SICMEMOTORI

D.C. MOTORS FOR INDUSTRIAL APPLICATIONS

RP SERIES

FRAMES 200 – 355

FROM 70 TO 850 kW (1000 RPM)

FROM 710 TO 9150 Nm

TECHNICAL CATALOGUE

C-RP200-355-E-16-2

LIST OF CONTENTS

THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

IQNet and its partner
CISQ/IMQ-CSQ
hereby certify that the organization

SICME MOTORI SRL

STRADA DEL FRANCESE 130 - 10156 TORINO (TO)

for the following field of activities

Design, engineering, production and sale of direct current motors and generators: alternate current, permanent magnets synchronous, reluctance
Refer to quality manual for details of applications to ISO 9001:2008 requirements

has implemented and maintains a

Quality Management System

which fulfills the requirements of the following standard

ISO 9001:2008

Issued on: 2014 - 07 - 22 Expiry date: 2017 - 07 - 22

Registration Number: IT - 1088

The status of validity of the certificate can be verified at http://www.cisq.com or by e-mail to fedcisq@cisq.com

Michael Drechsel
President of IQNET

Ing. Claudio Provetti
President of CISQ

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A. GENERAL DESCRIPTION

This catalogue gives the main technical information about D.C. motors for industrial applications RP Series, frames 200-225-250-280-315-355.

Motors described in this catalogue are fully laminated, with 4 poles, with compensating windings. Frames 225 and 250 are also available without compensating windings.

Designation of the motors (example)

RP	:	Motor series
280	:	Shaft height (mm)
K	:	Compensating windings (N: not compensating windings)
M	:	Core length
6	:	Selection code for length definition
PVA	:	Type of cooling
B3	:	Mounting arrangement

A.01 Manufacturer's liabilities

SICMEMOTORI is subject to assumption of liability for damages to persons or things attributed to the manufacturer by the Italian law DPR 224 dated 24/05/1988 (which has incorporated EEC Directive 85/374) and any subsequent amendments, provided that these are known and in force at the time of order, with the proviso that all SICMEMOTORI products are designed solely for installation and use in an industrial environment by sufficiently experienced personnel (to be instructed by the Customer, with the co-operation of SICMEMOTORI, if required), which is informed of the problems and dangers inherent in the use of rotating electric machines for voltages up to 1000 V.
Furthermore, SICMEMOTORI responsibility shall lapse in the event of failure to adhere to the contents of the INSTRUCTIONS FOR INSTALLATION, USE AND MAINTENANCE, which must always be made available to the personnel concerned. Lastly, SICMEMOTORI shall not be held responsible if any of its products are tampered with for repair or any other reason, by third parties which have not been explicitly authorised

A.02 Validity of the catalogue

Information given in this catalogue is of a purely indicative nature and may be changed without prior notice.
SICMEMOTORI shall not be held responsible if the products illustrated herein are used outside the limits of the specifications given.

A.03 Reserved property

This document and its contents are the sole property of SICMEMOTORI. They may not be reproduced either wholly or in part, nor shown, referred to or in any way transmitted to other persons without express permission in writing from SICMEMOTORI.

A.04 Warranty

All the products described herein are warranted according to our General Terms of Supply given under F.02. The duration of the warranty is one year from the date of delivery or of notice that goods are ready, unless otherwise agreed between the Customer and SICMEMOTORI. **Warranty and sales support are regulated by instructions given by our ISO9001-2000 Quality System.**

A.05 Motors and generators

All RP machines can in general be used both as motors and as d.c. generators. Performance ratings given in the technical catalogues refer to use as variable speed motors connected to three-phase, fully-controlled bridge (6 or 12 thyristors) or, for frames 80-112 only, to single-phase bridge also.
The performance ratings concerning use as generator will be given upon request.

A.06 Clockwise and counter-clockwise rotation

All RP machines are suitable for either clockwise or counter-clockwise rotation without adjustment (as the brushes are radial), and they are generally tuned in the Test Room for this operating condition. In special cases, when the direction of rotation is defined, upon request, Test Room tuning may be carried out for one direction only, which will be indicated by a special plate on the DE (Drive End) shield.

A.07 Reference Standards

All RP machines meet the Standards of the International Electrotechnical Commission (IEC 60034-1):

IEC	CEI	Title
60034-1	**EN 60034-1**	Rating and performances
60034-2	**EN 60034-2**	Methods for determining losses and efficiency
60034-5	**EN 60034-5**	Classification of the degrees of protection
60034-6	**EN 60034-6**	Methods of cooling (IC code)
60034-7	**EN 60034-7**	Type of construction and mounting arrangements (IM code)
60034-8	**EN 60034-8**	Terminal markings and direction of rotation
34-9	**EN 60034-9**	Noise limits
60034-14	**EN 60034-14**	Mechanical vibrations of rotating machines
72-1	**72-1**	Dimensions and output series for rotating machines
1293	**16-8**	Markings of electrical devices
UNI ISO 2768/1-2		General tolerances
UNI 9321		Shaft end
73/23/EEC		Low voltage directive
EMC 2014/30/EU		Electromagnetic compatibility directive
98/37/CE		Machine directive

WARNING
Motors and electrical devices feeding them are electrical components installed on machines and industrial systems subject to high voltage. During operation, these components can be dangerous since they are live and have non-insulated and rotating parts. Therefore, they can be extremely harmful to personnel and objects if the instructions for the installation, the use and the maintenance are not respected.
Motors are always supplied complete with the installation, use and maintenance instruction manual. It is necessary to read and understand all the information contained before proceeding to connect and to start up the installation.
If the above mentioned documentation is lacking, please request a copy to Sicme Motori Srl

RP motors power ratings are valid according to the International Standards listed below.

Belgium	BN C 51-101
France	NF C 51-111
Germany	VDE 0530 teil 1
Great Britain	BS 4999
ITALY	CEI EN 60034-1
Norway	NEN 41.69
Holland	NEN 3173
Spain	UNE 20.106-20.111
Sweden	SEN 260.101
Switzerland	SEV 3009

Machines according to other International Standards are available on request.

A.08 CSA Certification

All RP machines have been approved and certified as meeting the Standards of the Canadian Standards Association, and they are therefore allowed to bear the CSA brand. The certification number is LR77401.

A.09 Approvals and Certifications

All RP machines may be built and certified according to RINA, BUREAU VERITAS, DET NORSKE VERITAS, GERMANISCHER LLOYD, LLOYD'S REGISTER OF SHIPPING, AMERICAN BUREAU OF SHIPPING, CENELEC EN 50014-50016 Standards for EEXp pressurised flameproof machines, etc.

A.10 Declaration of conformity

All RP machines satisfy the essential requisites of the following Directives:

- 2014/35/EU Low Voltage Directive
- 2011/65/EU RoHS2 Directive

Reference has also been made to the following directives, specifically for the reasons listed as follows:

- EMC 2014/30/EU (Electromagnetic Compatibility) Directive
- 2006/42/CE Machinery Directive

The electric motors/generators are components that are incorporated into other machines, systems and plants and therefore the resulting EMC behaviour is under the responsibility of the Manufacturer of the machine or plant incorporating the motor/generator.
With reference to the 2006/42/EC Directive, it must be specified that the motors/generators must be installed in compliance with the installation instructions and cannot be put into service until the machine in which they are incorporated has been declared in compliance with the 2006/42/EC Machinery Directive

B. CONSTRUCTIONAL FEATURES

IEC 60034-1/A1-A2 Standards - CSA Standards available
Fully laminated frame
Insulation class H
4 poles
Compensating windings
Frames 225 and 250 available also without compensating windings
Balancing N degree (ISO2373) with half key
Twin brushes
Constant pressure brush-holders
Terminal box RHS viewed from DE
DE roller grease lubricated bearings
NDE ball grease lubricated bearings
TIG welding from winding to commutator
Vacuum impregnation with resin without solvent
Top quality materials

B.01 Bearings

Bearings normally specified for the machines in this catalogue are rolling bearings, ball or roller. All bearings are oversized clearance C3.
DE ball bearings are available for direct coupling without radial load.

Frame 200
Standard arrangement uses ball bearings on both DE and NDE, grease lubricated, with ball nipple and drainage of used grease, single shield (Z type).
DE roller bearings are available for coupling with pulley and belt with high radial load.
Frames 225-355
Standard arrangement uses ball bearing on NDE and roller bearing on DE, grease lubricated, with ball nipple and drainage of used grease

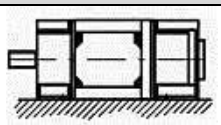
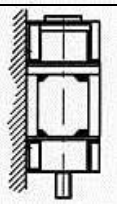
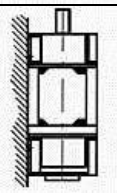
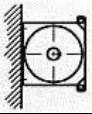
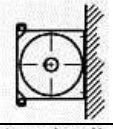
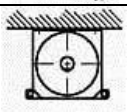
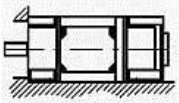
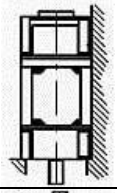
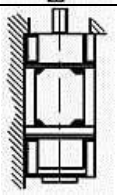
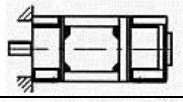
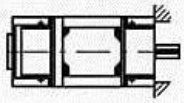
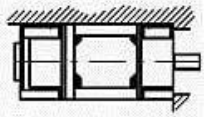
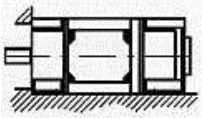
The recommended lubrication intervals and the amount of grease to be used are given on the data plate. To define the lubrication programme, complete grease changing and changing the bearings, strict compliance with the Instructions for Installation, Use and Maintenance is necessary.
Bearings allow a radial and/or axial load in relation to the speed of rotation, type of load and theoretical life calculated on the basis of statistic data made available by the bearing manufacturers. In case of radial and/or axial loads, please ask SICMEMOTORI: table b.01 shows the standard ones.

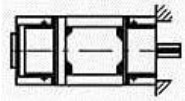
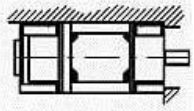
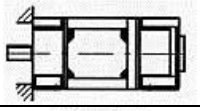
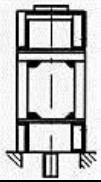
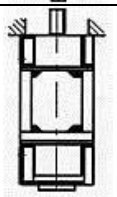
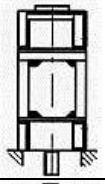
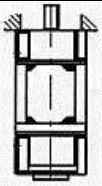
Motor size	DE bearing			NDE bearing		
	Type		SICMEMOTORI code	Type		SICMEMOTORI code
RP200	Ball	6314-Z-C3	8.3.09.18.070.0	Ball	6314-Z-C3	8.3.09.18.070.0
RP225	Roller	NU2218-C3	8.3.09.75.090.0	Ball	6315-C3	8.3.09.17.075.0
RP250	Roller	NU2220-C3	8.3.09.75.100.0	Ball	6318-C3	8.3.09.17.090.0
RP280	Roller	NU2220-C3	8.3.09.75.100.0	Ball	6318-C3	8.3.09.17.090.0
RP315	Roller	NU321-C3	8.3.09.63.105.0	Ball	6321-C3	8.3.09.17.105.0
RP355	Roller	NU324-C3	8.3.09.63.120.0	Ball	6324-C3	8.3.09.17.120.0

Table b. 01

B.02 Forms of constructions and mounting arrangements IM

Most of form of construction and mounting IM described in IEC Standards 60034-7 are available; table b.02 shows the most common ones.
For other forms of construction, please ask SICMEMOTORI.
Second shaft end is also available on request (in this case the last number is 2: example IM1002).

IM	Description		200	225 250	280 315	355
1001 (B3) **(1)**	Horizontal shaft, foot mounting. Ground fastening		S	S	S	S
1011 (V5) **(1)**	Vertical shaft, with foot. Wall fastening. Shaft below		S	S	S	O
1031 (V6) **(1)**	Vertical shaft, with foot. Wall fastening. Shaft above		S	S	S	O
1051 (B6) **(1)**	Horizontal shaft, foot mounting. Wall fastening at the left		S	S	S	S
1061 (B7) **(1)**	Horizontal shaft, foot mounting. Wall fastening at the right		S	S	S	S
1071 (B8) **(1)**	Horizontal shaft, foot mounting. Ceiling fastening		S	S	S	S
2001 (B35) **(2)**	Horizontal shaft, foot and flange with through holes. Feet fastened to ground		S	S	S	S
2011 (V15) **(2)**	Vertical shaft, foot and flange with through holes. Feet fastened to wall. Shaft below		S	S	S	O
2031 (V36) **(2)**	Vertical shaft, foot and flange with through holes. Feet fastened to wall. Shaft above		S	S	S	O
2051 (B65)	Horizontal shaft, foot and flange with through holes. Feet fastened to wall at the left		S	S	S	S
2061 (B75) **(2)**	Horizontal shaft, foot and flange with through holes. Feet fastened to wall at the right		S	S	S	S
2071 (B85) **(2)**	Horizontal shaft, foot and flange with through holes. Feet fastened to ceiling		S	S	S	S
2101 (B34) **(2)**	Horizontal shaft, foot and flange with threaded holes. Feet fastened to ground		S	S	S	O

2151 (B64) **(2)**	Horizontal shaft, foot and flange with threaded holes. Feet fastened to wall at the left		S	S	S	O
2161 (B74) **(2)**	Horizontal shaft, foot and flange with threaded holes. Feet fastened to wall at the right		S	S	S	O
2171 (B84) **(2)**	Horizontal shaft, foot and flange with threaded holes. Feet fastened to the ceiling		S	S	S	O
3001 (B5) **(3)**	Horizontal shaft with flange with through holes		O	O	O	O
3011 (V1) **(3)**	Vertical shaft with flange with through holes. Shaft below		O	O	O	O
3031 (V3) **(3)**	Vertical shaft with flange with through holes. Shaft above		S	O	O	O
3601 (B14) **(3)**	Horizontal shaft with flange with threaded holes		O	O	O	O
3611 (V18) **(3)**	Vertical shaft with flange with threaded holes. Shaft below		S	O	O	O
3631 (V19) **(3)**	Vertical shaft with flange with threaded holes. Shaft above		S	O	O	O

(1): Motors with feet
(2): Motors with feet and flange
(3): Motors with flange
S: Standard
O: Option available on request

Table b.02

B.03 Environment

For standardisation it is assumed that the environment in which our machines are installed is benign, thus:

dry, i.e. with relative humidity of the air below 75%. However an excessively dry atmosphere (below 20% relative humidity) can cause commutating difficulty (excessive brush wear).
clean, i.e. without appreciable quantities of dust and dirt in general, suspended in the air.
free of chemical agents, i.e. without concentrations of gas or vapours that could chemically harm the copper, iron, aluminium, paints and insulation.

Our machines can also be installed in difficult environments (damp, dusty, chemically harmful, etc.) but in this case the degree of protection, method of cooling and possibly the choice of materials must be agreed upon previously.
All RP machines may be installed in environments with temperature down to –15°C and stored in environments with temperature down to –30°C. For lower temperatures, please ask SICMEMOTORI.

B.04 Cooling methods IC and degrees of protection IP

RP motors can be supplied with various IC cooling methods (according to IEC Std. 34-6), with the corresponding IP degrees of protection (according to IEC Std. 60034-5). The different versions are distinguished by a special SICMEMOTORI code, to which reference should be made also for calculating the price, bearing in mind that as far as the price is concerned:
- BPVA and BPVAB are the same as PVA
- BCA is the same as CBA

In addition to the catalogue versions, illustrated in table b.04, other versions (with different cooling methods and/or degree of protection) are available upon request.

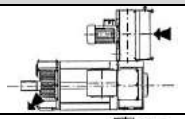
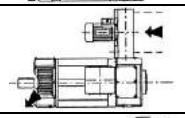
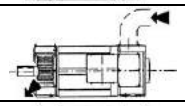
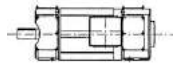
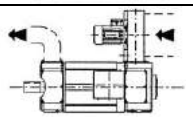
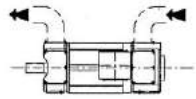
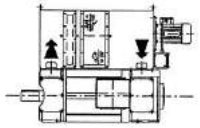
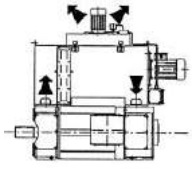
IP	IC	Description		SICME MOTORI code
23	06	Forced ventilation by fitted fan. Suction exhaust to the local atmosphere		PVA
	16	Forced ventilation by fitted fan, with ducted air inlet and outlet vent to local atmosphere		BPVA
	17	Ventilation by external system with ducted air inlet and outlet vent to local atmosphere		BCA
44 54 55	410	Totally enclosed not ventilated machine		CNV
	610	Totally enclosed machine with air to air heat exchanger in self ventilated version for air circulating inside with external air cooling by natural convection (for frames 132-250 only)		CNVC
	36	Force ventilation by integral system with air inlet and outlet ducts		BPVAB
	37	Ventilation by external system with air inlet and outlet ducts		CBA
	86W	Assisted ventilation in closed cycle with air-water heat exchanger (for frames 132-800 only)		CBARH
	666	Assisted ventilation in closed cycle with air-air heat exchanger (for frames 132-560 only)		CBARO

Table b.04

Notes: Machines with IP54 and IP55 degree of protection are suitable for outdoor installation only if under a shed or special cover

B.05 Heat exchangers

Air-water heat exchanger (IC86W)
Placed on top of the motor. Standard and optional accessories are described in the accessories table.
Blower motor data are shown on performance tables.
Standard design is for inlet water temperature 26 °C max.

Air-air heat exchanger (IC666)
Placed on top of the motor. Standard and optional accessories are described in the accessories table.

Blower motor data for IC666

Motor	Inner circuit fan			Voltage (V)	Freq. (Hz)	Outer circuit fan			Cooler weight (kg)
	Type asynchr. motor	Current (A)	Power (kW)			Type asynchr. motor	Current (A)	Power (kW)	
225	112M2A	7,4	4	400	50	90S2	3,5	1,5	280
250	112M2A	7,4	4	400	50	90S2	3,5	1,5	370
280	132S2A	10,5	5,5	400	50	90S2	3,5	1,5	415
315	132S2B	13,9	7,5	400	50	90L4	3,68	1,5	450
355	132M2B	18	9	400	50	90L4	3,68	1,5	520

B.06 Balancing and vibrations

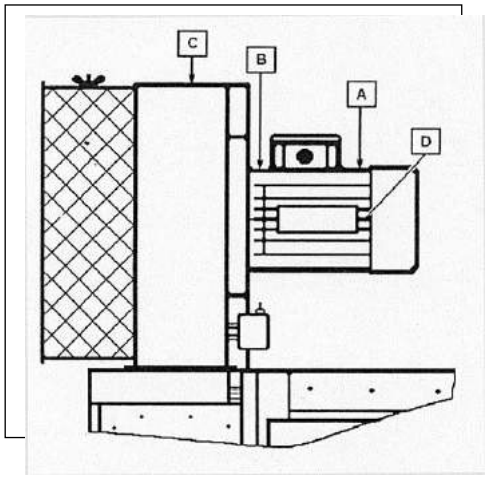
All the machines in this catalogue are balanced according to IEC 60034-14 class A. Balancing is carried out with the half key (therefore the half-coupling must be balanced with half key). Machines with special balancing (class B) are supplied upon request.
Limits of vibration severity are given in table b.06 (tolerance ± 10%).

Class	Speed (rpm)	Limits of vibration severity in mm/s	
		200-225	250-355
A	600-3600	2,8	3,5
B	600-1800	1,12	1,8
	1801-3600	1,8	2,8

Table b.06

Test must be carry out with the method of free suspension or with motors placed on rubber.

B.06.1 Cooler AC motor vibrations (coolings IC06 and derivated, IC86W, IC666)
Test is carried out using a vibrometer and checking that vibrations values measured at points A, B, C, D, whit AC motor supplied with nominal voltage and frequency, are within values given in table b.06.1.



D.C. motor frame	Max measured value (mm/s)
200	7,1
≥ 225	10

Table b.06.1

A-B-D : points of measure on AC motor
C : point of measure on the blower scroll (IC06 and derivated motors) or on the fixing blower flange (IC86W and IC666 motors)

B.07 Noise level

According to IEC 34-9, noise levels to be warranted refer to a machine operating with no load, powered at the nominal supply voltage, with the ventilation system on.
Noise levels expressed in 'sound pressure' are detected using a phonometer positioned at the centre of the 4 sides of the direct current machine tested and of the nosepiece of the fan for PVA motors, or of the asynchronous motor for machines with heat exchangers, at a distance of approx.1 metre.
The mean of these values is the noise rating adopted by SICMEMOTORI.
Typical values of the sound pressure and of the associated power, obtained by the methods described above, valid for motors with combined fan with 50 Hz filter are given in table b.07.

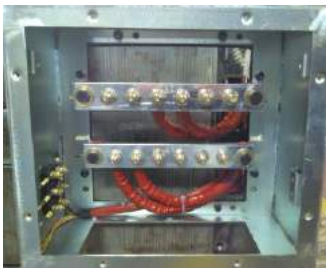
Motor	Sound pressure (dBA) Cooling IC06 (PVA)	Sound pressure (dBA) Cooling IC86W (CBARH)	Sound pressure (dBA) Cooling IC666 (CBARO)
200 N	85	80	86
200 K	85	82	86
225 N	85	82	86
225 K	85	82	86
250 N	85	82	86
250 K	85	82	86
280 K	85	82	86
315 K	85	82	86
355 K	85	82	90

Table b.07

B.08 Main terminal box

The main terminal box is in welded steel, and very generously sized inside, in compliance with CSA and NEMA Standards.
It contains:

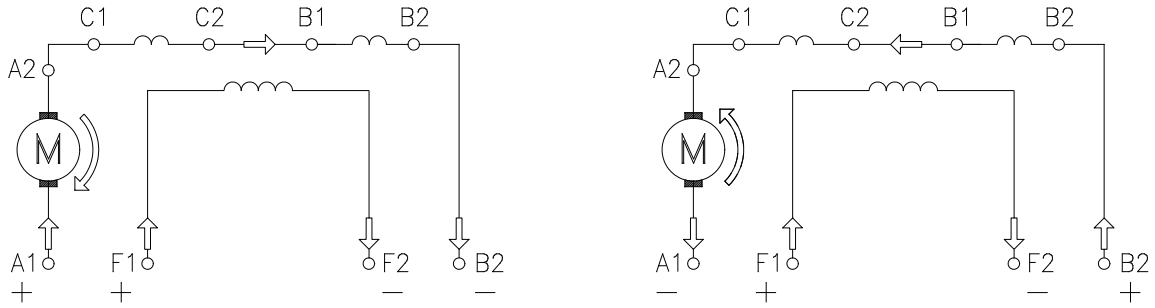
- the main terminals (armature circuits), formed of generously sized copper bars, fastened in insulated supports, pierced to simplify the fitting of the plant cables;
- a terminal block for the separately excited field circuit;
- a terminal block for the auxiliary protection circuits;
- a box earth terminal distinguished by a special data plate.



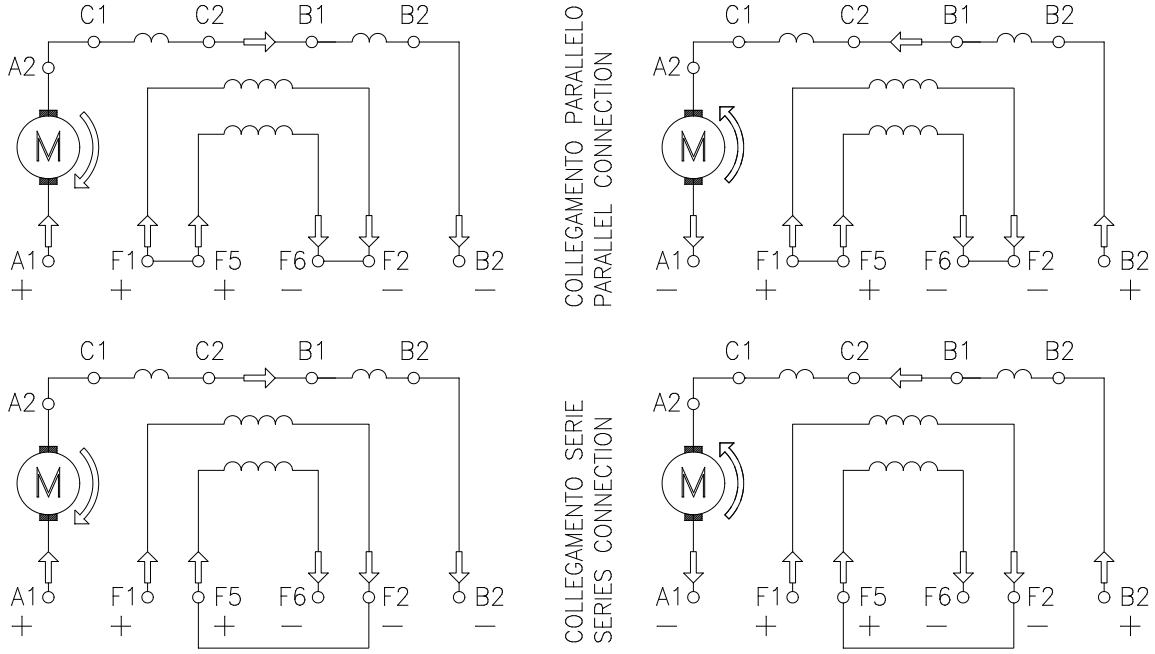
The standard terminal box has IP54 degree of protection. Higher degrees of protection can be obtained upon request. Terminal box is normally located at right (viewing from the DE); on request, when ordering, it can be positioned on top or left side; The diagrams for connection to the terminal box for motors with separate excitation and compensation windings are shown in fig.b.8.1 (terminals marked according to IEC 60034-8).
On the standard version, two plates, 4 mm or more in thickness are screwed on opposite walls of the box, to be drilled by the Customer.
The terminal box is rectangular, with the longer side normally at right angles to the machine axis. The box can be fitted turned 90° on its own axis, if this is requested when ordering.

