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Edizione/Release 2000

Motore a rotore esterno

Gli elettroventilatori GR, sia assiali che centrifughi, utilizzano motori a rotore esterno: il notevole consenso ottenuto da questa tipologia di motori, soprattutto nel campo della ventilazione, si deve ai molteplici vantaggi che questa presenta:

- minor ingombro
- ventole direttamente fissate sul rotore
- motore direttamente investito dal flusso d'aria e quindi meglio raffreddato
- buon comportamento nella regolazione di velocità a variazione di tensione
- equilibratura contemporanea dell'insieme ventola-motore
- gradevolezza estetica

External rotor motor

Both axial and centrifugal GR electrofans use external-rotor motors: the remarkable consent gained by this kind of motors, above all in ventilation field, is due to the manifold advantages offered:

- smaller encumbrance
- impeller blades directly mounted onto the rotor
- motor directly hit from the air flow and therefore better cooled
- good endurance during speed regulation at voltage variation
- contemporaneous balance of the fan-motor group
- aesthetic pleasantness

Caratteristiche elettromeccaniche

Gli elettroventilatori GR sono costruiti, salvo richieste particolari, secondo le seguenti specifiche:

- poli: 4 - 6
- alimentazione: 230V/50Hz monofase
  400V/50Hz trifase
- cuscinetti a sfere
- equilibratura: G 6.3 assiali
  G 2.5 centrifughi
- ventole in peralluminio o acciaio verniciate a polveri
- isolamento in classe B (a richiesta F)
- grado di protezione: IP44 assiali
  IP42 centrifughi
- protezione contro le scosse elettriche: classe I
- protezione contro i sovraccarichi su tutti i modelli monofase (a richiesta sui modelli trifase)

Electromechanical features

GR electrofans are manufactured according to the following specification, unless particular requests should be given:

- poles: 4 - 6
- power supply: 230V/50Hz single-phase
  400V/50Hz three-phase
- ball bearings
- balance: G 6.3 axial
  G 2.5 centrifugal
- peralluminium or inox fan painted with powders
- insulation: class B material
- protection degree: IP44 axial
  IP42 centrifugal
- protection against electric shock: class I
- overload protection on every single-phase models (also on three-phase models if requested)

Caratteristiche aerauliche

Le curve di Portata/Pressione riportate nel presente catalogo sono state rilevate nel nostro laboratorio utilizzando un tunnel di ventilazione costruito secondo normative AMCA 210-85

Aeraulic features

The air performance curves illustrated in this catalogue have been measured in our laboratory by using a ventilation tunnel manufactured following AMCA 210-85 Directives.

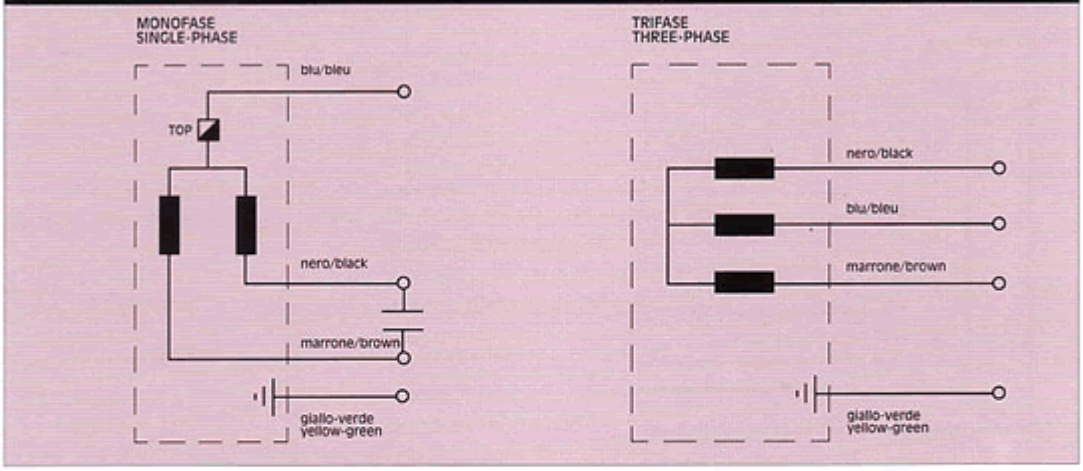
Campo di applicazione

Le stesse curve di Portata/Pressione sopra menzionate delimitano anche il campo di applicazione di ogni singolo modello.
La temperatura ambiente deve essere compresa tra -20 e +50° C (valori riferiti alle condizioni nominali di funzionamento).

Range of application

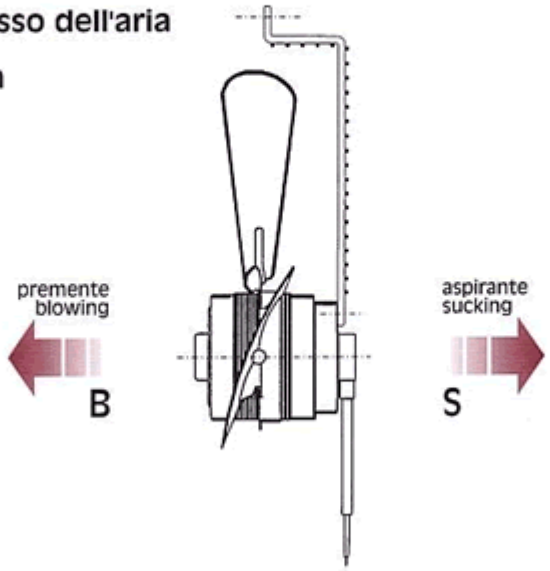
The same air performance curves above mentionated also delimit the range of application of every type.
The ambient temperature has to be within -20 and +50° C (values refer to the rated operating points).

