



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



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 380-480 V

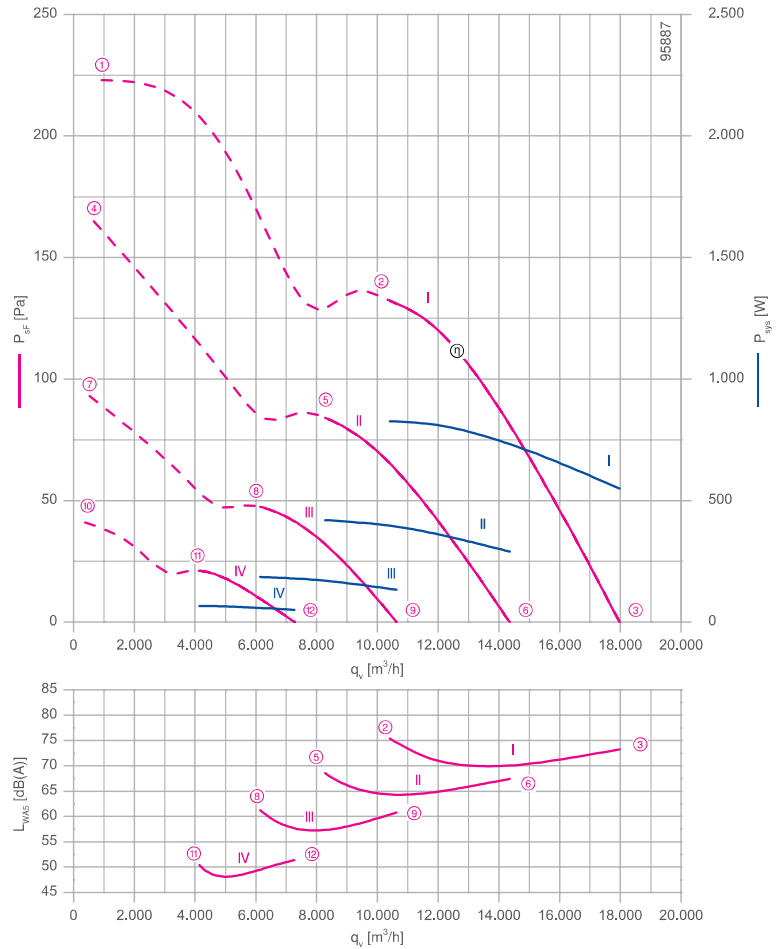
ZN080



Description

Motor technology: EC
 Rated voltage U: 3~ 380-480 V*
 Rated frequency f: 50/60 Hz*
 Motor input power P_{sys} : 0.84 kW*
 Rated current I: 1.45- 1.15 A*
 Rated speed n_{max} : 700 Min⁻¹*
 Thermal class: THCL155*
 Min. permitted conveyor temperature $t_{R(min)}$: -35 °C
 Max. permitted conveyor temperature $t_{R(max)}$: 55 °C
 Electrical connection: integrated Controller
 Number of blades: 5
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: High Performance Composite Material, uncoated, black
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 55.3 %
 Efficiency: $N_{actual} = 62.3 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

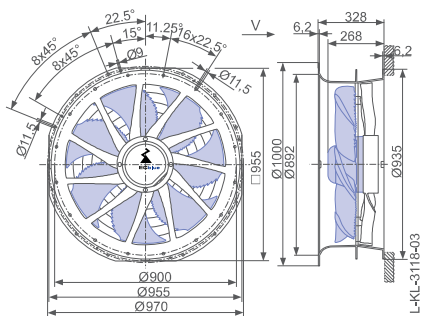
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

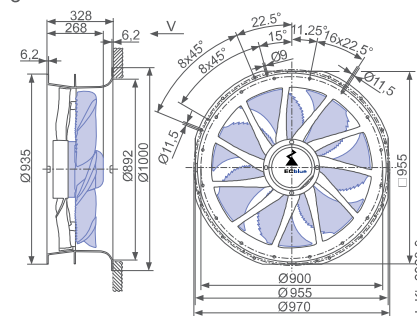
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

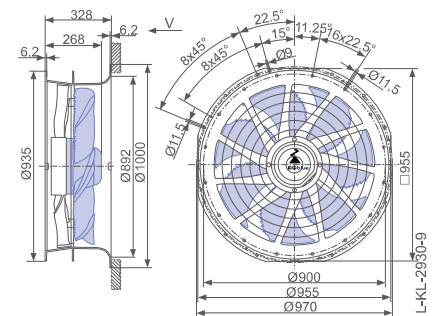


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)	
ZN080-ZL_DG_5P4	I	700	①	1.70	1100		55
			②	1.35	820	76	
			③	0.98	540	73	
	II	560	④	1.15	660		60
			⑤	0.84	420	69	
			⑥	0.64	290	67	
	III	420	⑦	0.66	280		
			⑧	0.50	180	61	
			⑨	0.40	130	61	
	IV	280	⑩	0.33	95		
			⑪	0.27	65	51	
			⑫	0.23	50	51	

Current values determined at 400V

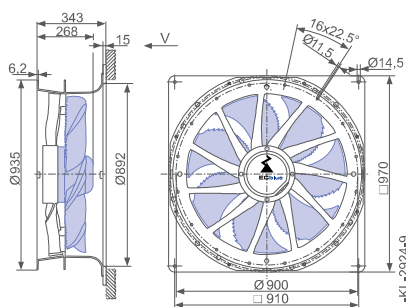
Fan ordering information

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	ZN080-ZIL.DG.V5P4	ZN080-ZIL.DG.V5P4	ZN080-ZIL.DG.V5P4	ZN080-ZIQ.DG.V5P4	ZN080-ZIQ.DG.V5P4	ZN080-ZIH.DG.V5P4
Article no.	165319	161459	161461	160026	160024	162211
Weight kg	26.40	23.60	26.00	26.70	28.20	24.30
ZPlus attachable on both sides.						

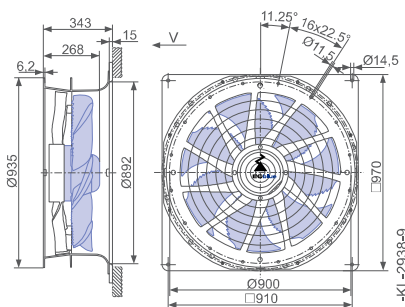
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

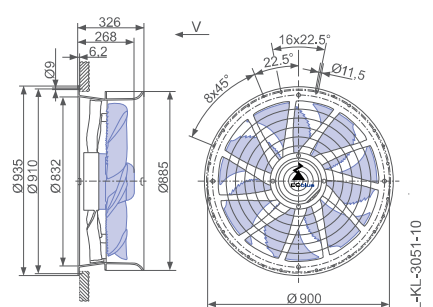
Design Q - ZPlus with adapter plate, without guard grille



