UNADA

PRODUCT
CATALOGUE



UNADAMOTOR.COM



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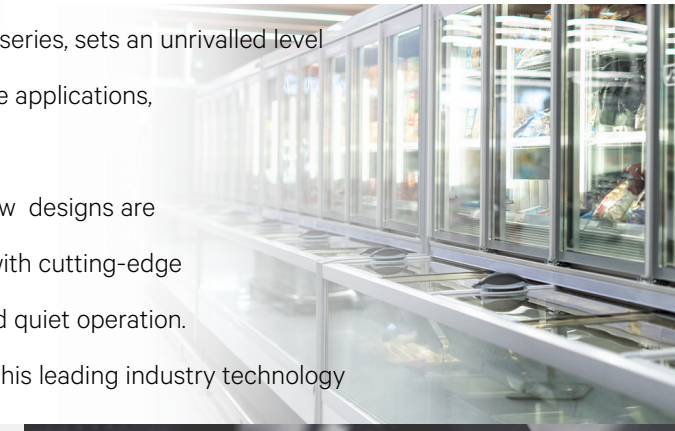
EC MOTORS

- UC100 SERIES
- UC300 SERIES
- UC400 SERIES





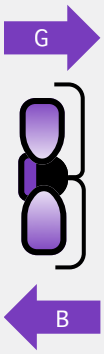
LAGRANGE SERIES



SHAPED BY DATA: Our second generation UNADA EC fanpacks, the Lagrange series, sets an unrivalled level of efficiency for refrigeration solutions. Optimized for food retail and food service applications, the Lagrange Series is the ideal solution for OEMs seeking energy savings.

By closely collaborating with technology leaders in refrigerated cases, the new designs are the direct result of application data and expertise from customer cooperation with cutting-edge machine learning-aided design. The final product is optimized for low profile and quiet operation. A seamless drop-in solution, users of the first generation can now benefit from this leading industry technology

NOMENCLATURE



L A G 2 0 0

FAN SERIES

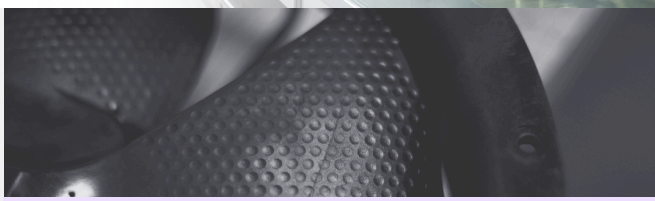
AIRFLOW DIRECTION

NOMINAL DIAMETER, cm

FANPACK VARIATION

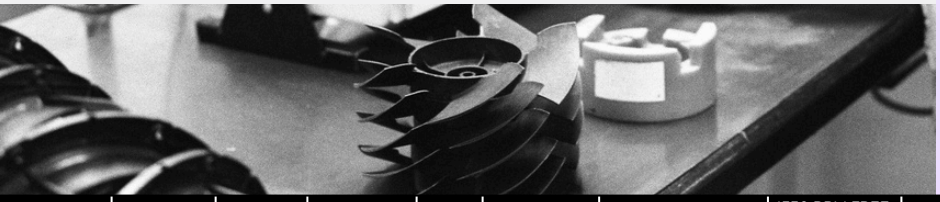
0 Integrated inlet cone
1 Integrated inlet cone and finger guard
3 Integrated inlet cone, wire guard
4 Low profile integrated inlet cone
5 Finger guard
6 Moulded bracket
9 No support

Patent Pending



SPECIFICATIONS

TEMPERATURE RANGE	-40 °C to +50 °C
SPEED SELECTION	3 Discrete Speeds; Programmable
TIMED REVERSE	Optional; Programmable
BEARINGS	Sealed ball bearings
INSULATION CLASS	Class B
MOTOR PROTECTION	Electronically protected (EP)

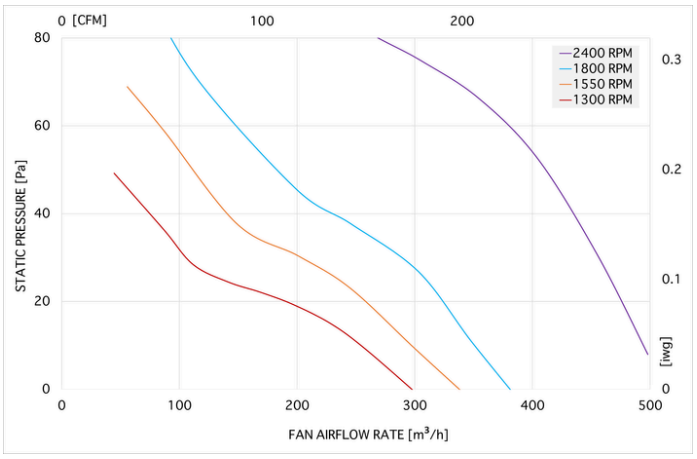


MODEL	NOMINAL DIAMETER cm | inches	RATED VOLTAGE VAC	FREQUENCY Hz	PHASE	RATED SPEED RPM	MAX FREE AIR FLOW m^3/h | cfm	1550 RPM FREE AIR FLOW m^3/h | cfm	APPROVALS	IP RATING	AIRFLOW DIRECTION	AIRFLOW CURVES	EXTERNAL VIEW	WIRING DIAGRAM
LAG170	17 | 7	120/230	50/60	1~	400 to 2400	510 | 300	340 | 200	UL / CE / TÜV / ATEX	IP66	Sucking (G)	QA	VA	WA
LAG179	17 | 7	120/230	50/60	1~	400 to 2400	510 | 300	340 | 200	UL / CE / TÜV / ATEX	IP66	Sucking (G)	QA	VB	WA
LAG200	20 | 8	120/230	50/60	1~	400 to 2400	850 | 500	570 | 340	UL / CE / TÜV / ATEX	IP66	Sucking (G)	QB	VC	WA
LAG209	20 | 8	120/230	50/60	1~	400 to 2400	850 | 500	570 | 340	UL / CE / TÜV / ATEX	IP66	Sucking (G)	QB	VD	WA
LAG230	23 | 9	110-240	50/60	1~	400 to 2000	1000 | 590	780 | 460	UL / CE / TÜV	IP66	Sucking (G)	QC	VE	WA
LAG239	23 | 9	110-240	50/60	1~	400 to 2000	1000 | 590	780 | 460	UL / CE / TÜV	IP66	Sucking (G)	QC	VF	WA
LAG254	25 | 10	110-240	50/60	1~	400 to 2000	920 | 540	760 | 450	UL / CE / TÜV	IP66	Sucking (G)	QD	VG	WA
LAG300	30 | 12	120-240	50/60	1~	400 to 1800	1600 | 940	1410 | 830	UL	IP55	Sucking (G)	QE	VH	WB
LAG305	30 | 12	120-240	50/60	1~	400 to 1800	1520 | 890	1290 | 760	UL	IP55	Sucking (G)	QE	VI	WB
LAB305	30 | 12	120-240	50/60	1~	400 to 1800	1520 | 890	1290 | 760	UL	IP55	Blowing (B)	QE	VJ	WB
LAG306	30 | 12	120-240	50/60	1~	400 to 1800	1600 | 940	1410 | 830	UL	IP55	Sucking (G)	QF	VK	WB
LAB306	30 | 12	120-240	50/60	1~	400 to 1800	1600 | 940	1410 | 830	UL	IP55	Blowing (B)	QF	VL	WB
LAG309	30 | 12	120-240	50/60	1~	400 to 1800	1600 | 940	1410 | 830	UL	IP55	Sucking (G)	QF	VM	WB
LAB309	30 | 12	120-240	50/60	1~	400 to 1800	1600 | 940	1410 | 830	UL	IP55	Blowing (B)	QF	VN	WB