Schemi di collegamento - Wirings



Direzione del flusso dell'aria

Airflow Direction



Codifica del tipo di elettroventilatore

Al momento dell'ordine consigliamo di utilizzare la seguente codifica al fine di identificare immediatamente ed inequivocabilmente le vostre esigenze.

Electrofans coding

When ordering, we advise you to use the following coding in order to immediately identify your requests without equivocations.

X X X XXX X XX

- XX: 00 = standard meccanico ed elettrico / mechanical and electric standard
- X: B = premente / blowing; S = aspirante / sucking
- XXX: diametro ventola / impeller diameter
- X: M = monofase / single-phase; T = trifase / three-phase
- X: n° poli / number of poles
- X: A = ventilatore assiale / axial fan; W = ventilatore assiale con griglia piana / axial fan with flat guard grill; S = ventilatore assiale con griglia a cestello / axial fan with basket guard grille; D = ventilatore centrifugo / centrifugal fan

Esigenze particolari

Il presente catalogo, facendo una panoramica sugli elettroventilatori GR di tipo standard, non illustra quella considerevole quota di produzione GR che viene invece personalizzata.
GR mette infatti a disposizione dei suoi clienti il proprio know-how e le proprie strutture tecniche al fine di meglio soddisfare anche le esigenze più specifiche.
Solo a titolo esemplificativo:

- grado di protezione IP 54
- classe isolamento F
- terminali cavetti secondo richiesta
- varianti meccaniche (griglia piana, a cestello, speciale su disegno cliente)
- differenti tensioni e frequenze
- differenti prestazioni a parità di diametro ventola
- costruzioni secondo standard UL, VDE
- ecc.

Particular demands

This catalogue, though making an outline of GR standard electrofans, does not show that remarkable GR production that is customized.
GR does in fact offer their know-how and their technical instruments to their Custommers in order to better satisfy even the most specific demands.
For example only:

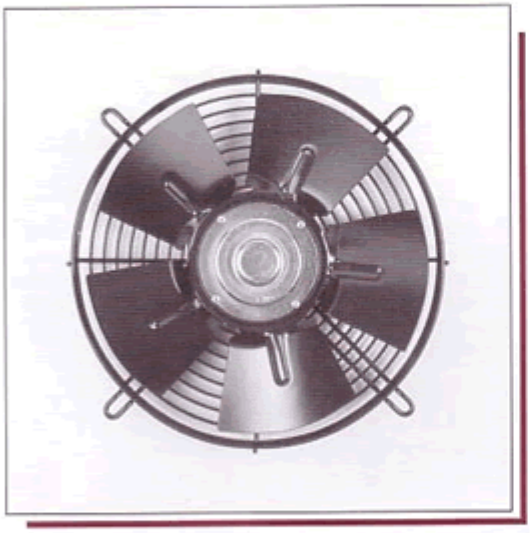
- protection degree: IP 54
- insulation: class F material
- cable terminal: as per request
- mechanical variants (flat fan guard, regular fan guard, special fan guard following the Customer's plan)
- different voltages and frequencies
- different air performances with the same impeller diameter
- products following UL, VDE standards
- ecc.

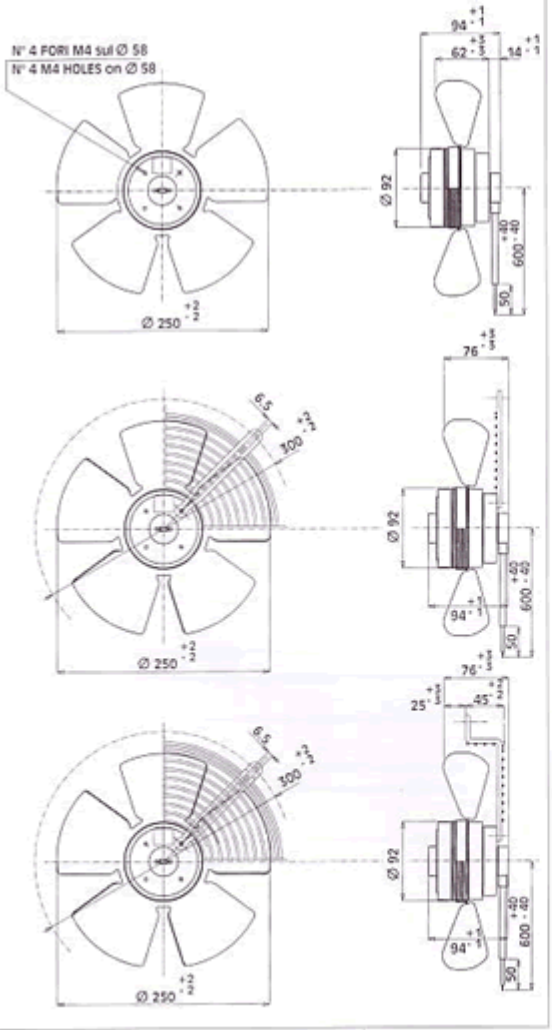
Normative di riferimento

IEC 335-1 (CEI 61-50)
IEC 34-1 (CEI 2-3)

