

CTH3 ATEX



ROOF FAN, ABS COWL ATEX

MANUFACTURING FEATURES

- Roof cowl made of ABS
- Structure, roof base support and bird protection guard made of galvanised steel.
- High efficiency backward impeller with self-cleaning system of steel.
- ATEX standard asynchronous motor. ATEX certified according to the zone.. IP55 protection and class F insulation. Manufactured with standard voltages: 230/400V 50Hz in three phase motors up to 4kW and 400/690V 50Hz for higher powers.

APPLICATIONS

Ventilation in indoor environments classified as ATEX. Specially designed for roof installation, they are suitable for:

- Smoke extraction.
- Smoke emergency exhaust with motor outside the hazardous area.
- Air renewal in buildings and industries.
- Industrial and professional kitchen hoods.
- Working temperature: ambient from -20°C to 40°C, transported air according to the ATEX classification.

UNDER REQUEST

- 60Hz and special voltages.

Accessories



BTI



INT



**INT
ATEX**



**KV
CTH3**



SFC

Technical data

Single-phase motor / 4 poles

Code	Model	R.P.M.	Rated I. A 230V	Rated power kW	Max. Airflow m ³ /h	Sound db (A)**	Weight kg	Connect. diagram
279220103XD	CTH3 225 M4 0,12kW ATEX	-	-	0,00	730	36	9	1
279250103XD	CTH3 250 M4 0,12kW ATEX	-	-	0,00	880	39	10	1
279280103XD	CTH3 280 M4 0,12kW ATEX	-	-	0,00	1.520	44	11	1
279310103XD	CTH3 315 M4 0,25KW ATEX	-	-	0,00	2.190	43	15	1

Single-phase motor / 6 poles

Code	Model	R.P.M.	Rated I. A 230V	Rated power kW	Max. Airflow m ³ /h	Sound db (A)**	Weight kg	Connect. diagram
279410103XD	CTH3 400 M6 0,37KW ATEX	-	-	0,00	3.320	41	21	1

Three-phase motor / 4 poles

Code	Model	R.P.M.	Rated I. A 400V	Rated power kW	Max. Airflow m ³ /h	Sound db (A)**	Weight kg	Connect. diagram
279220106XN	CTH3 225 T4 0,12kW ATEX	1420	0,71	0,12	730	36	9	2
279250106XN	CTH3 250 T4 0,12kW ATEX	1420	0,71	0,12	880	39	10	2
279280106XN	CTH3 280 T4 0,12kW ATEX	1420	0,71	0,12	1.520	44	11	2
279310106XN	CTH3 315 T4 0,25KW ATEX	1400	0,84	0,25	2.190	43	15	2
279350106XN	CTH3 355 T4 0,55KW ATEX	1430	1,75	0,55	3.590	48	19	2
279400106XN	CTH3 400 T4 0,75KW ATEX	1410	2,1	0,75	5.130	51	21	2
279450106XN	CTH3 450 T4 1,1KW ATEX	1420	3,3	1,10	7.300	54	38	2
279500106XN	CTH3 500 T4 1,5KW ATEX	1415	3,8	1,50	10.010	57	50	2
279560106XN	CTH3 560 T4 3KW ATEX	1420	6,8	3,00	14.060	61	55	2

Three-phase motor / 6 poles

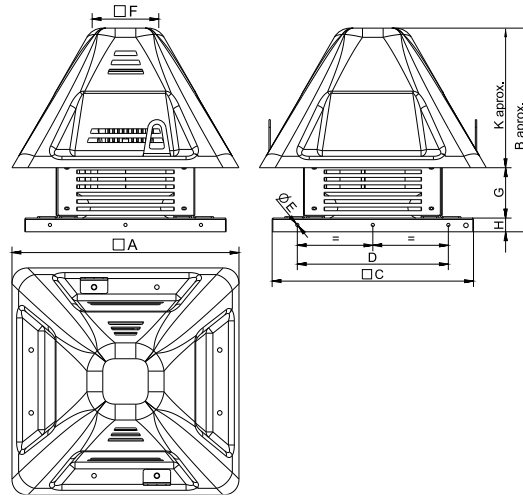
Code	Model	R.P.M.	Rated I. A 400V	Rated power kW	Max. Airflow m ³ /h	Sound db (A)**	Weight kg	Connect. diagram
279410106XN	CTH3 400 T6 0,37KW ATEX	940	1,4	0,37	3.320	41	21	2
279460106XN	CTH3 450 T6 0,37KW ATEX	940	1,4	0,37	4.730	45	38	2
279510106XN	CTH3 500 T6 0,75KW ATEX	930	2,2	0,75	6.490	48	50	2
279570106XN	CTH3 560 T6 0,75KW ATEX	930	2,2	0,75	9.110	51	55	2
279630106XN	CTH3 630 T6 1,5KW ATEX	940	4,00	1,50	13.230	55	70	2