ROTAZIONE ORARIA VISTA LATO ACCOPPIAMENTO CLOCKWISE ROTATION DRIVE END VIEW	ROTAZIONE ANTIORARIA VISTA LATO ACCOPPIAMENTO CON INVERSIONE DI INDOTTO COUNTERCLOCKWISE ROTATION DRIVE END VIEW BY ARMATURE REVERSAL

MOTORE CON ECCITAZIONE SEPARATA
SEPARATE EXCITATION DIRECT CURRENT MOTOR



MOTORE CON ECCITAZIONE SEPARATA CON POSSIBILITA' DI COLLEGAMENTO SERIE O PARALLELO
SEPARATE EXCITATION DIRECT CURRENT MOTOR WITH POSSIBILITY OF PARALLEL/SERIES CONNECTION



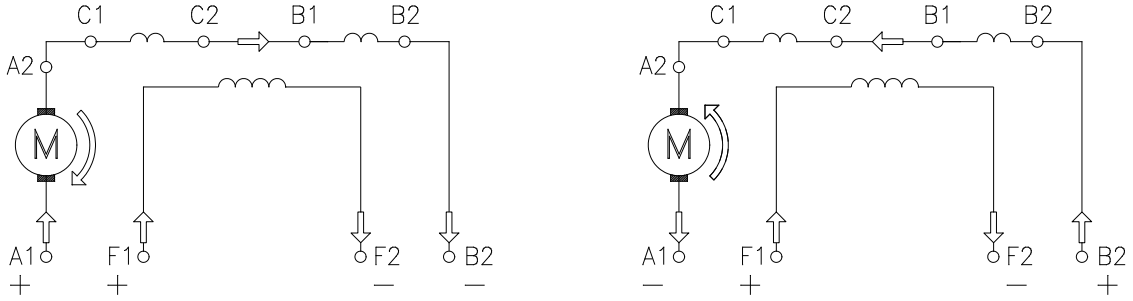
MARCATURA DEI TERMINALI CON SIGLE IEC 34−8 TERMINAL MARKINGS IN ACCORDANCE WITH IEC 34−8			NOMENCLATURA NOMENCLATURE
AVVOLGIMENTO INDOTTO	/	ARMATURE WINDING	A1−A2
AVVOLGIMENTO POLI AUSILIARI	/	COMMUTATING WINDING	B1−B2
AVVOLGIMENTO DI COMPENSAZIONE	/	COMPENSATING WINDING	C1−C2
AVVOLGIMENTO ECCITAZIONE SEPARATA	/	SEPARATE FIELD WINDING	F1−F2 / F5−F6

MOTORE A CORRENTE CONTINUA GRANDEZZE 200 - 355
SCHEMA ELETTRICO MOTORE STANDARD
D.C. MOTOR TYPE 200 - 355
CONNECTION DIAGRAM FOR STANDARD MOTOR

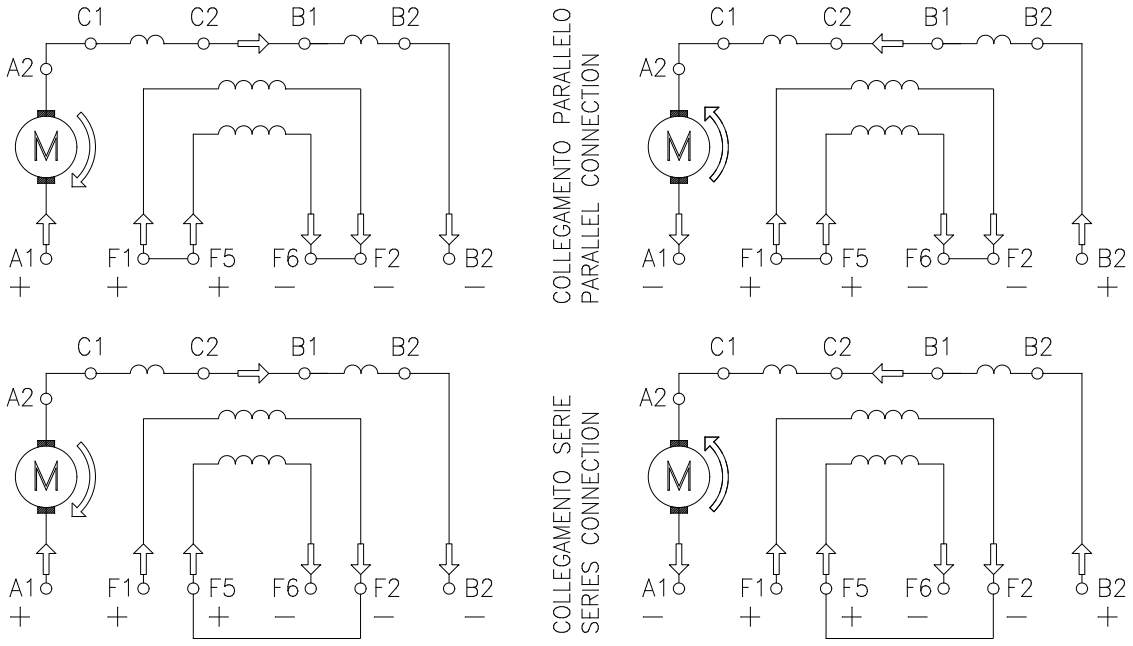
b. 8.1. – 4 poles

ROTAZIONE ORARIA VISTA LATO ACCOPPIAMENTO CLOCKWISE ROTATION DRIVE END VIEW	ROTAZIONE ANTIORARIA VISTA LATO ACCOPPIAMENTO CON INVERSIONE DI INDOTTO COUNTERCLOCKWISE ROTATION DRIVE END VIEW BY ARMATURE REVERSAL

MOTORE CON ECCITAZIONE SEPARATA
SEPARATE EXCITATION DIRECT CURRENT MOTOR



MOTORE CON ECCITAZIONE SEPARATA CON POSSIBILITA' DI COLLEGAMENTO SERIE O PARALLELO
SEPARATE EXCITATION DIRECT CURRENT MOTOR WITH POSSIBILITY OF PARALLEL/SERIES CONNECTION



MARCATURA DEI TERMINALI CON SIGLE IEC 34−8 TERMINAL MARKINGS IN ACCORDANCE WITH IEC 34−8			NOMENCLATURA NOMENCLATURE
AVVOLGIMENTO INDOTTO	/	ARMATURE WINDING	A1−A2
AVVOLGIMENTO POLI AUSILIARI	/	COMMUTATING WINDING	B1−B2
AVVOLGIMENTO DI COMPENSAZIONE	/	COMPENSATING WINDING	C1−C2
AVVOLGIMENTO ECCITAZIONE SEPARATA	/	SEPARATE FIELD WINDING	F1−F2 / F5−F6

MOTORE A CORRENTE CONTINUA GRANDEZZE 200 - 355
SCHEMA ELETTRICO MOTORE STANDARD
D.C. MOTOR TYPE 200 - 355
CONNECTION DIAGRAM FOR STANDARD MOTOR

b. 8.2

B.09 Painting of finished products

SICMEMOTORI has standardized certain painting cycles, which should be chosen considering the machine operating environment. Any other cycles may be defined in agreement with the Customer when ordering.
The final standard colour is green RAL6004; other colours are available upon prior agreement when ordering.

B.09.1 Preparation of the surfaces

Regardless of the specified painting cycle, all the machines undergo surface preparation treatment to ensure excellent adherence of the paint.
The shields and terminal boxes are always degreased and painted with one or more coats of epoxy primer; the lids and hatches are treated with electrolytic galvanising; the wound stator packs are covered with impregnation insulating paint, which acts as a perfect base coat; the cooling systems (fans, heat exchangers) are degreased and painted with primer.
Thus, all parts of each machine have received at least one coat of primer in preparation for final painting with the specified finish.

B.09.2 Standard painting cycles

The painting cycles standardised by SICMEMOTORI are described in table b.23.2.The primer adherence index is 1 (according to DIN Std.53151).
The paints used contain no lead, chromium or zinc or their components. Technical characteristics of paints are available on request to SICMEMOTORI.
The Customer must previously check if the paint cycle is suitable for its application.
In lack of other instructions, all machines are painted according to cycle 1.

Cycle	Environment	Application
1 (normal)	Indoor, dry, clean, not aggressive (see B.03)	- degreasing with spray solvent - synthetic nitrous enamel finishing coat - minimum thickness 15 micron
2 (anticorrosive)	Damp-salty, tropical, sea, near sea	- degreasing with spay solvent - 1 coat of epoxy primer - 1 coat of enamel semi-gloss finishing coat - minimum thickness 90 micron
3 (anticorrosive special for aggressive environment)	Chemically aggressive, naval	- free jet shotblasting with GH 50 carbon steel grit to obtain SA 2 ½ degree of cleaning - 2 coats of epoxy primer - 2 epoxy semi-gloss enamel finishing coats - minimum thickness 130 micron
4 (special)		To be defined with the Customer when ordering

B.10 Main data plate

Main data plate is in stainless steel and it is solidly riveted to the motor frame.
Languages Italian/English (standard), Italian/French or Italian/German are available when ordering. Other languages are available on request when ordering (please ask SICMEMOTORI).
Data on nameplate are according to IEC 60034-8.

Meaning of the abbreviations

TIPO/TYPE	motor type (according to SICMEMOTORI code; please refer to par.A)
N	serial number
P	nominal power
VEL/SPEED	speed
ARM/ARM (V)	armature voltage
ARM/ARM (A)	armature current
CAMPO/FIELD (V)	field voltage
CAMPO/FIELD (A)	field current
MASSA/MASS	motor weight complete with cooling devices
J (kgm^2)	rotor moment of inertia
ANNO/MESE-YEAR/MONTH	year/month of construction
SERV/DUTY	duty
IP	degree of protection
IC	cooling method
IM	form of construction
CL.ISOL/INS.CL	insulation class (the temperature rise is also given if different from class H)
TEMP.AMB/AMB.TEMP.	ambient temperature
CUSC.LA/DR.END BEAR.	drive end bearing
CUSC.LO/COMM.END BEAR.	non drive end bearing
INT.LUBR/LUBR.INT.	bearing lubrication interval

B.11 Options and accessories

X = Available on request
STD = Standard

Common options and accessories

Description	200-250	280-315	355
Klixon fitted as standard in stator windings (standard quantity)	1	1	2
PTC thermistors in stator windings	X	X	X
Pt100 thermal detector in stator windings	X	X	X
Brush wear control device	X	X	X
Special balancing (R or S degree)	X	X	X
Balancing with half key	STD	STD	STD
Special balancing with whole key	X	X	X
Keyless shaft	X	X	X
Tacho or Pulse generator provision (std type diam. 14/11)	STD	STD	STD
Tacho or Pulse generator provision (hollow shaft)	X	X	X
Speed feedback devices	X	X	X
Anticondensation heaters	X	X	X
Transparent inspection covers	STD	STD	STD
Earthing brush	X	X	X
Bearing vibration control sensor provision (M8 hole)	X	X	X
Bearing temperature control sensor (Pt100)	X	X	X
DE ball bearing (for direct coupling)	X	X	X
Slide rails	X	NO	NO
Brakes (Disc, Pneumatic, Electromagnetic, Etc.)	X	X	X
Terminal box LHS or Top	X	X	X
Painting different than RAL 6011	X	X	X
Tropicalization	STD	STD	STD
Special painting for corrosive environments	X	X	X
Stainless steel screws and bolts	X	X	X
Anchorage and foundation bolts	X	X	X
Tandem or Triple arrangement (engineering or supply)	X	X	X
Electromagnetic clutches	X	X	X
Adapting subframe for shaft height gap	X	X	X

Options and accessories for IC06 cooling

Description	200-250	280-315	355
Blower Position on Top (NDE side)	STD	STD	STD
Blower Position Left or Right	X	X	X
Filter	STD	STD	STD
Ventilation failure detector (Pressure switch)	X	X	STD
Blower with special Volt / Hz	X	X	X
Noise reduction device	X	X	X
Anticondensation heaters	X	X	X

Options and accessories for IC86W cooling (air-water)

Description	200-250	280-315	355
Degree of protection IP44	STD	STD	STD
Degree of protection IP45, IP54, IP55	X	X	X
Cooler position on Top	STD	STD	STD
Cooler position Left or Right	X	X	X
STD side for AC blower	NDE	NDE	DE
STD position water in/out flanges	Left	Left	Right
Ventilation failure detector (Pressure switch)	STD	STD	STD
Inner air thermostat	STD	STD	STD
Water flow switch	STD	STD	STD
Drain tap	STD	STD	STD
Filter	STD	STD	STD
Water leakage detector (switch)	STD	STD	STD
Air drain plug	STD	STD	STD
Differential pressure switch	X	X	X
Fan with special Volt / Hz	X	X	X
Anticondensation heaters	STD	STD	STD
Cooler for water temp. > 26 °C	X	X	X
Pt100 on inner air	X	X	X
Thermometer on inlet water	X	X	X
Water valves	X	X	X

Options and accessories for IC666 cooling (air-air)

Description	200-250	280-315	355
Degree of protection IP44	STD	STD	STD
Degree of protection IP45, IP54, IP55	X	X	X
Cooler position on Top	STD	STD	STD
Cooler position Left or Right	X	X	X
STD side for inner air	NDE	NDE	DE
Ventilation failure detector for outer air (Pressure Switch)	STD	STD	STD
Ventilation failure detector for inner air (Pressure Switch)	STD	STD	STD
Inner air thermostat	STD	STD	STD
Filter	STD	STD	STD
Fan with special Volt / Hz	X	X	X
Anticondensation heaters	STD	STD	STD
Differential pressure switch	X	X	X
Noise reduction device	X	X	X
Pt100 on inner air	X	X	X

C. COMPANY QUALITY SYSTEM – TESTS, CONTROLS, INSPECTIONS

C.01 Quality Control Dept.

The manufacturing process is controlled by the Quality Control Dept., which is responsible for the correct execution of the tests and inspections specified by the Company Quality System, set out and defined by the "Quality Assurance" department.
The company Quality System is certified and controlled by the CSQ (*) in compliance with European Standards ISO 9001. At the time of going to press environmental certification EN 14001 is in progress.

(*) The CSQ Quality Certification Systems is run by IMQ in collaboration with CESI, it forms part of the CISQ convention (Italian Certification of Quality System) and adheres to the EQNET International agreement.

C.02 Routine tests

All RP machines are subjected to routine checks and tests at the end of the production cycle, on the basis of the list of tests in the card shown in table c.02.
The corresponding test Protocol is supplied with all motors.

Visual inspection of conformity to design
Measurement of windings resistance
Continuity test of auxiliary circuits
No load test
Test at nominal load and speed and visual check of commutation (for frames 225-800 only)
Overspeed test
High voltage test
Check of accessories

c.02

C.03 Type tests

The type tests are carried out on the first machine of a series, and the values revealed are used as reference during the routine tests of the following ones of the same series.
At the time of ordering the Customer may ask for a machine to be subjected to the type tests (surcharge).
The list of type tests is given in table c.03.

Visual inspection of conformity to design
Measurement of windings resistance
Continuity test of auxiliary circuits
No load test
Test at nominal load and speed and visual check of commutation
Heating test
Determination of efficiency (with the indirect method)
Overspeed test
Voltage test with hot machine
Recording of the no-load magnetisation characteristic
Recording of field weakening characteristic (for field weakened motors)
High voltage test
Check of accessories

c.03

C.04 Special tests

The performance of one or more of the tests listed in table c.04 must be agreed upon at the time of ordering and will involve a surcharge.

Measurement of noise level
Measurement of vibrations
Measurement of armature winding inductance
Measurement of field winding inductance

c.04

C.05 Witnessed tests

Tests carried out in the presence of a Customer or authorised body must be requested at the time of ordering and will involve a surcharge.

D. PERFORMANCE DATA

Conditions of validity of data contained in the performance tables shown in next pages are the following:

- Type of cooling IC06-IC16-IC17-IC36-IC37-IC86W
- Maximum ambient temperature 40 °C
- Maximum altitude 1000 m.a.s.l.
- Supply from three phase fully controlled bridge (max form factor of armature current 1,05)
- Insulation and temperature rise class H
- Duty S1 (continuous duty)
- Standard overloads
- Separate excitation

D.01 Overload capacity

	T_{max}	I_{max}	Duration
Std IEC 60034-1	1,6 T_n	Not stated	1' occasional
Compensated machines	1,7 T_n	1,8 I_n	15" every 5' or 1' every 20'
NOT compensated machines	1,6 T_n	1,8 I_n	15" every 5' or 1' every 20'

Nema MG1-23.41 Standards overloads available on request. Please ask SICMEMOTORI.

D.02 Standstill

Current % (*)	Duration
200	10 s
100	30 s
50	90 s
20	10 min
10	Continuous

(*) percentage with respect to the nominal rating

D.03 Current gradient

Motors are suitable for dynamic load dI/dt up to 200 In/s.

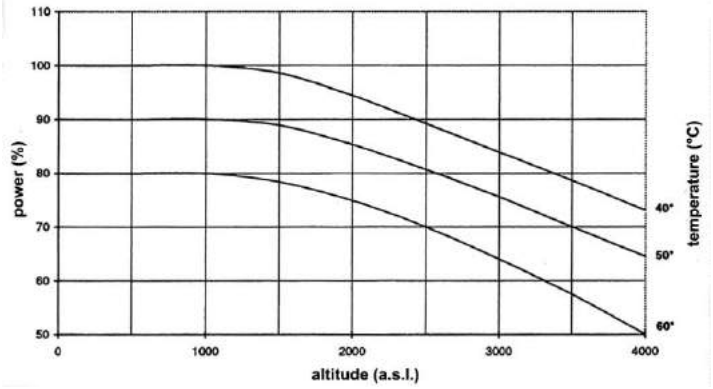
D.04 De-rating coefficient for conditions different than the above ones

These are the coefficients that need to be used to bring the power ratings (and speed) required by the application to values compatible with the power and speed data given in this catalogue, when the type of service, ventilation, environment temperature and overtemperature differ from the standard ones above indicated. The various coefficients must be multiplied together when contemporaneous situations occur, obtaining two overall coefficients:

coefficient Kp referring to the power;
coefficient Kn referring to the speed.

To select a frame size suitable for required power/speed, the power rating to be found in this catalogue must be divided by Kp and the speed rating must be multiplied by Kn.

De-rating coefficient for different ambient temperature or altitude a.s.l.



When ambient temperature is > 60°C and/or altitude is > 4000 m.a.s.l., please ask SICMEMOTORI.

De-rating coefficient for IC666 and IC610 cooling methods

Please ask to Sicmemotori

De-rating coefficient for temperature rise different than class H

Please ask to Sicmemotori

Important remark: The Purchaser is always responsible to declare the duty; in case duty is not declared, SICMEMOTORI assumes that duty S1 (continuous running duty) applies. When duty is different from S1, or when sudden accelerations/decelerations/overloads are required, please call SICMEMOTORI.

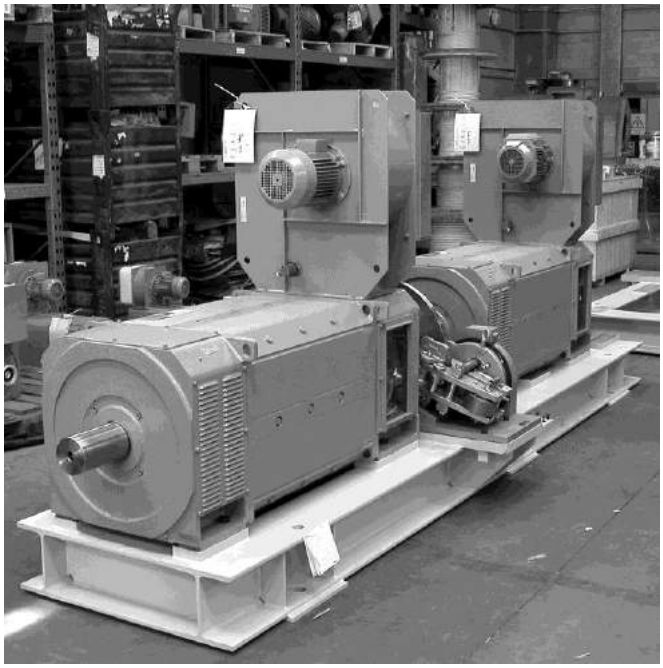
Selection code for length definition

Selection codes are necessary to select the right motor length on drawing. Standard selection codes are shown on the performance tables. When de-rating coefficient are used, selection codes change as shown in the following table.

Motor frame	Motors with de-rating coefficients			
	Temperature rise class F		Temperature rise class B IC610 and IC666 motors	
	Number of Winding	Selection code	Number of winding	Selection code
200	All	4	All	4
225	All	5	All	5
250	All	5	All	5
280	All	6	All	6
315	All	8 6	All	6
355	All	7 6	All	6

Abbreviations used in the performance tables

Winding N°.	Number of armature winding
Base speed	Nominal speed (rpm)
P	Nominal power (kW)
I	Nominal armature current (A)
T	Nominal torque (Nm)
η	Armature circuit efficiency (%)
R_{arm}	Armature circuit resistance at 115 °C (Ohm)
L_{arm}	Armature circuit inductance (mH)
Select. code	Selection code



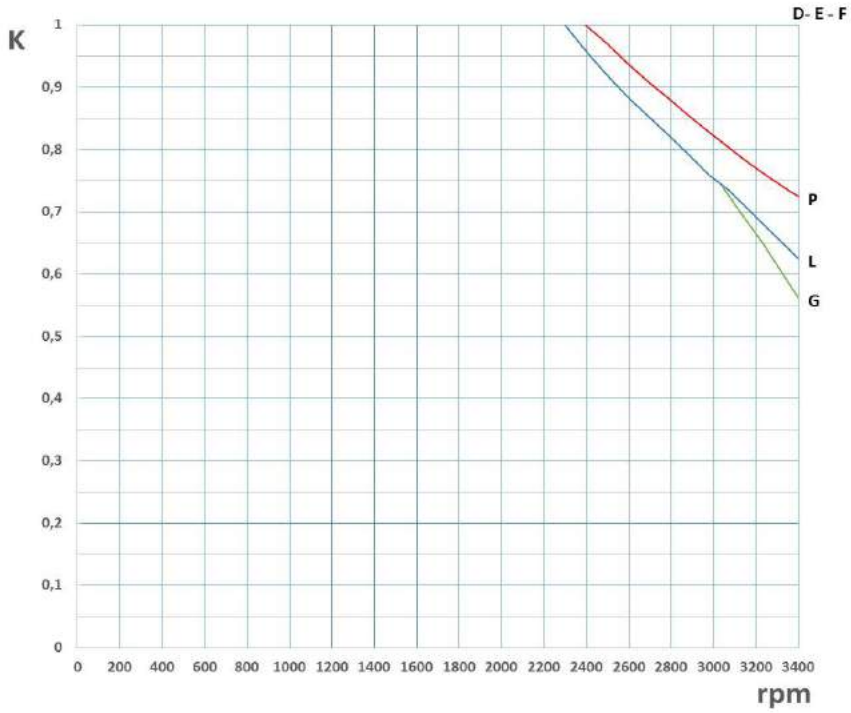
Motor type RP200NS **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
D	3037					**181**	491	569	91,8	0,031	0,75
E	2765					**163**	444	563	91,5	0,037	0,78
		3055				**180**	444	563	91,9		
F	2530					**148**	405	559	91,0	0,045	0,93
		2797				**164**	405	560	91,4		
			2930			**172**	405	561	91,6		
G	2147					**131**	360	583	90,4	0,058	1,20
		2375				**145**	360	583	90,9		
L	1758					**105**	292	570	89,0	0,090	2,00
		1947				**116**	292	569	89,6		
			2041			**122**	292	571	89,9		
				2325		**138**	291	567	90,7		
P	1234					**73**	210	565	86,0	0,176	3,10
		1370				**81**	210	565	87,0		
			1439			**85**	210	564	87,4		
				1644		**98**	210	569	88,5		
					1917	**114**	210	568	89,5		

Note: other windings are available on request

Motor type RP200NS IC06-17-37-86W

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP200NS5
Field power	W	1600
Inertia	kgm^2	0,8
Max mechanical speed	rpm	3400
Weight IC06	kg	490
Weight IC17-IC37	kg	455
Weight IC86W	kg	625
DE bearing	ball	6314-Z-C3
NDE bearing	ball	6314-Z-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	90L2	--	100L2
Power	kW	2,2	--	3
Current	A	5,2	--	5,95
Poles	n°.	2	--	2
Dissipated losses	kW	--	--	20
Water flow rate	m^3/h	--	--	3,44
Pressure drop	Pa	--	--	9700
Water flanges	DIN2566	--	--	DN40
Air flow rate	m^3/s	--	0,8	--
Static pressure	Pa	--	2000	--

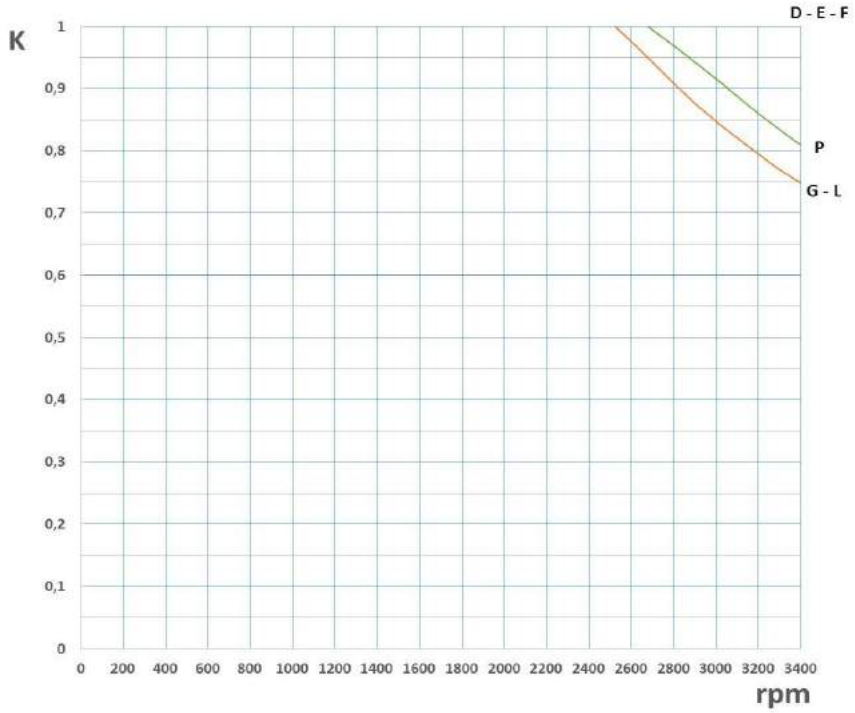
Motor type RP200KS **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
D	2837					**180**	491	606	91,0	0,034	0,26
		3135				**198**	491	603	91,3		
E	2568					**162**	444	602	90,5	0,042	0,35
		2839				**178**	444	599	90,9		
			2974			**187**	444	600	91,1		
				3388		**212**	444	598	91,5		
F	2347					**147**	405	598	90,2	0,051	0,39
		2595				**162**	405	596	90,6		
			2720			**170**	405	597	90,8		
				3099		**193**	405	595	91,2		
G	1992					**130**	360	623	89,4	0,067	0,59
		2205				**143**	360	619	90,0		
			2311			**150**	360	620	90,2		
				2631		**171**	360	621	90,8		
L	1635					**104**	292	607	88,6	0,098	0,77
		1812				**115**	292	606	89,2		
			1901			**121**	292	608	89,5		
				2166		**138**	292	608	90,2		
					2523	**160**	292	606	90,9		
P	1140					**73**	210	612	85,6	0,193	1,31
		1267				**81**	210	611	86,6		
			1331			**85**	210	610	87,0		
				1522		**97**	210	609	88,1		
					1777	**113**	210	607	89,1		

Note: other windings are available on request

Motor type RP200KS **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP200KS5
Field power	W	1400
Inertia	kgm^2	0,8
Max mechanical speed	rpm	3400
Weight IC06	kg	490
Weight IC17-IC37	kg	455
Weight IC86W	kg	625
DE bearing	ball	6314-Z-C3
NDE bearing	ball	6314-Z-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	90L2	--	100L2
Power	kW	2,2	--	3
Current	A	5,2	--	5,95
Poles	n°.	2	--	2
Dissipated losses	kW	--	--	20
Water flow rate	m^3/h	--	--	3,44
Pressure drop	Pa	--	--	9700
Water flanges	DIN2566	--	--	DN40
Air flow rate	m^3/s	--	0,8	--
Static pressure	Pa	--	2000	--

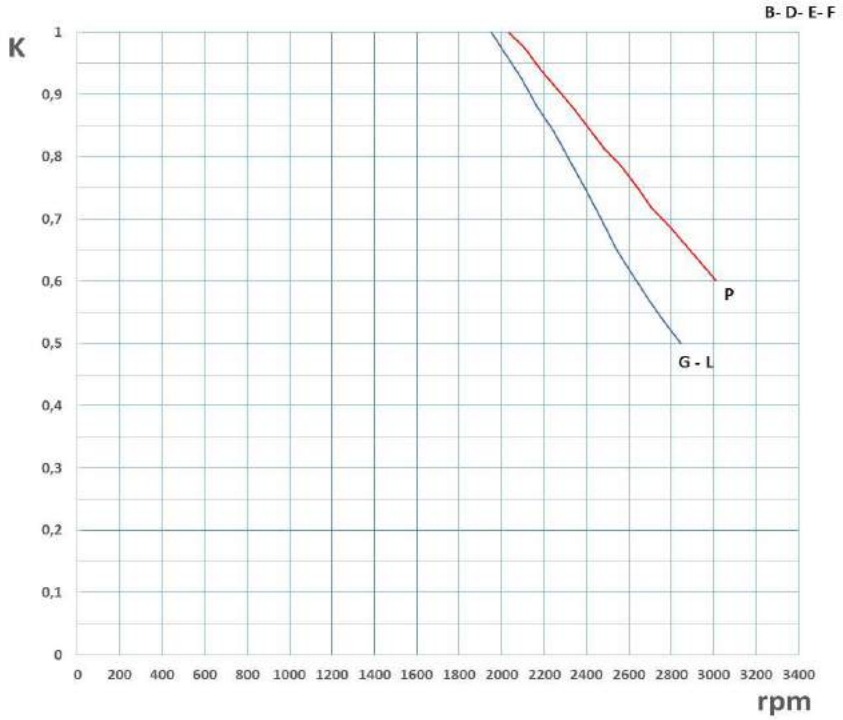
Motor type RP200NM **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
B	2937					**217**	585	706	92,0	0,026	0,65
		3243				**239**	585	704	92,4		
D	2395					**181**	491	722	91,4	0,036	0,95
		2647				**200**	491	722	91,8		
			2773			**209**	491	720	92,0		
				3151		**237**	491	718	92,5		
E	2179					**163**	444	714	91,0	0,043	0,98
		2410				**180**	444	713	91,5		
			2525			**189**	444	715	91,7		
				2870		**214**	444	712	92,2		
F	1993					**148**	405	709	90,4	0,052	1,18
		2204				**163**	405	706	90,9		
			2310			**171**	405	707	91,2		
				2628		**195**	405	709	91,8		
					3051	**226**	405	707	92,4		
G	1689					**130**	360	735	89,7	0,068	1,50
		1870				**144**	360	735	90,3		
L	1379					**104**	292	720	88,0	0,104	2,50
		1529				**115**	292	718	88,8		
			1604			**121**	292	720	89,1		
				1830		**137**	291	715	90,0		
P	963					**72**	210	714	84,6	0,204	3,90
		1072				**80**	210	713	85,7		
			1126			**84**	210	712	86,2		
				1289		**97**	210	719	87,4		
					1506	**113**	210	717	88,7		