Directives of reference

IEC 335-1 (CEI 61-50)
IEC 34-1 (CEI 2-3)





ventilatore assiale Ø 250

axial fan Ø 250

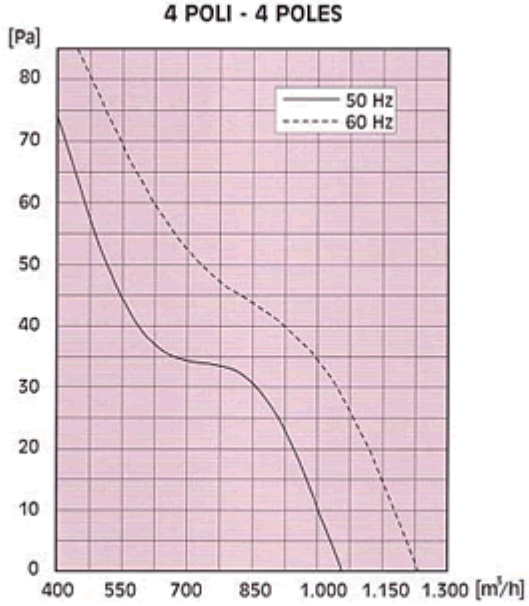
5 pale/blades

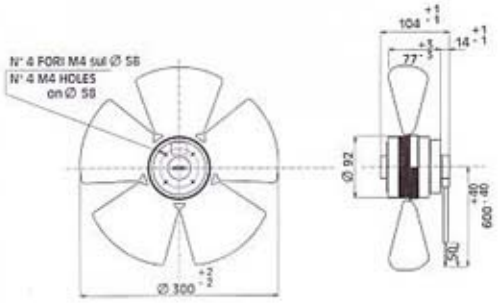
TIPO - TYPE		4M250
tensione voltage	V	230
Frequenza Frequency	Hz	50/60
Portata d'aria Air volume	m^3/h	1060-1230
Velocità Speed	rpm	1420-1650
Potenza assorbita Power Input	Win	40-48
Corrente Current	A	0.20-0.22
Condensatore Capacitor	μF	1.25
Livello di Rumore Noise level	dBA	58-61
Peso del solo ventilatore Only fan weight	Kg	1.9

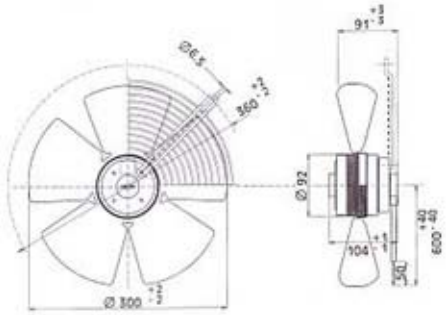
SELEZIONE
SELECTION

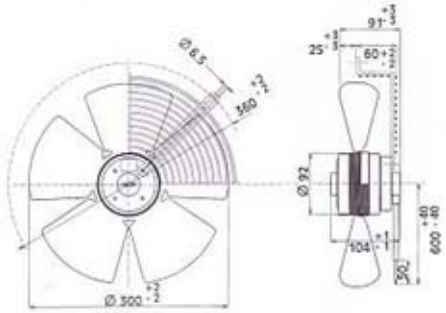
TIPO - TYPE	Direzione dell'aria Airflow direction			
4M250	S	A 4M250 S 00	W 4M250 S 00	S 4M250 S 00
	B	A 4M250 B 00	W 4M250 B 00	S 4M250 B 00

4 POLI - 4 POLES









ventilatore assiale Ø 300

axial fan Ø 300

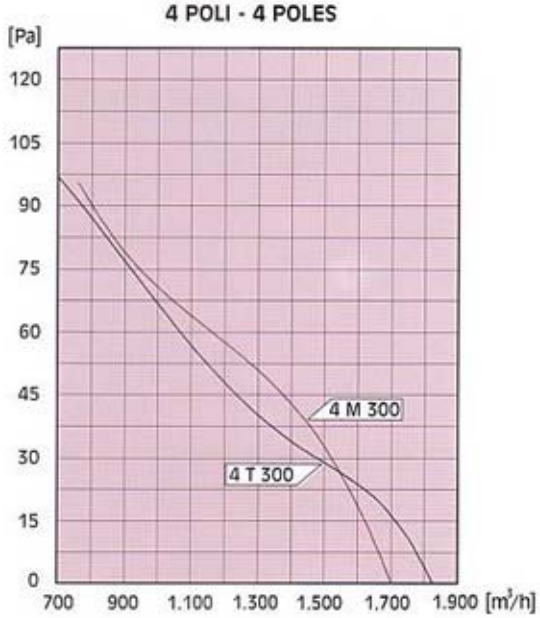
5 pale/blades

TIPO - TYPE		4M300	4T300	6M300
tensione voltage	V	230	400	230
Frequenza Frequency	Hz	50	50	50
Portata d'aria Air volume	m^3/h	1700	1820	1160
Velocità Speed	rpm	1400	1380	900
Potenza assorbita Power Input	Win	90	110	45
Corrente Current	A	0.42	0.19	0.23
Condensatore Capacitor	μF	2.5	-	1.5
Livello di Rumore Noise level	dBA	61	64	58
Peso del solo ventilatore Only fan weight	Kg	2.6	2.6	2.6

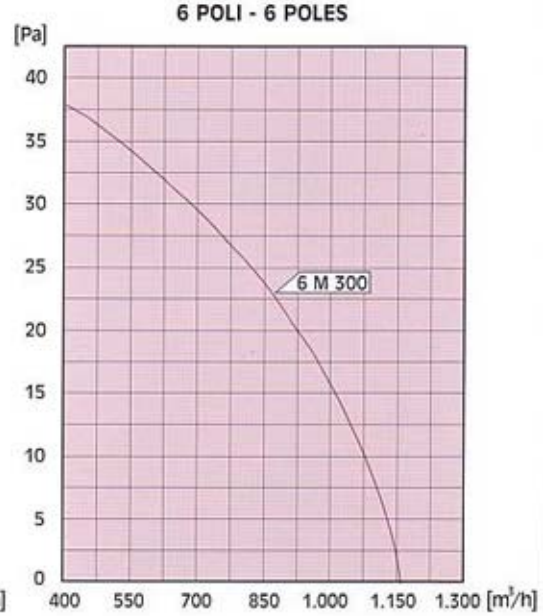
SELEZIONE
SELECTION

TIPO - TYPE	Direzione dell'aria Airflow direction			
4M300	S	A 4M300 S 00	W 4M300 S 00	S 4M300 S 00
	B	A 4M300 B 00	W 4M300 B 00	S 4M300 B 00
4T300	S	A 4T300 S 00	W 4T300 S 00	S 4T300 S 00
	B	A 4T300 B 00	W 4T300 B 00	S 4T300 B 00
6M300	S	A 6M300 S 00	W 6M300 S 00	S 6M300 S 00
	B	A 6M300 B 00	W 6M300 B 00	S 6M300 B 00