Code	Model	R.P.M.	Rated I. A 400V	Rated power kW	Max. Airflow m ³ /h	Sound db (A)**	Weight kg	Connect. diagram
279710106XN	CTH3 710 T6 2,2KW ATEX	930	5,2	2,20	18.940	59	170	2
279800106XN	CTH3 800 T6 4KW ATEX	960	9,46	4,00	27.090	62	205	2

Notes:

** Total sound pressure level at the point of maximum flow measured in dB(A) in the suction measured in free field at a distance of 6m from the source

Dimensions



Model	A	B aprox	C	D	E	F	G	H	K aprox
CTH3 225 M4 0,12kW ATEX	496	445	435	330	9	145,5	110	30	305
CTH3 225 T4 0,12kW ATEX	496	445	435	330	9	145,5	110	30	305
CTH3 250 M4 0,12kW ATEX	496	445	435	330	9	145,5	110	30	305
CTH3 250 T4 0,12kW ATEX	496	445	435	330	9	145,5	110	30	305
CTH3 280 M4 0,12kW ATEX	616	503,5	595	450	9	240,2	138,5	40	325
CTH3 280 T4 0,12kW ATEX	616	503,5	595	450	9	240,2	138,5	40	325
CTH3 315 M4 0,25KW ATEX	616	548	595	450	9	240,2	183	40	325
CTH3 315 T4 0,25KW ATEX	616	548	595	450	9	240,2	183	40	325
CTH3 355 T4 0,55KW ATEX	698,5	647	665	520	9	240,2	208,5	40	398,5
CTH3 400 M6 0,37KW ATEX	698,5	705	665	520	9	240,2	266,5	40	398,5
CTH3 400 T4 0,75KW ATEX	698,5	705	665	520	9	240,2	266,5	40	398,5
CTH3 400 T6 0,37KW ATEX	698,5	705	665	520	9	240,2	266,5	40	398,5
CTH3 450 T4 1,1KW ATEX	777	760	665	520	9	295,6	302	40	418
CTH3 450 T6 0,37KW ATEX	777	760	665	520	9	295,6	302	40	418
CTH3 500 T4 1,5KW ATEX	972,75	865,5	939	710	9	388	317,5	50	498
CTH3 500 T6 0,75KW ATEX	972,75	865,5	939	710	9	388	317,5	50	498
CTH3 560 T4 3KW ATEX	972,75	882,5	939	710	9	388	334,5	50	498
CTH3 560 T6 0,75KW ATEX	972,75	882,5	939	710	9	388	334,5	50	498
CTH3 630 T6 1,5KW ATEX	972,75	924,5	939	710	9	388	376,5	50	498
CTH3 710 T6 2,2KW ATEX	1168,5	1118,5	1035	840	9	429,6	439,5	50	629
CTH3 800 T6 4KW ATEX	1168,5	1145	1035	840	9	429,6	466	50	629

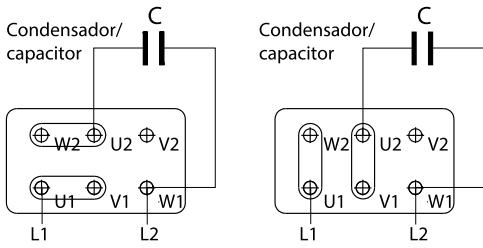
Wiring diagram

Wiring diagram N° 1

Motores monofásicos con placa de borne/
Single phase motors with terminal board

Rotación horaria /
Clockwise rotation

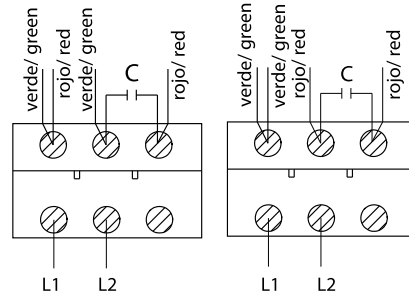
Rotación anti-horaria/
Conuterclockwise rotation



