



EFFICIENT WORK



CAS-L/EW



INDUSTRIAL BRUSHLESS MOTOR E.C.



Centrifugal single-inlet, high-pressure fans with sheet steel casing and aluminium impeller fitted with industrial BRUSHLESS motor E.C.

Fan:

- Steel sheet casing
- Impeller with backward-facing blades made from cast aluminium.
- Electronic variable speed (VSD), three-phase or single-phase, is supplied with fan.

Motor and electronic variable speed:

- High-efficiency Industrial Brushless Motors E.C., fitted with electronic variable speed (VSD), adjustable via external control input 0-10V.
 - It is advisable to install an electronic variable speed drive (VSD) outside the working area.
 - The external signal can be supplied through a manual or automatic control with 0-10 V output.
 - Electronic variable speed drive (VSD), available with single-phase 220-240 V 50/60 Hz input (VSD1/B type) or three-phase 380-415 V 50/60 Hz (VSD3/B type).
- Working fan temperature: -25 °C +120°C.
 - Working temperature (VSD): -25 °C +50 °C.

Finish:

- Anticorrosive finish in polyester resin polymerised at 190°C, after alkaline degreasing with nanotechnology treatment and phosphate-free.

On request:

- Fan designed to transport air up to 250°C.
- Stainless steel fans
- Acoustic silencer at inlet.

Order code with variable speed drive (VSD) included

CAS-L/EW — 242 — 2 — 0.33 — B — T — D

CAS-L/EW: High-efficiency centrifugal single-inlet, high-pressure fans with sheet steel and aluminium impeller, "Efficient work"

Impeller size

Number of motor poles: 2=2850 r/min

Motor power (CV)

Industrial Brushless Motors E.C.

M: Fitted with VSD1/B, electronic variable speed, single phase power supply 220-240 V 50/60 Hz.

T: Fitted with VSD3/B, electronic variable speed, three-phase power supply 380-415 V 50/60 Hz.

D: Standard version, VSD supplied programmed for constant speed.

P: Supplied with VSD programmed for pressure control and Si-PreSi3n pressure transmitter
K: Supplied with VSD programmed for pressure control and built into a BOXPRES KIT/B box.

Technical characteristics

Model	Speed min/max (r/min)	Single-phase VSD 230 V 50/60 Hz		Three-phase VSD 400 V 50/60 Hz		Maximum electrical power (W)	Maximum airflow min/max (m³/h)	Sound pressure level min/max dB(A)	Weight approx. (Kg)
		Maximum current input (A)	Model VSD	Maximum current input (A)	Model VSD				
CAS-L/EW-242-2-0.33	300 / 2850	2.86	VSD1/B-0.37	0.84	VSD3/B-0.75	345	45 / 450	24 / 73	30.0
CAS-L/EW-242-2-0.5	300 / 2850	4.08	VSD1/B-0.37	1.20	VSD3/B-0.75	495	70 / 650	24 / 73	31.0
CAS-L/EW-248-2-0.75	300 / 2850	5.99	VSD1/B-0.37	1.76	VSD3/B-0.75	730	45 / 420	25 / 74	43.5
CAS-L/EW-248-2-1	300 / 2850	8.15	VSD1/B-0.75	1.92	VSD3/B-0.75	925	55 / 500	26 / 75	45.0
CAS-L/EW-248-2-1.5	300 / 2850	11.80	VSD1/B-0.75	2.78	VSD3/B-1.5	1345	105 / 990	27 / 76	46.5
CAS-L/EW-254-2-1.5	300 / 2850	11.80	VSD1/B-0.75	2.78	VSD3/B-1.5	1345	65 / 600	27 / 76	56.5
CAS-L/EW-254-2-2	300 / 2850	15.89	VSD1/B-1.5	3.74	VSD3/B-1.5	1810	85 / 800	29 / 78	61.5
CAS-L/EW-254-2-3	300 / 2850	23.11	VSD1/B-2.2	5.45	VSD3/B-2.2	2630	135 / 1300	31 / 80	63.0
CAS-L/EW-260-2-3	300 / 2850	23.11	VSD1/B-2.2	5.45	VSD3/B-2.2	2630	95 / 900	30 / 79	78.0