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



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 380-480 V

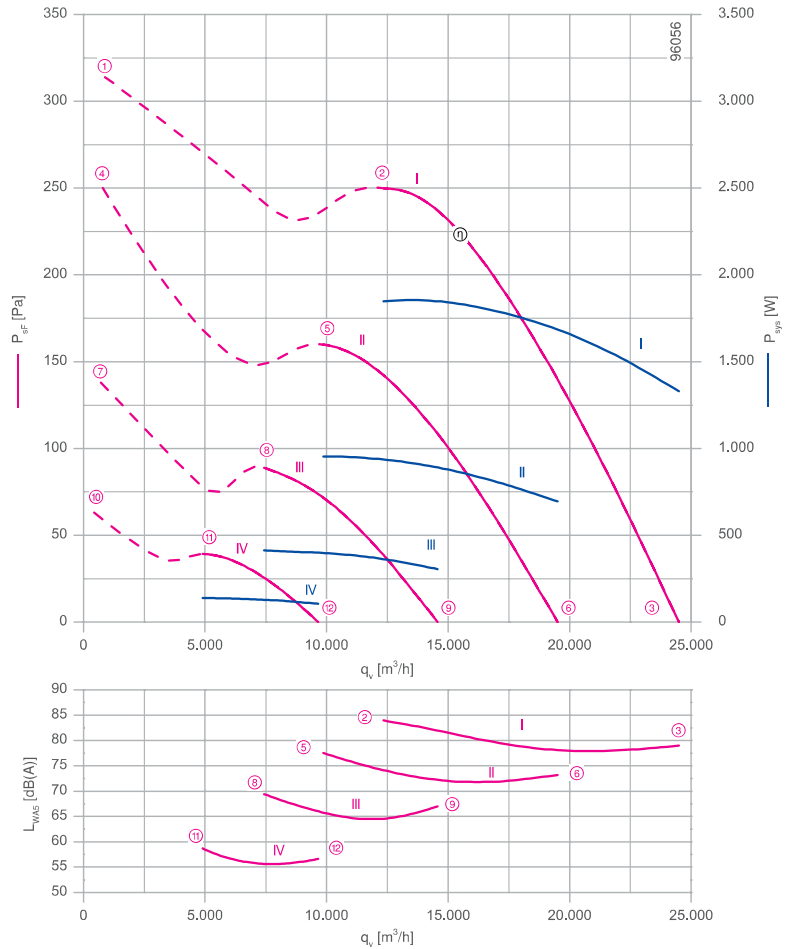
ZN080



Description

Motor technology: EC
 Rated voltage U: 3~ 380-480 V*
 Rated frequency f: 50/60 Hz*
 Motor input power P_{sys} : 1.85 kW*
 Rated current I: 3.00- 2.40 A*
 Rated speed n_{max} : 950 Min⁻¹*
 Thermal class: THCL155*
 Min. permitted conveyor temperature $t_{R(min)}$: -35 °C
 Max. permitted conveyor temperature $t_{R(max)}$: 60 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: Aluminium, uncoated
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 57.4 %
 Efficiency: $N_{actual} = 62.1 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

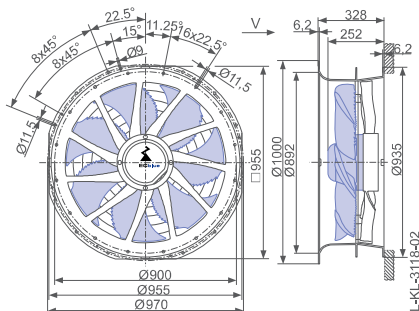
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

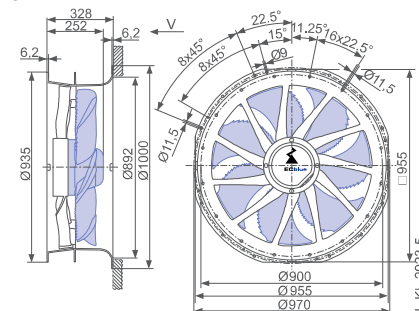
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

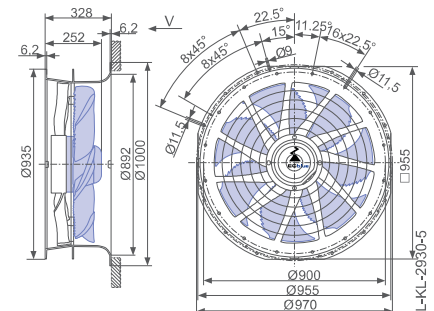


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level L_{WA5} dB(A)
		n min ⁻¹		I A	P_{sys} W	
ZN080-ZI_GG.V7P3	I	950	①	2.90	1900	
			②	2.80	1850	84
			③	2.10	1350	79
	II	760	④	2.10	1350	
			⑤	1.55	960	78
			⑥	1.20	700	73
	III	570	⑦	1.00	560	
			⑧	0.82	420	70
			⑨	0.68	300	67
	IV	380	⑩	0.50	180	
			⑪	0.42	140	59
			⑫	0.35	110	57

Current values determined at 400V

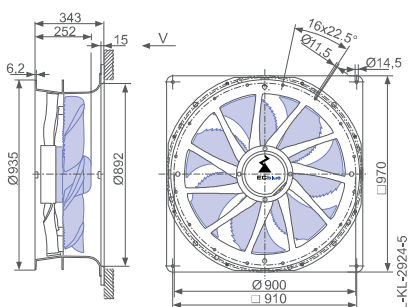
Fan ordering information

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	ZN080-ZIL.GG.V7P3	ZN080-ZIL.GG.V7P3	ZN080-ZIL.GG.V7P3	ZN080-ZIQ.GG.V7P3	ZN080-ZIQ.GG.V7P3	ZN080-ZIH.GG.V7P3
Article no.	165321	161493	161495	161501	161499	162231
Weight kg	39.70	37.00	38.50	40.10	41.60	36.80
ZPlus attachable on both sides.						

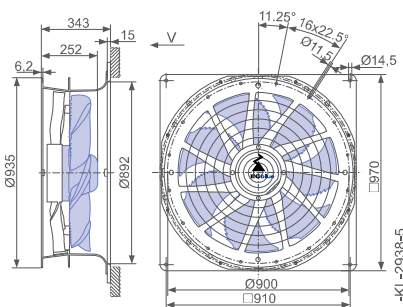
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

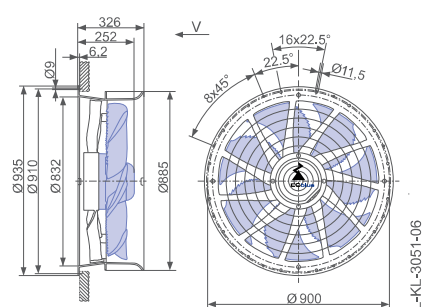
Design Q - ZPlus with adapter plate, without guard grille



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



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 380-480 V

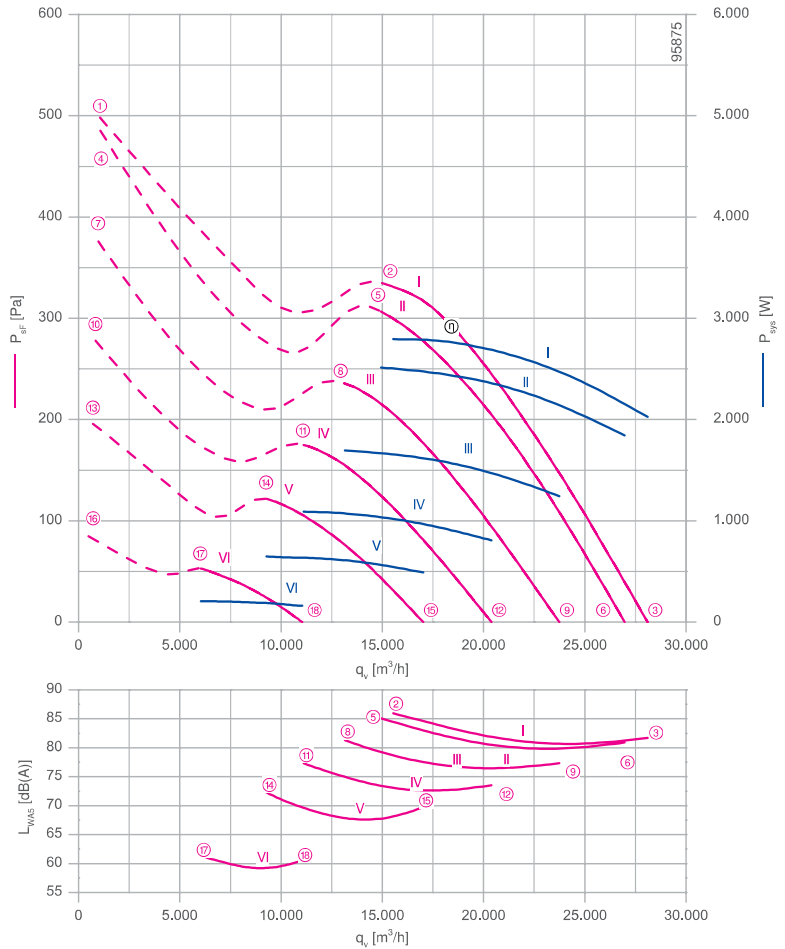
ZN080



Description

Motor technology: EC
 Rated voltage U_N : 3- 380-480 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 2.80 kW*
 Rated current I_N : 4.40- 3.50 A*
 Rated speed n_N : 1100 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 55 °C
 Electrical connection: integrated Controller
 Number of blades: 7
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: Aluminium, uncoated
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 58.0 %
 Efficiency: $N_{actual} = 61.6 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