Motores monofásicos con conector/
Single phase motors with connector

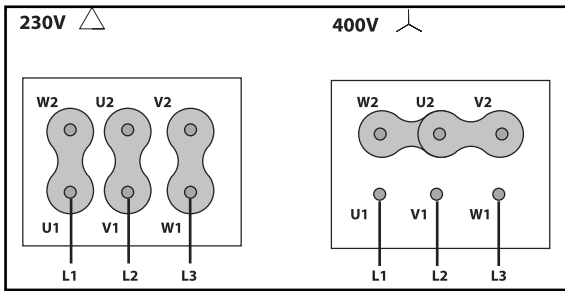
Rotación horaria /
Clockwise rotation

Rotación anti-horaria/
Conuterclockwise rotation

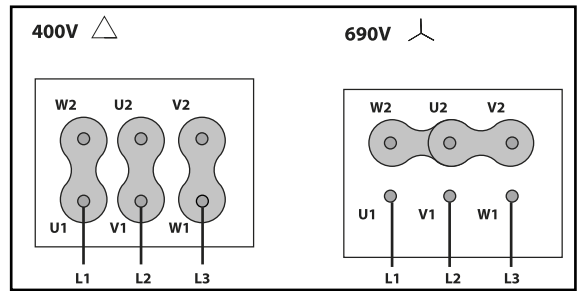