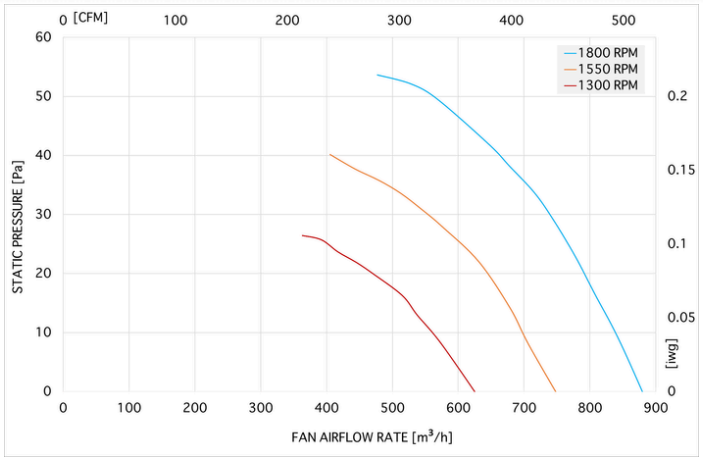
AIRFLOW

230 VAC 50 Hz; STANDARD MOTOR OPTION AMCA 210 INSTALLATION FIG. 15; FREE INLET, FREE OUTLET; 1.2 kg/m^3 AIR.

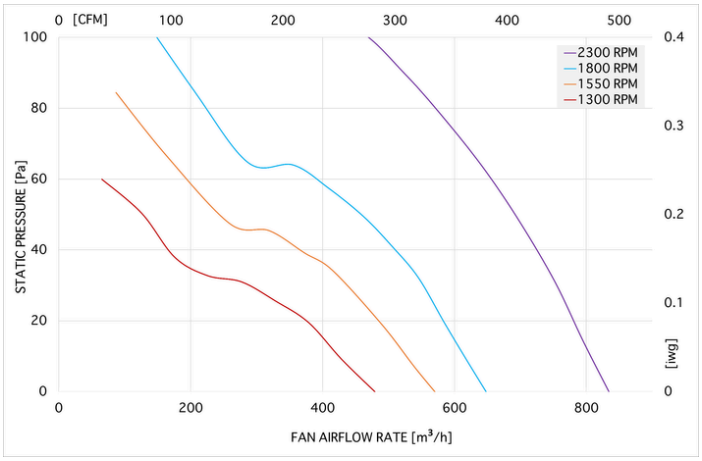
QA



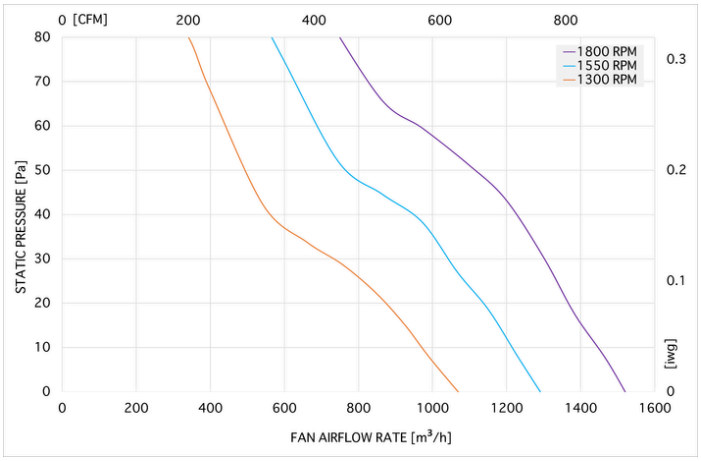
QD