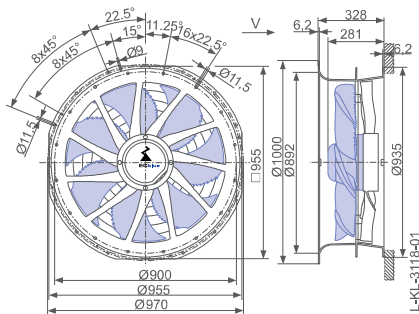
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

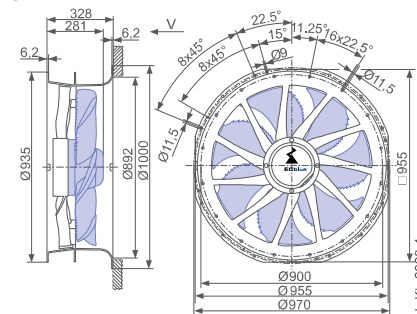
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

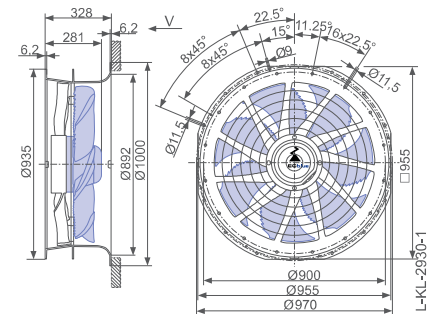


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)	
ZN080-ZL_GL.V7P3	I	1100	①	5.60	3700		55
			②	4.20	2800	86	
			③	3.10	2000	82	
	II	1060	④	5.40	3600		60
			⑤	3.80	2500	85	
			⑥	2.80	1850	81	
	III	930	⑦	3.70	2400		
			⑧	2.60	1700	81	
			⑨	1.95	1250	77	
	IV	800	⑩	2.40	1550		
			⑪	1.75	1100	77	
			⑫	1.35	800	74	
	V	670	⑬	1.50	920		
			⑭	1.15	640	72	
			⑮	0.90	500	70	
	VI	440	⑯	0.64	280		
			⑰	0.52	210	61	
			⑱	0.44	160	61	

Current values determined at 400V

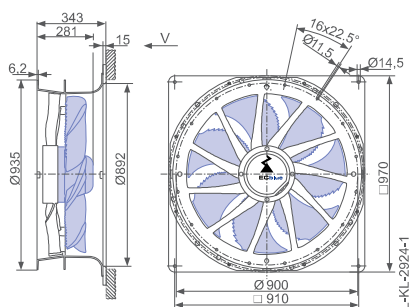
Fan ordering information

Design	Airflow direction →		← Airflow direction			
	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-ZIL.GL.V7P3	ZN080-ZIL.GL.V7P3	ZN080-ZIL.GL.V7P3	ZN080-ZIQ.GL.V7P3	ZN080-ZIQ.GL.V7P3	ZN080-ZIH.GL.V7P3
Article no.	165320	161471	161473	161407	161405	162223
Weight kg	43.90	41.20	42.70	44.30	45.80	41.00
	ZAplus attachable on both sides.					

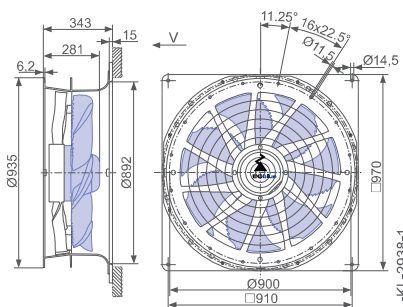
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

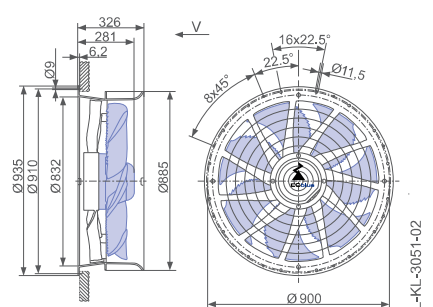
Design Q - ZAplus with adapter plate, without guard grille



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



Design H - ZAplus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for single phase alternating current, 200-277 V

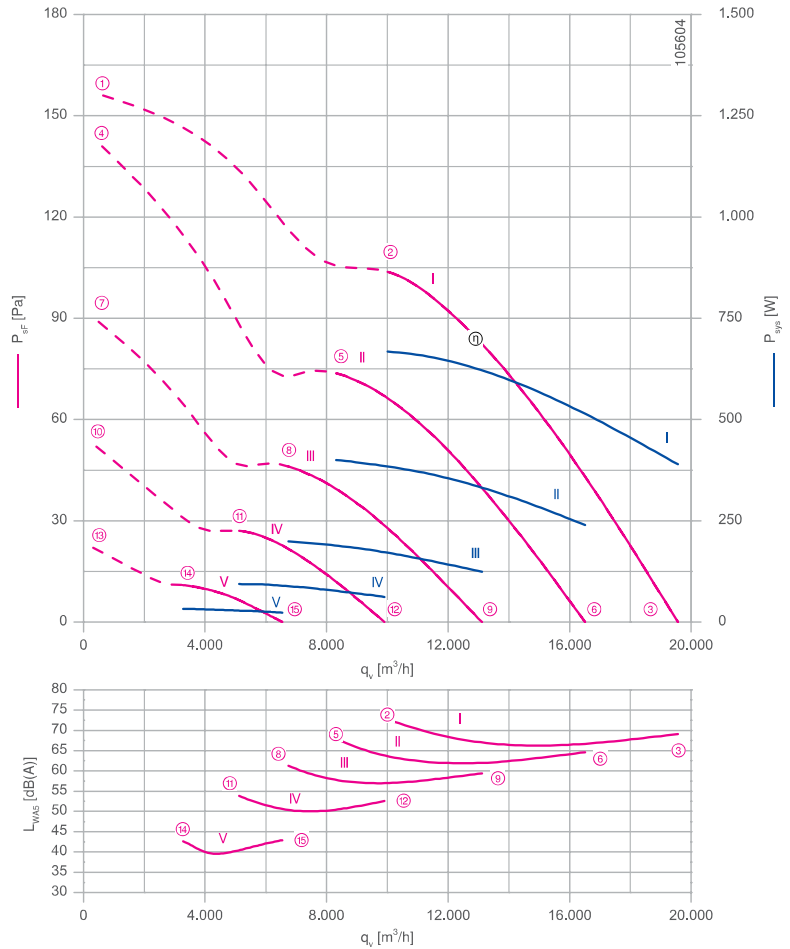
ZN091



Description

Motor technology: EC
 Rated voltage U_N : 1~ 200-277 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 0.68 kW*
 Rated current I_N : 3.50- 2.50 A*
 Rated speed n_N : 570 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 45 °C
 Electrical connection: integrated Controller
 Number of blades: 4
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: High Performance Composite Material, uncoated
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 54.6 %
 Efficiency: $N_{actual} = 62.2 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

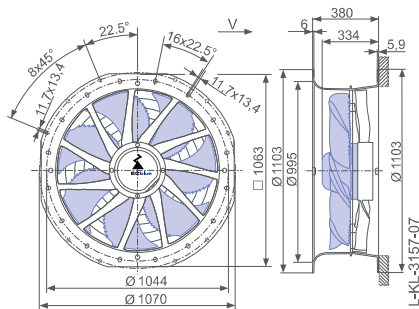
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

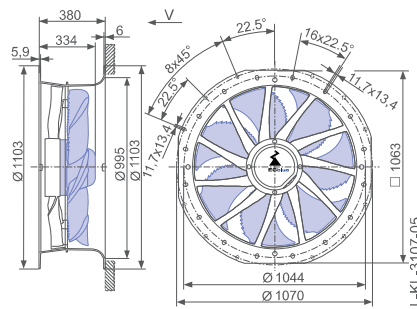
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

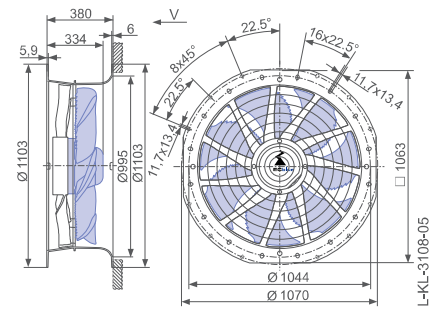


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)	
ZN091-ZL_DG.V4P3	I	570	①	3.70	820		45
			②	3.00	660	73	
			③	1.80	390	69	
	II	480	④	3.20	700		60
			⑤	1.85	400	67	
			⑥	1.15	240	65	
	III	380	⑦	1.55	340		
			⑧	0.96	200	62	
			⑨	0.62	120	59	
	IV	290	⑩	0.74	150		
			⑪	0.48	95	54	
			⑫	0.37	60	53	
	V	190	⑬	0.42	48		
			⑭	0.37	32	43	
			⑮	0.34	24	43	