4 POLI - 4 POLES



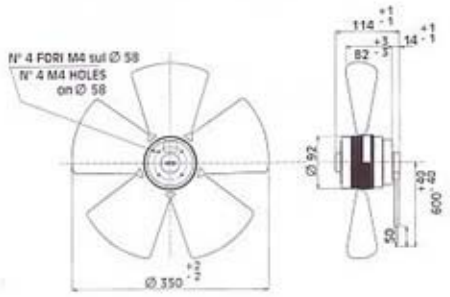
6 POLI - 6 POLES

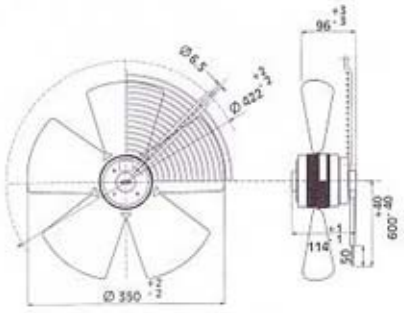


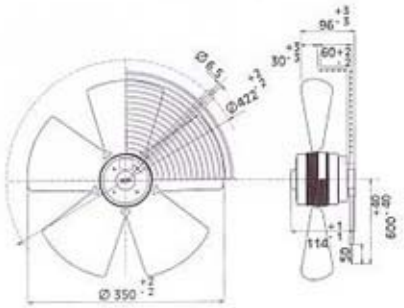
ventilatore assiale Ø 350

axial fan Ø 350

5 pale/blades





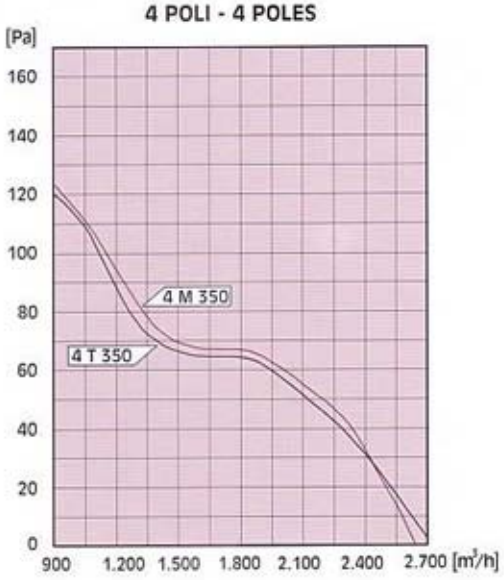


TIPO - TYPE		4M350	4T350	6M350	6T350
tensione voltage	V	230	400	230	400
Frequenza Frequency	Hz	50	50	50	50
Portata d'aria Air volume	m^3/h	2650	2750	1840	1820
Velocità Speed	rpm	1350	1370	900	920
Potenza assorbita Power input	Win	140	135	65	70
Corrente Current	A	0.65	0.27	0.29	0.17
Condensatore Capacitor	μF	3	-	2	-
Livello di Rumore Noise level	dBA	60	63	56	57
Peso del solo ventilatore Only fan weight	Kg	2.8	2.8	2.8	2.8

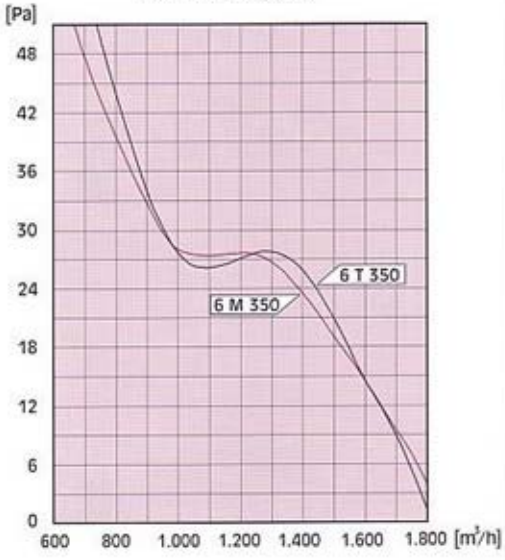
SELEZIONE
SELECTION

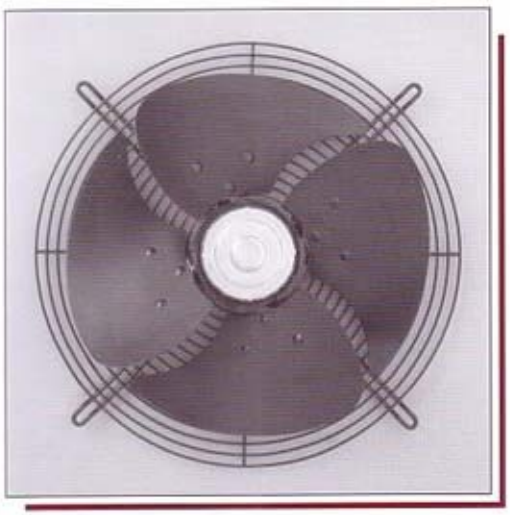
TIPO - TYPE	Direzione dell'aria Airflow direction			
4M350	S	A 4M350 S 00	W 4M350 S 00	S 4M350 S 00
	B	A 4M350 B 00	W 4M350 B 00	S 4M350 B 00
4T350	S	A 4T350 S 00	W 4T350 S 00	S 4T350 S 00
	B	A 4T350 B 00	W 4T350 B 00	S 4T350 B 00
6M350	S	A 6M350 S 00	W 6M350 S 00	S 6M350 S 00
	B	A 6M350 B 00	W 6M350 B 00	S 6M350 B 00
6T350	S	A 6T350 S 00	W 6T350 S 00	S 6T350 S 00
	B	A 6T350 B 00	W 6T350 B 00	S 6T350 B 00