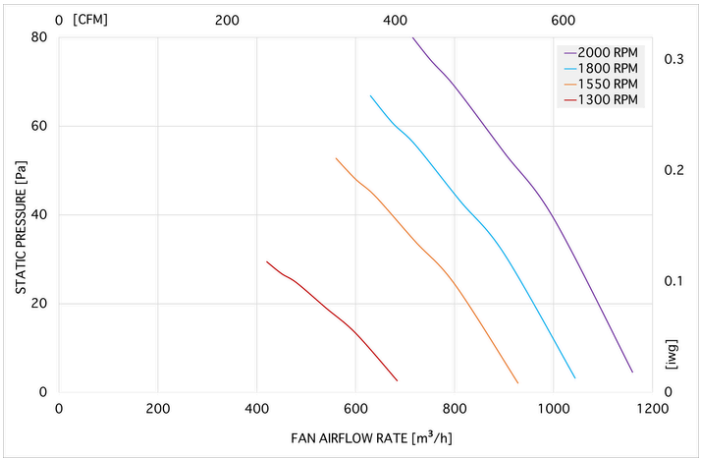
QB



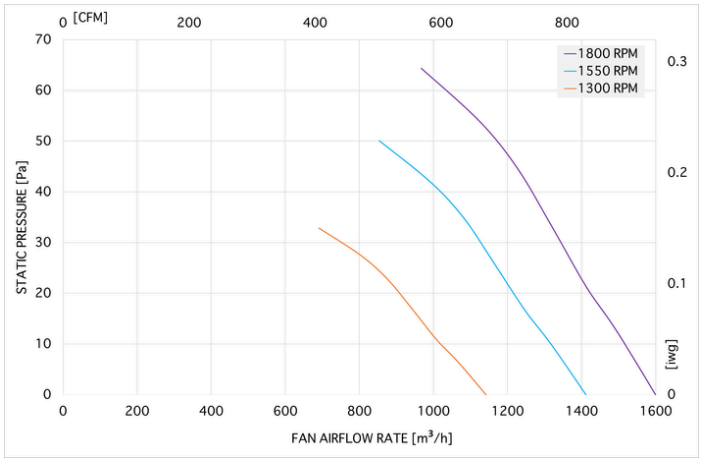
QE



QC



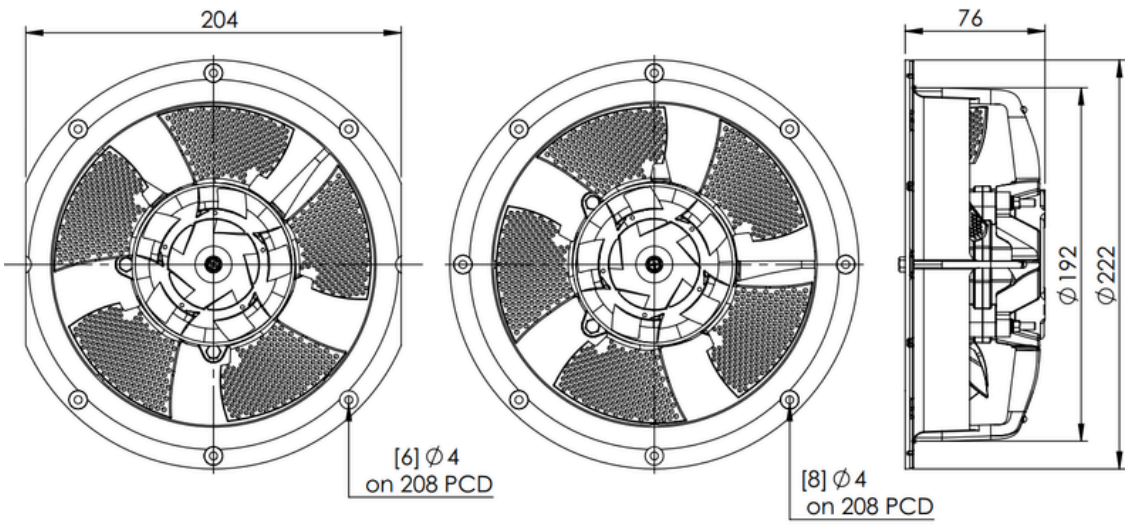
QF



EXTERNAL VIEW

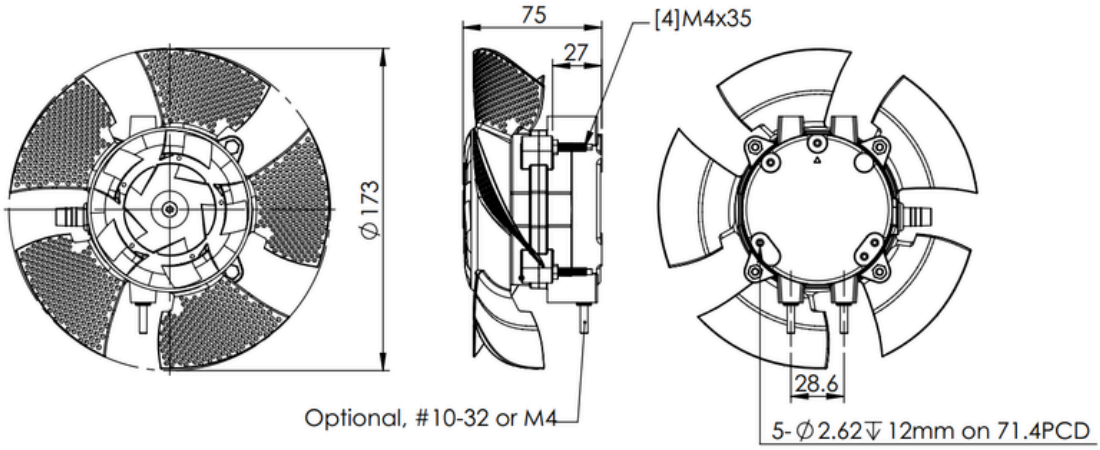
VA

AIR FLOW (G)



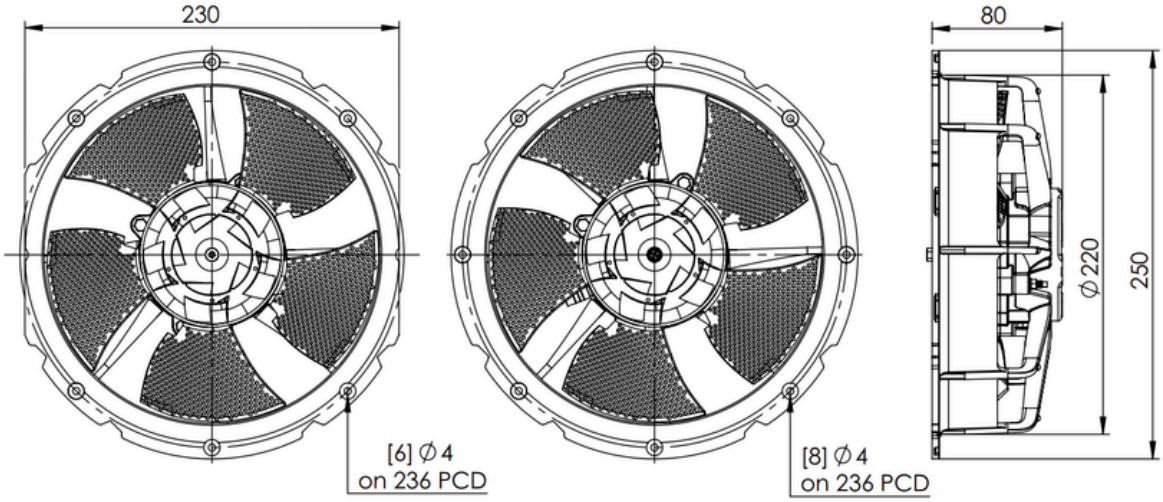
VB

AIR FLOW (G)