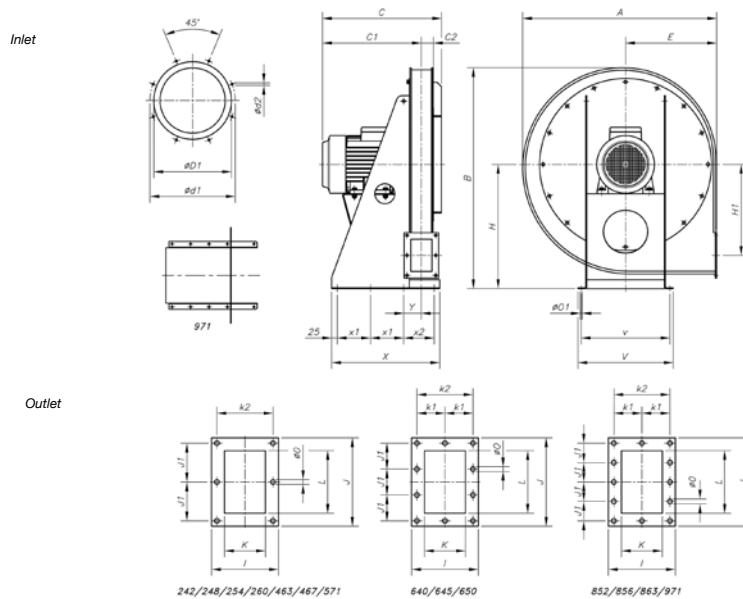
Acoustic features at maximum speed

The specified values are determined according to free field measurements of sound levels in dB(A) at an equivalent distance of twice the fan's span plus the impeller's diameter, with a minimum of 1.5 m.

Sound power Lw(A) spectrum in dB(A) via frequency band in Hz.

Model	63	125	250	500	1000	2000	4000	8000	Model	63	125	250	500	1000	2000	4000	8000
242-2-0,33	50	61	67	76	83	82	79	72	254-2-1,5	55	66	71	81	88	87	84	77
242-2-0,5	50	61	67	76	83	82	79	72	254-2-2	57	68	73	83	90	89	86	79
248-2-0,75	51	62	68	77	84	83	80	73	254-2-3	56	68	76	85	90	92	89	82
248-2-1	52	63	69	78	85	84	81	74	260-2-2	53	69	69	83	88	88	85	78
248-2-1,5	53	64	70	79	86	85	82	75	260-2-3	55	71	71	85	90	90	87	80

Dimensions in mm



Model	A	B	C	C1	C2	øD1	øD1	øD2	E	H	H1	I	J	J1	K	k1	k2	L	øO	øO1	V	v	X	x1	x2	Y
CAS-L/EW-242-2-0.33	576	662	282	219	33	100	130	M8	270	375	270	120	155	65	60	-	95	95	11	12	305	275	260	75	-	61
CAS-L/EW-242-2-0.5	576	662	310	247	33	100	130	M8	270	375	270	120	155	65	60	-	95	95	11	12	305	275	260	75	-	61
CAS-L/EW-248-2-0.75	639	728	315	249	36	112	140	M8	300	410	297	126	165	70	66	-	101	105	11	12	320	290	300	90	-	64
CAS-L/EW-248-2-1	639	728	340	274	36	112	140	M8	300	410	297	126	165	70	66	-	101	105	11	12	320	290	300	90	-	64
CAS-L/EW-248-2-1.5	639	728	340	274	36	112	140	M8	300	410	297	126	165	70	66	-	101	105	11	12	320	290	300	90	-	64
CAS-L/EW-254-2-1.5	699	788	365	294.5	40.5	125	155	M8	330	440	322	135	175	75	75	-	110	115	11	14	340	310	330	100	-	68.5
CAS-L/EW-254-2-2	699	788	413	342.5	40.5	125	155	M8	330	440	322	135	175	75	75	-	110	115	11	14	340	310	330	100	-	68.5
CAS-L/EW-254-2-3	699	788	443	372.5	40.5	125	155	M8	330	440	322	135	175	75	75	-	110	115	11	14	340	310	330	100	-	68.5
CAS-L/EW-260-2-3	782	875	419	343.5	47.5	150	175	M8	370	485	362	145	185	80	85	-	120	125	11	14	380	350	370	115	-	73.5

Positions

LG 270 standard supply
 LG 180 positions on request
 and with special fixing measurements.



Supplied on request
 RD 180 positions with special
 fixing measurements.