Note: other windings are available on request

Motor type RP200NM IC06-17-37-86W

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP200NM5
Field power	W	1900
Inertia	kgm^2	0,92
Max mechanical speed	rpm	3400
Weight IC06	kg	555
Weight IC17-IC37	kg	520
Weight IC86W	kg	690
DE bearing	ball	6314-Z-C3
NDE bearing	ball	6314-Z-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	90L2	--	100L2
Power	kW	2,2	--	3
Current	A	5,2	--	5,95
Poles	n°.	2	--	2
Dissipated losses	kW	--	--	20
Water flow rate	m^3/h	--	--	3,44
Pressure drop	Pa	--	--	9700
Water flanges	DIN2566	--	--	DN40
Air flow rate	m^3/s	--	0,8	--
Static pressure	Pa	--	2000	--

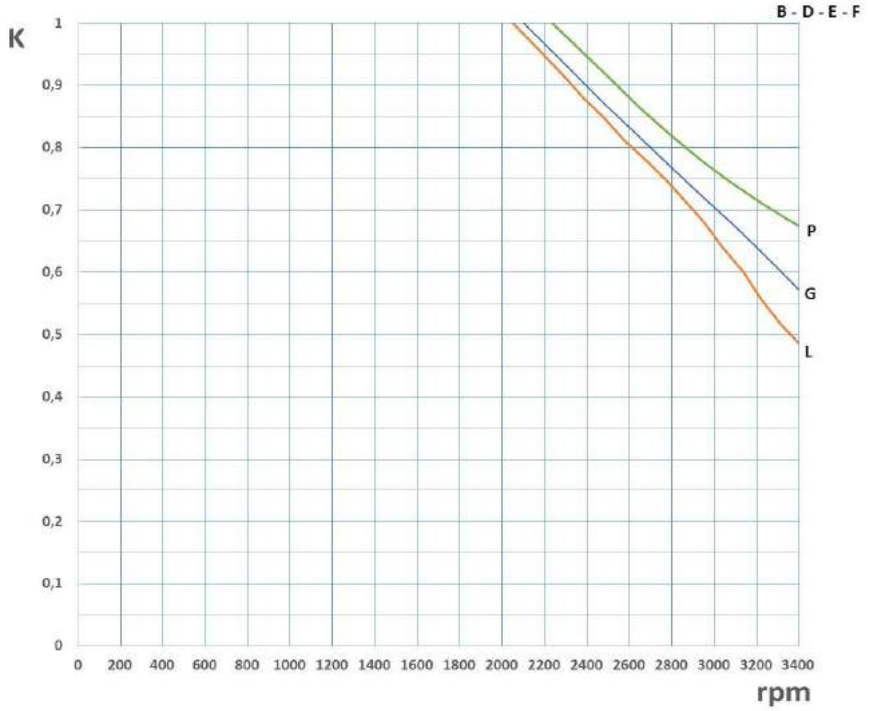
Motor type RP200KM **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
B	2738					**214**	585	746	91,2	0,028	0,23
		3025				**237**	585	748	91,5		
D	2237					**179**	491	764	90,7	0,039	0,32
		2474				**198**	491	764	91,1		
			2592			**207**	491	763	91,3		
				2946		**235**	491	762	91,7		
E	2023					**161**	444	760	90,1	0,048	0,45
		2238				**178**	444	760	90,6		
			2345			**186**	444	757	90,8		
				2668		**212**	444	759	91,3		
					3104	**245**	444	754	91,7		
F	1848					**146**	405	754	89,6	0,058	0,48
		2045				**162**	405	757	90,2		
			2144			**169**	405	753	90,4		
				2440		**193**	405	755	90,9		
					2841	**223**	405	750	91,5		
G	1566					**129**	360	787	88,7	0,077	0,75
		1735				**143**	360	787	89,4		
			1820			**149**	360	782	89,7		
				2073		**170**	360	783	90,3		
L	1283					**103**	292	767	87,6	0,112	0,97
		1424				**115**	292	771	88,4		
			1494			**120**	292	767	88,8		
				1705		**137**	292	767	89,6		
					1986	**160**	292	769	90,5		
P	890					**72**	210	773	84,2	0,220	1,66
		991				**80**	210	771	85,3		
			1042			**84**	210	770	85,8		
				1193		**96**	210	768	87,0		
					1396	**112**	210	766	88,3		

Note: other windings are available on request

Motor type RP200KM **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP200KM5
Field power	W	1700
Inertia	kgm^2	0,92
Max mechanical speed	rpm	3400
Weight IC06	kg	555
Weight IC17-IC37	kg	520
Weight IC86W	kg	690
DE bearing	ball	6314-Z-C3
NDE bearing	ball	6314-Z-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	90L2	--	100L2
Power	kW	2,2	--	3
Current	A	5,2	--	5,95
Poles	n°.	2	--	2
Dissipated losses	kW	--	--	20
Water flow rate	m^3/h	--	--	3,44
Pressure drop	Pa	--	--	9700
Water flanges	DIN2566	--	--	DN40
Air flow rate	m^3/s	--	0,8	--
Static pressure	Pa	--	2000	--

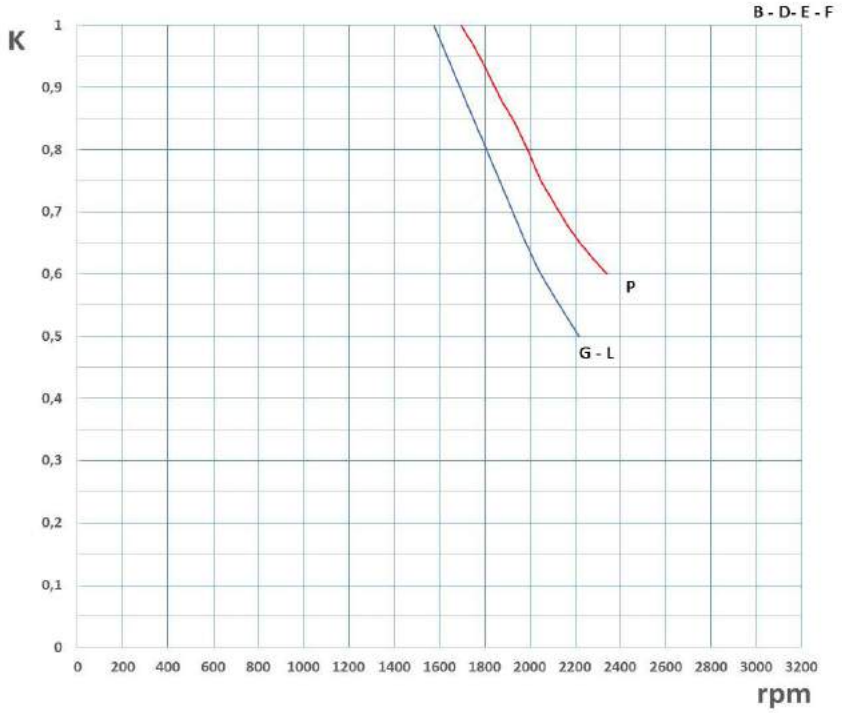
Motor type RP200NL **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
B	2296					**215**	585	894	91,3	0,030	0,82
		2538				**238**	585	896	91,7		
			2659			**249**	585	894	91,9		
D	1870					**179**	491	914	90,5	0,043	1,21
		2069				**198**	491	914	91,0		
			2168			**208**	491	916	91,3		
				2465		**236**	491	914	91,8		
					2862	**273**	490	911	92,4		
E	1701					**162**	444	910	90,1	0,050	1,28
		1882				**179**	444	908	90,7		
			1973			**187**	444	905	90,9		
				2244		**213**	444	906	91,5		
					2607	**247**	444	905	92,1		
F	1553					**146**	405	898	89,3	0,062	1,41
		1720				**162**	405	899	90,0		
			1803			**170**	405	900	90,3		
				2053		**193**	405	898	91,0		
					2387	**224**	405	896	91,7		
G	1315					**129**	360	937	88,5	0,080	1,90
		1457				**143**	360	937	89,2		
L	1070					**102**	292	910	85,8	0,122	3,61
		1188				**114**	292	916	87,4		
			1247			**120**	292	919	87,8		
				1425		**136**	291	911	88,9		
P	742					**71**	210	914	82,5	0,240	5,20
		828				**79**	210	911	83,8		
			870			**83**	210	911	84,3		
				999		**95**	210	908	85,8		
					1169	**111**	210	907	87,3		

Note: other windings are available on request

Motor type RP200NL IC06-17-37-86W

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP200NL5
Field power	W	2300
Inertia	kgm^2	1,05
Max mechanical speed	rpm	3200
Weight IC06	kg	640
Weight IC17-IC37	kg	605
Weight IC86W	kg	775
DE bearing	ball	6314-Z-C3
NDE bearing	ball	6314-Z-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	90L2	--	100L2
Power	kW	2,2	--	3
Current	A	5,2	--	5,95
Poles	n°.	2	--	2
Dissipated losses	kW	--	--	20
Water flow rate	m^3/h	--	--	3,44
Pressure drop	Pa	--	--	9700
Water flanges	DIN2566	--	--	DN40
Air flow rate	m^3/s	--	0,8	--
Static pressure	Pa	--	2000	--

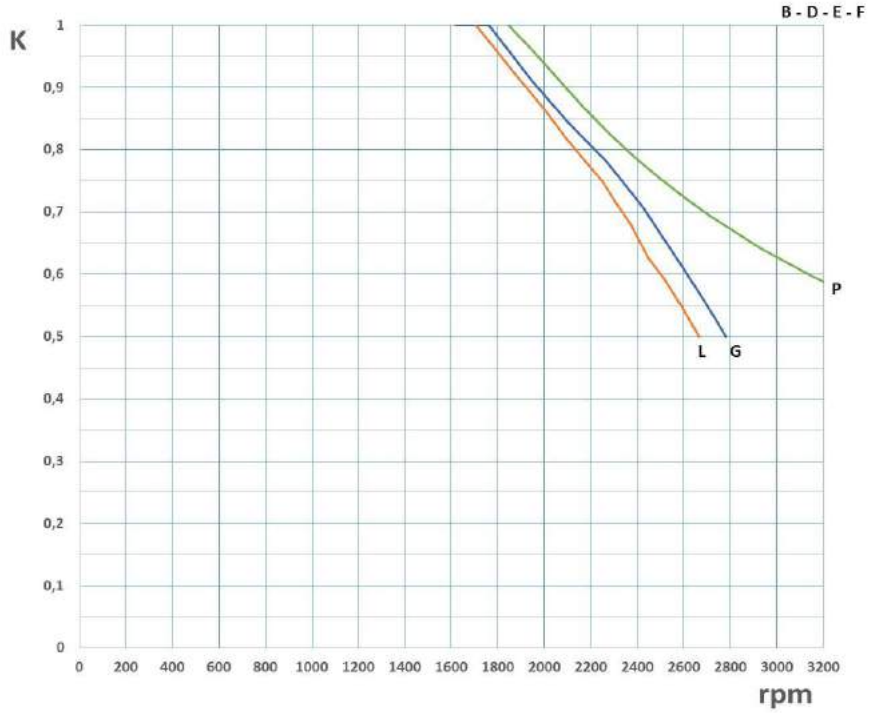
Motor type RP200KL **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
B	2141					**214**	585	955	90,8	0,032	0,29
		2367				**236**	585	952	91,2		
			2480			**247**	585	951	91,4		
				2828		**281**	585	949	91,8		
D	1747					**178**	491	973	90,2	0,045	0,41
		1933				**197**	491	973	90,7		
			2026			**207**	491	976	90,9		
				2305		**235**	491	974	91,4		
					2680	**271**	490	966	91,9		
E	1578					**160**	444	968	89,5	0,057	0,56
		1747				**177**	444	968	90,0		
			1832			**186**	444	970	90,3		
				2086		**211**	444	966	90,9		
					2429	**245**	444	963	91,5		
F	1440					**145**	405	962	88,9	0,067	0,61
		1595				**161**	405	964	89,6		
			1673			**169**	405	965	89,8		
				1906		**192**	405	962	90,5		
					2222	**223**	405	958	91,2		
G	1218					**128**	360	1004	87,8	0,090	0,95
		1351				**141**	360	997	88,6		
			1418			**148**	360	997	88,9		
				1618		**169**	360	997	89,7		
L	995					**102**	292	979	86,4	0,131	1,24
		1106				**113**	292	976	87,4		
			1161			**119**	292	979	87,8		
				1327		**136**	292	979	88,8		
					1549	**159**	292	980	89,8		
P	685					**70**	210	976	82,4	0,256	2,10
		765				**78**	210	974	83,7		
			805			**82**	210	973	84,3		
				925		**95**	210	981	85,7		
					1084	**111**	210	978	87,2		

Note: other windings are available on request

Motor type RP200KL **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP200KL5
Field power	W	1900
Inertia	kgm^2	1,05
Max mechanical speed	rpm	3200
Weight IC06	kg	640
Weight IC17-IC37	kg	605
Weight IC86W	kg	775
DE bearing	ball	6314-Z-C3
NDE bearing	ball	6314-Z-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	90L2	--	100L2
Power	kW	2,2	--	3
Current	A	5,2	--	5,95
Poles	n°.	2	--	2
Dissipated losses	kW	--	--	20
Water flow rate	m^3/h	--	--	3,44
Pressure drop	Pa	--	--	9700
Water flanges	DIN2566	--	--	DN40
Air flow rate	m^3/s	--	0,8	--
Static pressure	Pa	--	2000	--

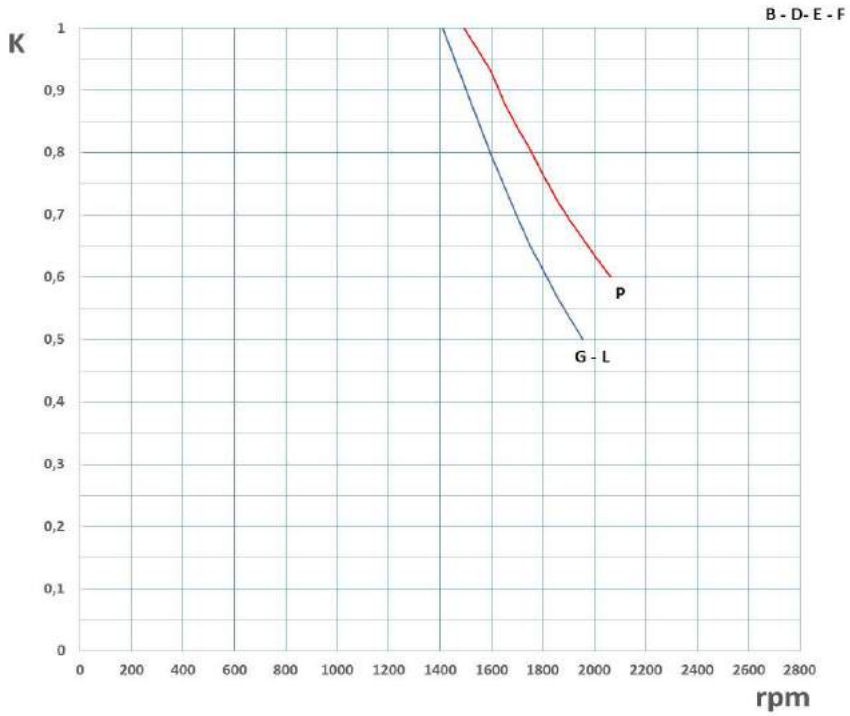
Motor type RP200NX **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
B	2033					**215**	585	1010	90,9	0,033	0,92
		2247				**237**	585	1007	91,4		
			2355			**248**	585	1006	91,6		
D	1654					**179**	491	1034	90,0	0,046	1,34
		1830				**198**	491	1033	90,6		
			1919			**207**	491	1030	90,9		
				2183		**236**	491	1032	91,5		
					2536	**273**	490	1028	92,2		
E	1504					**161**	444	1022	89,6	0,055	1,41
		1665				**178**	444	1021	90,2		
			1745			**187**	444	1023	90,5		
				1987		**212**	444	1019	91,2		
					2309	**247**	444	1022	91,9		
F	1373					**146**	405	1016	88,7	0,067	1,58
		1521				**161**	405	1011	89,5		
			1595			**169**	405	1012	89,8		
				1817		**193**	405	1014	90,6		
					2113	**224**	405	1012	91,4		
G	1161					**128**	360	1053	87,7	0,087	2,10
		1287				**142**	360	1054	88,6		
L	943					**102**	292	1033	85,6	0,133	4,03
		1048				**113**	292	1030	86,6		
			1100			**119**	292	1033	87,1		
				1258		**135**	291	1025	88,2		
P	651					**70**	210	1027	81,1	0,262	5,85
		727				**78**	210	1025	82,6		
			765			**82**	210	1024	83,2		
				879		**94**	210	1021	84,8		
					1031	**111**	210	1028	86,4		

Note: other windings are available on request

Motor type RP200NX IC06-17-37-86W

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP200NX5
Field power	W	2600
Inertia	kgm^2	1,2
Max mechanical speed	rpm	2800
Weight IC06	kg	690
Weight IC17-IC37	kg	655
Weight IC86W	kg	825
DE bearing	ball	6314-Z-C3
NDE bearing	ball	6314-Z-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	90L2	--	100L2
Power	kW	2,2	--	3
Current	A	5,2	--	5,95
Poles	n°.	2	--	2
Dissipated losses	kW	--	--	20
Water flow rate	m^3/h	--	--	3,44
Pressure drop	Pa	--	--	9700
Water flanges	DIN2566	--	--	DN40
Air flow rate	m^3/s	--	0,8	--
Static pressure	Pa	--	2000	--

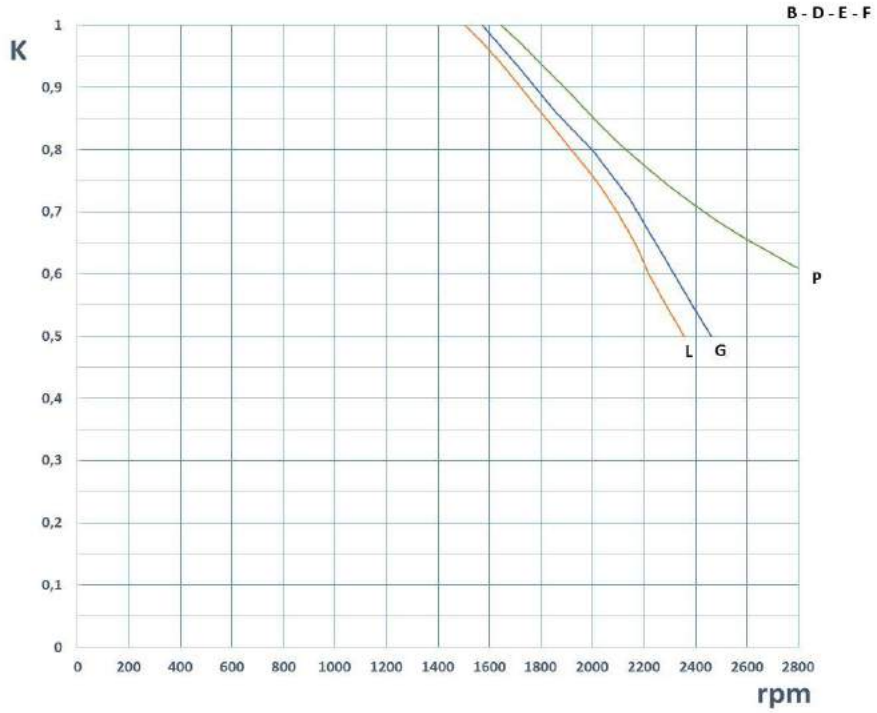
Motor type RP200KX **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
B	1895					**213**	585	1073	90,6	0,035	0,32
		2096				**236**	585	1075	91,0		
			2197			**247**	585	1074	91,2		
				2506		**280**	585	1067	91,6		
D	1546					**178**	491	1100	89,8	0,049	0,46
		1711				**197**	491	1100	90,4		
			1794			**206**	491	1097	90,6		
				2042		**234**	491	1094	91,2		
					2375	**271**	490	1090	91,7		
E	1394					**159**	444	1089	89,0	0,061	0,63
		1545				**177**	444	1094	89,6		
			1620			**185**	444	1091	89,9		
				1846		**211**	444	1092	90,6		
					2151	**245**	444	1088	91,3		
F	1272					**145**	405	1089	88,4	0,073	0,69
		1410				**160**	405	1084	89,1		
			1479			**168**	405	1085	89,4		
				1687		**191**	405	1081	90,2		
					1967	**222**	405	1078	90,9		
G	1074					**127**	360	1129	87,2	0,097	1,06
		1193				**141**	360	1129	88,0		
			1252			**148**	360	1129	88,4		
				1430		**169**	360	1129	89,3		
L	877					**101**	292	1100	85,6	0,142	1,39
		975				**113**	292	1107	86,6		
			1024			**118**	292	1100	87,1		
				1172		**135**	292	1100	88,2		
					1369	**158**	292	1102	89,3		
P	601					**69**	210	1096	81,2	0,277	2,37
		672				**78**	210	1108	82,6		
			708			**82**	210	1106	83,3		
				814		**94**	210	1103	84,8		
					956	**110**	210	1099	86,5		

Note: other windings are available on request

Motor type RP200KX **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP200KX5
Field power	W	2100
Inertia	kgm^2	1,2
Max mechanical speed	rpm	2800
Weight IC06	kg	690
Weight IC17-IC37	kg	655
Weight IC86W	kg	825
DE bearing	ball	6314-Z-C3
NDE bearing	ball	6314-Z-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	90L2	--	100L2
Power	kW	2,2	--	3
Current	A	5,2	--	5,95
Poles	n°.	2	--	2
Dissipated losses	kW	--	--	20
Water flow rate	m^3/h	--	--	3,44
Pressure drop	Pa	--	--	9700
Water flanges	DIN2566	--	--	DN40
Air flow rate	m^3/s	--	0,8	--
Static pressure	Pa	--	2000	--

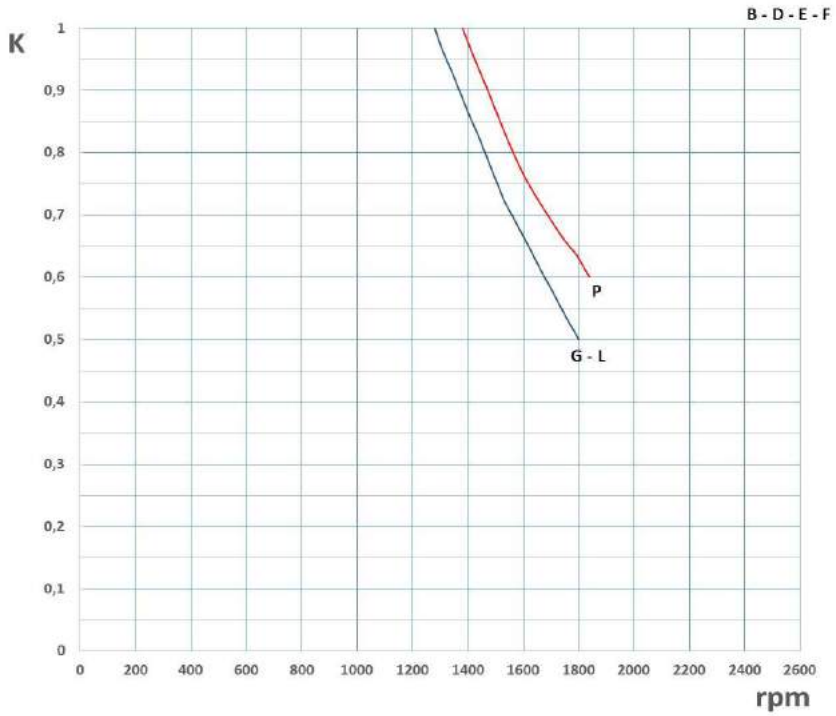
Motor type RP200NY **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
B	1822					**214**	585	1122	90,6	0,036	1,01
		2015				**237**	585	1123	91,1		
			2112			**248**	585	1121	91,4		
D	1481					**178**	491	1148	89,6	0,050	1,45
		1640				**197**	491	1147	90,2		
			1719			**207**	491	1150	90,5		
				1957		**235**	491	1147	91,2		
					2275	**272**	490	1142	91,9		
E	1346					**160**	444	1135	89,1	0,059	1,55
		1491				**177**	444	1134	89,8		
			1564			**186**	444	1136	90,1		
				1781		**212**	444	1137	90,9		
					2071	**246**	444	1134	91,6		
F	1228					**145**	405	1128	88,2	0,073	1,75
		1361				**161**	405	1130	89,0		
			1428			**168**	405	1124	89,3		
				1628		**192**	405	1126	90,2		
					1895	**223**	405	1124	91,0		
G	1037					**127**	360	1170	87,1	0,094	2,31
		1151				**141**	360	1170	88,0		
L	841					**101**	292	1147	84,8	0,144	4,45
		935				**112**	292	1144	85,9		
			983			**118**	292	1146	86,4		
				1125		**135**	291	1146	87,6		
P	578					**69**	210	1140	80,0	0,283	6,48
		647				**77**	210	1137	81,5		
			681			**81**	210	1136	82,2		
				783		**93**	210	1134	83,9		
					920	**110**	210	1142	85,6		

Note: other windings are available on request

Motor type RP200NY IC06-17-37-86W

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP200NY5
Field power	W	2600
Inertia	kgm^2	1,37
Max mechanical speed	rpm	2800
Weight IC06	kg	750
Weight IC17-IC37	kg	710
Weight IC86W	kg	880
DE bearing	ball	6314-Z-C3
NDE bearing	ball	6314-Z-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	90L2	--	100L2
Power	kW	2,2	--	3
Current	A	5,2	--	5,95
Poles	n°.	2	--	2
Dissipated losses	kW	--	--	20
Water flow rate	m^3/h	--	--	3,44
Pressure drop	Pa	--	--	9700
Water flanges	DIN2566	--	--	DN40
Air flow rate	m^3/s	--	0,8	--
Static pressure	Pa	--	2000	--