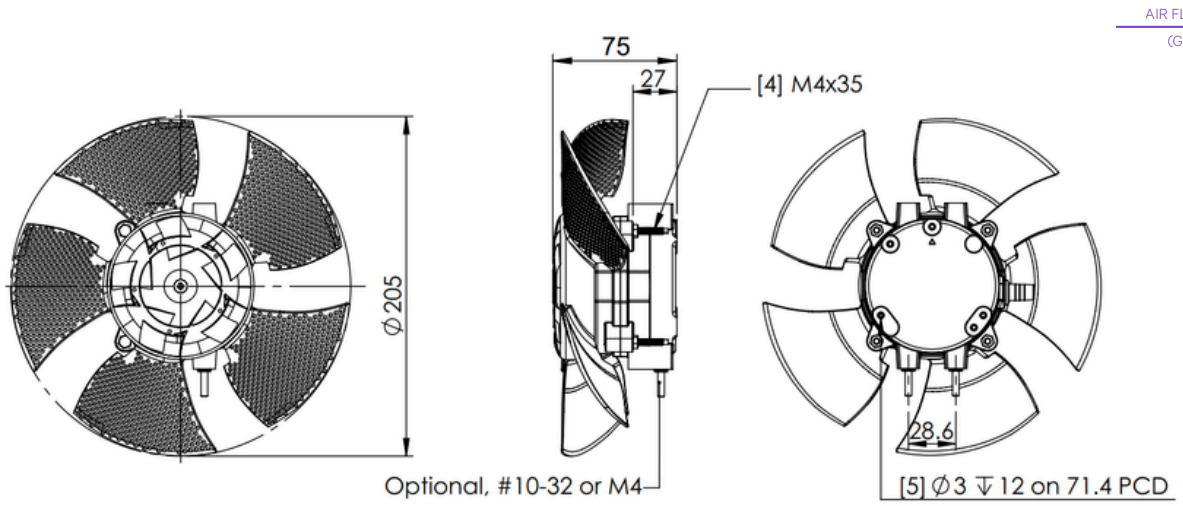
VC

AIR FLOW (G)