Current values determined at 230V

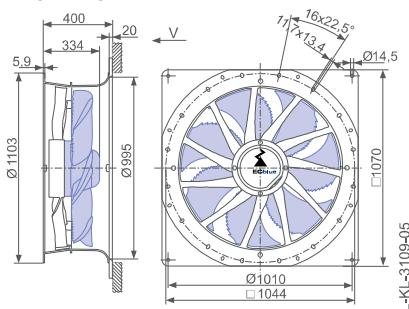
Fan ordering information

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 Article no.	ZN091-ZIL.DG.V4P3 169898	ZN091-ZIL.DG.V4P3 164945	ZN091-ZIL.DG.V4P3 164947	ZN091-ZIQ.DG.V4P3 164951	ZN091-ZIQ.DG.V4P3 164953	ZN091-ZIH.DG.V4P3 164961
Weight kg	31.40	27.60	29.50	31.50	33.40	29.50

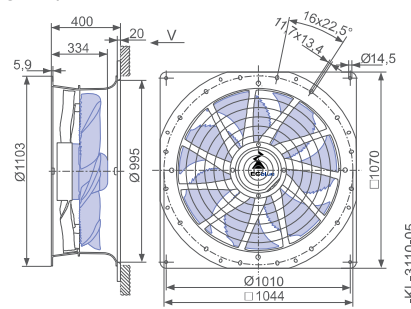
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

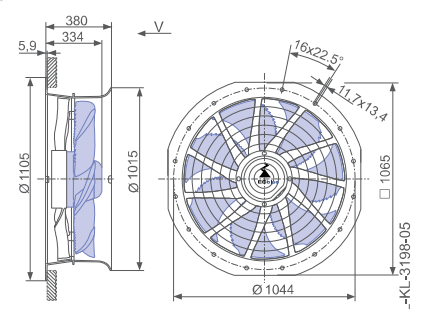
Design Q - ZPlus with adapter plate, without guard grille



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



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 200-240 V

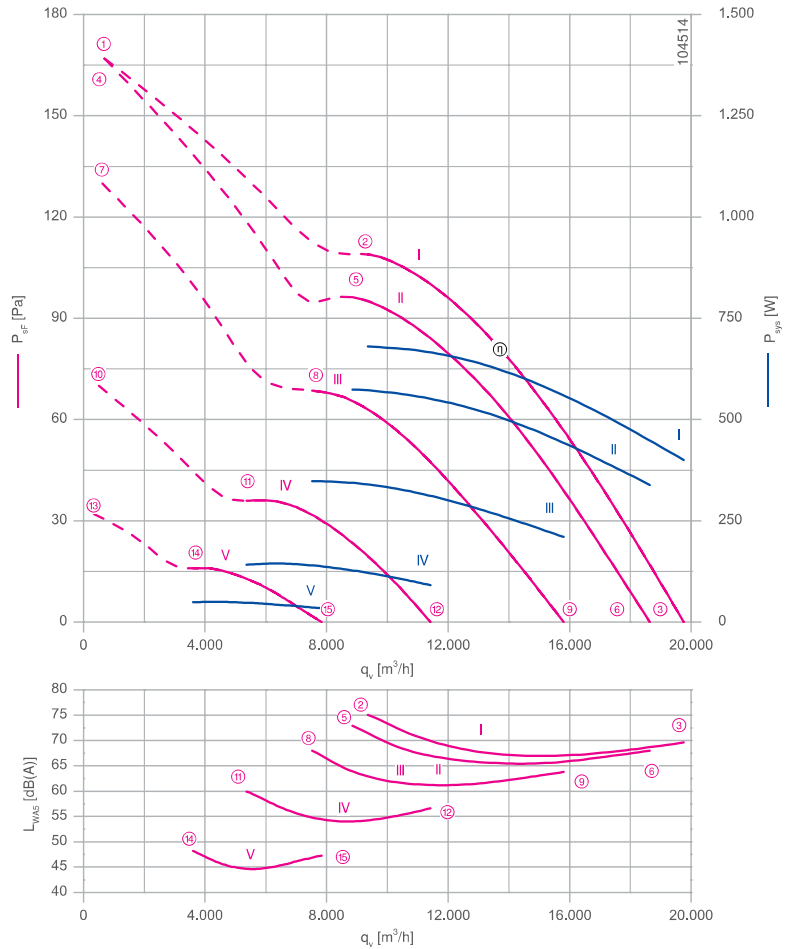
ZN091



Description

Motor technology: EC
 Rated voltage U_N : 3~ 200-240 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 0.68 kW*
 Rated current I_N : 2.10- 1.80 A*
 Rated speed n_N : 570 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 55 °C
 Electrical connection: integrated Controller
 Number of blades: 4
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: High Performance Composite Material, uncoated
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 56.0 %
 Efficiency: $N_{actual} = 63.7 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

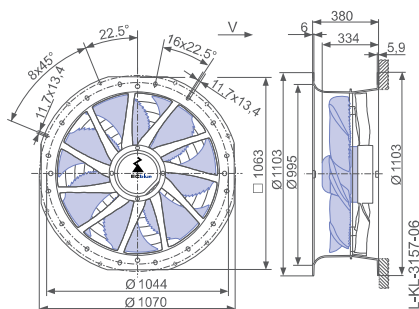
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

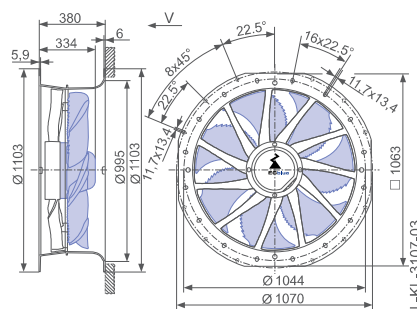
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

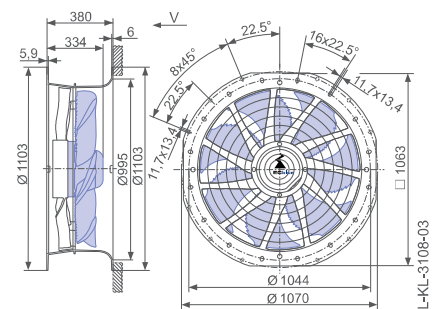


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)	
ZN091-ZL_DG.V4P3	I	570	①	2.40	900		55
			②	1.85	680	75	
			③	1.15	400	70	
	II	540	④	2.40	900		60
			⑤	1.60	580	73	
			⑥	1.00	340	68	
	III	460	⑦	1.65	600		
			⑧	1.00	350	68	
			⑨	0.68	210	64	
	IV	340	⑩	0.76	240		
			⑪	0.52	140	60	
			⑫	0.37	90	57	
	V	230	⑬	0.34	80		
			⑭	0.26	50	48	
			⑮	0.21	34	47	

Current values determined at 230V

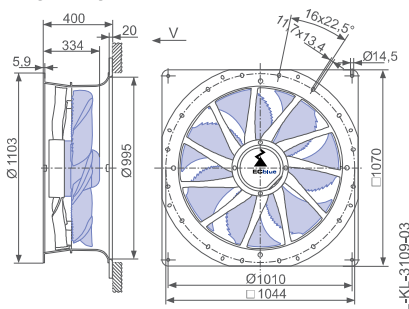
Fan ordering information

Design	Airflow direction		Airflow direction			
	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 Article no.	ZN091-ZIL.DG.V4P3 169897	ZN091-ZIL.DG.V4P3 164927	ZN091-ZIL.DG.V4P3 164929	ZN091-ZIQ.DG.V4P3 164933	ZN091-ZIQ.DG.V4P3 164935	ZN091-ZIH.DG.V4P3 164943
Weight kg	31.40	27.60	29.50	31.50	33.40	29.50
ZPlus attachable on both sides.						