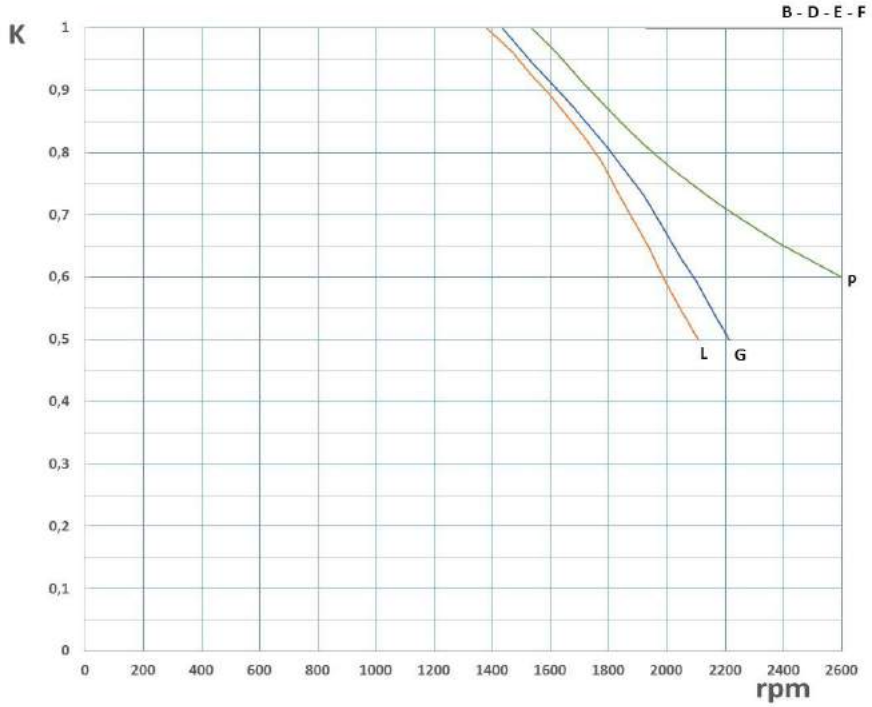
Motor type RP200KY **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
B	1699					**213**	585	1197	90,2	0,038	0,32
		1879				**235**	585	1194	90,7		
			1970			**246**	585	1193	90,9		
				2248		**280**	585	1190	91,4		
D	1384					**177**	491	1221	89,3	0,053	0,51
		1533				**196**	491	1221	89,9		
			1607			**205**	491	1218	90,2		
				1831		**234**	491	1220	90,9		
					2131	**271**	490	1214	91,5		
E	1248					**159**	444	1217	88,4	0,066	0,70
		1383				**176**	444	1215	89,1		
			1451			**184**	444	1211	89,4		
				1654		**210**	444	1213	90,2		
					1929	**244**	444	1208	90,9		
F	1138					**144**	405	1208	87,8	0,079	0,76
		1262				**160**	405	1211	88,6		
			1324			**167**	405	1205	88,9		
				1511		**191**	405	1207	89,7		
					1763	**222**	405	1203	90,5		
G	960					**126**	360	1253	86,4	0,105	1,17
		1066				**140**	360	1254	87,3		
			1120			**147**	360	1253	87,7		
				1280		**168**	360	1253	88,7		
L	782					**100**	292	1221	84,7	0,153	1,54
		871				**112**	292	1228	85,8		
			915			**118**	292	1232	86,3		
				1048		**135**	292	1230	87,5		
					1225	**157**	292	1224	88,7		
P	534					**69**	210	1234	79,8	0,298	2,10
		598				**77**	210	1230	81,4		
			630			**81**	210	1228	82,1		
				725		**93**	210	1225	83,8		
					853	**109**	210	1220	85,6		

Note: other windings are available on request

Motor type RP200KY **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP200KY5
Field power	W	2500
Inertia	kgm^2	1,37
Max mechanical speed	rpm	2700
Weight IC06	kg	750
Weight IC17-IC37	kg	710
Weight IC86W	kg	880
DE bearing	ball	6314-Z-C3
NDE bearing	ball	6314-Z-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	90L2	--	100L2
Power	kW	2,2	--	3
Current	A	5,2	--	5,95
Poles	n°.	2	--	2
Dissipated losses	kW	--	--	20
Water flow rate	m^3/h	--	--	3,44
Pressure drop	Pa	--	--	9700
Water flanges	DIN2566	--	--	DN40
Air flow rate	m^3/s	--	0,8	--
Static pressure	Pa	--	2000	--

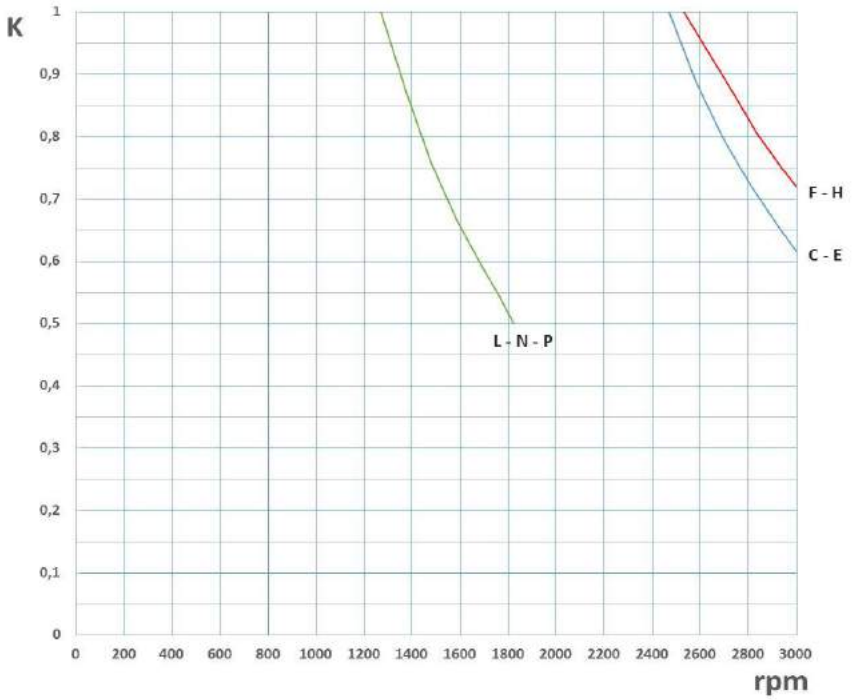
Motor type RP225NS **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
C	2033					**285**	770	1339	91,9	0,0200	0,53
		2245				**314**	770	1336	92,2		
E	1672					**233**	635	1331	91,1	0,0289	0,80
		1848				**258**	635	1333	91,6		
			1936			**270**	635	1332	91,8		
				2201		**307**	635	1332	92,3		
F	1505					**208**	570	1320	90,6	0,0355	0,98
		1665				**230**	570	1319	91,1		
			1745			**241**	570	1319	91,3		
				1984		**274**	570	1319	91,9		
H	1322					**182**	500	1315	89,9	0,0455	1,24
		1463				**201**	500	1312	90,5		
			1533			**211**	500	1314	90,7		
				1745		**239**	500	1308	91,4		
					2027	**279**	500	1314	92,4		
L	1059					**149**	415	1344	88,6	0,0672	1,89
N	906					**126**	355	1328	87,3	0,0913	2,80
		1005				**139**	355	1321	88,1		
			1055			**146**	355	1322	88,5		
P	600					**83**	245	1321	83,0	0,1962	5,60
		669				**92**	245	1313	84,2		
			703			**97**	245	1318	84,8		
				806		**112**	245	1327	86,2		
					944	**130**	245	1315	87,6		

Note: other windings are available on request

Motor type RP225NS **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP225NS5
Field power	W	2600
Inertia	kgm^2	2
Max mechanical speed	rpm	3000
Weight IC06	kg	910
Weight IC17-IC37	kg	865
Weight IC86W	kg	1060
DE bearing	roller	NU2218-C3
NDE bearing	ball	6315-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	100L2	--	112M2A
Power	kW	3	--	4
Current	A	5,95	--	7,4
Poles	n°.	2	--	2
Dissipated losses	kW	--	--	28
Water flow rate	m^3/h	--	--	4,82
Pressure drop	Pa	--	--	12400
Water flanges	DIN2566	--	--	DN40
Air flow rate	m^3/s	--	1	--
Static pressure	Pa	--	2000	--

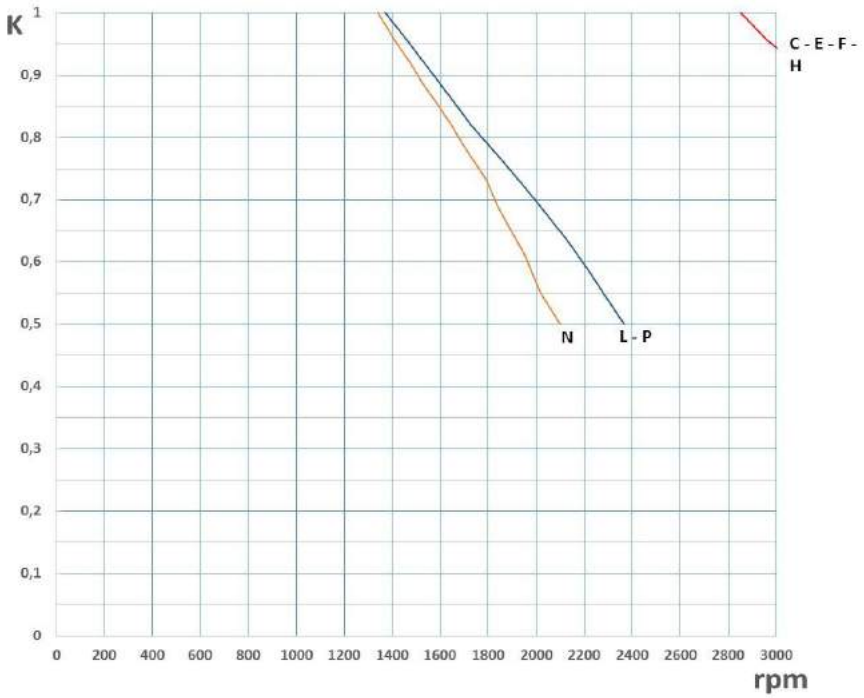
Motor type RP225KS **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
C	1937					**295**	800	1454	91,9	0,0215	0,18
		2140				**326**	800	1455	92,3		
			2242			**342**	800	1457	92,4		
				2547		**388**	800	1455	92,8		
E	1586					**241**	660	1451	90,8	0,0330	0,28
		1755				**266**	660	1447	91,3		
			1839			**279**	660	1449	91,5		
				2092		**317**	660	1447	92,1		
					2429	**368**	660	1447	92,6		
F	1429					**218**	600	1457	90,4	0,0391	0,33
		1581				**241**	600	1456	91,0		
			1658			**253**	600	1457	91,2		
				1887		**288**	600	1458	91,8		
					2192	**334**	600	1455	92,4		
H	1252					**191**	530	1457	89,6	0,0503	0,40
		1387				**212**	530	1460	90,3		
			1455			**222**	530	1457	90,5		
				1657		**253**	530	1458	91,2		
					1927	**294**	530	1457	91,9		
L	1001					**157**	440	1498	88,2	0,0737	0,66
		1111				**174**	440	1496	89,0		
			1165			**182**	440	1492	89,4		
				1330		**208**	440	1494	90,2		
N	850					**133**	380	1494	86,4	0,1047	0,86
		945				**147**	380	1486	87,3		
			992			**155**	380	1492	87,8		
				1135		**177**	380	1489	88,8		
					1325	**206**	380	1485	89,9		
P	565					**87**	260	1471	82,7	0,2068	1,95
		631				**97**	260	1468	84,0		
			664			**102**	260	1467	84,5		
				763		**117**	260	1464	86,0		
					894	**138**	260	1474	87,5		

Note: other windings are available on request

Motor type RP225KS **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP225KS5
Field power	W	2000
Inertia	kgm^2	2
Max mechanical speed	rpm	3000
Weight IC06	kg	910
Weight IC17-IC37	kg	865
Weight IC86W	kg	1060
DE bearing	roller	NU2218-C3
NDE bearing	ball	6315-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	100L2	--	112M2A
Power	kW	3	--	4
Current	A	5,95	--	7,4
Poles	n°.	2	--	2
Dissipated losses	kW	--	--	28
Water flow rate	m^3/h	--	--	4,82
Pressure drop	Pa	--	--	12400
Water flanges	DIN2566	--	--	DN40
Air flow rate	m^3/s	--	1	--
Static pressure	Pa	--	2000	--

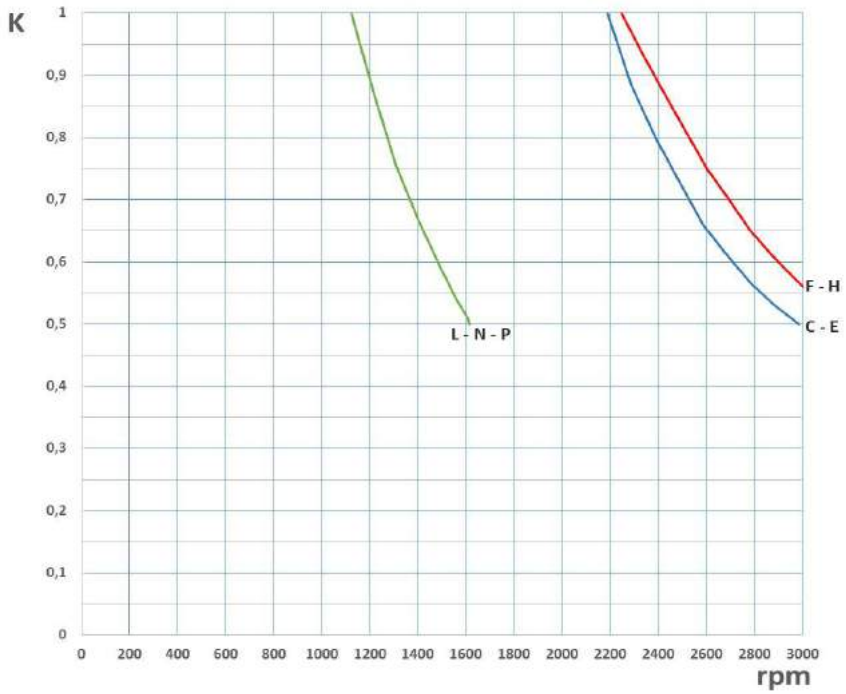
Motor type RP225NM **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
C	1801					**284**	770	1506	91,7	0,0217	0,60
		1990				**314**	770	1507	92,1		
E	1480					**233**	635	1503	90,8	0,0313	0,81
		1637				**257**	635	1499	91,3		
			1715			**269**	635	1498	91,6		
				1950		**306**	635	1499	92,1		
F	1332					**208**	570	1491	90,3	0,0384	1,10
		1474				**230**	570	1490	90,8		
			1545			**241**	570	1490	91,1		
				1757		**274**	570	1489	91,7		
H	1169					**181**	500	1479	89,5	0,0493	1,40
		1294				**200**	500	1476	90,2		
			1357			**210**	500	1478	90,4		
				1545		**239**	500	1477	91,1		
					1796	**278**	500	1478	92,1		
L	935					**148**	415	1512	88,1	0,0729	2,14
N	800					**125**	355	1492	86,7	0,0989	3,24
		888				**139**	355	1495	87,6		
			932			**146**	355	1496	88,0		
P	527					**82**	245	1486	82,0	0,2128	6,40
		588				**92**	245	1494	83,4		
			619			**96**	245	1481	84,0		
				711		**111**	245	1491	85,5		
					833	**130**	245	1490	87,0		

Note: other windings are available on request

Motor type RP225NM IC06-17-37-86W

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP225NM5
Field power	W	2700
Inertia	kgm^2	2,15
Max mechanical speed	rpm	3000
Weight IC06	kg	970
Weight IC17-IC37	kg	925
Weight IC86W	kg	1120
DE bearing	roller	NU2218-C3
NDE bearing	ball	6315-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	100L2	--	112M2A
Power	kW	3	--	4
Current	A	5,95	--	7,4
Poles	n°.	2	--	2
Dissipated losses	kW	--	--	28
Water flow rate	m^3/h	--	--	4,82
Pressure drop	Pa	--	--	12400
Water flanges	DIN2566	--	--	DN40
Air flow rate	m^3/s	--	1	--
Static pressure	Pa	--	2000	--

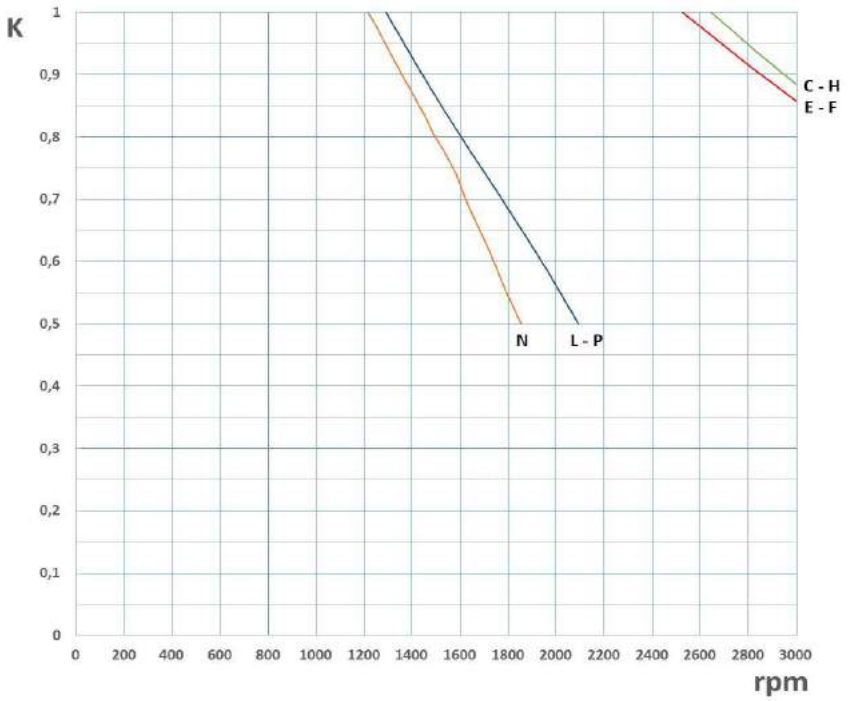
Motor type RP225KM **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
C	1716					**295**	800	1642	91,7	0,0232	0,20
		1896				**326**	800	1642	92,1		
			1987			**341**	800	1639	92,3		
				2258		**387**	800	1637	92,7		
E	1403					**240**	660	1634	90,5	0,0356	0,31
		1553				**266**	660	1636	91,0		
			1628			**279**	660	1637	91,3		
				1853		**317**	660	1634	91,9		
					2153	**368**	660	1632	92,4		
F	1264					**218**	600	1647	90,0	0,0421	0,37
		1399				**241**	600	1645	90,6		
			1467			**252**	600	1640	90,9		
				1671		**287**	600	1640	91,6		
					1942	**333**	600	1638	92,2		
H	1107					**190**	530	1639	89,2	0,0542	0,44
		1227				**211**	530	1642	89,9		
			1287			**221**	530	1640	90,2		
				1467		**252**	530	1640	90,9		
					1707	**293**	530	1639	91,7		
L	883					**156**	440	1687	87,6	0,0795	0,74
		981				**173**	440	1684	88,5		
			1030			**181**	440	1678	88,9		
				1176		**207**	440	1681	89,8		
N	749					**132**	380	1683	85,6	0,1130	0,97
		833				**146**	380	1674	86,7		
			875			**154**	380	1681	87,1		
				1002		**176**	380	1677	88,3		
					1171	**205**	380	1672	89,4		
P	496					**86**	260	1656	81,6	0,2229	2,10
		555				**96**	260	1652	83,0		
			584			**101**	260	1652	83,6		
				672		**117**	260	1663	85,2		
					789	**137**	260	1658	86,8		

Note: other windings are available on request

Motor type RP225KM **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP225KM5
Field power	W	2200
Inertia	kgm^2	2,15
Max mechanical speed	rpm	3000
Weight IC06	kg	970
Weight IC17-IC37	kg	925
Weight IC86W	kg	1120
DE bearing	roller	NU2218-C3
NDE bearing	ball	6315-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	100L2	--	112M2A
Power	kW	3	--	4
Current	A	5,95	--	7,4
Poles	n°.	2	--	2
Dissipated losses	kW	--	--	28
Water flow rate	m^3/h	--	--	4,82
Pressure drop	Pa	--	--	12400
Water flanges	DIN2566	--	--	DN40
Air flow rate	m^3/s	--	1	--
Static pressure	Pa	--	2000	--

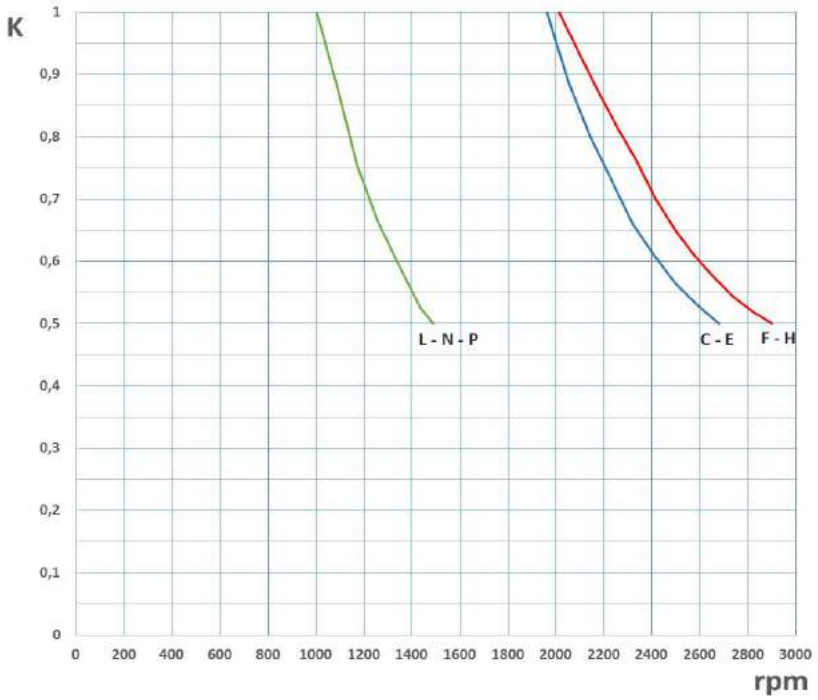
Motor type RP225NL **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
C	1615					**284**	770	1679	91,4	0,0234	0,67
		1785				**313**	770	1675	91,9		
E	1327					**232**	635	1670	90,5	0,0338	0,81
		1468				**257**	635	1672	91,1		
			1538			**269**	635	1670	91,3		
				1750		**306**	635	1670	91,9		
F	1193					**207**	570	1657	89,9	0,0414	1,23
		1321				**229**	570	1656	90,5		
			1385			**240**	570	1655	90,8		
				1576		**273**	570	1654	91,5		
H	1047					**180**	500	1642	89,1	0,0531	1,56
		1160				**200**	500	1647	89,8		
			1216			**209**	500	1641	90,1		
				1385		**238**	500	1641	90,8		
					1611	**278**	500	1648	91,9		
L	836					**147**	415	1679	87,5	0,0785	2,39
N	714					**124**	355	1659	86,0	0,1065	3,60
		794				**138**	355	1660	87,0		
			833			**145**	355	1662	87,4		
P	469					**81**	245	1649	81,0	0,2294	7,10
		524				**91**	245	1658	82,4		
			551			**96**	245	1664	83,1		
				634		**110**	245	1657	84,7		
					744	**129**	245	1656	86,3		

Note: other windings are available on request

Motor type RP225NL **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP225NL5
Field power	W	2900
Inertia	kgm^2	2,3
Max mechanical speed	rpm	3000
Weight IC06	kg	1030
Weight IC17-IC37	kg	985
Weight IC86W	kg	1180
DE bearing	roller	NU2218-C3
NDE bearing	ball	6315-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	100L2	--	112M2A
Power	kW	3	--	4
Current	A	5,95	--	7,4
Poles	n°.	2	--	2
Dissipated losses	kW	--	--	28
Water flow rate	m^3/h	--	--	4,82
Pressure drop	Pa	--	--	12400
Water flanges	DIN2566	--	--	DN40
Air flow rate	m^3/s	--	1	--
Static pressure	Pa	--	2000	--

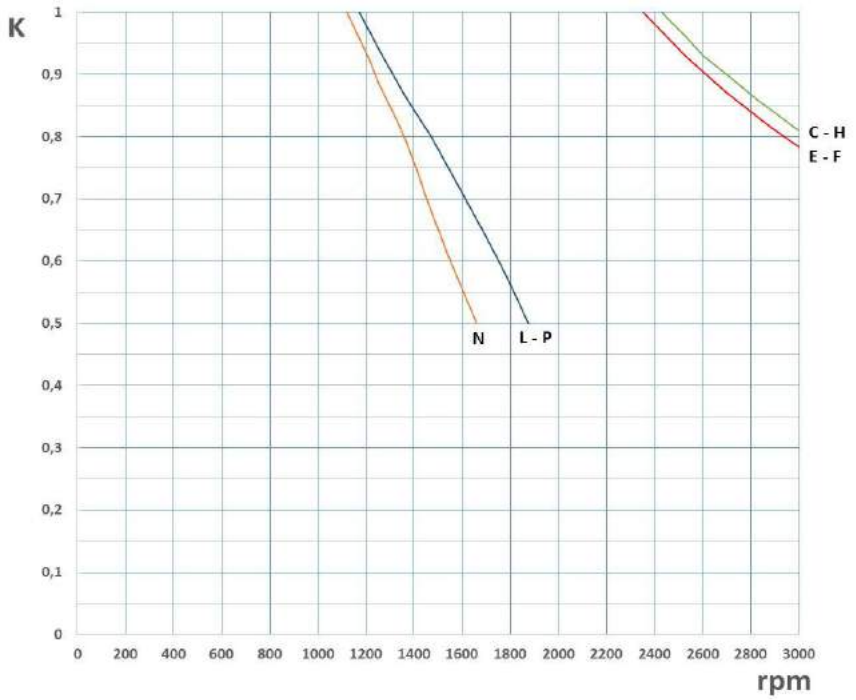
Motor type RP225KL **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
C	1538					**294**	800	1826	91,4	0,0248	0,22
		1701				**325**	800	1825	91,9		
			1783			**341**	800	1826	92,1		
				2027		**387**	800	1823	92,6		
E	1257					**240**	660	1823	90,1	0,0382	0,34
		1392				**265**	660	1818	90,7		
			1460			**278**	660	1818	91,0		
				1662		**316**	660	1816	91,6		
					1932	**367**	660	1814	92,3		
F	1132					**217**	600	1831	89,6	0,0452	0,41
		1254				**240**	600	1828	90,3		
			1315			**252**	600	1830	90,6		
				1498		**287**	600	1830	91,3		
					1742	**333**	600	1826	92,0		
H	991					**190**	530	1831	88,7	0,0582	0,49
		1098				**210**	530	1827	89,4		
			1152			**221**	530	1832	89,8		
				1314		**251**	530	1824	90,6		
					1530	**292**	530	1823	91,4		
L	789					**155**	440	1876	87,0	0,0853	0,82
		877				**172**	440	1873	87,9		
			921			**180**	440	1866	88,3		
				1052		**206**	440	1870	89,3		
N	668					**130**	380	1859	84,8	0,1213	1,07
		744				**145**	380	1861	85,9		
			782			**153**	380	1868	86,4		
				896		**175**	380	1865	87,7		
					1048	**204**	380	1859	88,9		
P	441					**85**	260	1841	80,5	0,2391	2,40
		494				**95**	260	1837	82,0		
			520			**100**	260	1837	82,7		
				599		**116**	260	1849	84,4		
					704	**136**	260	1845	86,1		

Note: other windings are available on request

Motor type RP225KL **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP225KL5
Field power	W	2450
Inertia	kgm^2	2,3
Max mechanical speed	rpm	3000
Weight IC06	kg	1030
Weight IC17-IC37	kg	985
Weight IC86W	kg	1180
DE bearing	roller	NU2218-C3
NDE bearing	ball	6315-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	100L2	--	112M2A
Power	kW	3	--	4
Current	A	5,95	--	7,4
Poles	n°.	2	--	2
Dissipated losses	kW	--	--	28
Water flow rate	m^3/h	--	--	4,82
Pressure drop	Pa	--	--	12400
Water flanges	DIN2566	--	--	DN40
Air flow rate	m^3/s	--	1	--
Static pressure	Pa	--	2000	--