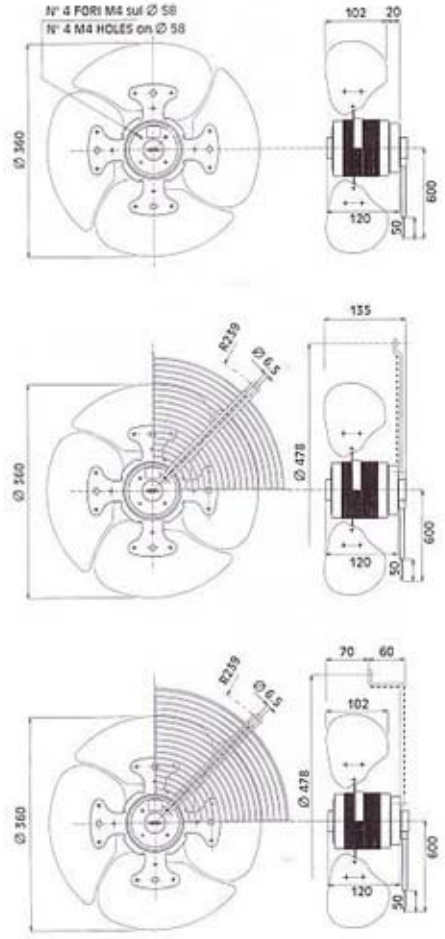
4 POLI - 4 POLES



6 POLI - 6 POLES







ventilatore assiale Ø 360

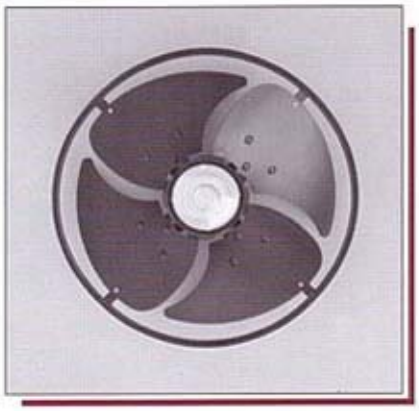
axial fan Ø 360

4 pale/blades

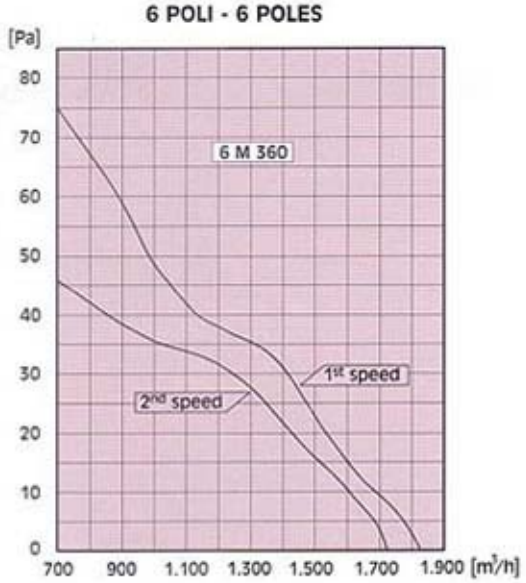
TIPO - TYPE		6M360
tensione voltage	V	230
Frequenza Frequency	Hz	50
Portata d'aria Air volume	m^3/h	1850
Velocità Speed	rpm	940
Potenza assorbita Power Input	Win	85
Corrente Current	A	0.39
Condensatore Capacitor	μF	2.5
Livello di Rumore Noise level	dBA	51
Peso del solo ventilatore Only fan weight	Kg	3.6

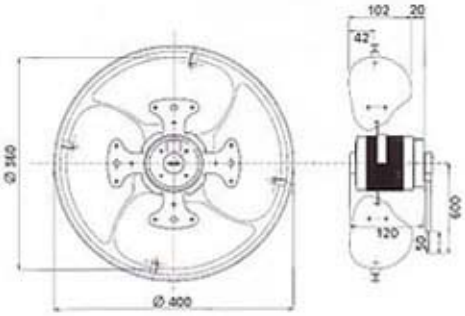
SELEZIONE
SELECTION

TIPO - TYPE	Direzione dell'aria Airflow direction			
6M360	S	A 6M360 S 00	W 6M360 S 00	S 6M360 S 00
	B	A 6M360 B 00	W 6M360 B 00	S 6M360 B 00