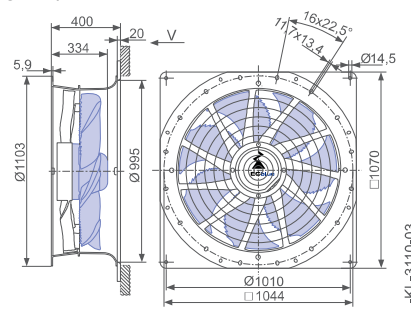
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

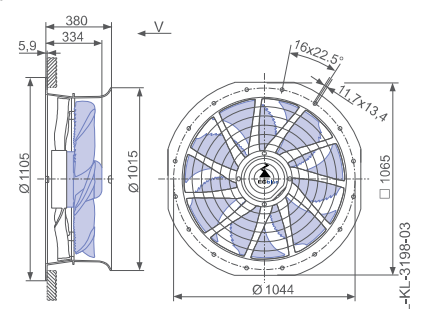
Design Q - ZPlus with adapter plate, without guard grille



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



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 200-240 V

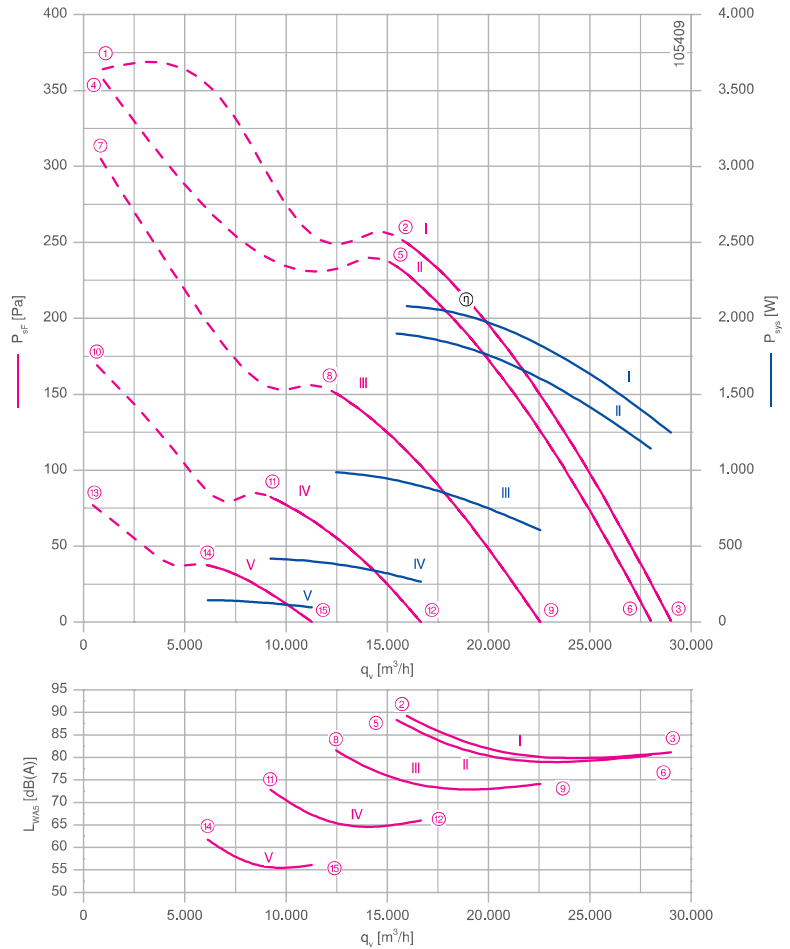
ZN09 1



Description

Motor technology: EC
 Rated voltage U_N : 3- 200-240 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 2.10 kW*
 Rated current I_N : 6.40- 5.40 A*
 Rated speed n_N : 950 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 55 °C
 Electrical connection: integrated Controller
 Number of blades: 5
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: Aluminium, uncoated
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 60.8 %
 Efficiency: $N_{actual} = 65.2 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

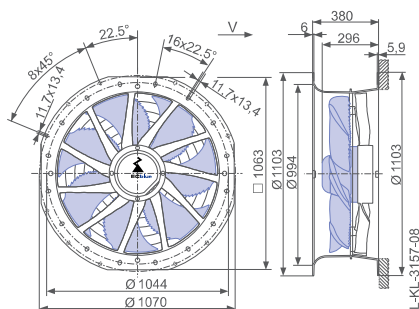
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

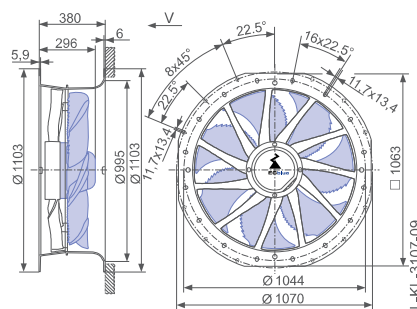
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

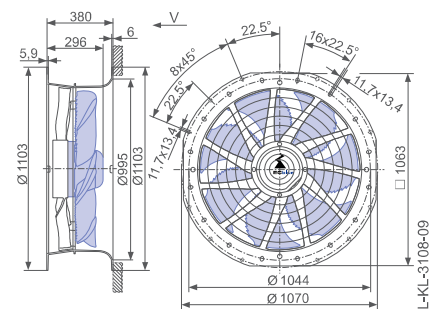


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)	
ZN091-ZL_GG.V5P1	I	950	①	6.40	2400		55
			②	5.60	2100	89	
			③	3.30	1250	81	
	II	920	④	6.40	2400		60
			⑤	5.00	1900	88	
			⑥	3.10	1150	81	
	III	740	⑦	4.80	1850		
			⑧	2.60	980	82	
			⑨	1.65	600	74	
	IV	550	⑩	2.00	740		
			⑪	1.20	420	73	
			⑫	0.82	260	66	
	V	370	⑬	0.76	240		
			⑭	0.54	140	62	
			⑮	0.42	95	56	

Current values determined at 230V

Fan ordering information

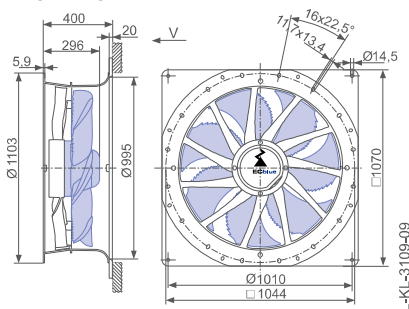
Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type Article no.	ZN091-ZIL.GG.V5P1 169899	ZN091-ZIL.GG.V5P1 164990	ZN091-ZIL.GG.V5P1 164992	ZN091-ZIQ.GG.V5P1 164996	ZN091-ZIQ.GG.V5P1 164998	ZN091-ZIH.GG.V5P1 165006
Weight kg	43.00	39.30	41.20	42.30	44.20	41.20

ZPlus attachable on both sides.

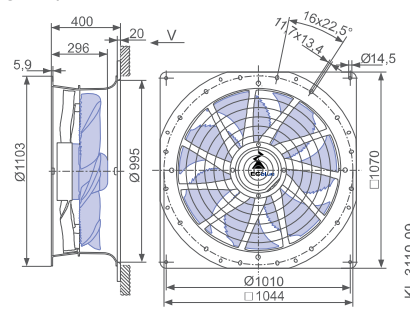
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

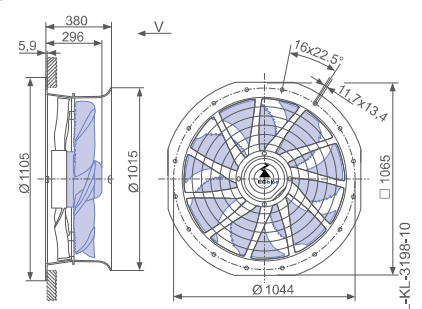
Design Q - ZPlus with adapter plate, without guard grille