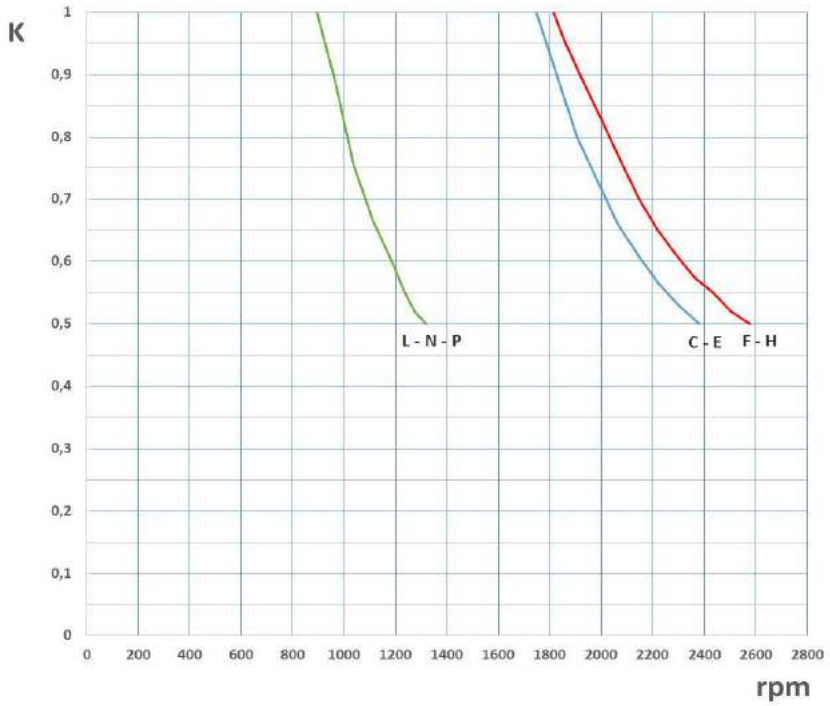
Motor type RP225NP **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
C	1436					**283**	770	1882	91,1	0,0254	0,75
		1588				**313**	770	1882	91,6		
E	1179					**231**	635	1871	90,1	0,0367	0,90
		1305				**256**	635	1873	90,7		
			1367			**268**	635	1872	91,0		
				1556		**305**	635	1872	91,6		
F	1060					**206**	570	1856	89,4	0,0450	1,37
		1174				**228**	570	1855	90,1		
			1231			**239**	570	1854	90,4		
				1401		**272**	570	1854	91,1		
H	929					**179**	500	1840	88,6	0,0577	1,74
		1030				**199**	500	1845	89,3		
			1080			**208**	500	1839	89,6		
				1231		**237**	500	1839	90,5		
					1432	**277**	500	1847	91,5		
L	741					**146**	415	1882	86,8	0,0854	1,55
N	632					**123**	355	1859	85,2	0,1157	4,00
		703				**137**	355	1861	86,3		
			738			**144**	355	1863	86,8		
P	413					**80**	245	1850	79,7	0,2493	7,90
		462				**90**	245	1860	81,3		
			486			**94**	245	1847	82,0		
				560		**109**	245	1859	83,7		
					658	**129**	245	1872	85,9		

Note: other windings are available on request

Motor type RP225NP **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP225NP5
Field power	W	3000
Inertia	kgm^2	2,5
Max mechanical speed	rpm	2800
Weight IC06	kg	1095
Weight IC17-IC37	kg	1050
Weight IC86W	kg	1245
DE bearing	roller	NU2218-C3
NDE bearing	ball	6315-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	100L2	--	112M2A
Power	kW	3	--	4
Current	A	5,95	--	7,4
Poles	n°.	2	--	2
Dissipated losses	kW	--	--	28
Water flow rate	m^3/h	--	--	4,82
Pressure drop	Pa	--	--	12400
Water flanges	DIN2566	--	--	DN40
Air flow rate	m^3/s	--	1	--
Static pressure	Pa	--	2000	--

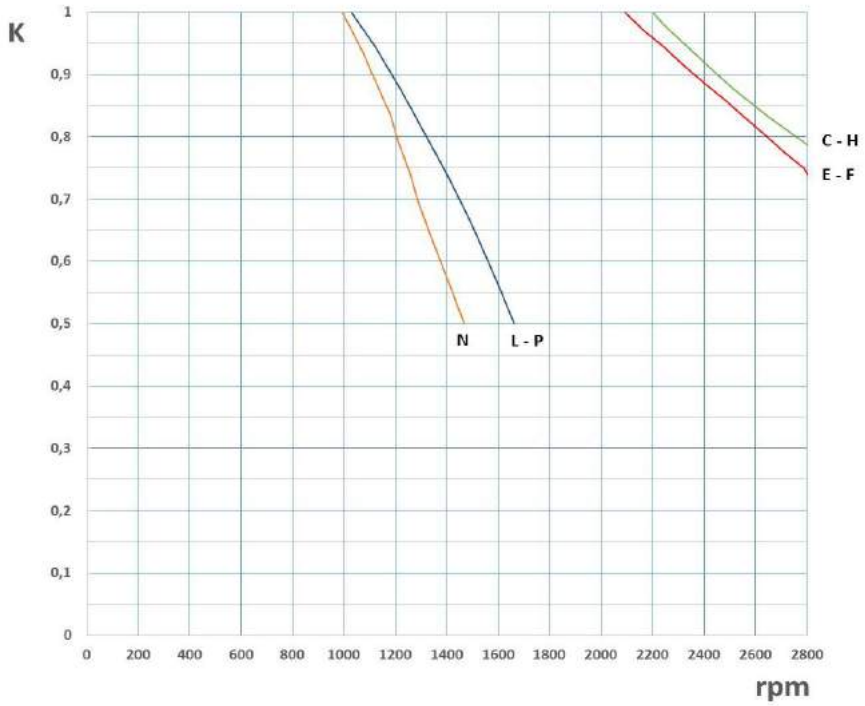
Motor type RP225KP **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
C	1368					**293**	800	2045	91,1	0,0268	0,24
		1513				**324**	800	2045	91,6		
			1586			**340**	800	2047	91,8		
				1804		**386**	800	2043	92,4		
E	1116					**239**	660	2045	89,7	0,0412	0,38
		1237				**264**	660	2038	90,3		
			1297			**277**	660	2040	90,6		
				1478		**315**	660	2035	91,3		
					1719	**366**	660	2033	92,0		
F	1004					**216**	600	2055	89,1	0,0488	0,56
		1113				**239**	600	2051	89,8		
			1168			**251**	600	2052	90,2		
				1331		**286**	600	2052	90,9		
					1549	**332**	600	2047	91,7		
H	878					**189**	530	2056	88,1	0,0629	0,55
		975				**209**	530	2047	88,9		
			1023			**220**	530	2054	89,3		
				1168		**250**	530	2044	90,2		
					1360	**291**	530	2043	91,1		
L	699					**154**	440	2104	86,3	0,0923	0,92
		777				**171**	440	2102	87,3		
			816			**179**	440	2095	87,7		
				934		**205**	440	2096	88,8		
N	590					**129**	380	2088	83,9	0,1312	1,20
		658				**144**	380	2090	85,1		
			692			**151**	380	2084	85,6		
				793		**174**	380	2095	87,0		
					929	**203**	380	2087	88,4		
P	388					**84**	260	2068	79,2	0,2584	2,85
		435				**94**	260	2064	80,8		
			458			**99**	260	2064	81,6		
				529		**114**	260	2058	83,4		
					623	**135**	260	2069	85,3		

Note: other windings are available on request

Motor type RP225KP **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP225KP5
Field power	W	2650
Inertia	kgm^2	2,5
Max mechanical speed	rpm	2800
Weight IC06	kg	1095
Weight IC17-IC37	kg	1050
Weight IC86W	kg	1245
DE bearing	roller	NU2218-C3
NDE bearing	ball	6315-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	100L2	--	112M2A
Power	kW	3	--	4
Current	A	5,95	--	7,4
Poles	n°.	2	--	2
Dissipated losses	kW	--	--	28
Water flow rate	m^3/h	--	--	4,82
Pressure drop	Pa	--	--	12400
Water flanges	DIN2566	--	--	DN40
Air flow rate	m^3/s	--	1	--
Static pressure	Pa	--	2000	--

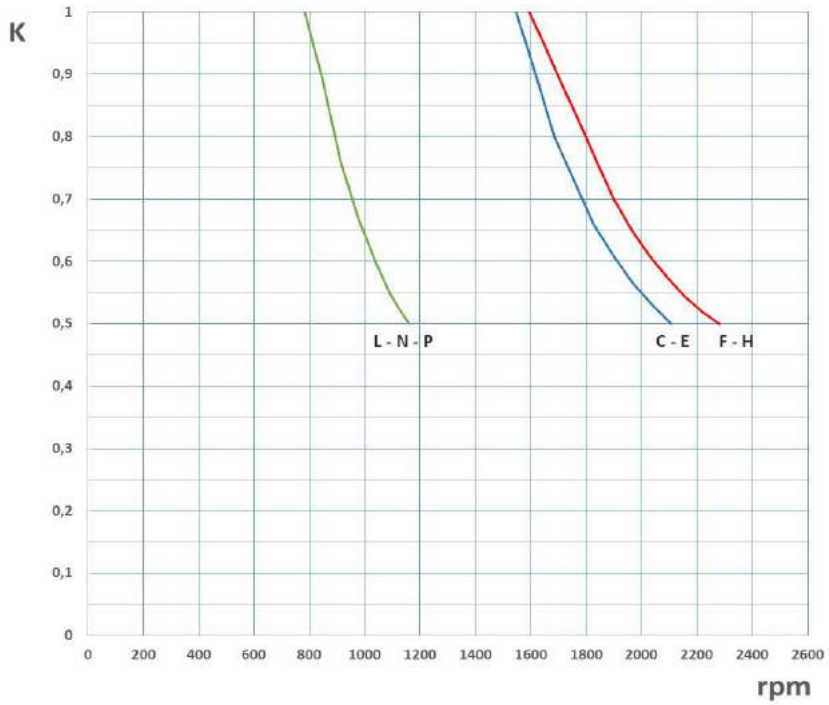
Motor type RP225NX **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
C	1270					**282**	770	2121	90,7	0,0278	0,84
		1405				**312**	770	2121	91,3		
E	1042					**230**	635	2108	89,6	0,0401	1,02
		1153				**255**	635	2112	90,3		
			1209			**267**	635	2109	90,6		
				1377		**304**	635	2108	91,3		
F	936					**205**	570	2092	88,9	0,0491	1,55
		1037				**227**	570	2091	89,6		
			1088			**238**	570	2089	90,0		
				1240		**271**	570	2087	90,7		
H	820					**178**	500	2073	87,9	0,0630	1,96
		909				**198**	500	2080	88,7		
			954			**207**	500	2072	89,1		
				1088		**236**	500	2072	90,0		
					1267	**275**	500	2073	90,9		
L	652					**145**	415	2124	86,0	0,0933	3,01
N	556					**122**	355	2096	84,3	0,1264	4,53
		619				**136**	355	2098	85,4		
			650			**143**	355	2101	86,0		
P	361					**79**	245	2090	78,3	0,2725	8,90
		404				**88**	245	2080	80,0		
			426			**93**	245	2085	80,8		
				491		**108**	245	2101	82,6		
					579	**127**	245	2095	85,0		

Note: other windings are available on request

Motor type RP225NX **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP225NX5
Field power	W	3300
Inertia	kgm^2	2,6
Max mechanical speed	rpm	2600
Weight IC06	kg	1160
Weight IC17-IC37	kg	1120
Weight IC86W	kg	1310
DE bearing	roller	NU2218-C3
NDE bearing	ball	6315-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor type		100L2	--	112M2A
Power	kW	3	--	4
Current	A	5,95	--	7,4
Poles	n°.	2	--	2
Dissipated losses	kW	--	--	28
Water flow rate	m^3/h	--	--	4,82
Pressure drop	Pa	--	--	12400
Water flanges	DIN2566	--	--	DN40
Air flow rate	m^3/s	--	1	--
Static pressure	Pa	--	2000	--

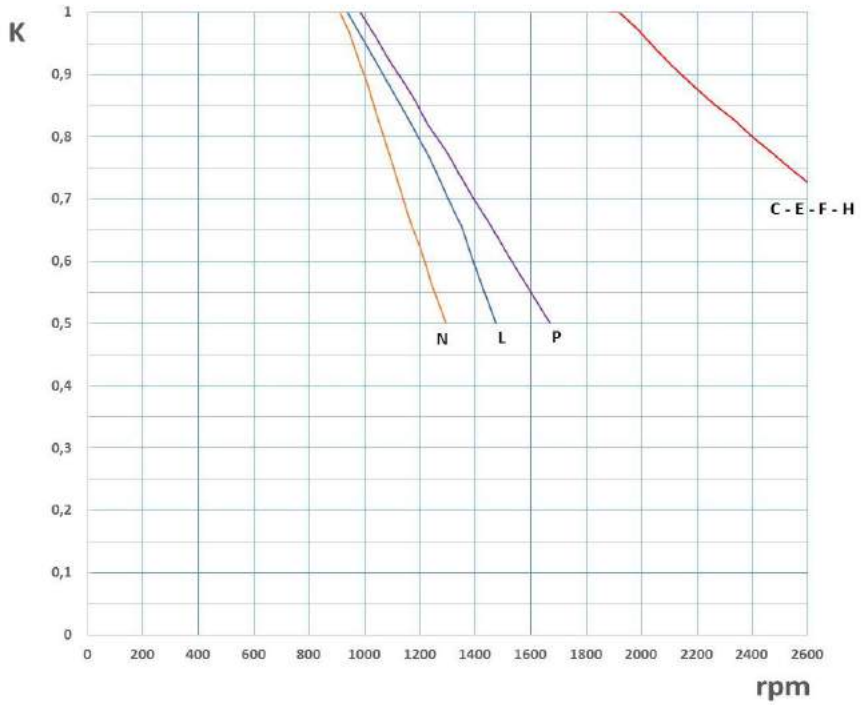
Motor type RP225KX **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
C	1210					**292**	800	2305	90,7	0,0292	0,27
		1339				**323**	800	2304	91,3		
			1404			**339**	800	2306	91,5		
				1597		**385**	800	2302	92,1		
E	986					**237**	660	2295	89,1	0,0448	0,42
		1093				**263**	660	2298	89,9		
			1147			**276**	660	2298	90,2		
				1307		**314**	660	2294	91,0		
					1521	**365**	660	2292	91,7		
F	886					**215**	600	2317	88,6	0,0531	0,51
		983				**238**	600	2312	89,3		
			1032			**250**	600	2313	89,7		
				1177		**285**	600	2312	90,5		
					1371	**331**	600	2306	91,4		
H	774					**187**	530	2307	87,4	0,0683	0,61
		860				**208**	530	2310	88,3		
			903			**218**	530	2306	88,7		
				1032		**249**	530	2304	89,7		
					1203	**290**	530	2302	90,7		
L	615					**152**	440	2360	85,4	0,1004	1,03
		685				**169**	440	2356	86,5		
			719			**178**	440	2364	87,0		
				824		**204**	440	2364	88,2		
N	518					**128**	380	2360	82,8	0,1428	1,30
		578				**143**	380	2363	84,2		
			608			**150**	380	2356	84,7		
				699		**172**	380	2350	86,2		
					819	**202**	380	2355	87,7		
P	339					**83**	260	2338	77,7	0,2810	3,01
		380				**93**	260	2337	79,5		
			401			**98**	260	2334	80,3		
				464		**113**	260	2326	82,3		
					547	**133**	260	2322	84,3		

Note: other windings are available on request

Motor type RP225KX **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP225KX5
Field power	W	2800
Inertia	kgm^2	2,6
Max mechanical speed	rpm	2600
Weight IC06	kg	1160
Weight IC17-IC37	kg	1120
Weight IC86W	kg	1310
DE bearing	roller	NU2218-C3
NDE bearing	ball	6315-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor type		100L2	--	112M2A
Power	kW	3	--	4
Current	A	5,95	--	7,4
Poles	n°.	2	--	2
Dissipated losses	kW	--	--	28
Water flow rate	m^3/h	--	--	4,82
Pressure drop	Pa	--	--	12400
Water flanges	DIN2566	--	--	DN40
Air flow rate	m^3/s	--	1	--
Static pressure	Pa	--	2000	--

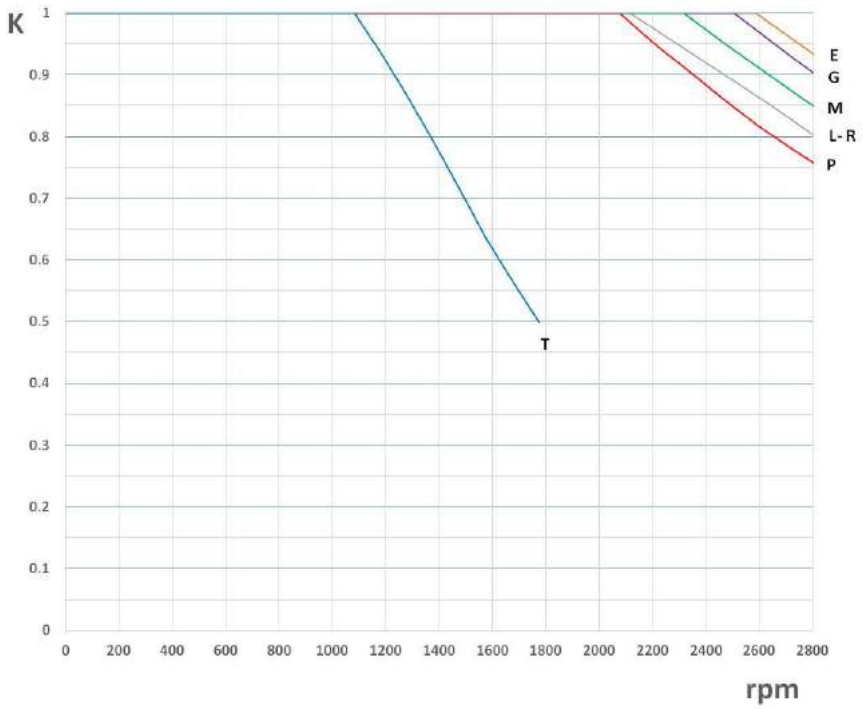
Motor type RP250KS **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
E	1641					**336**	910	1955	91,8	0,0191	0,18
		1813				**371**	910	1954	92,2		
			1899			**388**	910	1951	92,4		
				2158		**441**	910	1952	92,8		
G	1365					**312**	852	2183	91,2	0,0251	0,27
		1510				**345**	852	2182	91,7		
			1582			**362**	852	2185	91,9		
				1799		**411**	852	2182	92,4		
					2089	**477**	852	2181	92,9		
L	1147					**263**	724	2190	90,1	0,0354	0,34
		1271				**291**	724	2187	90,7		
			1332			**305**	724	2187	91,0		
				1517		**347**	724	2184	91,6		
					1764	**403**	724	2182	92,3		
M	1002					**231**	643	2202	89,2	0,0457	0,44
		1111				**256**	643	2201	89,9		
			1165			**269**	643	2205	90,2		
				1329		**306**	643	2199	91,0		
					1546	**356**	643	2199	91,7		
P	837					**191**	541	2179	87,5	0,0664	0,61
		929				**212**	541	2179	88,4		
			975			**223**	541	2184	88,8		
				1114		**254**	541	2177	89,7		
					1299	**296**	541	2176	90,7		
R	786					**180**	510	2187	87,4	0,0710	0,71
		873				**200**	510	2188	88,3		
			917			**210**	510	2187	88,7		
				1047		**240**	510	2189	89,7		
					1221	**279**	510	2182	90,6		
T	631					**144**	415	2179	85,9	0,1013	1,11
		702				**160**	415	2177	86,9		
			737			**168**	415	2177	87,4		
				844		**193**	415	2184	88,5		
					986	**225**	415	2179	89,7		

Note: other windings are available on request

Motor type RP250KS IC06-17-37-86W

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP250KS5
Field power	W	2500
Inertia	kgm^2	3,65
Max mechanical speed	rpm	2800
Weight IC06	kg	1200
Weight IC17-IC37	kg	1145
Weight IC86W	kg	1405
DE bearing	roller	NU2220-C3
NDE bearing	ball	6318-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	112M4A	--	132S2A
Power	kW	4	--	5,5
Current	A	8,6	--	10,5
Poles	n°.	4	--	2
Dissipated losses	kW	--	--	40
Water flow rate	m^3/h	--	--	12,6
Pressure drop	Pa	--	--	26500
Water flanges	DIN2566	--	--	DN50
Air flow rate	m^3/s	--	1,5	--
Static pressure	Pa	--	1600	--

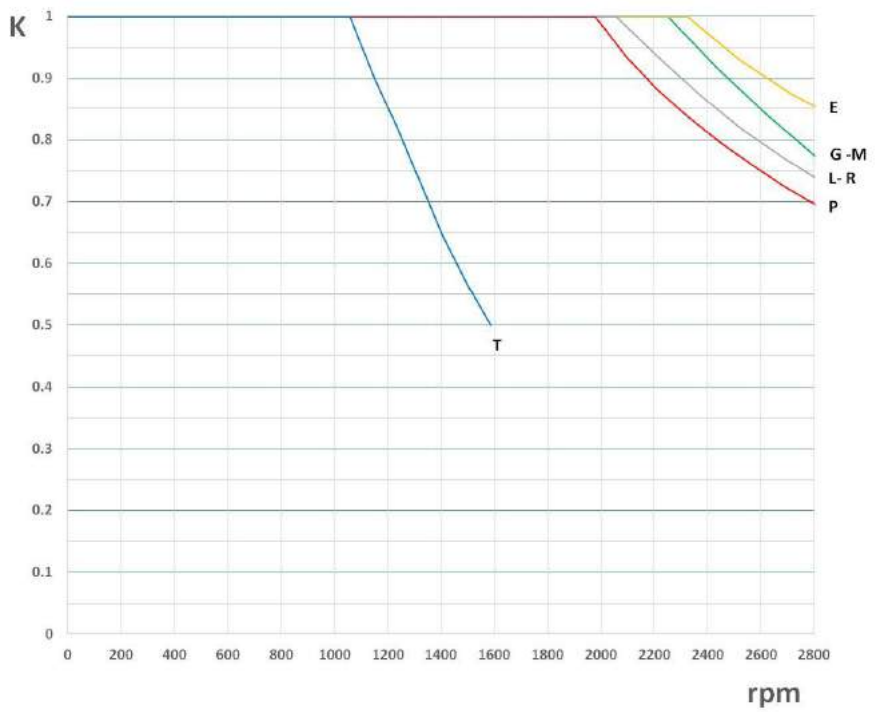
Motor type RP250KM **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
E	1472					**335**	910	2173	91,6	0,0203	0,20
		1627				**370**	910	2172	92,0		
			1705			**388**	910	2173	92,2		
				1938		**440**	910	2168	92,7		
G	1223					**311**	851	2428	90,9	0,0268	0,31
		1354				**344**	851	2426	91,4		
			1419			**361**	851	2430	91,6		
				1615		**410**	851	2424	92,2		
					1876	**476**	851	2423	92,8		
L	1028					**262**	724	2434	89,7	0,0379	0,39
		1139				**290**	724	2432	90,4		
			1194			**304**	724	2431	90,7		
				1361		**346**	724	2428	91,4		
					1583	**402**	724	2425	92,1		
M	897					**230**	643	2449	88,7	0,0489	0,48
		995				**255**	643	2447	89,5		
			1044			**268**	643	2452	89,8		
				1191		**305**	643	2446	90,7		
					1387	**355**	643	2444	91,5		
P	748					**190**	541	2426	86,9	0,0710	0,67
		831				**211**	541	2425	87,9		
			873			**222**	541	2429	88,3		
				997		**253**	541	2423	89,3		
					1164	**295**	541	2420	90,3		
R	703					**179**	510	2432	86,8	0,0759	0,79
		781				**199**	510	2433	87,8		
			820			**209**	510	2434	88,2		
				937		**239**	510	2436	89,2		
					1094	**278**	510	2427	90,3		
T	563					**143**	415	2426	85,2	0,1083	1,24
		627				**159**	415	2422	86,3		
			659			**167**	415	2420	86,8		
				755		**192**	415	2429	88,0		
					882	**224**	415	2425	89,2		

Note: other windings are available on request

Motor type RP250KM **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP250KM5
Field power	W	2700
Inertia	kgm^2	3,9
Max mechanical speed	rpm	2800
Weight IC06	kg	1275
Weight IC17-IC37	kg	1220
Weight IC86W	kg	1480
DE bearing	roller	NU2220-C3
NDE bearing	ball	6318-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	112M4A	--	132S2A
Power	kW	4	--	5,5
Current	A	8,6	--	10,5
Poles	n°.	4	--	2
Dissipated losses	kW	--	--	40
Water flow rate	m^3/h	--	--	12,6
Pressure drop	Pa	--	--	26500
Water flanges	DIN2566	--	--	DN50
Air flow rate	m^3/s	--	1,5	--
Static pressure	Pa	--	1600	--

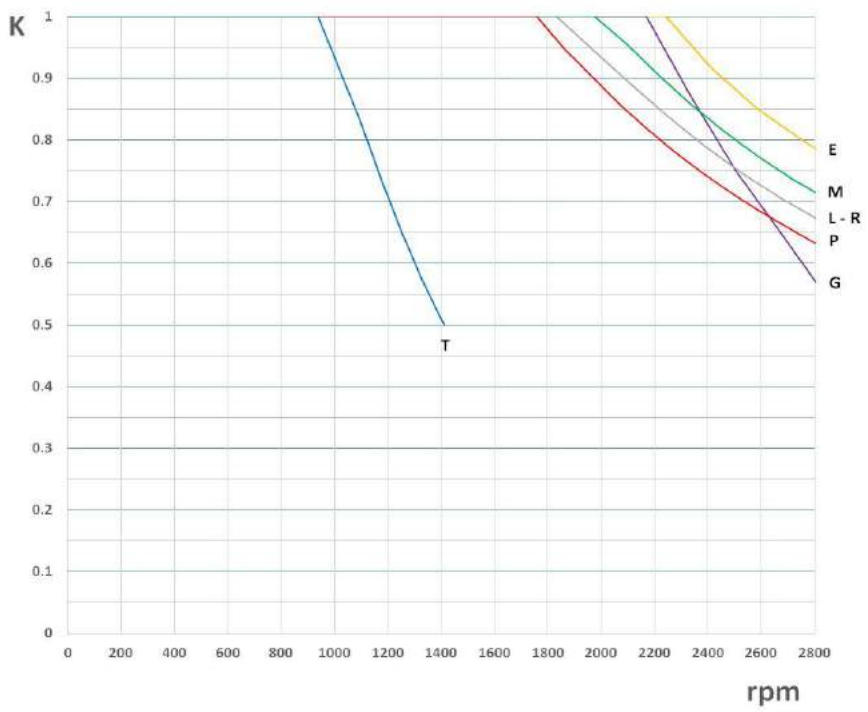
Motor type RP250KL **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
E	1309					**335**	910	2444	91,3	0,0219	0,22
		1448				**370**	910	2440	91,8		
			1517			**387**	910	2436	92,0		
				1725		**440**	910	2436	92,5		
G	1087					**310**	852	2724	90,5	0,0289	0,33
		1203				**344**	852	2731	91,1		
			1262			**360**	852	2724	91,3		
				1436		**410**	852	2727	92,0		
					1669	**475**	852	2718	92,6		
L	912					**261**	724	2733	89,2	0,0408	0,43
		1011				**289**	724	2730	90,0		
			1061			**303**	724	2727	90,3		
				1209		**345**	724	2725	91,0		
					1408	**401**	724	2720	91,8		
M	795					**229**	643	2751	88,2	0,0527	0,54
		883				**254**	643	2747	89,0		
			942			**266**	643	2740	89,4		
				1058		**304**	643	2744	90,2		
					1233	**354**	643	2742	91,1		
P	662					**189**	541	2727	86,2	0,0765	0,76
		736				**210**	541	2725	87,2		
			773			**220**	541	2718	87,7		
				885		**252**	541	2719	88,8		
					1034	**294**	541	2715	89,9		
R	622					**178**	510	2733	86,1	0,0819	0,88
		692				**198**	510	2733	87,1		
			727			**208**	510	2732	87,6		
				832		**237**	510	2720	88,7		
					971	**277**	510	2724	89,8		
T	498					**142**	415	2723	84,3	0,1168	1,39
		555				**158**	415	2719	85,5		
			583			**166**	415	2719	86,0		
				669		**191**	415	2727	87,3		
					783	**223**	415	2720	88,7		

Note: other windings are available on request

Motor type RP250KL **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP250KL5
Field power	W	2900
Inertia	kgm^2	4,2
Max mechanical speed	rpm	2900
Weight IC06	kg	1365
Weight IC17-IC37	kg	1310
Weight IC86W	kg	1570
DE bearing	roller	NU2220-C3
NDE bearing	ball	6318-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	112M4A	--	132S2A
Power	kW	4	--	5,5
Current	A	8,6	--	10,5
Poles	n°.	4	--	2
Dissipated losses	kW	--	--	40
Water flow rate	m^3/h	--	--	12,6
Pressure drop	Pa	--	--	26500
Water flanges	DIN2566	--	--	DN50
Air flow rate	m^3/s	--	1,5	--
Static pressure	Pa	--	1600	--