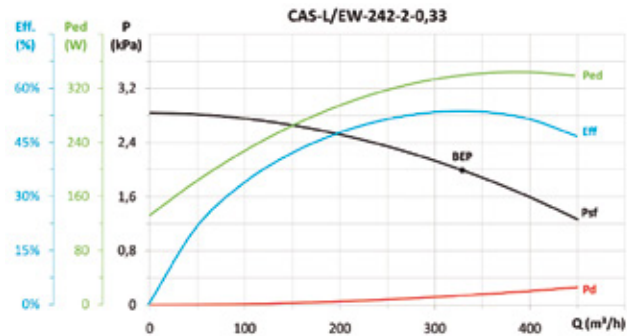




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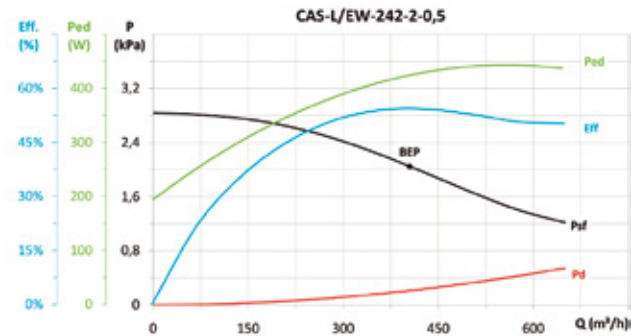


Erp. Characteristic curves and ErP data



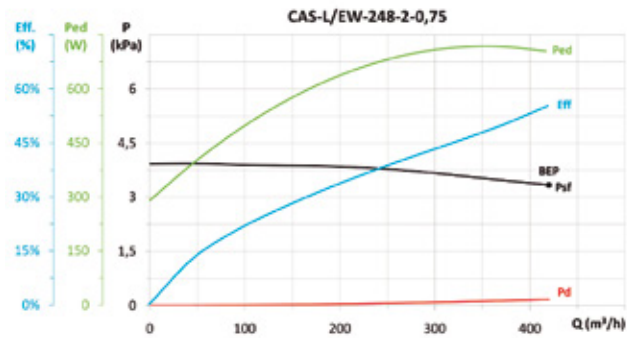
MC	EC	SR	Cc	η_b (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,02	1,12	60,1%	75,6	0,339	329	1992	2850	INCLUDED

* η_e (%) = Eff. (%) x Cc



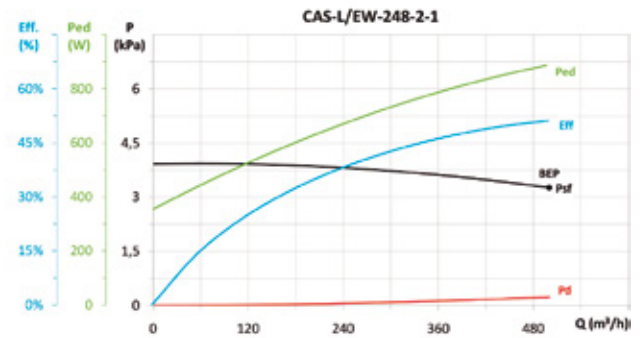
MC	EC	SR	Cc	η_b (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,02	1,11	60,6%	75,0	0,423	405	2049	2850	INCLUDED

* η_e (%) = Eff. (%) x Cc



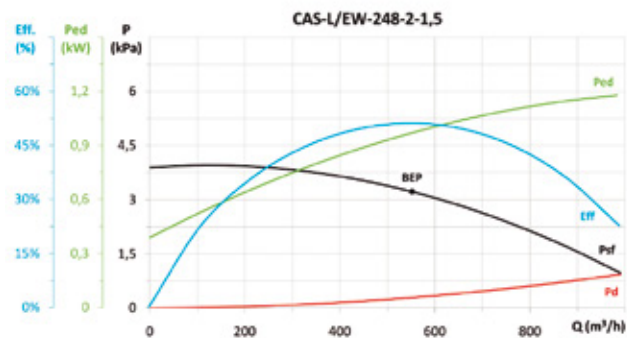
MC	EC	SR	Cc	η_b (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,03	1,10	60,7%	72,8	0,704	420	3337,1	2850	INCLUDED