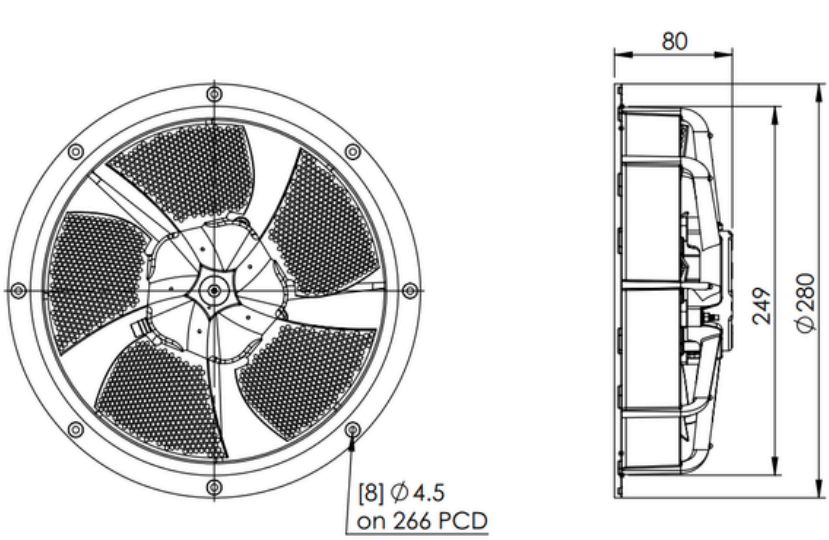


EXTERNAL VIEW

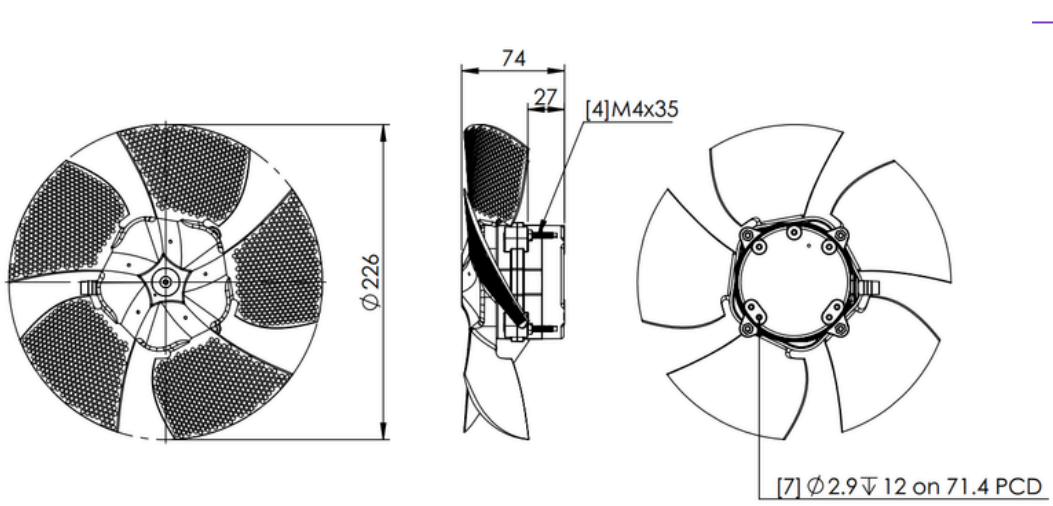
VD



VE

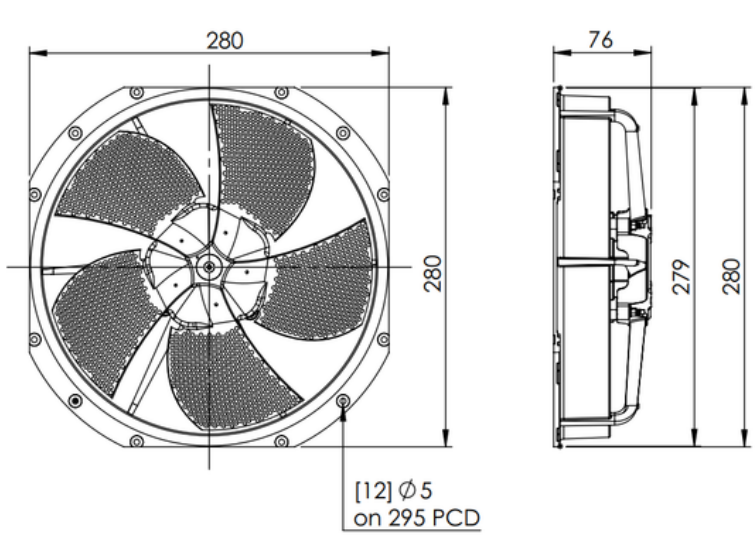


VF

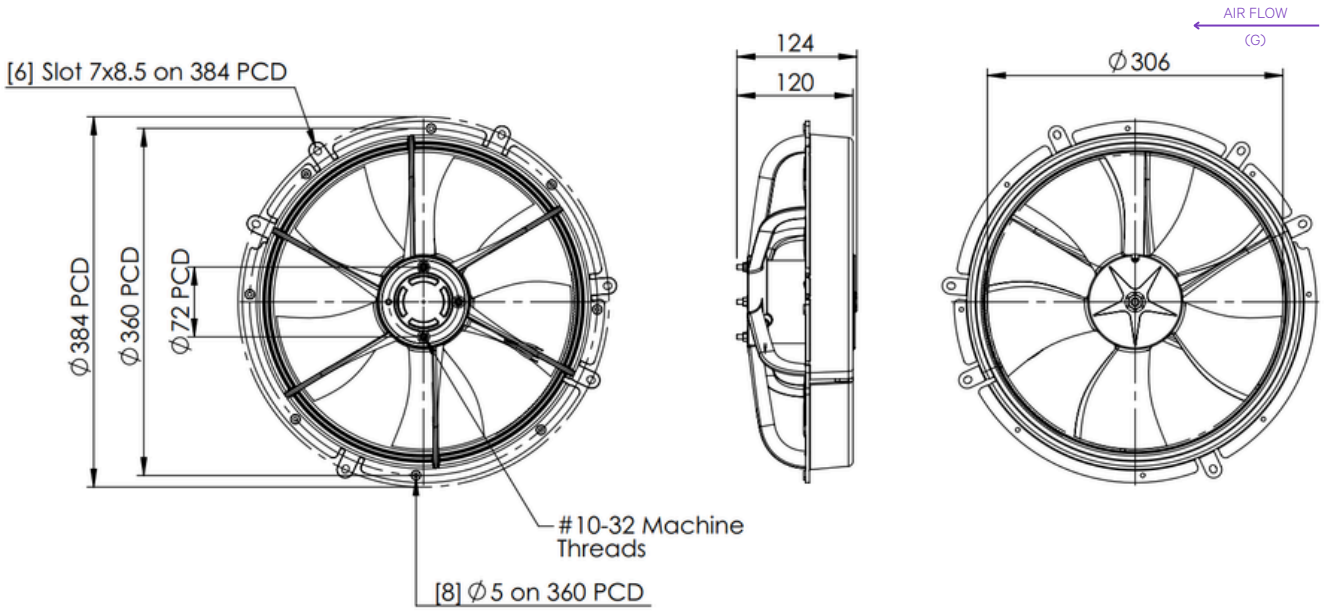


EXTERNAL VIEW

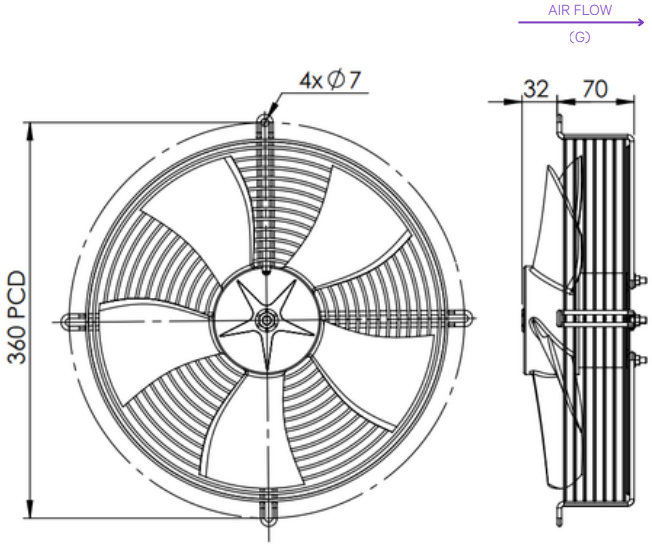
VG



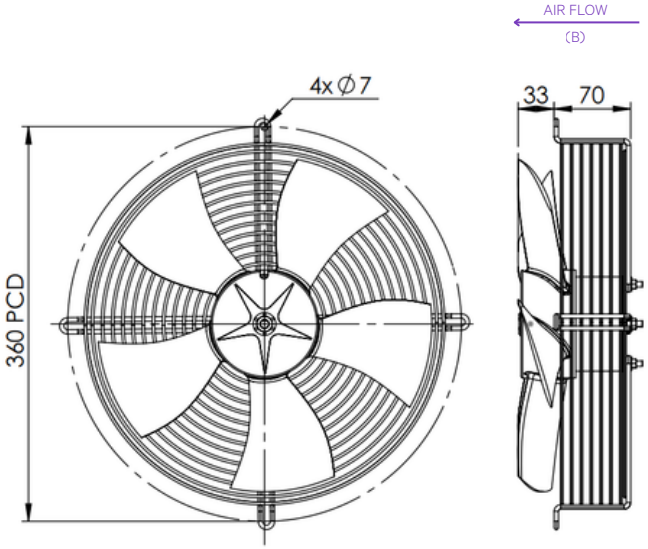
VH



VI

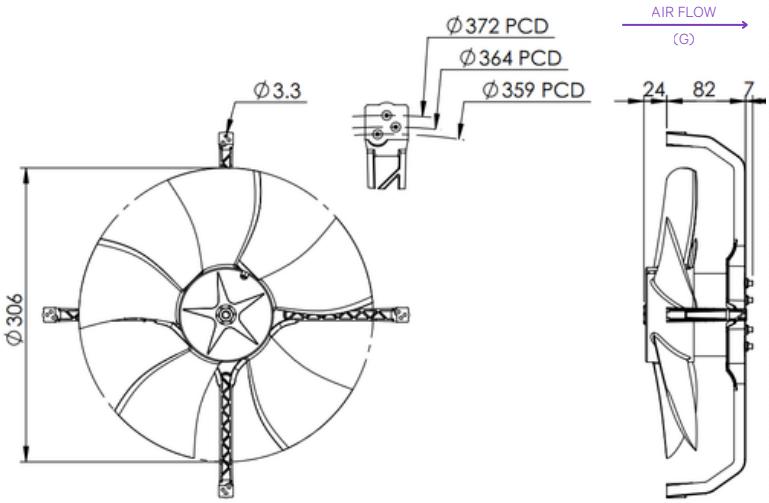


VJ

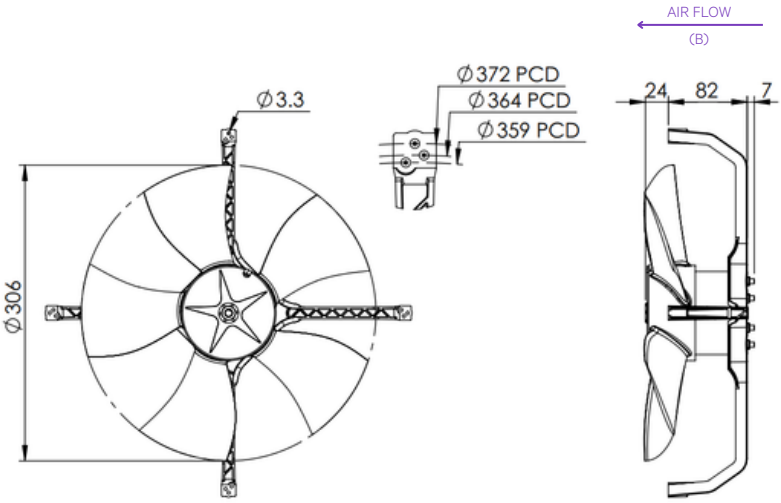


EXTERNAL VIEW

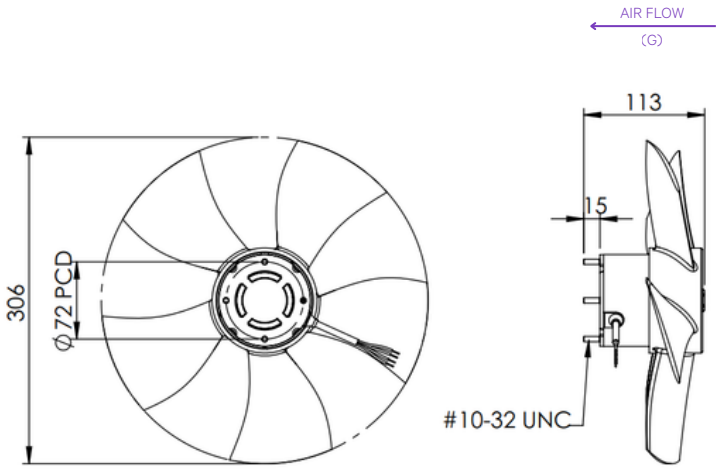
VK



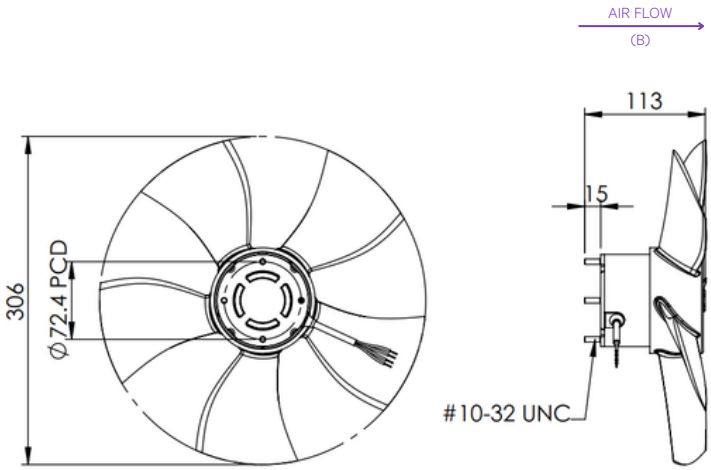
VL



VM



VN



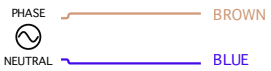
WIRING DIAGRAMS



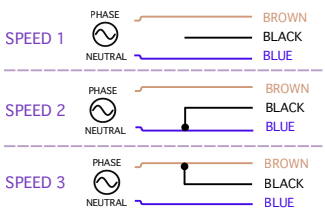
Warning : Unconnected control (black) wires must be properly isolated from each other and from all power lines.