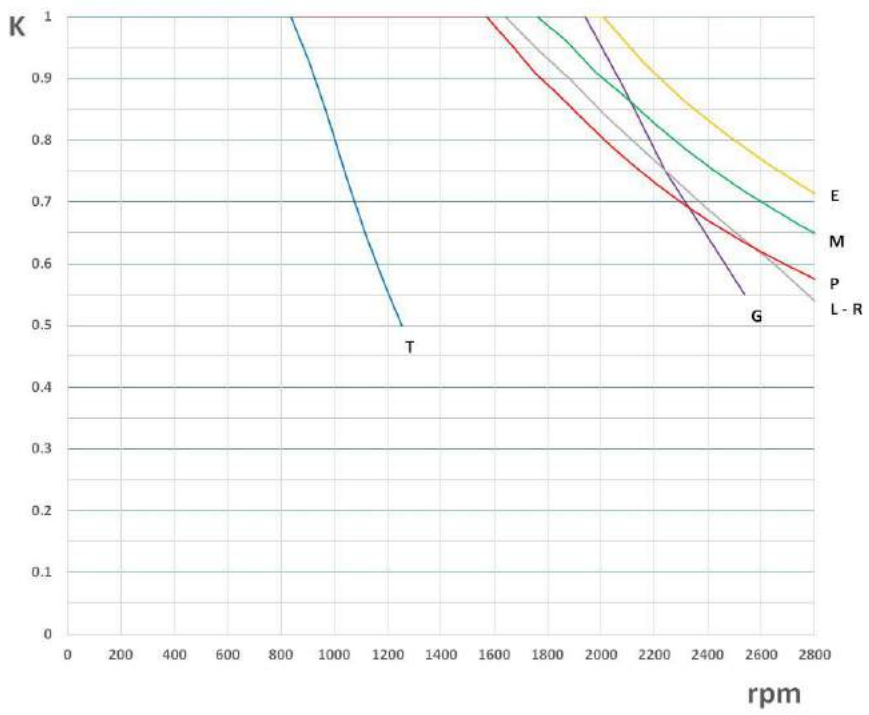
Motor type RP250KP **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
E	1170					**334**	910	2726	91,0	0,0237	0,24
		1295				**369**	910	2721	91,5		
			1357			**386**	910	2717	91,7		
				1543		**439**	910	2717	92,3		
G	970					**309**	851	3042	90,0	0,0313	0,35
		1075				**342**	851	3038	90,7		
			1127			**358**	851	3034	90,9		
				1284		**408**	851	3035	91,6		
					1493	**474**	851	3032	92,3		
L	814					**259**	724	3039	88,7	0,0443	0,46
		903				**287**	724	3035	89,4		
			948			**301**	724	3032	89,8		
				1082		**343**	724	3027	90,6		
					1260	**400**	724	3032	91,5		
M	708					**227**	643	3062	87,5	0,0572	0,58
		786				**252**	643	3062	88,4		
			825			**265**	643	3068	88,8		
				943		**302**	643	3058	89,7		
					1100	**352**	643	3056	90,7		
P	589					**187**	541	3032	85,4	0,0830	0,81
		656				**208**	541	3028	86,5		
			689			**219**	541	3035	87,0		
				790		**250**	541	3022	88,2		
					923	**292**	541	3021	89,4		
R	553					**176**	510	3039	85,2	0,0888	0,94
		615				**196**	510	3044	86,4		
			647			**206**	510	3041	86,8		
				741		**236**	510	3042	88,1		
					866	**276**	510	3044	89,3		
T	441					**140**	415	3032	83,3	0,1267	1,48
		493				**157**	415	3041	84,6		
			518			**165**	415	3042	85,1		
				595		**189**	415	3034	86,6		
					697	**221**	415	3028	88,0		

Note: other windings are available on request

Motor type RP250KP **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP250KP5
Field power	W	3100
Inertia	kgm^2	4,5
Max mechanical speed	rpm	2800
Weight IC06	kg	1460
Weight IC17-IC37	kg	1410
Weight IC86W	kg	1665
DE bearing	roller	NU2220-C3
NDE bearing	ball	6318-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	112M4A	--	132S2A
Power	kW	4	--	5,5
Current	A	8,6	--	10,5
Poles	n°.	4	--	2
Dissipated losses	kW	--	--	40
Water flow rate	m^3/h	--	--	12,6
Pressure drop	Pa	--	--	26500
Water flanges	DIN2566	--	--	DN50
Air flow rate	m^3/s	--	1,5	--
Static pressure	Pa	--	1600	--

Note: other windings are available on request

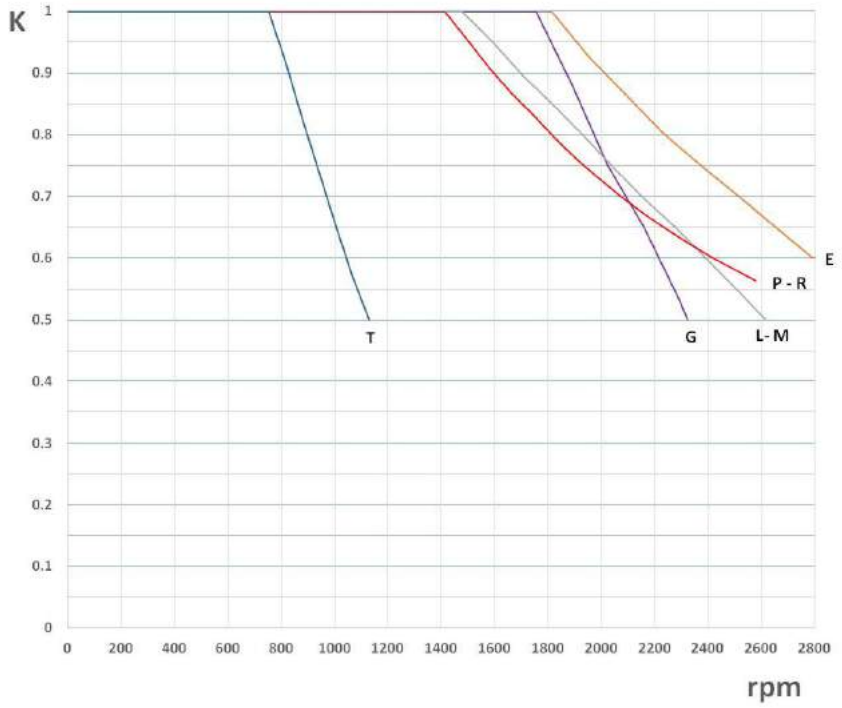
Motor type RP250KX **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
E	1057					**332**	910	3000	90,6	0,0257	0,26
		1170				**367**	910	2996	91,1		
			1227			**385**	910	2997	91,4		
				1396		**438**	910	2996	92,0		
G	875					**307**	851	3351	89,4	0,0341	0,38
		970				**340**	851	3347	90,1		
			1018			**357**	851	3349	90,4		
				1160		**406**	851	3343	91,2		
					1350	**472**	851	3339	92,0		
L	734					**257**	724	3344	88,0	0,0482	0,49
		814				**285**	724	3344	88,8		
			855			**299**	724	3340	89,2		
				976		**342**	724	3346	90,1		
					1138	**398**	724	3340	91,0		
M	637					**225**	643	3373	86,7	0,0623	0,62
		708				**250**	643	3372	87,6		
			743			**263**	643	3380	88,1		
				850		**300**	643	3371	89,1		
					993	**350**	643	3366	90,2		
P	529					**185**	541	3340	84,4	0,0903	0,87
		590				**206**	541	3334	85,6		
			620			**217**	541	3343	86,1		
				711		**248**	541	3331	87,4		
					832	**290**	541	3329	88,7		
R	496					**174**	510	3350	84,2	0,0967	1,01
		553				**194**	510	3350	85,4		
			582			**204**	510	3347	86,0		
				667		**234**	510	3350	87,3		
					781	**274**	510	3350	88,6		
T	395					**138**	415	3336	82,1	0,1380	1,59
		442				**155**	415	3349	83,5		
			465			**163**	415	3348	84,1		
				535		**187**	415	3338	85,7		
					628	**220**	415	3346	87,2		

Note: other windings are available on request

Motor type RP250KX **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP250KX5
Field power	W	3300
Inertia	kgm^2	4,9
Max mechanical speed	rpm	2600
Weight IC06	kg	1565
Weight IC17-IC37	kg	1510
Weight IC86W	kg	1770
DE bearing	roller	NU2220-C3
NDE bearing	ball	6318-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	112M4A	--	132S2A
Power	kW	4	--	5,5
Current	A	8,6	--	10,5
Poles	n°.	4	--	2
Dissipated losses	kW	--	--	40
Water flow rate	m^3/h	--	--	12,6
Pressure drop	Pa	--	--	26500
Water flanges	DIN2566	--	--	DN50
Air flow rate	m^3/s	--	1,5	--
Static pressure	Pa	--	1600	--

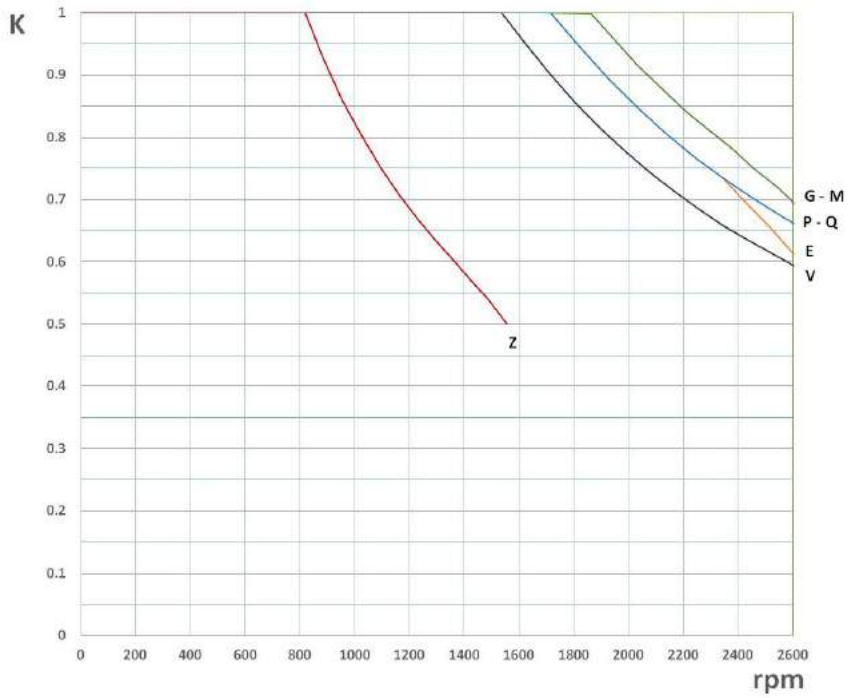
Motor type RP280KS **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
E	1318					**457**	1235	3311	92,0	0,0157	0,17
		1458				**505**	1235	3308	92,5		
			1527			**529**	1235	3308	92,7		
				1736		**601**	1235	3306	93,2		
G	1105					**377**	1031	3258	90,9	0,0222	0,23
		1223				**417**	1031	3256	91,5		
			1282			**437**	1031	3255	91,7		
				1459		**498**	1031	3260	92,5		
					1695	**579**	1031	3262	93,2		
M	941					**322**	886	3268	90,2	0,0303	0,35
		1042				**357**	886	3272	90,9		
			1093			**374**	886	3268	91,2		
				1245		**427**	886	3275	92,1		
					1448	**497**	886	3278	93,0		
P	810					**277**	772	3266	88,9	0,0410	0,42
		898				**307**	772	3265	89,8		
			943			**322**	772	3261	90,1		
				1075		**368**	772	3269	91,1		
					1252	**429**	772	3272	92,0		
Q	689					**237**	670	3285	87,5	0,0557	0,58
		765				**263**	670	3283	88,4		
			804			**276**	670	3278	88,8		
				918		**316**	670	3287	90,0		
					1071	**368**	670	3281	91,1		
V	578					**197**	567	3255	86,0	0,0737	0,78
		643				**220**	567	3267	87,1		
			676			**230**	567	3249	87,5		
				773		**264**	567	3262	88,8		
					903	**309**	567	3268	90,0		
Z	511					**175**	500	3271	86,2	0,0830	0,98
		568				**194**	500	3262	87,3		
			597			**204**	500	3263	87,7		
				683		**234**	500	3272	89,0		

Note: other windings are available on request

Motor type RP280KS **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP280KS6
Field power	W	3100
Inertia	kgm^2	5,05
Max mechanical speed	rpm	2600
Weight IC06	kg	1665
Weight IC17-IC37	kg	1600
Weight IC86W	kg	1955
DE bearing	roller	NU2220-C3
NDE bearing	ball	6318-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	112M4A	--	132S2A
Power	kW	4	--	5,5
Current	A	8,6	--	10,5
Poles	n°.	4	--	2
Dissipated losses	kW	--	--	40
Water flow rate	m^3/h	--	--	12,6
Pressure drop	Pa	--	--	26500
Water flanges	DIN2566	--	--	DN50
Air flow rate	m^3/s	--	1,5	--
Static pressure	Pa	--	1600	--

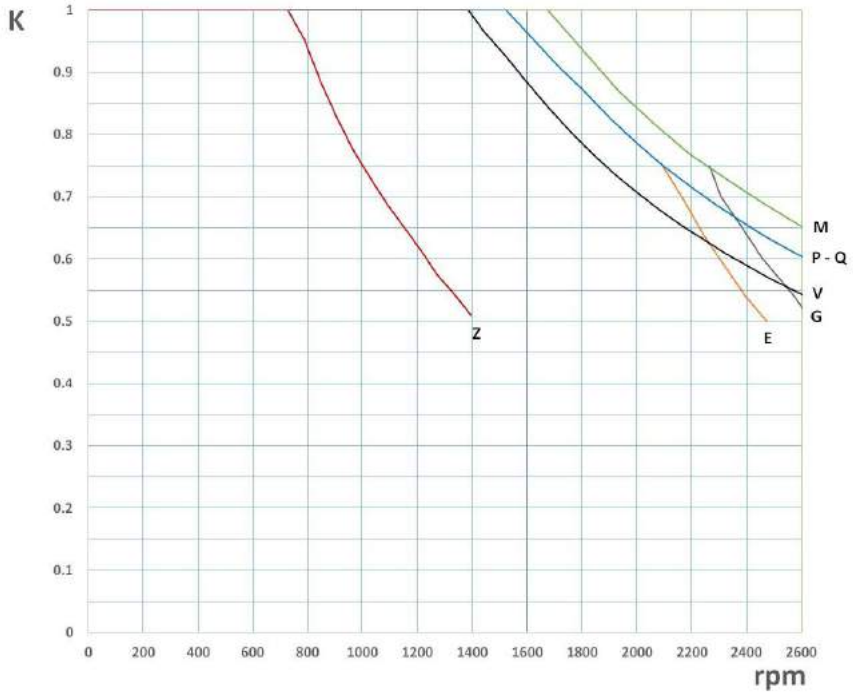
Motor type RP280KM **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
E	1173					**456**	1235	3713	91,7	0,0168	0,18
		1297				**504**	1235	3711	92,3		
			1359			**528**	1235	3710	92,5		
				1546		**600**	1235	3706	93,1		
G	982					**376**	1031	3657	90,6	0,0238	0,27
		1088				**416**	1031	3651	91,2		
			1140			**437**	1031	3661	91,5		
				1298		**497**	1031	3657	92,2		
					1509	**578**	1031	3658	93,0		
M	836					**321**	886	3667	89,8	0,0326	0,37
		926				**355**	886	3661	90,5		
			971			**373**	886	3669	90,8		
				1107		**426**	886	3675	91,8		
					1288	**495**	886	3670	92,7		
P	719					**275**	772	3653	88,4	0,0440	0,47
		798				**306**	772	3662	89,3		
			837			**321**	772	3663	89,6		
				956		**367**	772	3666	90,6		
					1114	**427**	772	3661	91,7		
Q	610					**235**	670	3679	86,8	0,0598	0,65
		679				**261**	670	3671	87,7		
			679			**261**	670	3671	87,8		
				815		**314**	670	3679	89,5		
					952	**367**	670	3682	90,6		
V	512					**196**	567	3656	85,2	0,0791	0,87
		570				**218**	567	3652	86,4		
			599			**229**	567	3651	86,9		
				686		**263**	567	3661	88,2		
					802	**307**	567	3656	89,6		
Z	452					**173**	500	3655	85,4	0,0889	1,11
		504				**193**	500	3657	86,6		
			529			**203**	500	3665	87,1		
				606		**232**	500	3656	88,4		

Note: other windings are available on request

Motor type RP280KM IC06-17-37-86W

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP280KM6
Field power	W	3500
Inertia	kgm^2	5,45
Max mechanical speed	rpm	2600
Weight IC06	kg	1785
Weight IC17-IC37	kg	1720
Weight IC86W	kg	2075
DE bearing	roller	NU2220-C3
NDE bearing	ball	6318-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	112M4A	--	132S2A
Power	kW	4	--	5,5
Current	A	8,6	--	10,5
Poles	n°.	4	--	2
Dissipated losses	kW	--	--	40
Water flow rate	m^3/h	--	--	12,6
Pressure drop	Pa	--	--	26500
Water flanges	DIN2566	--	--	DN50
Air flow rate	m^3/s	--	1,5	--
Static pressure	Pa	--	1600	--

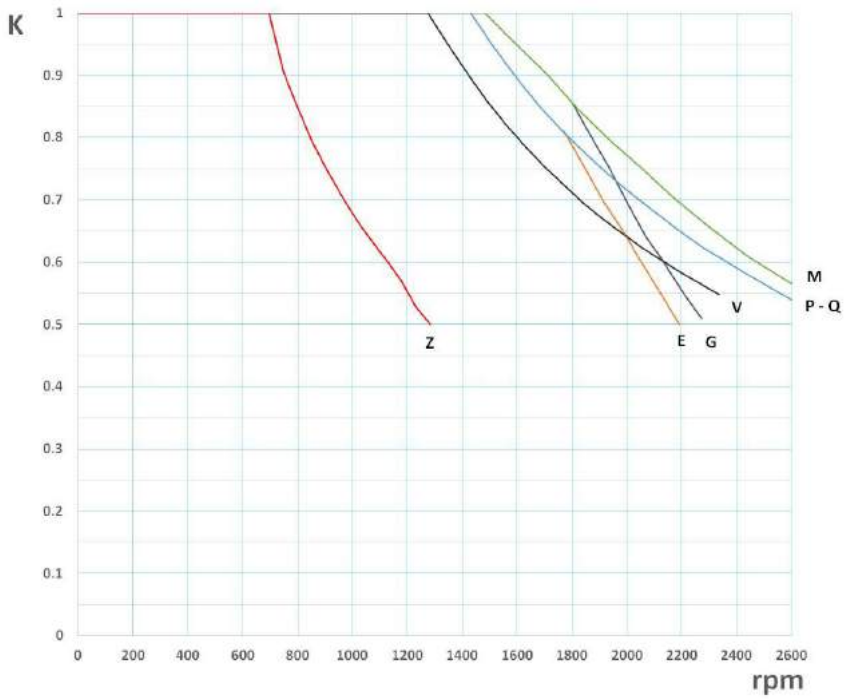
Motor type RP280KL **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
E	1038					**454**	1235	4177	91,4	0,0181	0,21
		1148				**503**	1235	4184	92,0		
			1204			**527**	1235	4180	92,3		
				1370		**599**	1235	4176	92,9		
G	869					**375**	1031	4121	90,2	0,0257	0,29
		962				**415**	1031	4120	90,9		
			1009			**435**	1031	4117	91,2		
				1149		**496**	1031	4123	92,0		
					1336	**577**	1031	4125	92,8		
M	738					**319**	886	4128	89,2	0,0352	0,40
		818				**354**	886	4133	90,0		
			859			**371**	886	4125	90,4		
				979		**424**	886	4136	91,4		
					1140	**494**	886	4138	92,4		
P	634					**274**	772	4127	87,7	0,0476	0,52
		704				**304**	772	4124	88,7		
			739			**319**	772	4122	89,1		
				845		**365**	772	4125	90,2		
					985	**426**	772	4130	91,3		
Q	538					**233**	670	4136	86,1	0,0646	0,73
		598				**260**	670	4152	87,2		
			629			**273**	670	4145	87,6		
				720		**313**	670	4152	88,9		
					841	**365**	670	4145	90,2		
V	450					**194**	567	4117	84,4	0,0855	0,96
		502				**216**	567	4109	85,7		
			528			**227**	567	4106	86,2		
				605		**261**	567	4120	87,6		
					708	**306**	567	4128	89,0		
Z	398					**172**	500	4127	84,6	0,0958	1,25
		444				**192**	500	4130	85,8		
			466			**201**	500	4119	86,3		
				535		**231**	500	4123	87,8		

Note: other windings are available on request

Motor type RP280KL **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP280KL6
Field power	W	3700
Inertia	kgm^2	5,9
Max mechanical speed	rpm	2600
Weight IC06	kg	1925
Weight IC17-IC37	kg	1860
Weight IC86W	kg	2215
DE bearing	roller	NU2220-C3
NDE bearing	ball	6318-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	112M4A	--	132S2A
Power	kW	4	--	5,5
Current	A	8,6	--	10,5
Poles	n°.	4	--	2
Dissipated losses	kW	--	--	40
Water flow rate	m^3/h	--	--	12,6
Pressure drop	Pa	--	--	26500
Water flanges	DIN2566	--	--	DN50
Air flow rate	m^3/s	--	1,5	--
Static pressure	Pa	--	1600	--

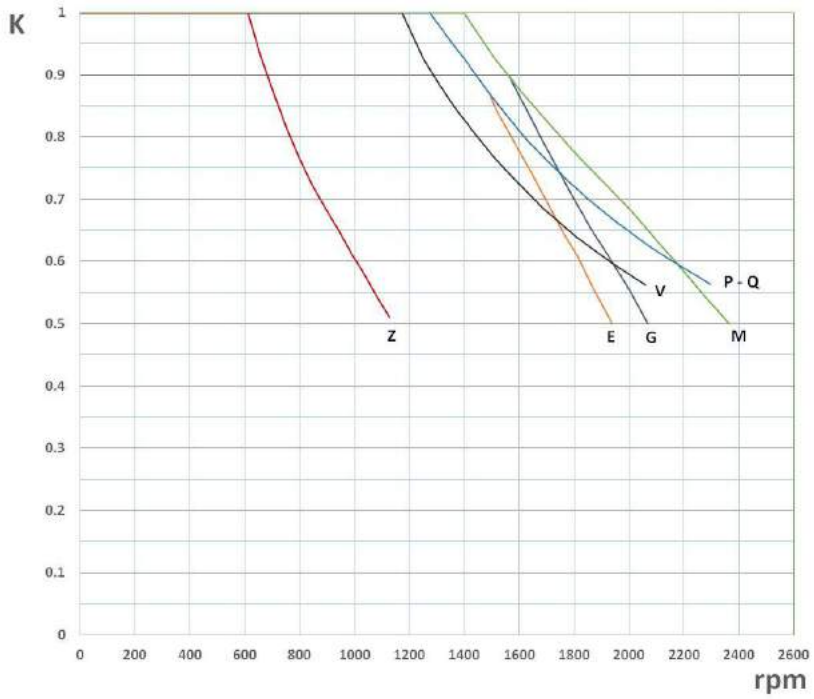
Motor type RP280KP **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]
E	916					**453**	1235	4723	91,0	0,0197	0,23
		1014				**501**	1235	4718	91,7		
			1063			**526**	1235	4726	92,0		
				1211		**598**	1235	4716	92,6		
G	766					**373**	1031	4650	89,7	0,0279	0,32
		849				**413**	1031	4646	90,5		
			891			**434**	1031	4652	90,8		
				1015		**495**	1031	4657	91,7		
					1181	**576**	1031	4658	92,6		
M	650					**317**	886	4657	88,6	0,0382	0,44
		721				**352**	886	4662	89,5		
			757			**369**	886	4655	89,9		
				864		**422**	886	4664	90,9		
					1007	**492**	886	4666	92,0		
P	557					**272**	772	4664	87,0	0,0516	0,57
		620				**302**	772	4652	88,0		
			651			**317**	772	4650	88,5		
				744		**363**	772	4659	89,6		
					869	**424**	772	4660	90,8		
Q	472					**231**	670	4674	85,2	0,0700	0,80
		526				**258**	670	4684	86,3		
			553			**271**	670	4680	86,8		
				634		**310**	670	4670	88,2		
					741	**363**	670	4678	89,6		
V	395					**192**	567	4642	83,4	0,0927	1,05
		441				**214**	567	4634	84,7		
			463			**225**	567	4641	85,3		
				532		**259**	567	4649	86,8		
					624	**304**	567	4653	88,4		
Z	349					**170**	500	4652	83,6	0,1037	1,38
		390				**190**	500	4653	84,9		
			410			**200**	500	4659	85,5		
				470		**229**	500	4653	87,0		

Note: other windings are available on request

Motor type RP280KP **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP280KP6
Field power	W	4000
Inertia	kgm^2	6,4
Max mechanical speed	rpm	2400
Weight IC06	kg	2075
Weight IC17-IC37	kg	2010
Weight IC86W	kg	2365
DE bearing	roller	NU2220-C3
NDE bearing	ball	6318-C3

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	112M4A	--	132S2A
Power	kW	4	--	5,5
Current	A	8,6	--	10,5
Poles	n°.	4	--	2
Dissipated losses	kW	--	--	40
Water flow rate	m^3/h	--	--	12,6
Pressure drop	Pa	--	--	26500
Water flanges	DIN2566	--	--	DN50
Air flow rate	m^3/s	--	1,5	--
Static pressure	Pa	--	1600	--

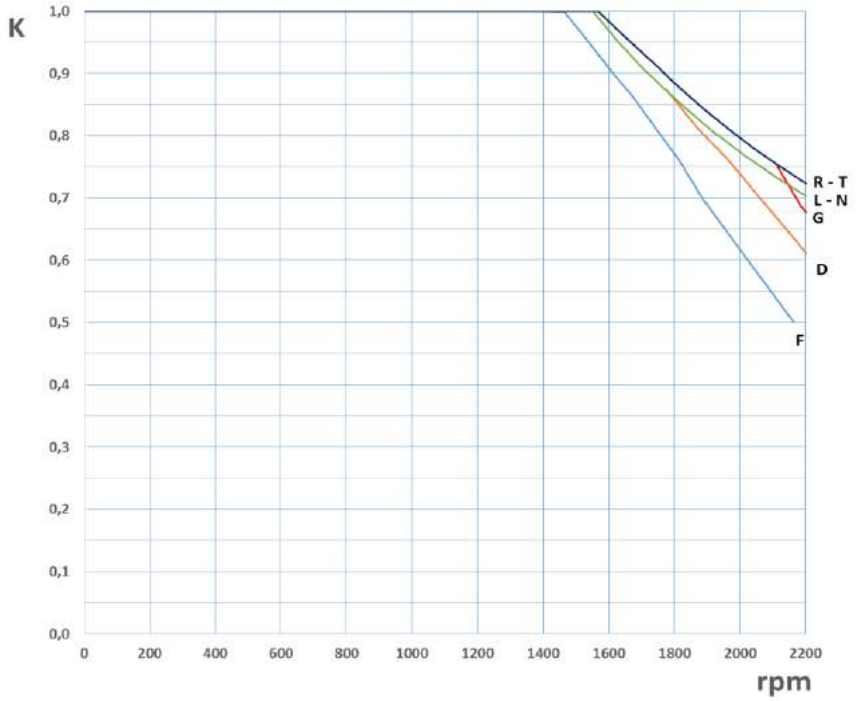
Motor type RP315KS **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm	Select.
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]	Code
D	1205					**551**	1479	4367	92,6	0,0118	0,16	8
		1332				**608**	1479	4359	93,1			
			1396			**637**	1479	4358	93,2			
				1586		**723**	1479	4353	93,7			
F	1059					**504**	1360	4545	92,1	0,0147	0,20	6
		1172				**557**	1360	4539	92,6			
			1228			**583**	1360	4534	92,8			
				1396		**663**	1360	4536	93,3			
G	952					**460**	1250	4614	91,5	0,0180	0,25	6
		1053				**509**	1250	4616	92,1			
			1104			**533**	1250	4611	92,3			
				1256		**606**	1250	4608	92,9			
					1459	**704**	1250	4608	93,5			
L	788					**379**	1040	4593	90,5	0,0255	0,33	6
		873				**420**	1040	4595	91,2			
			915			**440**	1040	4592	91,4			
				1043		**501**	1040	4587	92,1			
					1212	**582**	1040	4586	92,9			
N	687					**325**	900	4518	89,7	0,0330	0,46	6
		761				**360**	900	4518	90,4			
			799			**378**	900	4518	90,7			
				911		**431**	900	4518	91,5			
					1060	**501**	900	4514	92,3			
R	573					**272**	765	4533	88,1	0,0469	0,59	6
		637				**302**	765	4528	89,0			
			668			**317**	765	4532	89,4			
				763		**362**	765	4531	90,3			
					890	**421**	765	4517	91,3			
T	503					**236**	670	4481	87,2	0,0586	0,80	6
		559				**262**	670	4476	88,1			
			587			**275**	670	4474	88,6			
				672		**315**	670	4477	89,6			
					784	**367**	670	4470	90,7			