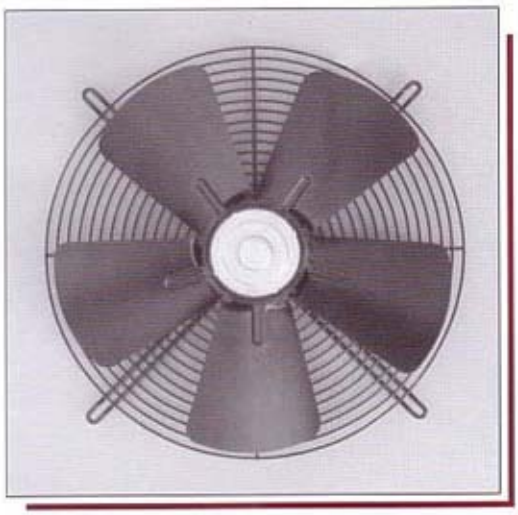


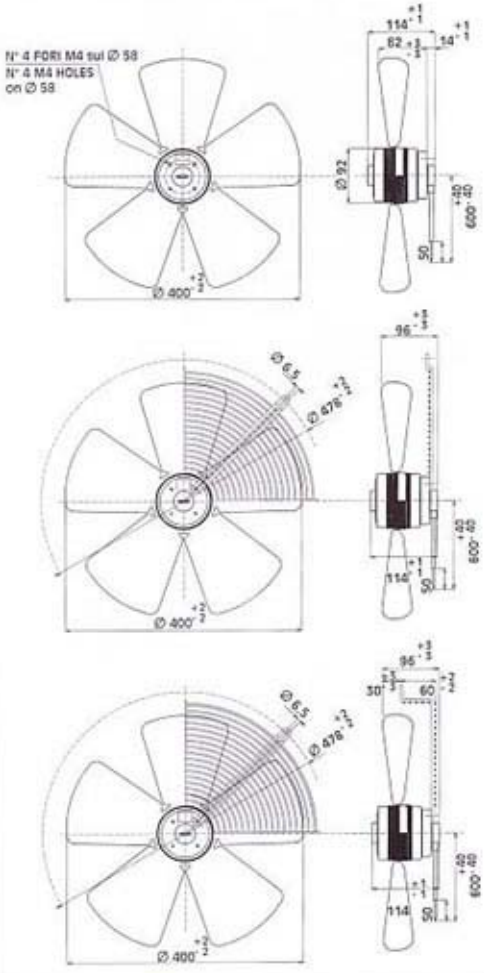
6 POLI - 6 POLES





La versione con anello disperdi-condensa è disponibile su richiesta.
Version with slinger available on request.





ventilatore assiale Ø 400

axial fan Ø 400

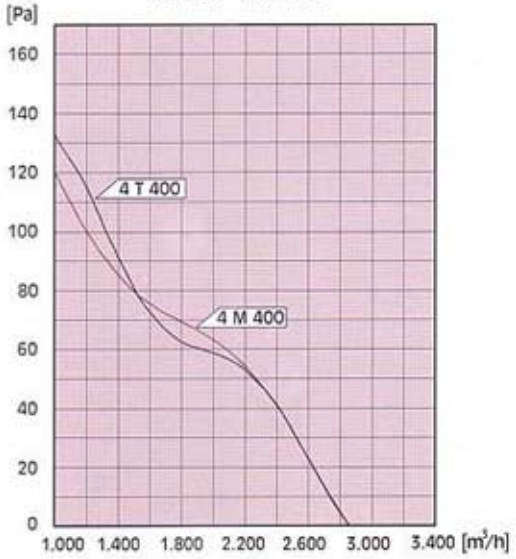
5 pale/blades

TIPO - TYPE		4M400	4T400	6M400	6T400
tensione voltage	V	230	400	230	400
Frequenza Frequency	Hz	50	50	50	50
Portata d'aria Air volume	m^3/h	2880	2900	2200	2290
Velocità Speed	rpm	1380	1400	940	940
Potenza assorbita Power Input	Win	115	120	60	65
Corrente Current	A	0.55	0.26	0.27	0.17
Condensatore Capacitor	μF	2.5	-	2	-
Livello di Rumore Noise level	dBA	65	64	57	59
Peso del solo ventilatore Only fan weight	Kg	2.8	2.8	2.8	2.8

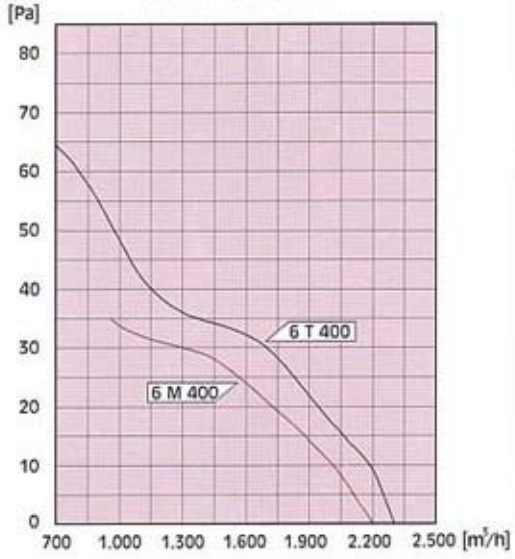
SELEZIONE
SELECTION

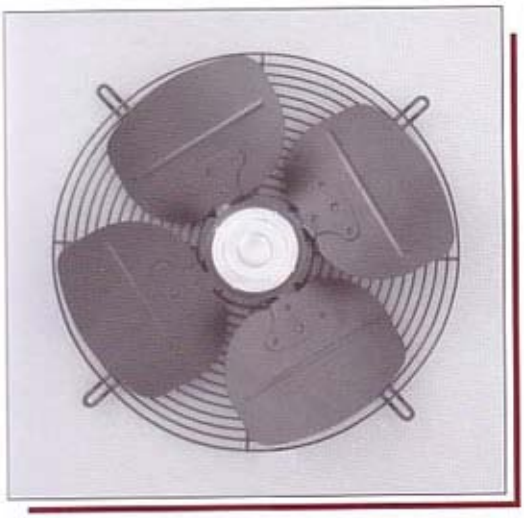
TIPO - TYPE	Direzione dell'aria Airflow direction			
4M400	S	A 4M400 S 00	W 4M400 S 00	S 4M400 S 00
	B	A 4M400 B 00	W 4M400 B 00	S 4M400 B 00
4T400	S	A 4T400 S 00	W 4T400 S 00	S 4T400 S 00
	B	A 4T400 B 00	W 4T400 B 00	S 4T400 B 00
6M400	S	A 6M400 S 00	W 6M400 S 00	S 6M400 S 00
	B	A 6M400 B 00	W 6M400 B 00	S 6M400 B 00
6T400	S	A 6T400 S 00	W 6T400 S 00	S 6T400 S 00
	B	A 6T400 B 00	W 6T400 B 00	S 6T400 B 00