Wiring diagram N° 2

230/400V



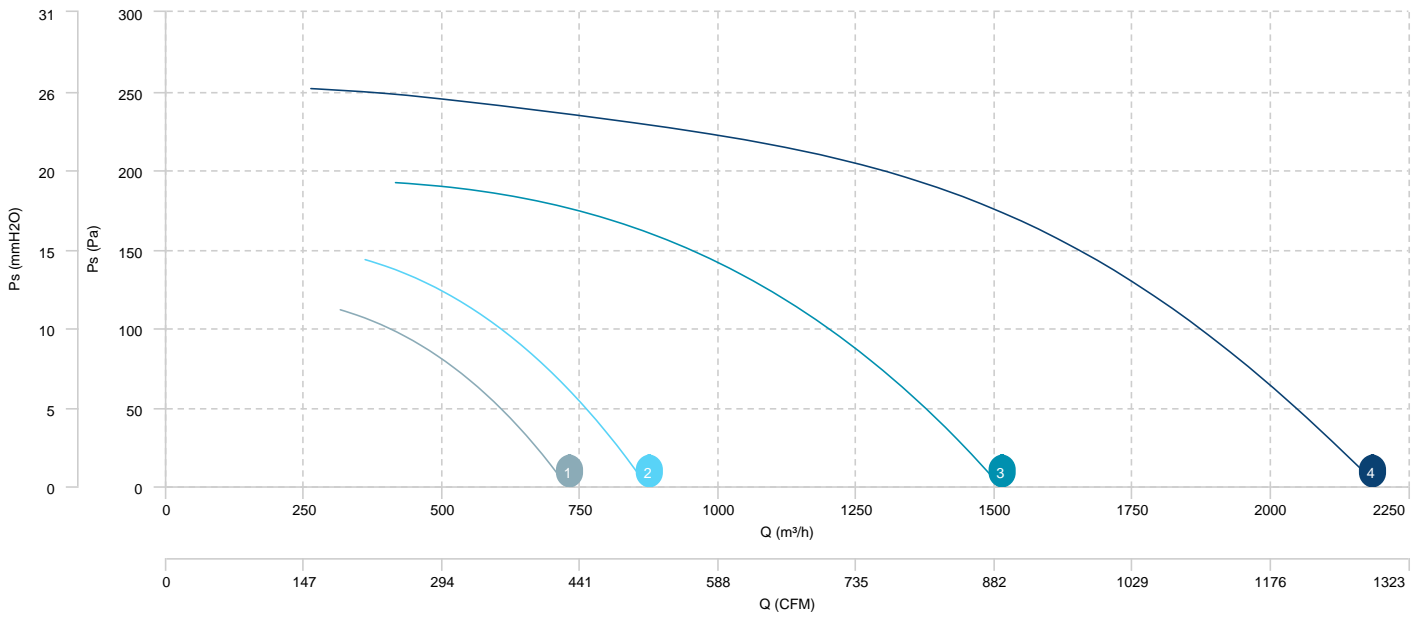
400/690V



CHARACTERISTIC CURVE

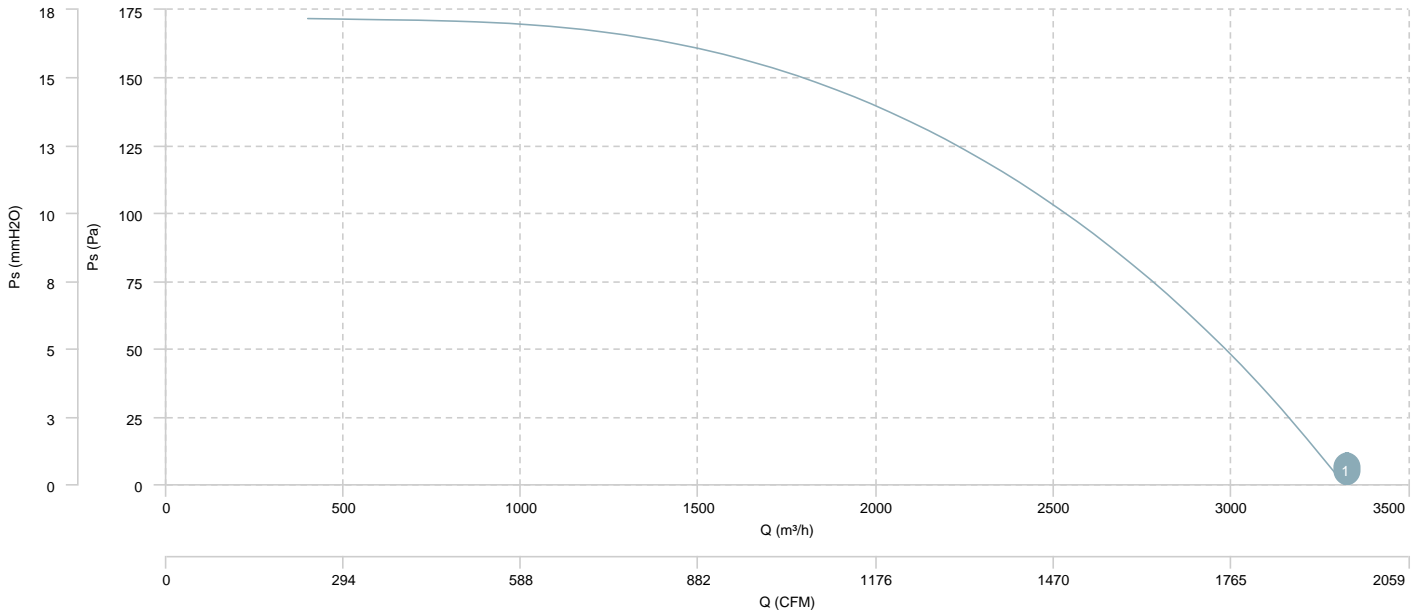
- 1 CTH3 225 M4 0,12kW ATEX
- 2 CTH3 250 M4 0,12kW ATEX
- 3 CTH3 280 M4 0,12kW ATEX
- 4 CTH3 315 M4 0,25KW ATEX