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



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 200-240 V

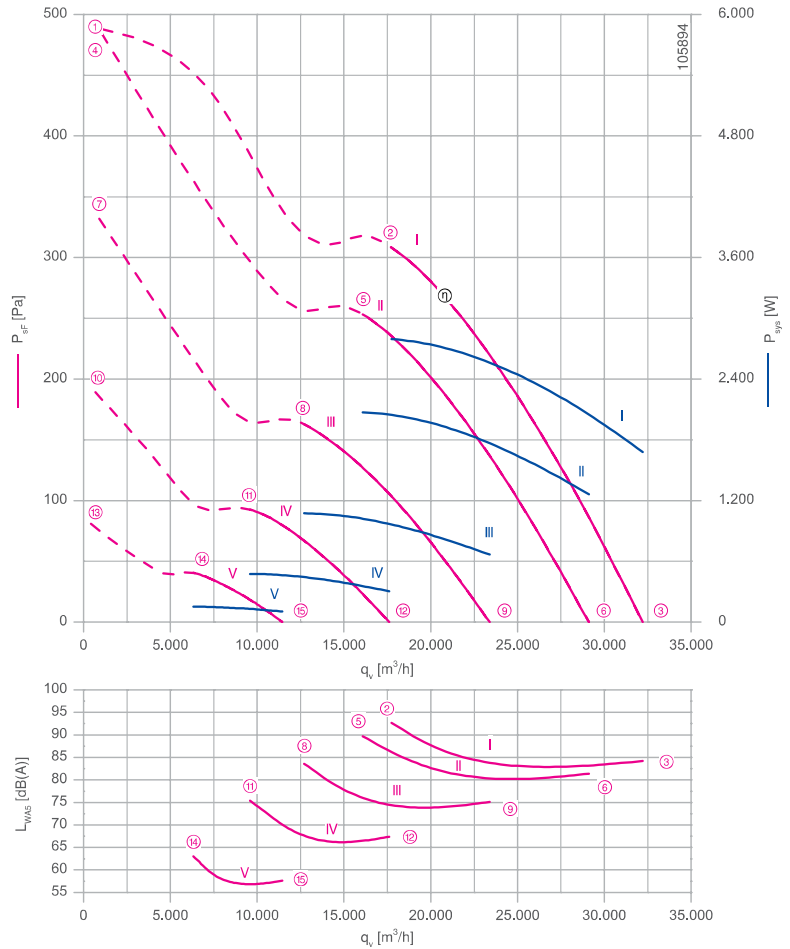
ZN091



Description

Motor technology: EC
 Rated voltage U_N : 3- 200-240 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 2.80 kW*
 Rated current I_N : 8.60- 7.20 A*
 Rated speed n_N : 1060 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 50 °C
 Electrical connection: integrated Controller
 Number of blades: 5
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: Aluminium, uncoated
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 61.9 %
 Efficiency: $N_{actual} = 65,5 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

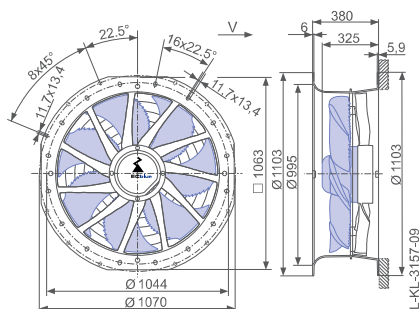
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

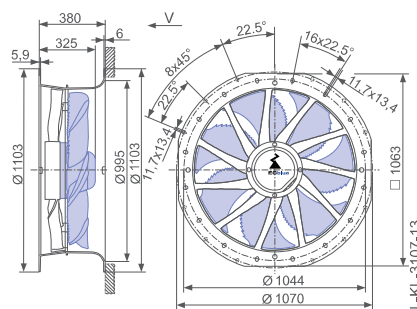
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

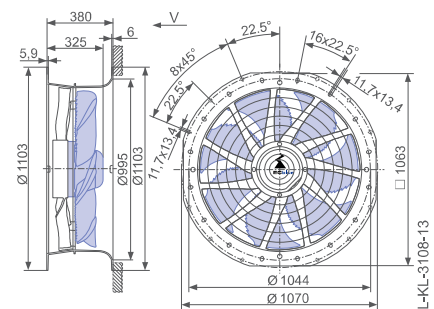


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature			
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)		t _R °C		
ZN091-ZL_GL.V5P1	I	1060	①	9.60	3600		50			
			②	7.40	2800	93				
			③	4.40	1700	84				
	II	960	④	9.40	3600			60		
			⑤	5.60	2100	90				
			⑥	3.40	1250	81				
	III	770	⑦	5.20	2000					
			⑧	2.90	1050	83				
			⑨	1.85	660	75				
	IV	580	⑩	2.30	860					
			⑪	1.35	480	75				
			⑫	0.90	300	67				
	V	380	⑬	0.80	250					
			⑭	0.56	150	63				
			⑮	0.44	100	58				

Current values determined at 230V

Fan ordering information

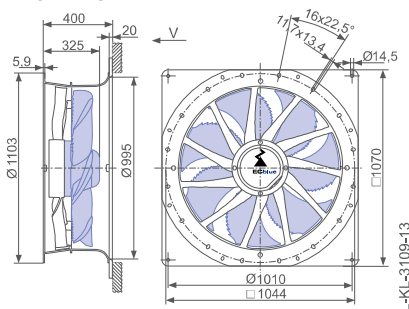
Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type Article no.	ZN091-ZIL.GL.V5P1 169900	ZN091-ZIL.GL.V5P1 165026	ZN091-ZIL.GL.V5P1 165028	ZN091-ZIQ.GL.V5P1 165032	ZN091-ZIQ.GL.V5P1 165034	ZN091-ZIH.GL.V5P1 165042
Weight kg	47.20	43.50	45.40	46.70	48.60	45.40

ZPlus attachable on both sides.

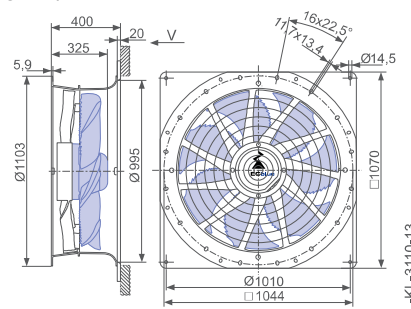
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

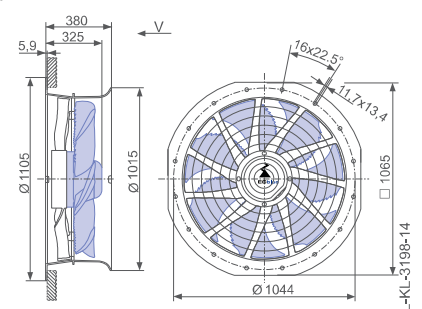
Design Q - ZPlus with adapter plate, without guard grille



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



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 380-480 V

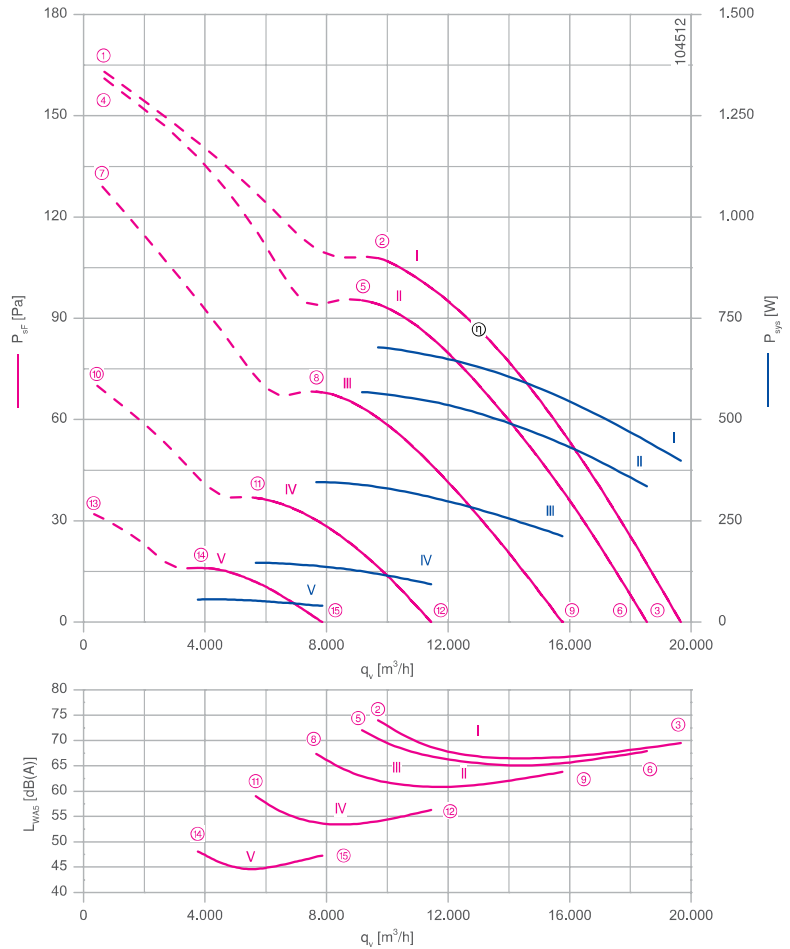
ZN091



Description

Motor technology: EC
 Rated voltage U_N : 3- 380-480 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 0.68 kW*
 Rated current I_N : 1.20- 0.96 A*
 Rated speed n_N : 570 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 55 °C
 Electrical connection: integrated Controller
 Number of blades: 4
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: High Performance Composite Material, uncoated
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{stat}^A : 56.1 %
 Efficiency: $N_{actual} = 63.7 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