* η_e (%) = Eff. (%) x Cc



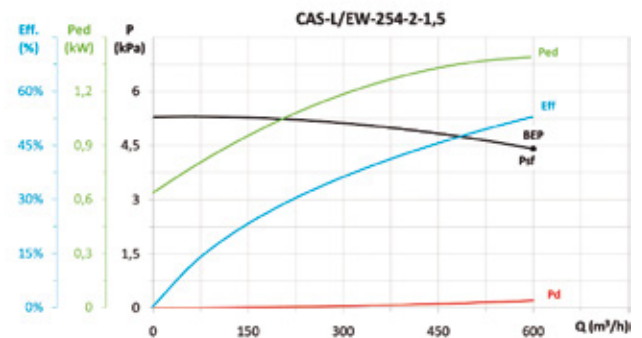
MC	EC	SR	Cc	η_b (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,03	1,09	55,8%	66,9	0,886	500	3263,7	2850	INCLUDED

* η_e (%) = Eff. (%) x Cc



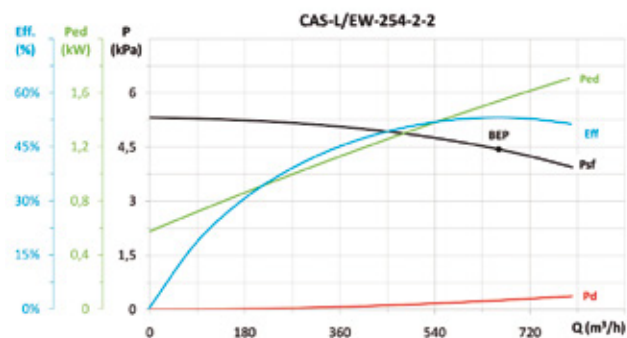
MC	EC	SR	Cc	η_b (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,03	1,09	55,7%	66,3	0,966	552	3224,0	2850	INCLUDED

* η_e (%) = Eff. (%) x Cc



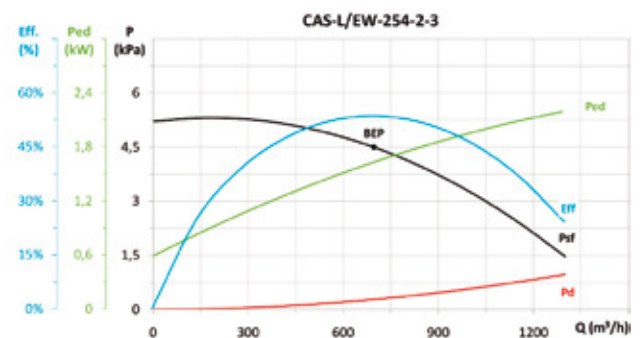
MC	EC	SR	Cc	η_b (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,05	1,08	57,0%	66,0	1,390	600	4411,5	2850	INCLUDED

* η_e (%) = Eff. (%) x Cc



MC	EC	SR	Cc	η_b (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,05	1,08	57,1%	65,7	1,534	661	4437,9	2850	INCLUDED

* η_e (%) = Eff. (%) x Cc

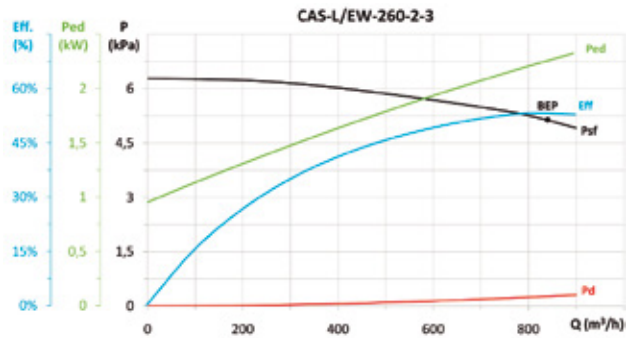


MC	EC	SR	Cc	η_b (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,05	1,07	57,5%	65,8	1,624	697	4497,5	2850	INCLUDED

* η_e (%) = Eff. (%) x Cc



Erp. Characteristic curves and ErP data



MC	EC	SR	Cc	η_a [%]*	N	[kW]	[m^3/h]	[Pa]	[rpm]	VSD
A	S	1,05	1,06	56,7%	63,5	2,250	840	5140,6	2850	INCLUDED

* η_e [%] = Eff. [%] x Cc

Accessories

See accessories section.