Do not earth unconnected control wires. Control wires operate at the same voltage as the power supply.

WA

2 WIRE

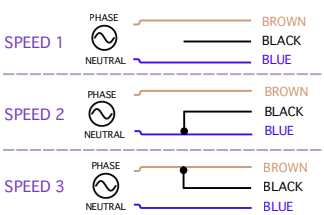


3 WIRE

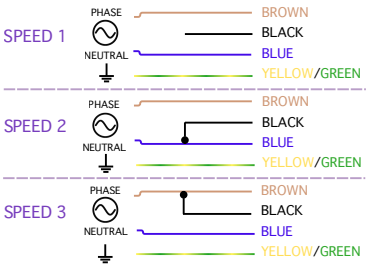


WB

3 WIRE



4 WIRE



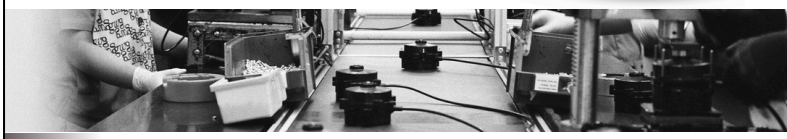
*Installer responsible for connecting motor to earth



UC100 SERIES

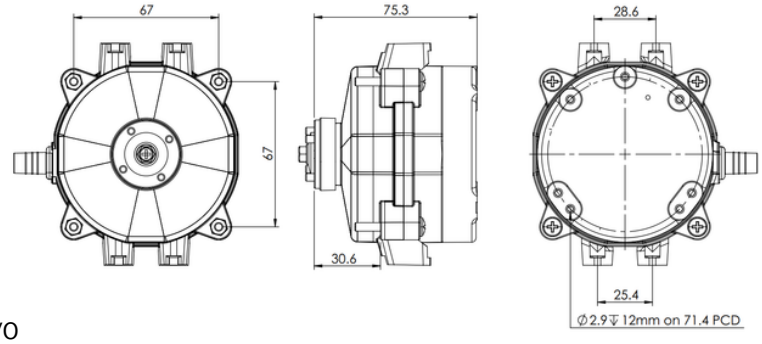
Dependable and customisable: the 100 Series is tailored for low-maintenance food retail, food service, and scientific applications. Compatible with natural refrigerants and highly efficient, its performance continuously helps OEMs meet new regulations. With a versatile programmable design and deep customisability, it streamlines production processes and simplifies inventory management.