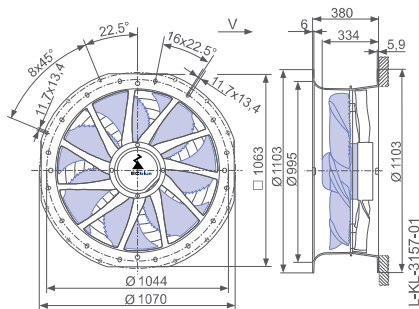
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

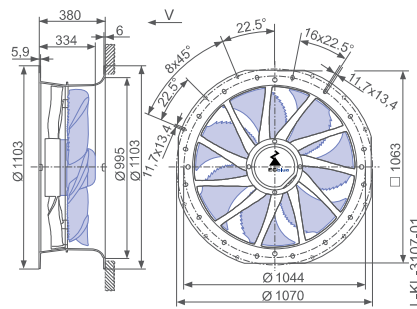
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

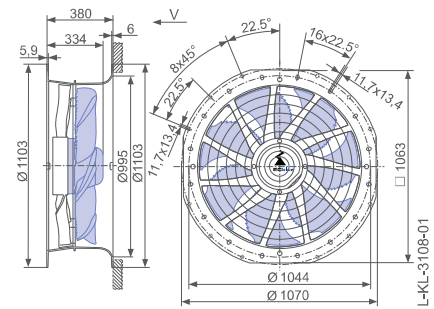


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)	
ZN091-ZL_DG.V4P3	I	570	①	1.40	840		55
			②	1.15	680	74	
			③	0.78	400	70	
	II	540	④	1.35	840		60
			⑤	1.00	560	72	
			⑥	0.70	330	68	
	III	460	⑦	1.05	600		
			⑧	0.72	350	67	
			⑨	0.50	210	64	
	IV	340	⑩	0.56	240		
			⑪	0.42	150	59	
			⑫	0.30	95	56	
	V	230	⑬	0.30	85		
			⑭	0.24	55	48	
			⑮	0.20	40	47	

Current values determined at 400V

Fan ordering information

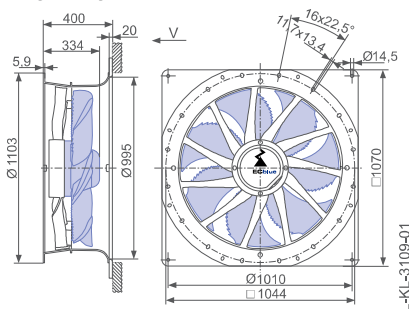
Design	L (guard grille suction side) Ontop	L (without guard grille) Ontop	L (guard grille pressure side) Ontop	Q (without guard grille)	Q (guard grille pressure side)	H (guard grille pressure side) Flattop
Type Article no.	ZN091-ZIL.DG.V4P3 167286	ZN091-ZIL.DG.V4P3 164909	ZN091-ZIL.DG.V4P3 164911	ZN091-ZIQ.DG.V4P3 164915	ZN091-ZIQ.DG.V4P3 164917	ZN091-ZIH.DG.V4P3 164925
Weight kg	31.40	27.60	29.50	31.50	33.40	29.50

ZPlus attachable on both sides.

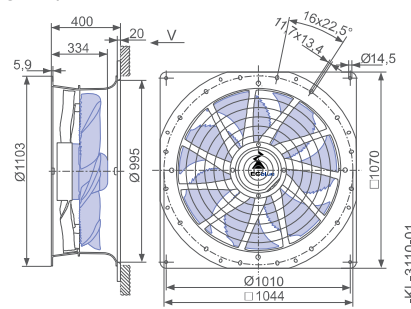
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

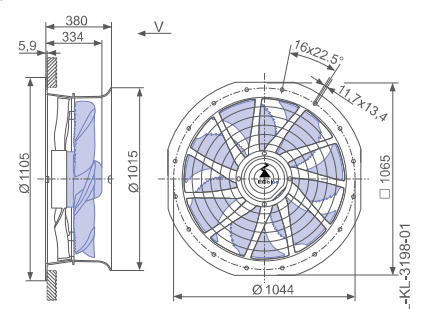
Design Q - ZPlus with adapter plate, without guard grille



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



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 380-480 V

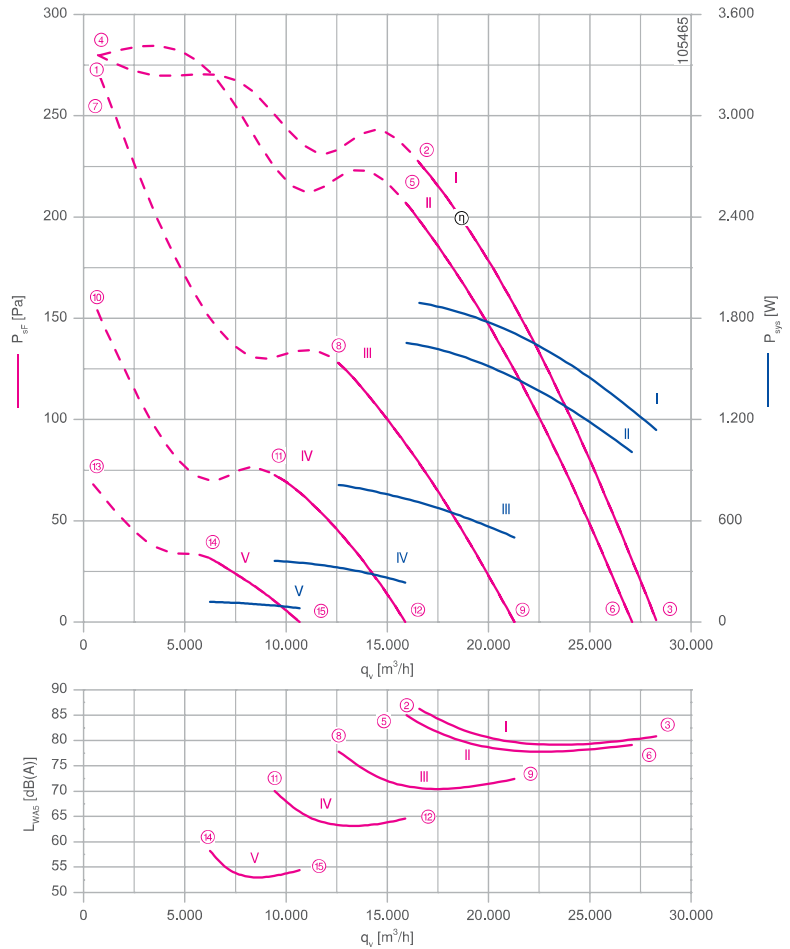
ZN09 1



Description

Motor technology: EC
 Rated voltage U_N : 3- 380-480 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 1.90 kW*
 Rated current I_N : 3.10- 2.50 A*
 Rated speed n_N : 930 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 55 °C
 Electrical connection: integrated Controller
 Number of blades: 5
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: Aluminium, uncoated
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 61.8 %
 Efficiency: $N_{actual} = 66,5 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

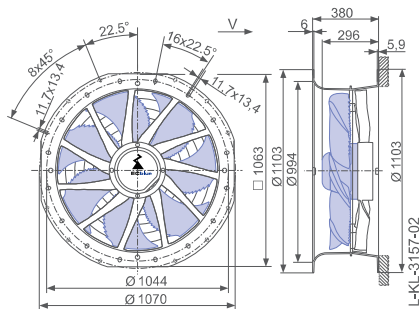
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