4 POLI - 4 POLES



6 POLI - 6 POLES

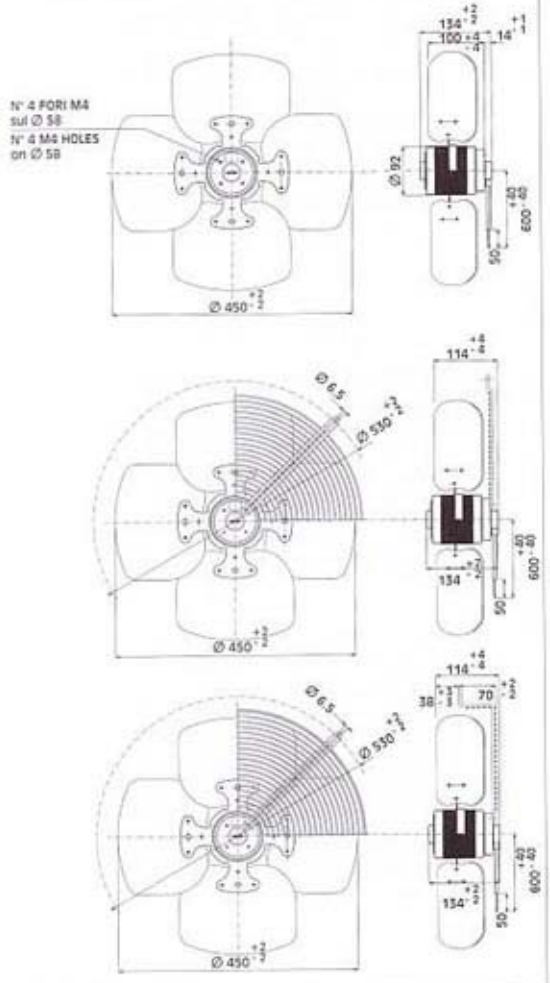




ventilatore assiale Ø 450

axial fan Ø 450

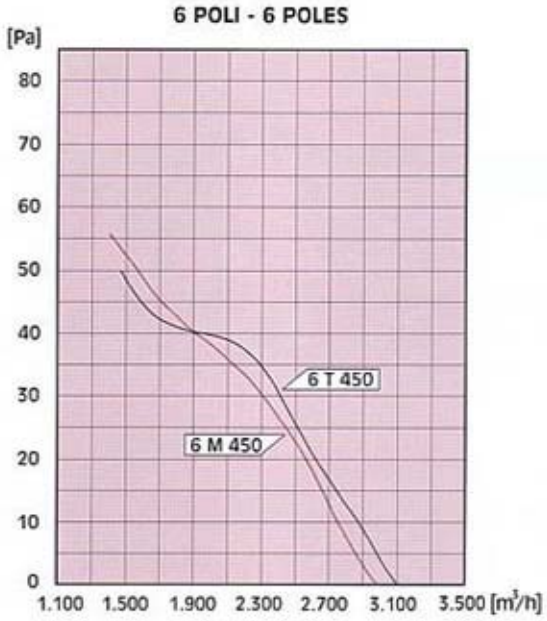
4 pale/blades



TIPO - TYPE		6M450	6T450
tensione voltage	V	230	400
Frequenza Frequency	Hz	50	50
Portata d'aria Air volume	m^3/h	3000	3050
Velocità Speed	rpm	925	900
Potenza assorbita Power Input	Win	100	105
Corrente Current	A	0.46	0.23
Condensatore Capacitor	μF	2.5	-
Livello di Rumore Noise level	dBA	57	58
Peso del solo ventilatore Only fan weight	Kg	3.8	3.8

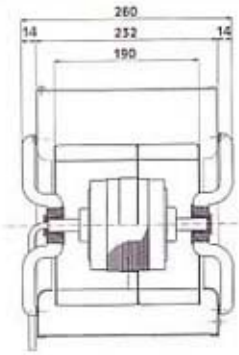
SELEZIONE
SELECTION

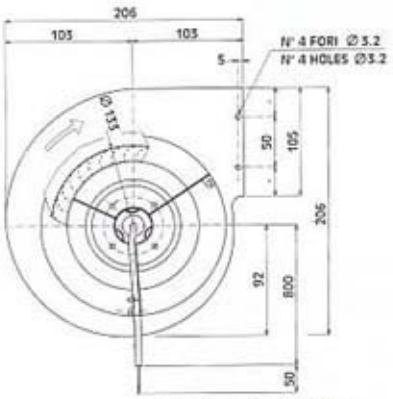
TIPO - TYPE	Direzione dell'aria Airflow direction			
6M450	S	A 6M450 S 00	W 6M450 S 00	S 6M450 S 00
	B	A 6M450 B 00	W 6M450 B 00	S 6M450 B 00
6T450	S	A 6T450 S 00	W 6T450 S 00	S 6T450 S 00
	B	A 6T450 B 00	W 6T450 B 00	S 6T450 B 00