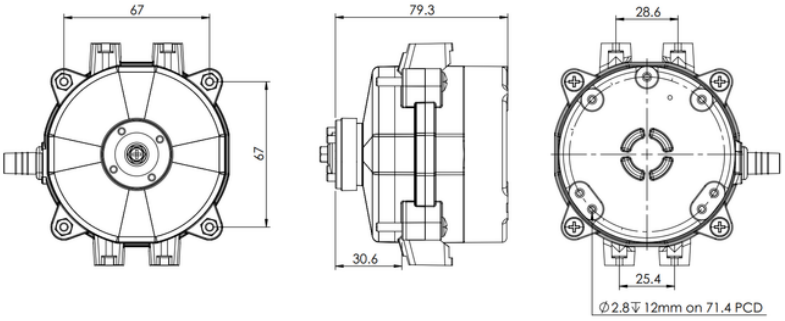


EXTERNAL VIEWS

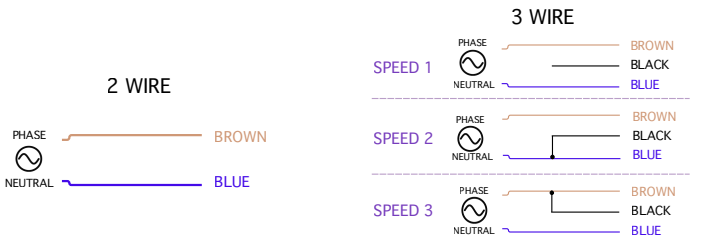
VN



VO



WIRING DIAGRAM



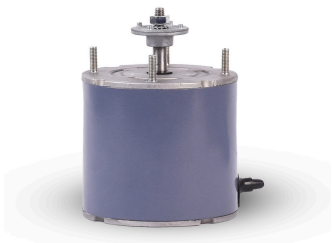
SPECIFICATIONS

TEMPERATURE RANGE	:	-40 °C to +50 °C
DIRECTION OF ROTATION	:	CW; CCW
TIMED REVERSE	:	Optional; Programmable
INSULATION CLASS	:	Class B
SPEED SELECTION	:	3 Discrete Speeds; Programmable
GROUND PROTECTION	:	Double insulated
SHAFT DIAMETER	:	8mm; 7mm D; drive flange available
BEARINGS	:	Sealed ball bearings
INGRESS PROTECTION	:	IP66
HYDROCARBON COMPATIBILITY	:	EN60335-2-89 ANNEX BB

COMMERCIAL NAME	RATED VOLTAGE VAC	FREQUENCY Hz	PHASE	RATED CURRENT A	NOMINAL OUTPUT POWER W	RATED SPEED RPM	MOTOR PROTECTION	APPROVALS	WEIGHT kg	EXTERNAL VIEW
UC12	120 / 230	50/60	1~	0.29/0.25	18	400 to 2400	Electronically protected (EP)	UL / CE / TÜV / ATEX	0.6	VN
UC+	120	50/60	1~	0.42	25	400 to 2400	Thermally Protected (TP)	UL / CE / TÜV / ATEX	0.6	VN
UC+	230	50/60	1~	0.25	25	400 to 2400	Thermally Protected (TP)	UL / CE / TÜV / ATEX	0.6	VN
UC miniMAX	110-240	50/60	1~	0.4 - 0.23	25	400 to 2000	Electronically protected (EP)	UL / CE / TÜV	0.6	VN
UC MAX	110-240	50/60	1~	0.7 - 0.4	30	400 to 2400	Electronically protected (EP)	UL / CE / TÜV	0.6	VO

UC300 SERIES

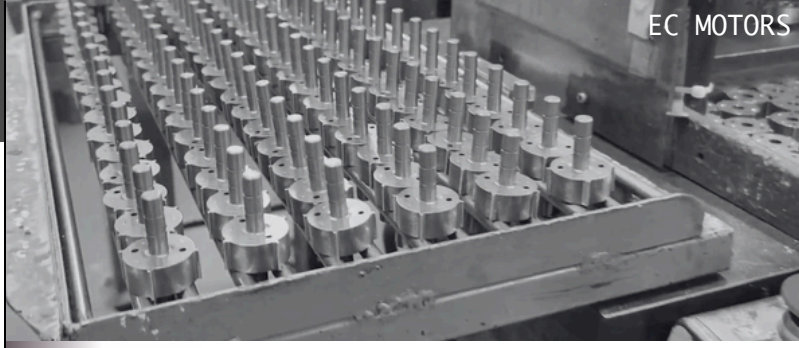
The market leader for walk-in cooler fans: With a proven record of exceptional reliability, the 300 Series offers energy savings and a robust design. Unada's thermal management system ensures long-lasting operation even in harsh environments.





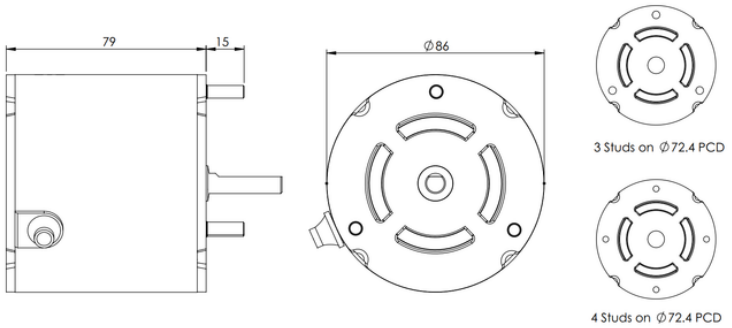
SPECIFICATIONS

TEMPERATURE RANGE	:	-40 °C to +50 °C
DIRECTION OF ROTATION	:	CW; CCW
TIMED REVERSE	:	Optional; Programmable
INSULATION CLASS	:	Class B
SPEED SELECTION	:	3 Discrete Speeds; Programmable
GROUND PROTECTION	:	Class I
SHAFT DIAMETER	:	8mm; 7mm D; drive flange and twin shafts available
BEARINGS	:	608 sealed ball bearings
INGRESS PROTECTION	:	IP55
MOTOR PROTECTION	:	Electronically protected (EP)
THERMAL MANAGEMENT	:	Torque compensation in overload conditions