AIR FLOW - PRESSURE



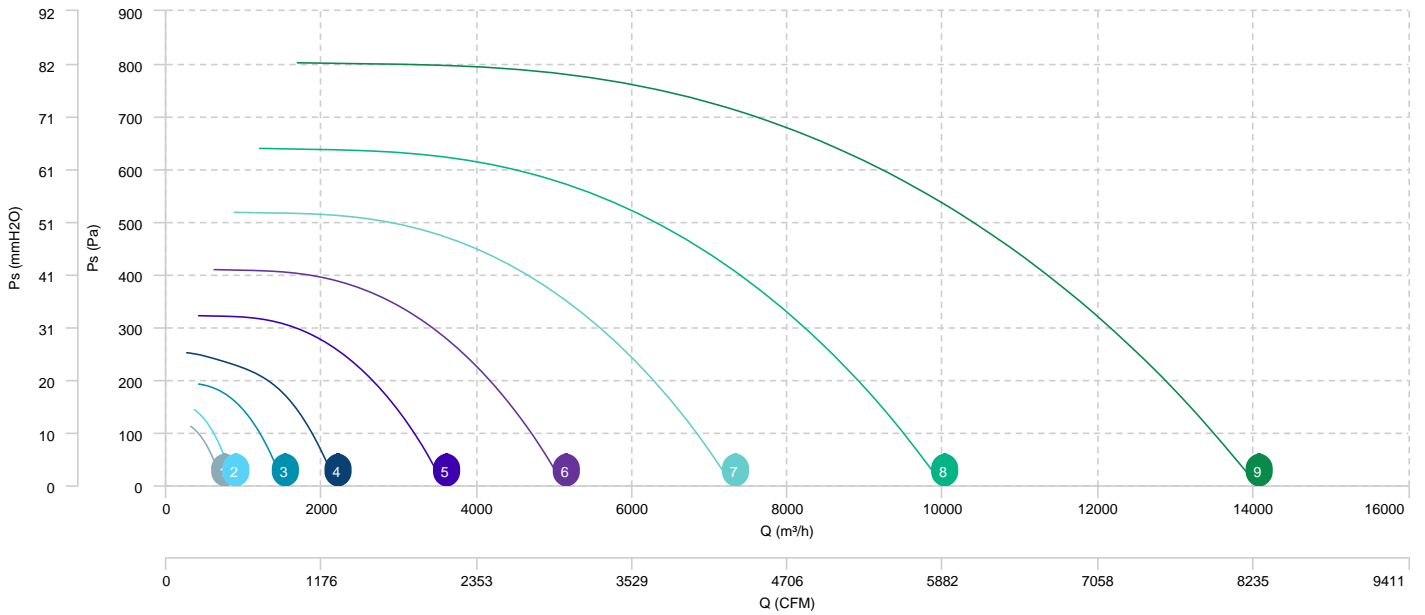
1 CTH3 400 M6 0,37KW
ATEX

AIR FLOW - PRESSURE



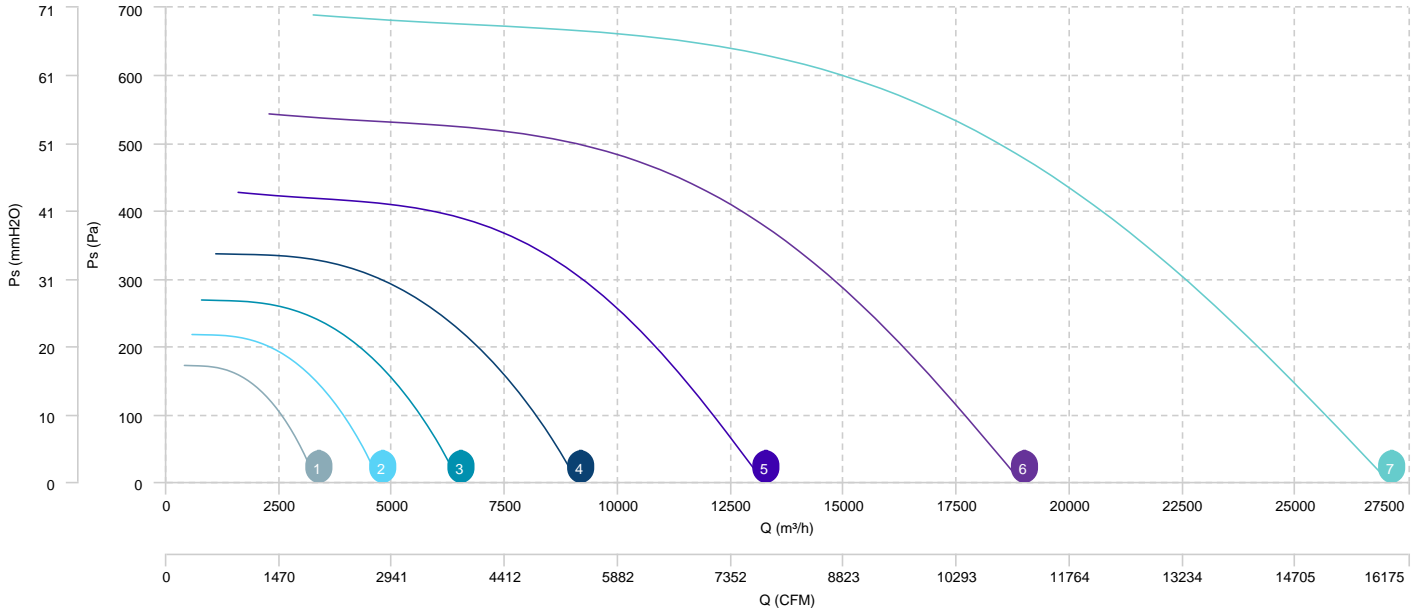
1	CTH3 225 T4 0,12kW ATEX	2	CTH3 250 T4 0,12kW ATEX	3	CTH3 280 T4 0,12kW ATEX	4	CTH3 315 T4 0,25kW ATEX
5	CTH3 355 T4 0,55kW ATEX	6	CTH3 400 T4 0,75kW ATEX	7	CTH3 450 T4 1,1kW ATEX	8	CTH3 500 T4 1,5kW ATEX
9	CTH3 560 T4 3kW ATEX						