Note: other windings are available on request

Motor type RP315KS **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP315KS6	RP315KS8
Field power	W	3200	
Inertia	kgm^2	10	10,4
Max mechanical speed	rpm	2400	2200
Weight IC06	kg	2155	2210
Weight IC17-IC37	kg	2045	2100
Weight IC86W	kg	2425	2480
DE bearing	roller	NU321-C3	
NDE bearing	ball	6321-C3	

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	132S4A/132S2B	--	132S2B
Power	kW	5,5/7,5	--	7,5
Current	A	11,1/14,8	--	13,9
Poles	n°.	4	--	2
Dissipated losses	kW	--	--	45
Water flow rate	m^3/h	--	--	12
Pressure drop	Pa	--	--	18000
Water flanges	DIN2566	--	--	DN50
Air flow rate	m^3/s	--	1,75	--
Static pressure	Pa	--	1400	--

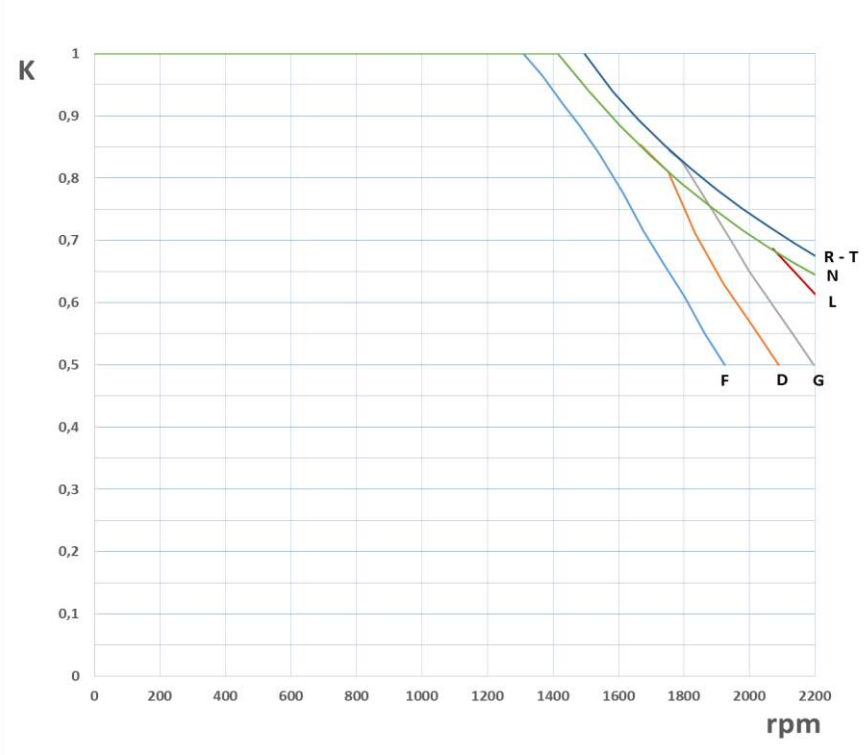
Motor type RP315KM **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm	Select.
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]	Code
D	1073					**549**	1479	4886	92,4	0,0127	0,18	8
		1186				**607**	1479	4888	92,8			
			1242			**636**	1479	4890	93,0			
				1412		**722**	1479	4883	93,5			
F	942					**502**	1360	5089	91,8	0,0157	0,22	6
		1042				**555**	1360	5087	92,3			
			1092			**582**	1360	5090	92,5			
				1242		**661**	1360	5083	93,1			
G	846					**459**	1250	5181	91,1	0,0193	0,27	6
		936				**507**	1250	5173	91,7			
			982			**532**	1250	5174	92,0			
				1117		**605**	1250	5173	92,6			
					1299	**702**	1250	5161	93,3			
L	700					**377**	1040	5143	90,0	0,0274	0,37	6
		776				**418**	1040	5144	90,7			
			813			**438**	1040	5145	91,0			
				927		**499**	1040	5141	91,8			
					1079	**580**	1040	5133	92,6			
N	609					**324**	900	5081	89,1	0,0354	0,50	6
		676				**359**	900	5072	89,9			
			709			**376**	900	5065	90,2			
				809		**429**	900	5064	91,1			
					943	**500**	900	5064	92,0			
R	508					**270**	765	5076	87,4	0,0503	0,65	6
		565				**300**	765	5071	88,3			
			593			**315**	765	5073	88,7			
				678		**360**	765	5071	89,8			
					791	**420**	765	5071	90,9			
T	446					**234**	670	5011	86,4	0,0630	0,89	6
		496				**260**	670	5006	87,4			
			521			**274**	670	5022	87,9			
				596		**313**	670	5015	89,0			
					696	**365**	670	5008	90,2			

Note: other windings are available on request

Motor type RP315KM **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP315KM6	RP315KM8
Field power	W	3700	
Inertia	kgm^2	10,8	11,2
Max mechanical speed	rpm	2400	2200
Weight IC06	kg	2305	2360
Weight IC17-IC37	kg	2195	2250
Weight IC86W	kg	2575	2630
DE bearing	roller	NU321-C3	
NDE bearing	ball	6321-C3	

Blowers data (3x400 V – 50 Hz)

		IC06 (6/8)	IC17-37	IC86W
Blower ac motor	type	132S4A/132S2B	--	132S2B
Power	kW	5,5/7,5	--	7,5
Current	A	11,1/14,8	--	13,9
Poles	n°.	4	--	2
Dissipated losses	kW	--	--	45
Water flow rate	m^3/h	--	--	12
Pressure drop	Pa	--	--	18000
Water flanges	DIN2566	--	--	DN50
Air flow rate	m^3/s	--	1,75	--
Static pressure	Pa	--	1400	--

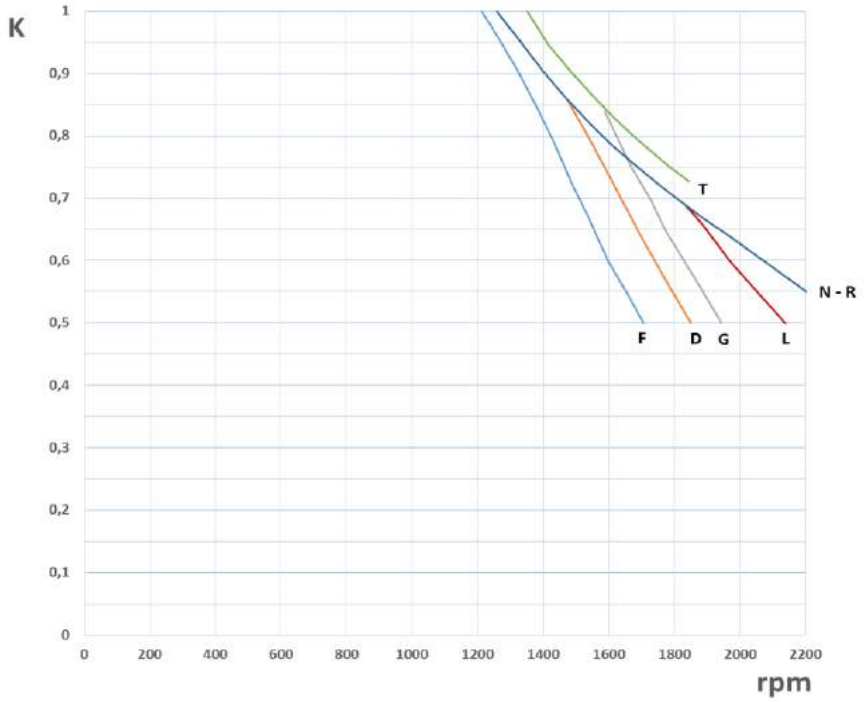
Motor type RP315KL **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm	Select.
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]	Code
D	950					**548**	1479	5509	92,0	0,0137	0,20	8
		1050				**605**	1479	5503	92,5			
			1101			**634**	1479	5499	92,7			
				1251		**721**	1479	5504	93,3			
F	834					**500**	1360	5725	91,4	0,0170	0,25	6
		923				**553**	1360	5722	91,9			
			967			**580**	1360	5728	92,2			
				1101		**660**	1360	5725	92,8			
G	748					**457**	1250	5835	90,6	0,0208	0,30	6
		828				**505**	1250	5825	91,3			
			869			**530**	1250	5825	91,6			
				989		**603**	1250	5823	92,3			
					1150	**701**	1250	5821	93,0			
L	618					**375**	1040	5795	89,4	0,0296	0,40	6
		685				**416**	1040	5800	90,2			
			719			**436**	1040	5791	90,5			
				820		**497**	1040	5788	91,4			
					955	**579**	1040	5790	92,2			
N	538					**322**	900	5716	88,4	0,0382	0,55	6
		597				**357**	900	5711	89,3			
			627			**374**	900	5696	89,7			
				716		**427**	900	5695	90,6			
					834	**498**	900	5703	91,6			
R	448					**268**	765	5713	86,5	0,0544	0,74	6
		498				**298**	765	5715	87,6			
			523			**313**	765	5715	88,0			
				599		**358**	765	5708	89,2			
					699	**418**	765	5711	90,3			
T	392					**232**	670	5652	85,4	0,0680	0,98	6
		437				**258**	670	5638	86,6			
			459			**272**	670	5659	87,1			
				526		**311**	670	5646	88,3			
					615	**363**	670	5637	89,6			

Note: other windings are available on request

Motor type RP315KL **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP315KL6	RP315KL8
Field power	W	4200	
Inertia	kgm^2	11,7	12,1
Max mechanical speed	rpm	2400	2200
Weight IC06	kg	2480	2535
Weight IC17-IC37	kg	2370	2425
Weight IC86W	kg	2750	2805
DE bearing	roller	NU321-C3	
NDE bearing	ball	6321-C3	

Blowers data (3x400 V – 50 Hz)

		IC06 (6/8)	IC17-37	IC86W
Blower ac motor	type	132S4A/132S2B	--	132S2B
Power	kW	5,5/7,5	--	7,5
Current	A	11,1/14,8	--	13,9
Poles	n°.	4	--	2
Dissipated losses	kW	--	--	45
Water flow rate	m^3/h	--	--	12
Pressure drop	Pa	--	--	18000
Water flanges	DIN2566	--	--	DN50
Air flow rate	m^3/s	--	1,75	--
Static pressure	Pa	--	1400	--

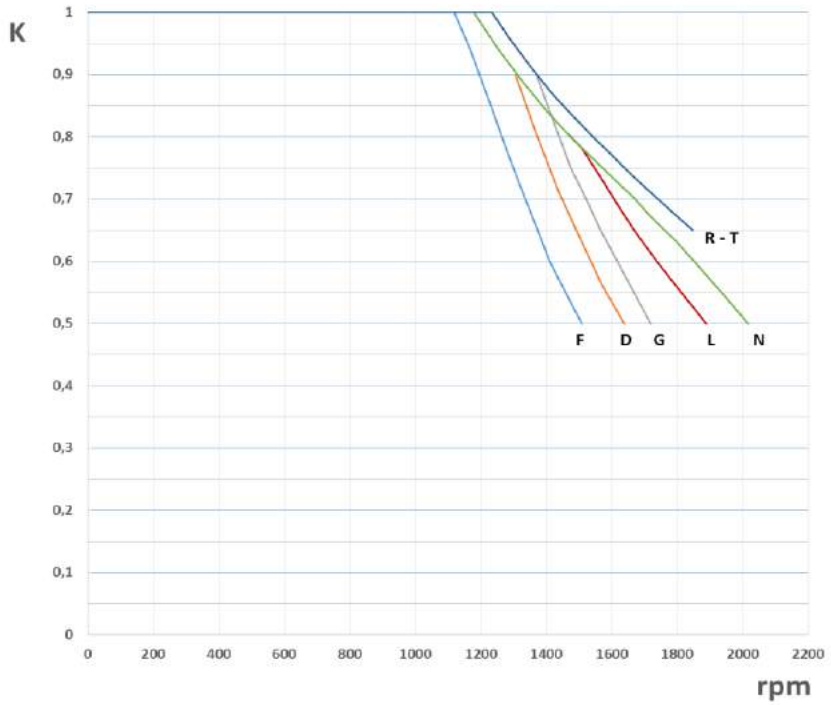
Motor type RP315KP **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm	Select.
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]	Code
D	839					**546**	1479	6215	91,6	0,0148	0,20	8
		928				**604**	1479	6216	92,2			
			973			**632**	1479	6203	92,4			
				1107		**719**	1479	6203	93,0			
F	736					**498**	1360	6462	90,9	0,0185	0,28	6
		815				**551**	1360	6457	91,5			
			854			**578**	1360	6464	91,8			
				973		**658**	1360	6458	92,5			
G	660					**454**	1250	6569	90,1	0,0226	0,33	6
		731				**503**	1250	6571	90,8			
			767			**528**	1250	6574	91,1			
				874		**601**	1250	6567	91,9			
					1017	**699**	1250	6564	92,7			
L	545					**373**	1040	6536	88,8	0,0321	0,44	6
		604				**414**	1040	6546	89,6			
			634			**434**	1040	6537	90,0			
				724		**495**	1040	6529	90,9			
					843	**577**	1040	6537	91,8			
N	473					**319**	900	6441	87,7	0,0414	0,61	6
		526				**355**	900	6445	88,6			
			552			**372**	900	6436	89,0			
				631		**425**	900	6432	90,1			
					736	**496**	900	6436	91,1			
R	393					**265**	765	6440	85,7	0,0590	0,83	6
		438				**296**	765	6454	86,8			
			460			**311**	765	6457	87,3			
				527		**356**	765	6451	88,5			
					616	**416**	765	6449	89,8			
T	344					**230**	670	6385	84,5	0,0738	1,10	6
		384				**256**	670	6367	85,7			
			403			**269**	670	6375	86,2			
				463		**309**	670	6374	87,6			
					542	**361**	670	6361	89,0			

Note: other windings are available on request

Motor type RP315KP IC06-17-37-86W

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP315KP6	RP315KP8
Field power	W	4500	
Inertia	kgm^2	12,6	13
Max mechanical speed	rpm	2200	2000
Weight IC06	kg	2670	2725
Weight IC17-IC37	kg	2560	2615
Weight IC86W	kg	2940	2995
DE bearing	roller	NU321-C3	
NDE bearing	ball	6321-C3	

Blowers data (3x400 V – 50 Hz)

		IC06 (6/8)	IC17-37	IC86W
Blower ac motor	type	132S4A/132S2B	--	132S2B
Power	kW	5,5/7,5	--	7,5
Current	A	11,1/14,8	--	13,9
Poles	n°.	4	--	2
Dissipated losses	kW	--	--	45
Water flow rate	m^3/h	--	--	12
Pressure drop	Pa	--	--	18000
Water flanges	DIN2566	--	--	DN50
Air flow rate	m^3/s	--	1,75	--
Static pressure	Pa	--	1400	--

Motor type RP355KR **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm	Select.
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]	Code
B	1261					**640**	1720	4847	92,7	0,0096	0,12	7
		1393				**707**	1720	4847	93,1			
			1459			**741**	1720	4850	93,2			
C	1170					**609**	1640	4971	92,4	0,0109	0,14	6
		1293				**673**	1640	4971	92,8			
			1355			**705**	1640	4969	93,0			
				1539		**800**	1640	4964	93,5			
D	1094					**572**	1540	4993	92,4	0,0117	0,16	6
		1209				**632**	1540	4992	92,8			
			1267			**662**	1540	4990	93,0			
				1440		**751**	1540	4981	93,5			
E	1025					**533**	1440	4966	92,1	0,0133	0,18	6
		1133				**589**	1440	4965	92,5			
			1187			**617**	1440	4964	92,7			
				1349		**701**	1440	4963	93,3			
F	893					**479**	1305	5123	91,2	0,0174	0,26	6
		988				**530**	1305	5123	91,8			
			1036			**556**	1305	5125	92,0			
				1179		**632**	1305	5119	92,7			
					1369	**733**	1305	5113	93,3			
H	764					**408**	1120	5100	90,5	0,0229	0,34	6
		846				**452**	1120	5102	91,1			
			887			**474**	1120	5103	91,4			
				1010		**539**	1120	5096	92,1			
					1174	**627**	1120	5100	92,8			
N	660					**348**	970	5035	88,9	0,0329	0,44	6
		732				**386**	970	5036	89,7			
			768			**404**	970	5024	90,0			
				876		**461**	970	5026	90,9			
					1021	**537**	970	5023	91,7			

Note: other windings are available on request

Motor type RP355KR IC06-17-37-86W

De-rating coefficient for speed variation at constant power by field weakening

Main features

		RP355KR6	RP355KR7
Field power	W	3800	
Inertia	kgm^2	14,5	14,7
Max mechanical speed	rpm	2200	2000
Weight IC06	kg	2615	2650
Weight IC17-IC37	kg	2475	2510
Weight IC86W	kg	2885	2920
DE bearing	roller	NU324-C3	
NDE bearing	ball	6324-C3	

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	132M4A	--	132M2B
Power	kW	7,5	--	9
Current	A	14,8	--	18
Poles	n°.	4	--	2
Dissipated losses	kW	--	--	56
Water flow rate	m^3/h	--	--	12
Pressure drop	Pa	--	--	22000
Water flanges	DIN2566	--	--	DN50
Air flow rate	m^3/s	--	2,1	--
Static pressure	Pa	--	1300	--

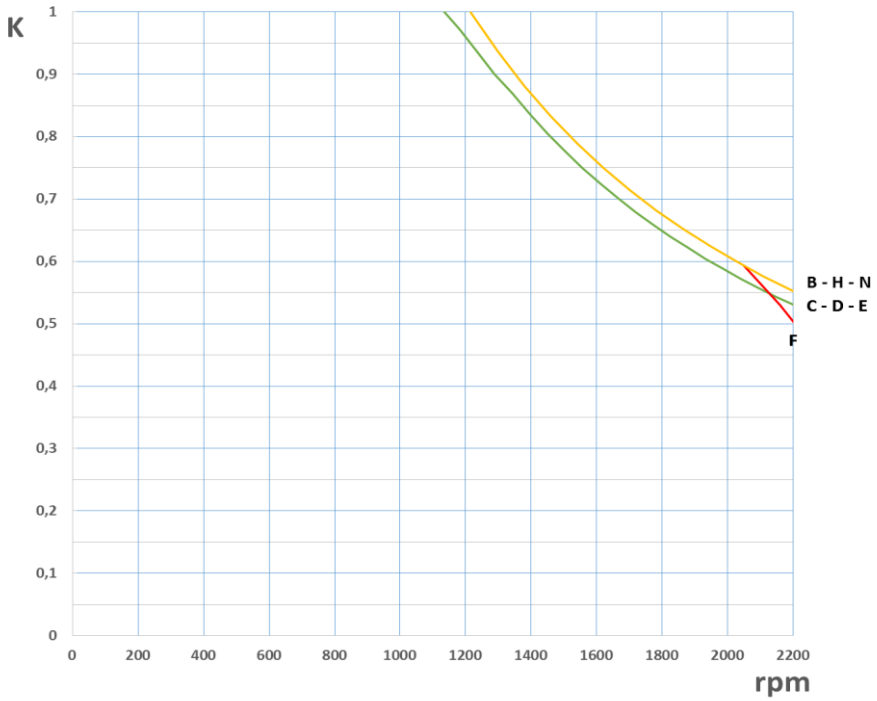
Motor type RP355KS **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm	Select.
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]	Code
B	1003					**639**	1720	6084	92,3	0,0108	0,15	7
		1109				**706**	1720	6080	92,8			
			1162			**739**	1720	6074	93,0			
C	930					**607**	1640	6233	92,0	0,0123	0,16	6
		1029				**671**	1640	6227	92,5			
			1078			**703**	1640	6228	92,7			
				1226		**799**	1640	6224	93,3			
D	870					**570**	1540	6257	92,0	0,0132	0,19	6
		962				**630**	1540	6254	92,5			
			1008			**660**	1540	6253	92,7			
				1146		**750**	1540	6250	93,2			
E	814					**531**	1440	6230	91,6	0,0150	0,22	6
		901				**587**	1440	6222	92,2			
			944			**615**	1440	6222	92,4			
				1074		**700**	1440	6224	93,0			
F	709					**477**	1305	6425	90,7	0,0196	0,30	6
		785				**528**	1305	6423	91,3			
			823			**553**	1305	6417	91,6			
				937		**630**	1305	6421	92,3			
					1090	**731**	1305	6405	93,0			
H	606					**405**	1120	6382	89,8	0,0258	0,40	6
		671				**449**	1120	6390	90,5			
			704			**471**	1120	6389	90,8			
				803		**537**	1120	6386	91,6			
					934	**624**	1120	6380	92,4			
N	522					**345**	970	6312	88,0	0,0370	0,52	6
		580				**383**	970	6306	88,9			
			609			**402**	970	6304	89,3			
				695		**458**	970	6293	90,3			
					811	**534**	970	6288	91,2			

Note: other windings are available on request

Motor type RP355KS **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP355KS6	RP355KS7
Field power	W	4100	
Inertia	kgm^2	15,6	15,8
Max mechanical speed	rpm	2200	2000
Weight IC06	kg	2930	2965
Weight IC17-IC37	kg	2760	2825
Weight IC86W	kg	3200	3235
DE bearing	roller	NU324-C3	
NDE bearing	ball	6324-C3	

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	Type	132M4A	--	132M2B
Power	kW	7,5	--	9
Current	A	14,8	--	18
Poles	n°.	4	--	2
Dissipated losses	KW	--	--	56
Water flow rate	M^3/h	--	--	12
Pressure drop	Pa	--	--	22000
Water flanges	DIN2566	--	--	DN50
Air flow rate	m^3/s	--	2,1	--
Static pressure	Pa	--	1300	--

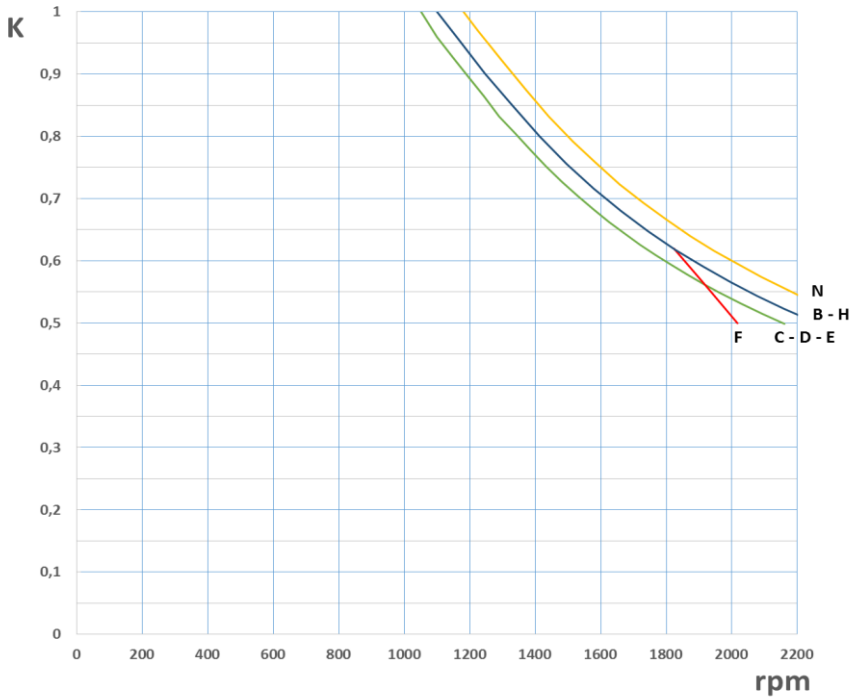
Motor type RP355KM **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm	Select.
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]	Code
B	893					**637**	1720	6812	92,1	0,0115	0,16	7
		987				**704**	1720	6812	92,6			
			1035			**738**	1720	6810	92,8			
C	828					**605**	1640	6978	91,8	0,0131	0,18	6
		916				**669**	1640	6975	92,3			
			960			**701**	1640	6973	92,5			
				1092		**797**	1640	6970	93,1			
D	774					**568**	1540	7008	91,7	0,0141	0,21	6
		856				**628**	1540	7006	92,2			
			897			**659**	1540	7016	92,5			
				1021		**749**	1540	7006	93,1			
E	724					**530**	1440	6991	91,3	0,0160	0,24	6
		801				**586**	1440	6987	91,9			
			840			**614**	1440	6981	92,2			
				956		**698**	1440	6973	92,8			
F	630					**475**	1305	7200	90,3	0,0209	0,34	6
		698				**526**	1305	7197	91,0			
			732			**551**	1305	7189	91,3			
				834		**628**	1305	7191	92,0			
					970	**730**	1305	7187	92,8			
H	538					**404**	1120	7171	89,4	0,0276	0,46	6
		596				**448**	1120	7179	90,1			
			626			**470**	1120	7170	90,5			
				714		**535**	1120	7156	91,3			
					831	**623**	1120	7160	92,2			
N	463					**343**	970	7075	87,4	0,0395	0,58	6
		514				**381**	970	7079	88,4			
			540			**400**	970	7074	88,8			
				617		**457**	970	7074	89,9			
					721	**532**	970	7047	90,9			

Note: other windings are available on request

Motor type RP355KM **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP355KM6	RP355KM7
Field power	W	4300	
Inertia	kgm^2	16,8	17
Max mechanical speed	rpm	2200	2000
Weight IC06	kg	3120	3155
Weight IC17-IC37	kg	2980	3015
Weight IC86W	kg	3390	3425
DE bearing	roller	NU324-C3	
NDE bearing	ball	6324-C3	

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	132M4A	--	132M2B
Power	kW	7,5	--	9
Current	A	14,8	--	18
Poles	n°.	4	--	2
Dissipated losses	kW	--	--	56
Water flow rate	m^3/h	--	--	12
Pressure drop	Pa	--	--	22000
Water flanges	DIN2566	--	--	DN50
Air flow rate	m^3/s	--	2,1	--
Static pressure	Pa	--	1300	--

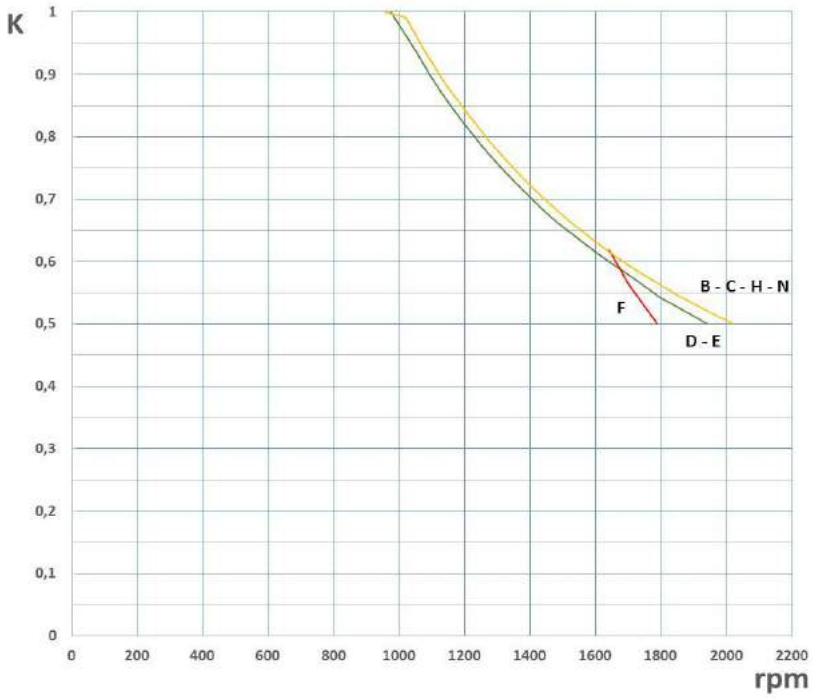
Motor type RP355KL **IC06-17-37-86W**

Winding	Speed [rpm]					P	I	Torque	η	R arm	L arm	Select.
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]	Code
B	790					**636**	1720	7688	91,8	0,0124	0,18	7
		874				**703**	1720	7682	92,4			
			916			**736**	1720	7673	92,6			
C	733					**603**	1640	7856	91,4	0,0140	0,21	6
		811				**668**	1640	7866	92,0			
			850			**700**	1640	7865	92,3			
				967		**796**	1640	7861	92,9			
D	685					**566**	1540	7891	91,4	0,0151	0,23	6
		758				**627**	1540	7900	91,9			
			794			**657**	1540	7902	92,2			
				904		**747**	1540	7891	92,8			
E	641					**528**	1440	7866	91,0	0,0172	0,27	6
		709				**584**	1440	7866	91,6			
			744			**612**	1440	7856	91,9			
				847		**697**	1440	7859	92,5			
F	557					**473**	1305	8110	89,9	0,0225	0,39	6
		617				**524**	1305	8111	90,6			
			647			**549**	1305	8103	90,9			
				738		**626**	1305	8101	91,7			
					859	**728**	1305	8094	92,5			
H	475					**402**	1120	8082	88,8	0,0296	0,51	6
		527				**445**	1120	8064	89,7			
			553			**467**	1120	8065	90,0			
				631		**533**	1120	8067	90,9			
					736	**621**	1120	8058	91,9			
N	408					**340**	970	7958	86,8	0,0424	0,66	6
		454				**378**	970	7951	87,8			
			477			**397**	970	7948	88,3			
				546		**454**	970	7941	89,4			
					637	**530**	970	7946	90,5			