ventilatore centrifugo Ø133 - L190

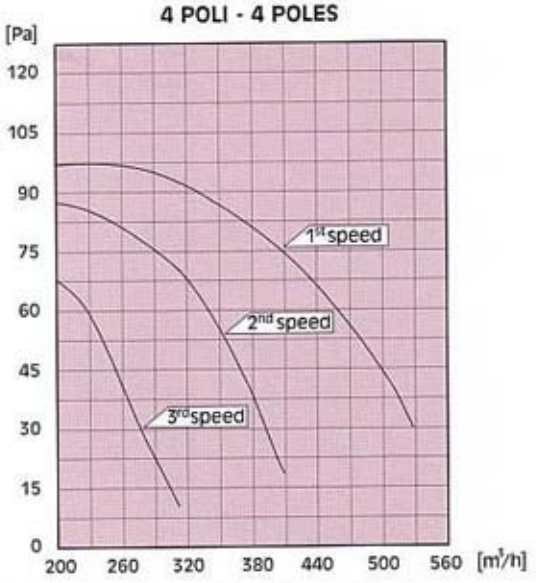
centrifugal fan Ø133 - L190





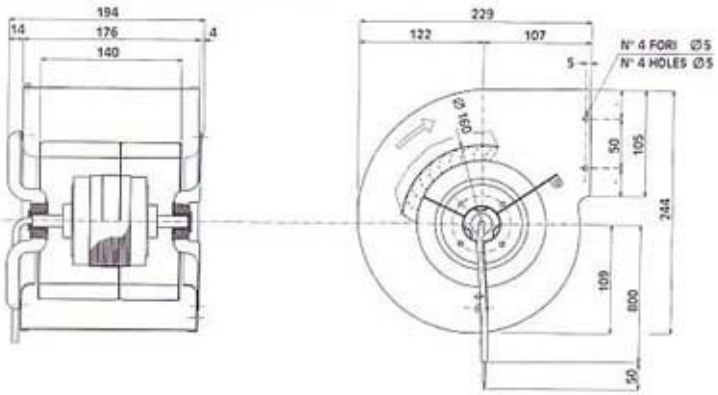
TIPO - TYPE		4M133
tensione voltage	V	230
Frequenza Frequency	Hz	50
Portata d'aria Air volume	m^3/h	530
Velocità Speed	rpm	1250
Potenza assorbita Power Input	Win	63
Corrente Current	A	0.28
Condensatore Capacitor	μF	2
Livello di Rumore Noise level	dBA	55
Peso del solo ventilatore Only fan weight	Kg	4.1

4 POLI - 4 POLES



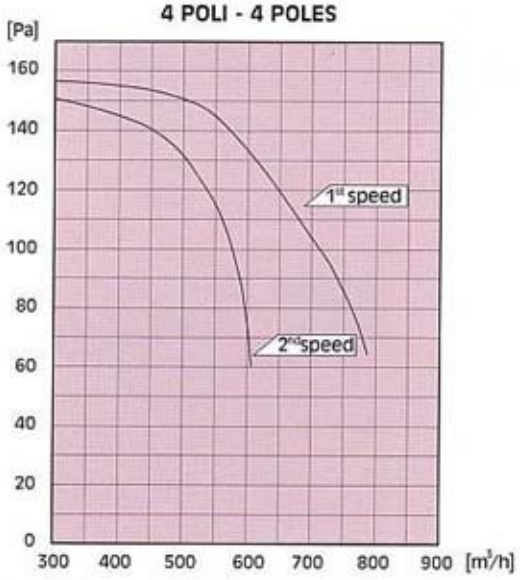
ventilatore centrifugo Ø160 - L140

centrifugal fan Ø160 - L140



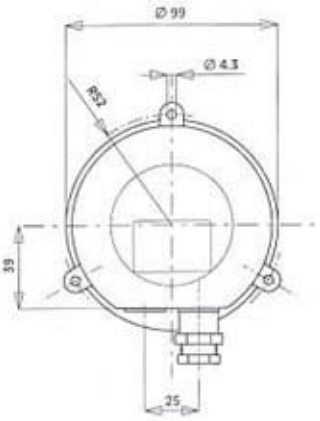
TIPO - TYPE		4M160
tensione voltage	V	230
Frequenza Frequency	Hz	50
Portata d'aria Air volume	m^3/h	790
Velocità Speed	rpm	1300
Potenza assorbita Power Input	Win	125
Corrente Current	A	0.56
Condensatore Capacitor	μF	2.5
Livello di Rumore Noise level	dBA	59
Peso del solo ventilatore Only fan weight	Kg	4.2

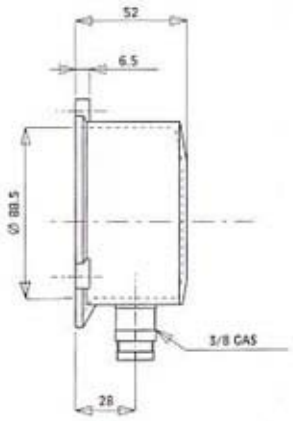
4 POLI - 4 POLES



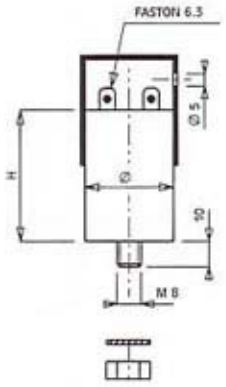
Accessori
Accessories

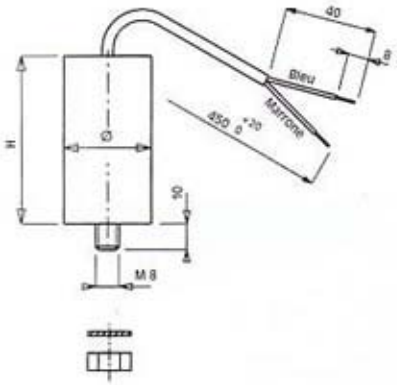
SCATOLA DI CONNESSIONE
TERMINAL BOX





CONDENSATORI
CAPACITORS





µF	CODICE	Ø	H
1.25	K0004.01	30	55
1.5	K0004.02	30	55
2	K0004.03	30	55
2.5	K0004.04	30	55
3	K0004.05	30	55
4	K0004.06	30	55

µF	CODICE	Ø	H
2.5	K0009.01	30	55
3	K0009.02	30	55