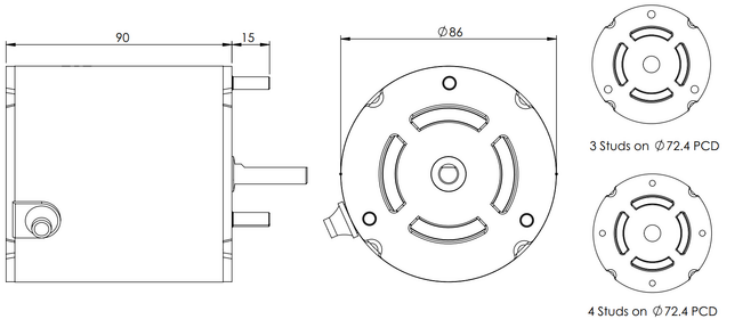


EXTERNAL VIEWS

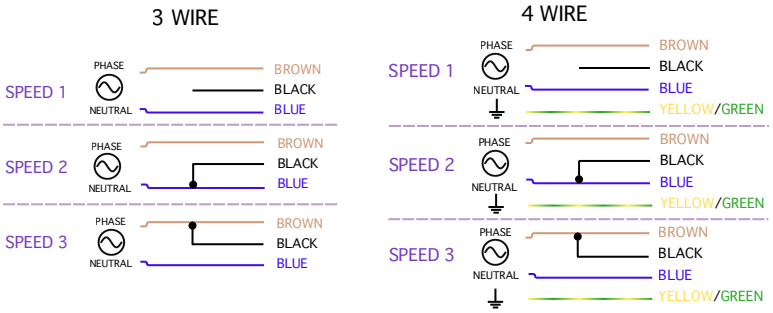
VP



VQ

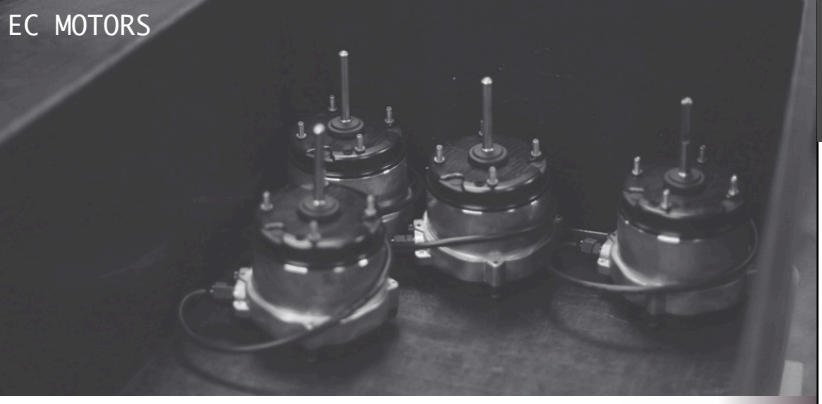


WIRING DIAGRAM



*Installer responsible for connecting motor to earth

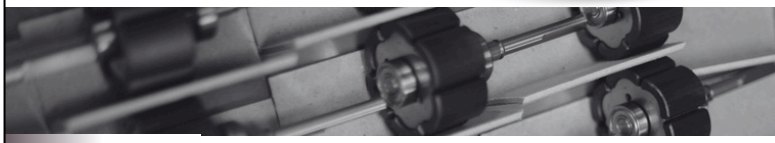
COMMERCIAL NAME	RATED VOLTAGE VAC	FREQUENCY Hz	PHASE	RATED CURRENT A	NOMINAL OUTPUT POWER HP	RATED SPEED RPM	APPROVALS	WEIGHT kg	EXTERNAL VIEW
UC39	120-240	50/60	1~	0.95/ 0.5	1/20	400 to 1800	UL	1.1	VP
UC1	120	50/60	1~	0.9	1/15	200 to 2400	UL	1.3	VQ
UC1	208-240	50/60	1~	0.6	1/15	200 to 2400	UL	1.3	VQ



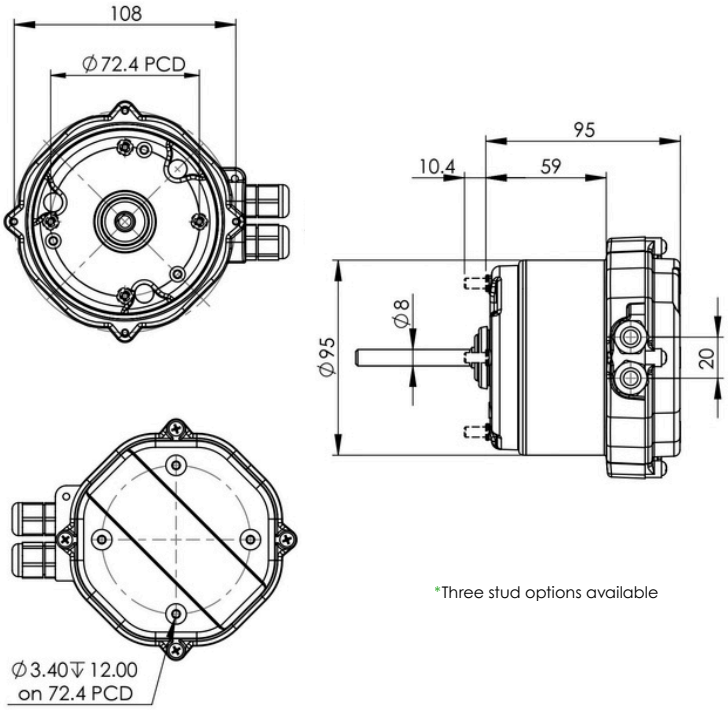
UC400 SERIES

The UC 400 Series marks a major advancement in both innovation and motor capability, offering increased size and power to meet a broader range of applications. Developed through years of close collaboration with industry partners, this series incorporates the most sought-after qualities in a reliable, high-efficiency EC motor. Unada's largest and most adaptable motor family, the UC 400 is designed to perform across an exceptionally wide spectrum of refrigeration and HVAC systems. No matter the complexity of the application, it delivers the flexibility, dependability, and performance that define the UC range standard.



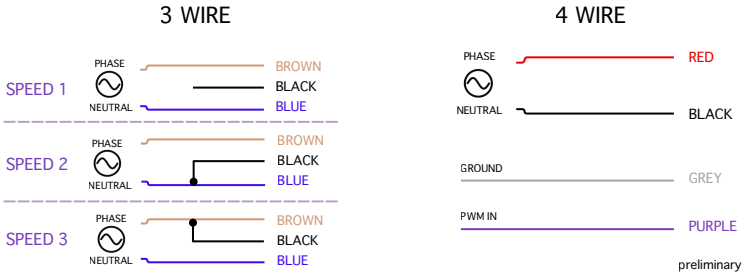


EXTERNAL VIEWS



*Three stud options available

WIRING DIAGRAM



*Installer responsible for connecting motor to earth

SPECIFICATIONS

TEMPERATURE RANGE	:	-40 °C to +50 °C
DIRECTION OF ROTATION	:	CW; CCW
TIMED REVERSE	:	Optional; Programmable
INSULATION CLASS	:	Class B
SPEED SELECTION	:	3 Discrete Speeds; Programmable, PWM
GROUND PROTECTION	:	Class I
SHAFT DIAMETER	:	8mm; 7mm D; drive flange available
BEARINGS	:	608 sealed ball bearings
INGRESS PROTECTION	:	IP66
HYDROCARBON COMPATIBILITY	:	EN60335-2-89 ANNEX BB
MOTOR PROTECTION	:	Electronically protected (EP)
THERMAL MANAGEMENT	:	Torque compensation in overload conditions

COMMERCIAL NAME	RATED VOLTAGE VAC	FREQUENCY Hz	PHASE	NOMINAL OUTPUT POWER HP	RATED SPEED RPM	APPROVALS
UC401	120 / 240	50/60	1~	1/15	400 to 2000	UL / ATEX
UC405	120 / 240	50/60	1~	1/10	400 to 2000	UL / ATEX

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UNADA RESERVES THE RIGHT TO CHANGE WITHOUT PRIOR NOTICE ALL INDICATED TECHNICAL INFORMATION. THE RATING VALUES ARE VALID UNDER THE TESTING CONDITIONS MENTIONED ABOVE AND MAY VARY ACCORDING TO THE APPLICATION. NOT CERTIFIED BY AMCA

02/2026