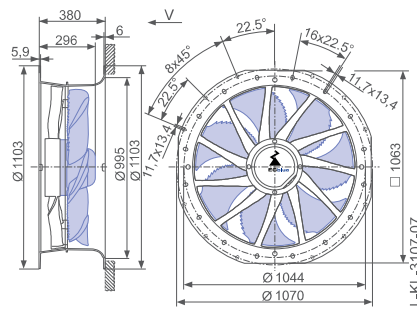
Airflow direction

Design L - ZPlus Ontop, guard grille suction side

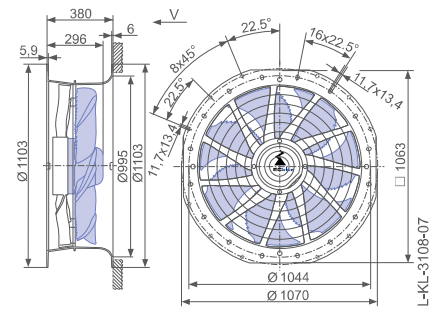


Airflow direction

Design L - ZPlus Ontop without guard grille



Design L - ZPlus Ontop, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min ⁻¹		I A	P _{sys} W	L _{WA5} dB(A)	
ZN091-ZL_GG.V5P1	I	930	①	2.50	1600		55
			②	2.90	1900	86	
			③	1.80	1150	81	
	II	890	④	2.50	1600		60
			⑤	2.60	1650	85	
			⑥	1.60	1000	79	
	III	700	⑦	2.30	1500		
			⑧	1.35	820	78	
			⑨	0.90	500	72	
	IV	530	⑩	1.10	640		
			⑪	0.76	360	70	
			⑫	0.56	230	65	
	V	350	⑬	0.52	200		
			⑭	0.38	120	58	
			⑮	0.30	85	54	

Current values determined at 400V

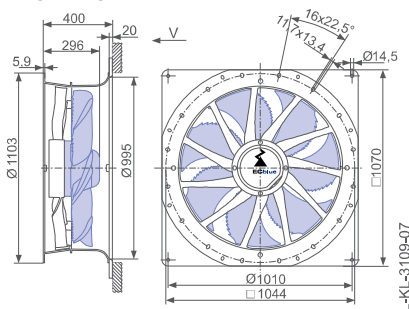
Fan ordering information

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 Article no.	ZN091-ZIL.GG.V5P1 167287	ZN091-ZIL.GG.V5P1 164972	ZN091-ZIL.GG.V5P1 164974	ZN091-ZIQ.GG.V5P1 164978	ZN091-ZIQ.GG.V5P1 164980	ZN091-ZIH.GG.V5P1 164988
Weight kg	43.00	39.30	41.20	42.30	44.20	41.20
ZPlus attachable on both sides.						

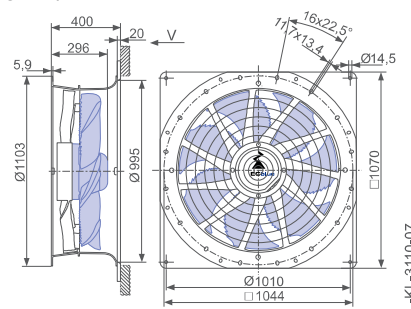
Control technology

Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

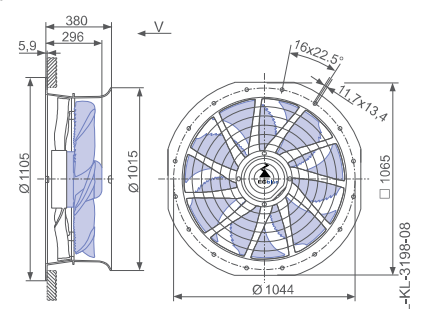
Design Q - ZPlus with adapter plate, without guard grille



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



Design H - ZPlus Flattop, guard grille pressure side



FE2owlet-ECblue with ZPlus

for three phase alternating current, 380-480 V

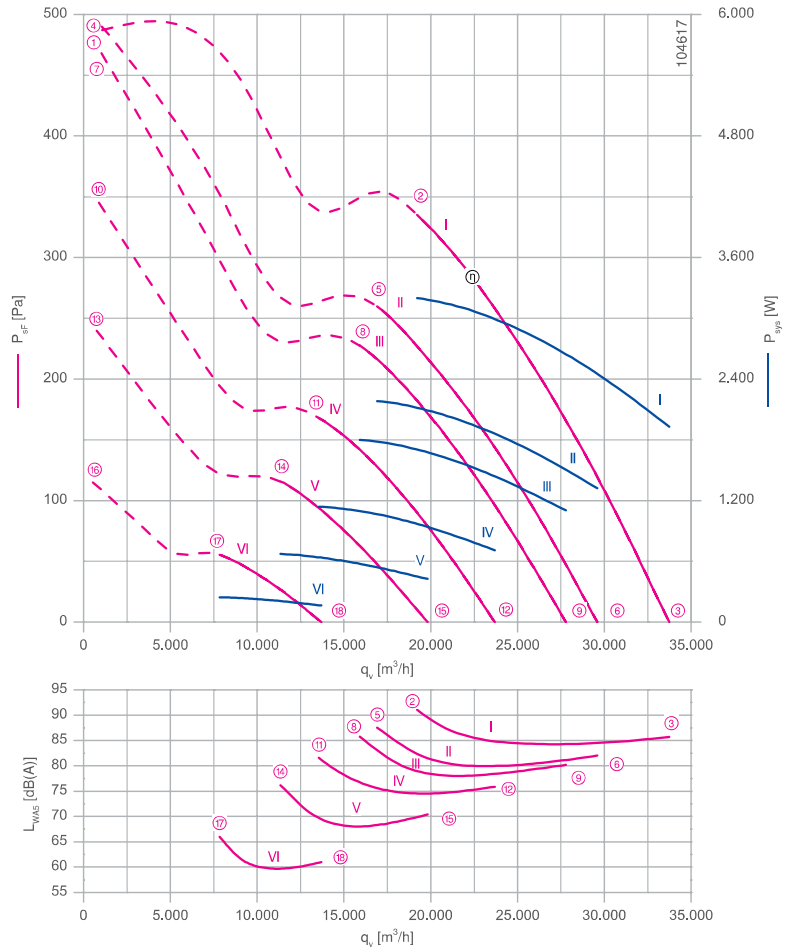
ZN091



Description

Motor technology: EC
 Rated voltage U_N : 3- 380-480 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{sys} : 3.20 kW*
 Rated current I_N : 5.20- 4.20 A*
 Rated speed n_N : 1100 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature $t_{R(min)}$: -35 °C
 Max. permitted ambient temperature $t_{R(max)}$: 45 °C
 Electrical connection: integrated Controller
 Number of blades: 5
 Protection class: IP54
 Motor protection: Integrated active temperature management
 Blades: Aluminium, uncoated
 Rotor: Steel, 2 coat paint, ultramarine blue
 Conformity: ErP 2015, CE, UL
ErP-data
 Efficiency η_{statA} : 62.0 %
 Efficiency: $N_{actual} = 65.3 / N_{target} = 40^{**}$
 EC controller integrated
 * Rated data
 **ErP 2015

Characteristic curve



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

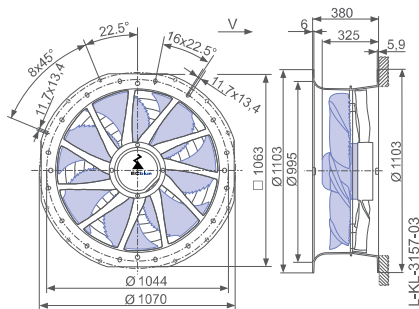
Connection diagram Page 530
1360-403

System components Page 430

Dimensions mm

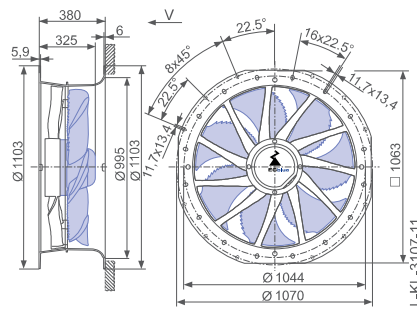
Airflow direction

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