AIR FLOW - PRESSURE



1	CTH3 400 T6 0,37KW ATEX	2	CTH3 450 T6 0,37KW ATEX	3	CTH3 500 T6 0,75KW ATEX	4	CTH3 560 T6 0,75KW ATEX
5	CTH3 630 T6 1,5KW ATEX	6	CTH3 710 T6 2,2KW ATEX	7	CTH3 800 T6 4KW ATEX		

AIR FLOW - PRESSURE



Sound data

Sound / 4 poles

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
CTH3 225 M4 0,12kW ATEX	Inlet	40	48	53	56	57	55	52	47	62
CTH3 225 T4 0,12kW ATEX	Inlet	40	48	53	56	57	55	52	47	62
CTH3 250 M4 0,12kW ATEX	Inlet	43	51	55	59	60	58	55	50	65
CTH3 250 T4 0,12kW ATEX	Inlet	43	51	55	59	60	58	55	50	65
CTH3 280 M4 0,12kW ATEX	Inlet	48	56	60	63	65	63	60	55	70
CTH3 280 T4 0,12kW ATEX	Inlet	48	56	60	63	65	63	60	55	70
CTH3 315 M4 0,25KW ATEX	Inlet	46	54	59	62	63	62	58	55	69
CTH3 315 T4 0,25KW ATEX	Inlet	46	54	59	62	63	62	58	55	69
CTH3 355 T4 0,55KW ATEX	Inlet	51	59	64	67	68	66	63	60	74
CTH3 400 T4 0,75KW ATEX	Inlet	54	62	67	70	71	69	66	63	77
CTH3 450 T4 1,1KW ATEX	Inlet	58	66	70	74	75	73	70	67	80
CTH3 500 T4 1,5KW ATEX	Inlet	61	69	74	77	78	76	73	70	83
CTH3 560 T4 3KW ATEX	Inlet	64	72	77	80	81	80	76	74	87

Sound / 6 poles

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
CTH3 400 M6 0,37KW ATEX	Inlet	45	53	57	61	62	60	57	54	67
CTH3 400 T6 0,37KW ATEX	Inlet	45	53	57	61	62	60	57	54	67
CTH3 450 T6 0,37KW ATEX	Inlet	48	56	61	64	65	64	60	57	71
CTH3 500 T6 0,75KW ATEX	Inlet	52	60	64	67	69	67	64	61	74
CTH3 560 T6 0,75KW ATEX	Inlet	55	63	68	71	72	70	67	64	77
CTH3 630 T6 1,5KW ATEX	Inlet	59	67	71	74	76	74	71	68	81
CTH3 710 T6 2,2KW ATEX	Inlet	62	70	75	78	79	77	74	71	85
CTH3 800 T6 4KW ATEX	Inlet	66	74	78	82	83	81	78	75	88