Note: other windings are available on request

Motor type RP355KL IC06-17-37-86W

De-rating coefficient for speed variation at constant power by field weakening



Main features

		RP355KL6	RP355KL7
Field power	W	4500	
Inertia	kgm^2	18,1	18,3
Max mechanical speed	rpm	2200	2000
Weight IC06	kg	3345	3380
Weight IC17-IC37	kg	3205	3240
Weight IC86W	kg	3615	3650
DE bearing	roller	NU324-C3	
NDE bearing	ball	6324-C3	

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	132M4A	--	132M2B
Power	kW	7,5	--	9
Current	A	14,8	--	18
Poles	n°.	4	--	2
Dissipated losses	kW	--	--	56
Water flow rate	m^3/h	--	--	12
Pressure drop	Pa	--	--	22000
Water flanges	DIN2566	--	--	DN50
Air flow rate	m^3/s	--	2,1	--
Static pressure	Pa	--	1300	--

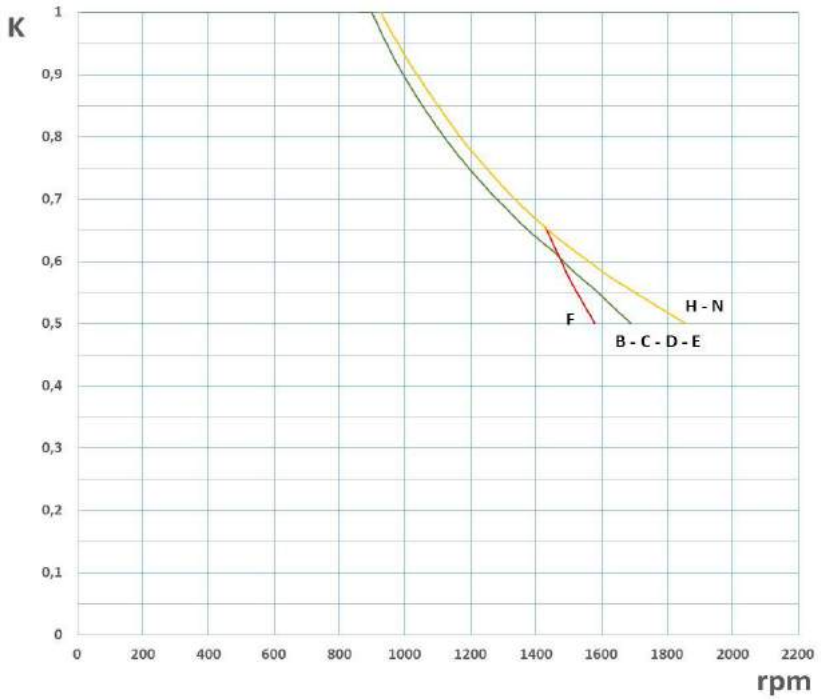
Motor type RP355KX **IC06-17-37-86W**

Winding	Speed (rpm)					P	I	Torque	η	R arm	L arm	Select.
	400 V	440 V	460 V	520 V	600 V	[kW]	[A]	[Nm]	[%]	[Ohm]	[mH]	Code
B	698					**633**	1720	8661	91,46	0,0133	0,21	7
		773				**701**	1720	8660	92,04			
			810			**734**	1720	8654	92,28			
C	647					**601**	1640	8871	91,02	0,0151	0,24	6
		716				**665**	1640	8870	91,64			
			751			**697**	1640	8863	91,91			
				855		**794**	1640	8869	92,59			
D	605					**564**	1540	8903	90,93	0,0163	0,26	6
		669				**624**	1540	8908	91,56			
			702			**655**	1540	8911	91,83			
				799		**745**	1540	8905	92,52			
E	565					**525**	1440	8874	90,51	0,0186	0,31	6
		626				**582**	1440	8879	91,18			
			657			**610**	1440	8867	91,47			
				748		**695**	1440	8873	92,21			
F	491					**470**	1305	9142	89,28	0,0243	0,42	6
		545				**521**	1305	9129	90,08			
			571			**547**	1305	9149	90,42			
				652		**624**	1305	9140	91,29			
					759	**726**	1305	9135	92,17			
H	418					**399**	1120	9116	88,18	0,0320	0,59	6
		465				**443**	1120	9098	89,08			
			488			**465**	1120	9100	89,47			
				557		**531**	1120	9104	90,45			
					650	**619**	1120	9095	91,45			
N	359					**337**	970	8965	85,97	0,0458	0,75	6
		399				**375**	970	8976	87,07			
			420			**395**	970	8982	87,55			
				481		**452**	970	8974	88,76			
					562	**528**	970	8972	89,99			

Note: other windings are available on request

Motor type RP355KX **IC06-17-37-86W**

De-rating coefficient for speed variation at constant power by field weakening



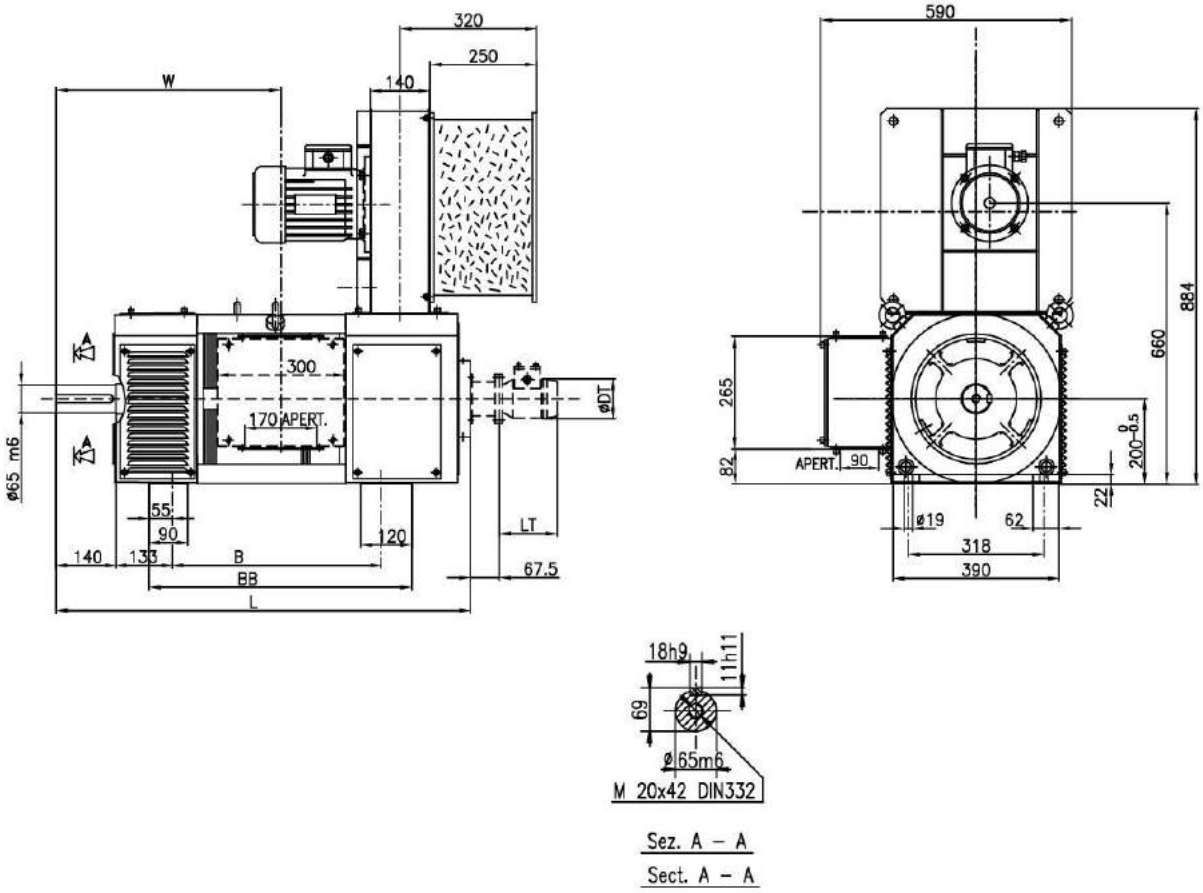
Main features

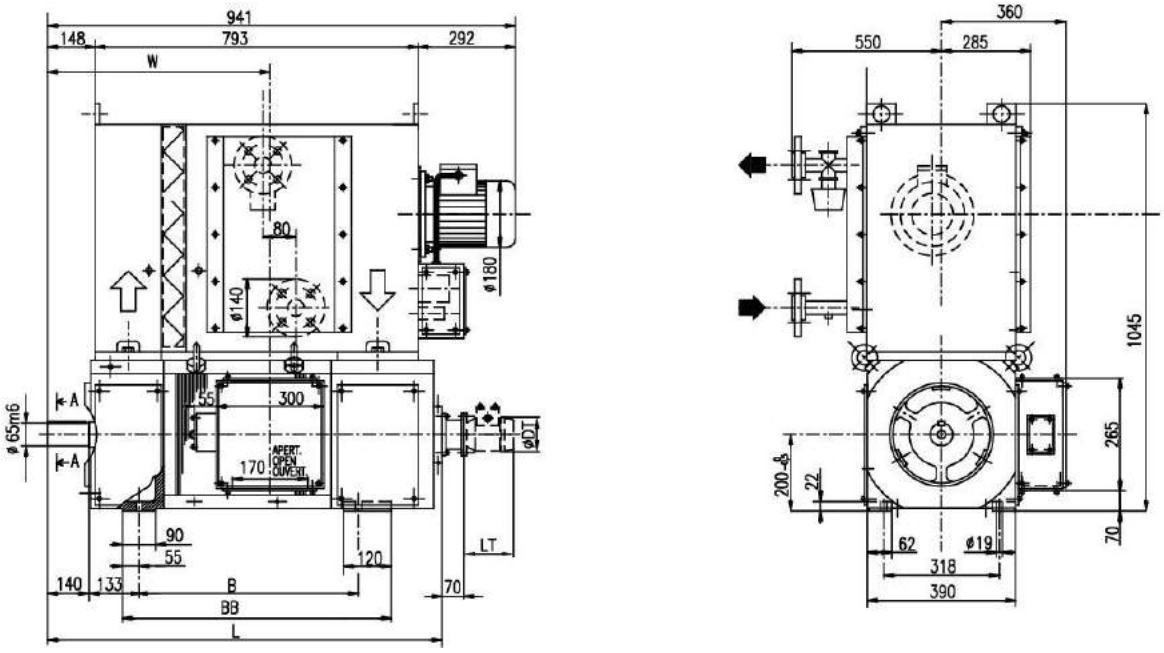
		RP355KX6	RP355KX7
Field power	W	5000	
Inertia	kgm^2	19,6	19,8
Max mechanical speed	rpm	2200	2000
Weight IC06	kg	3590	3625
Weight IC17-IC37	kg	3450	3485
Weight IC86W	kg	3860	3895
DE bearing	roller	NU324-C3	
NDE bearing	ball	6324-C3	

Blowers data (3x400 V – 50 Hz)

		IC06	IC17-37	IC86W
Blower ac motor	type	132M4A	--	132M2B
Power	kW	7,5	--	9
Current	A	14,8	--	18
Poles	n°.	4	--	2
Dissipated losses	kW	--	--	56
Water flow rate	m^3/h	--	--	12
Pressure drop	Pa	--	--	22000
Water flanges	DIN2566	--	--	DN50
Air flow rate	m^3/s	--	2,1	--
Static pressure	Pa	--	1300	--

Drawings RP200 IC06-86W

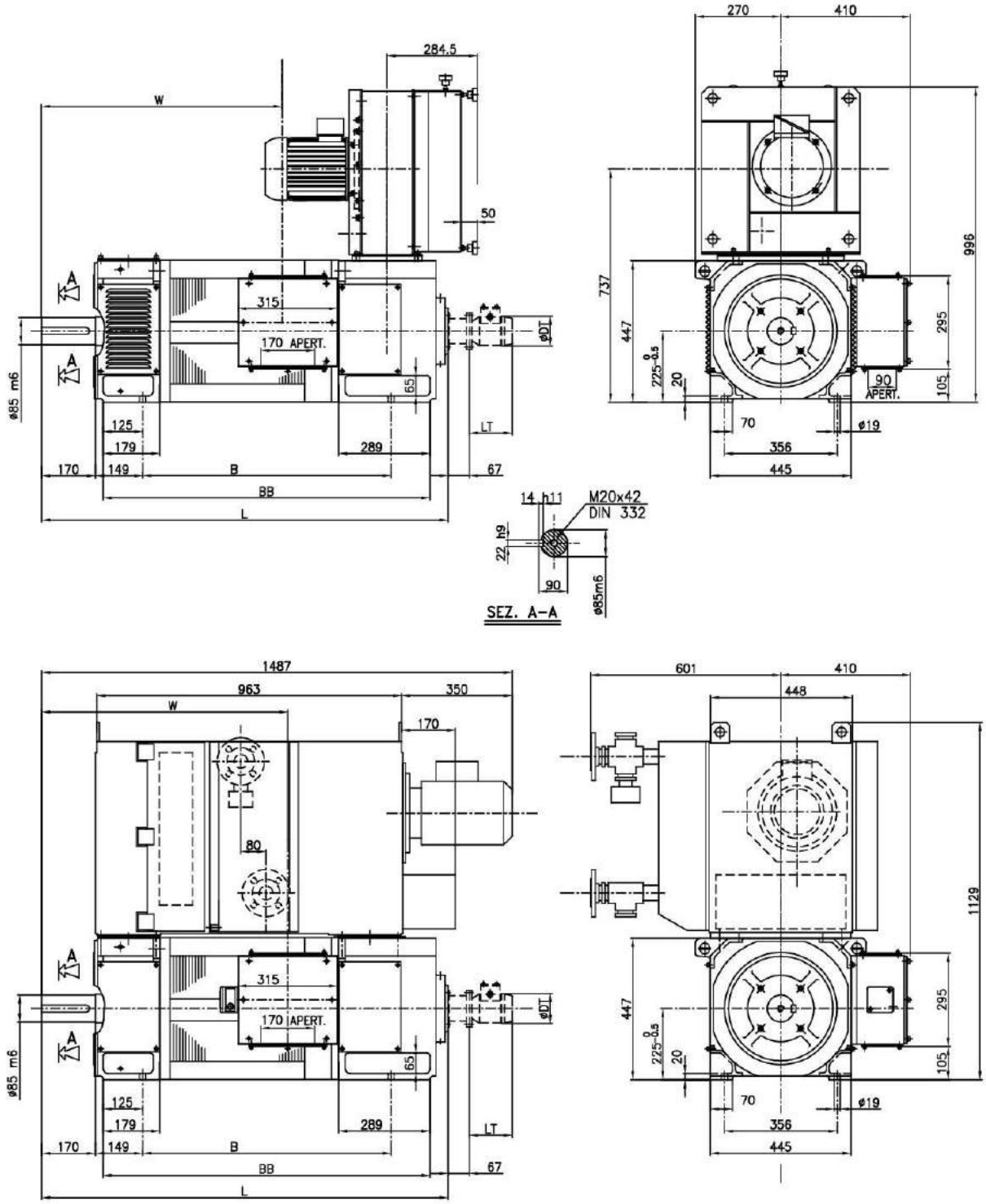




FRAME	B	BB	L	W
RP 200 K(N)S4	480	617	975	527
RP 200 K(N)M4	545	682	1040	592
RP 200 K(N)L4	630	767	1125	677
RP 200 K(N)X4	680	817	1175	727
RP 200 K(N)Y4	730	867	1225	777

Note : detailed drawings are available on SICMEMOTORI website www.sicmemotori.com

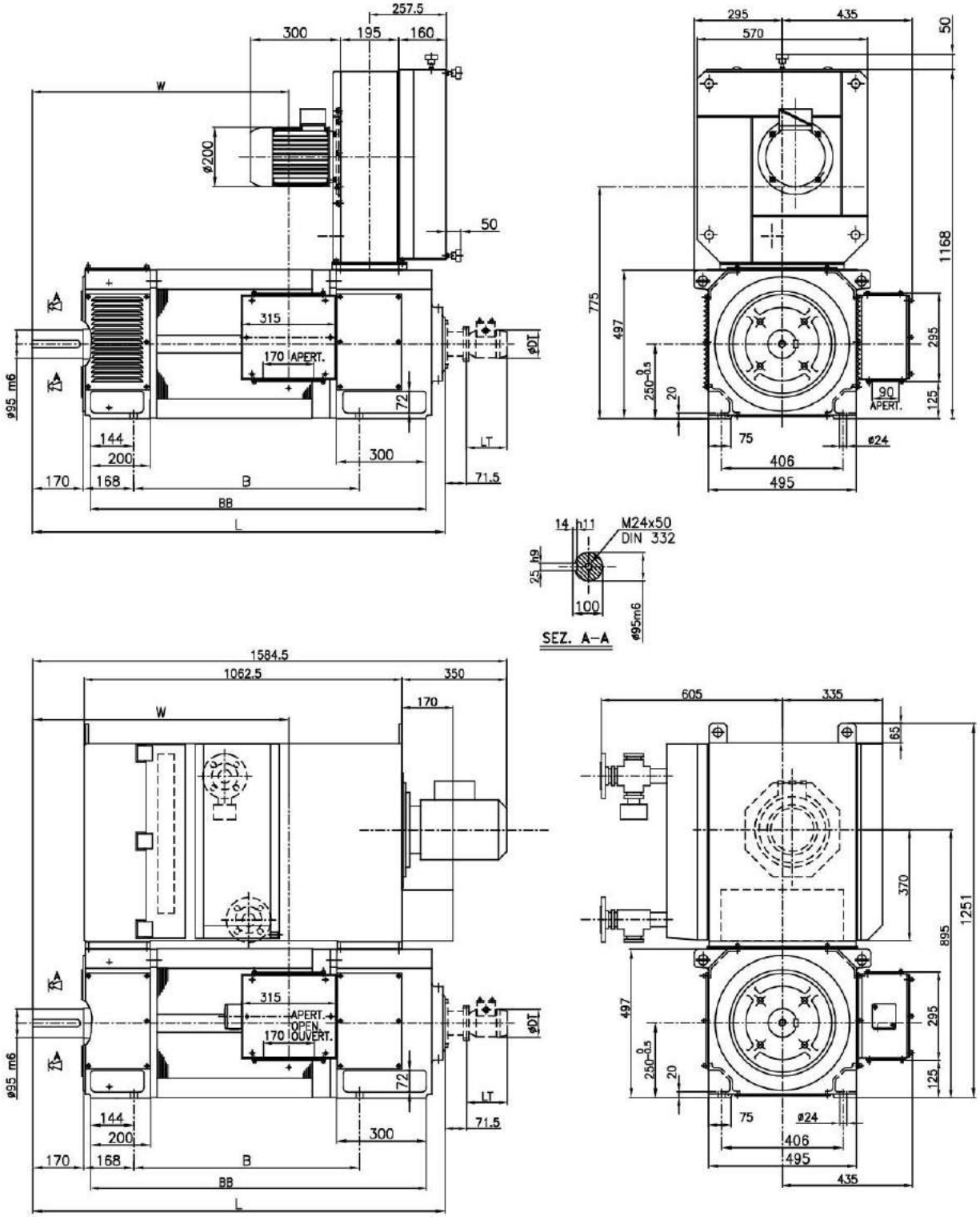
Drawings RP225 IC06-86W



FRAME	B	BB	L	W
RP 225 K(N)S5	785	1033	1284	777
RP 225 K(N)M5	835	1083	1334	827
RP 225 K(N)L5	885	1133	1384	877
RP 225 K(N)P5	945	1193	1444	937
RP 225 K(N)X5	1015	1263	1514	1007

Note : detailed drawings are available on SICMEMOTORI website www.sicmemotori.com

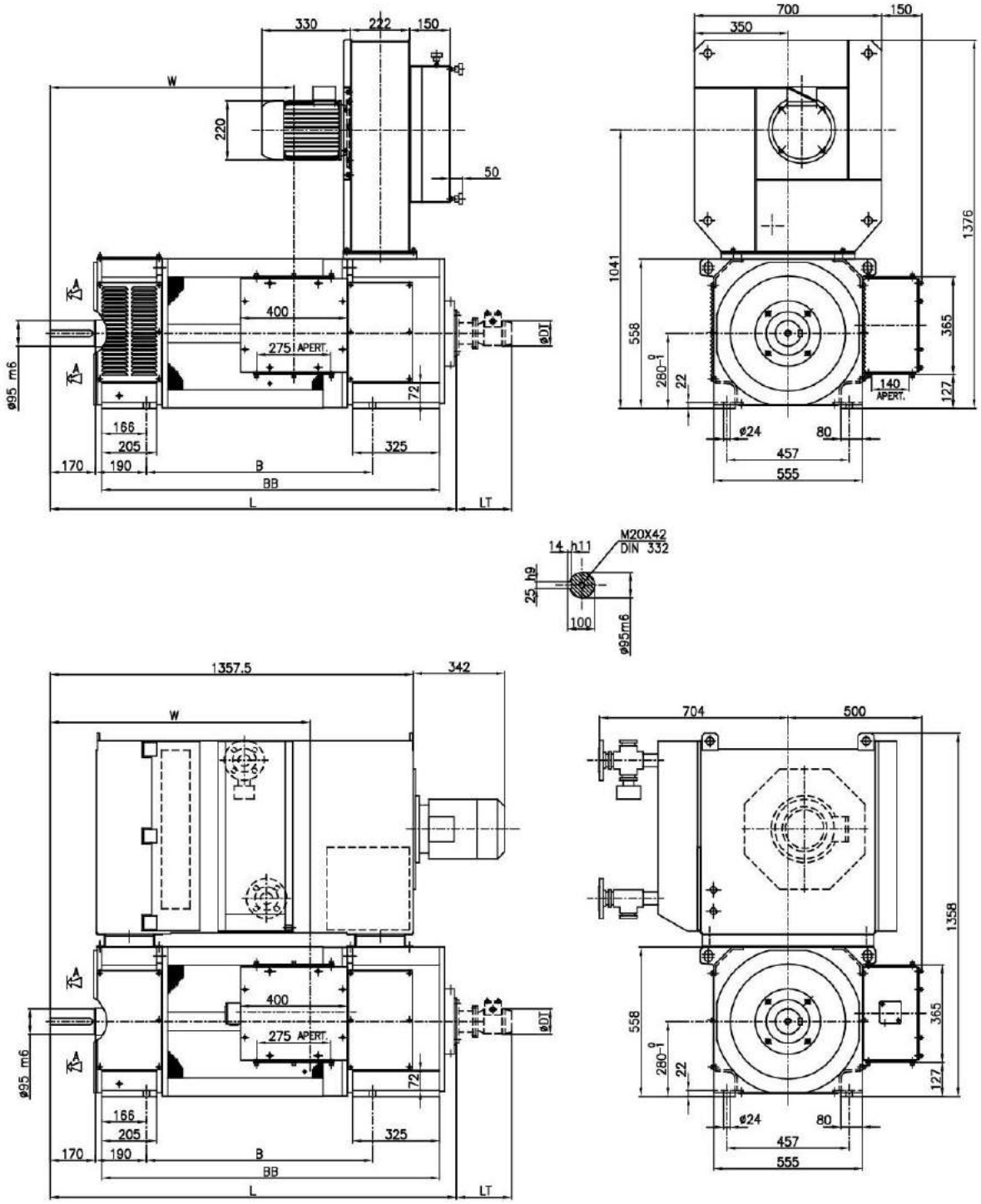
Drawings RP250 IC06-86W



FRAME	B	BB	L	W
RP 250 KS5	755	1122	1379	857
RP 250 KM5	805	1172	1429	907
RP 250 KL5	865	1232	1489	967
RP 250 KP5	935	1302	1559	1037
RP 250 KX5	1015	1382	1639	1117

Note : detailed drawings are available on SICMEMOTORI website www.sicmemotori.com

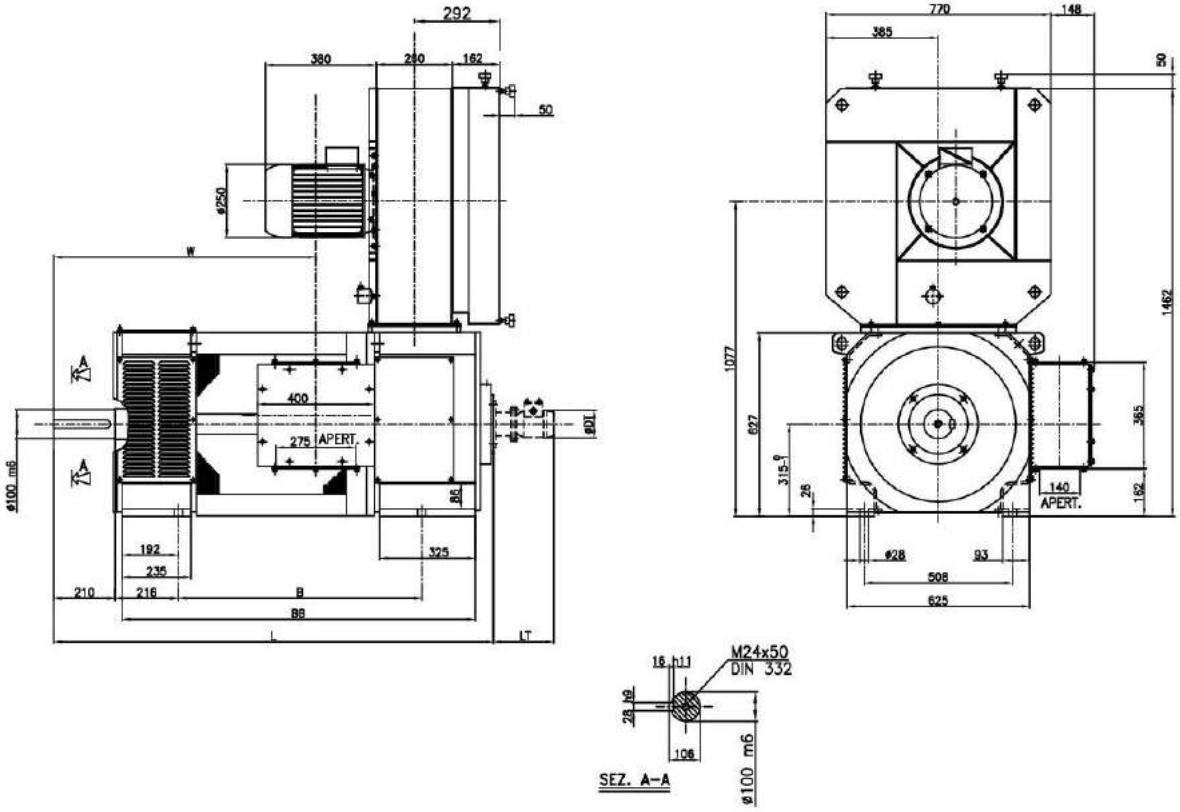
Drawings RP280 IC06-86W

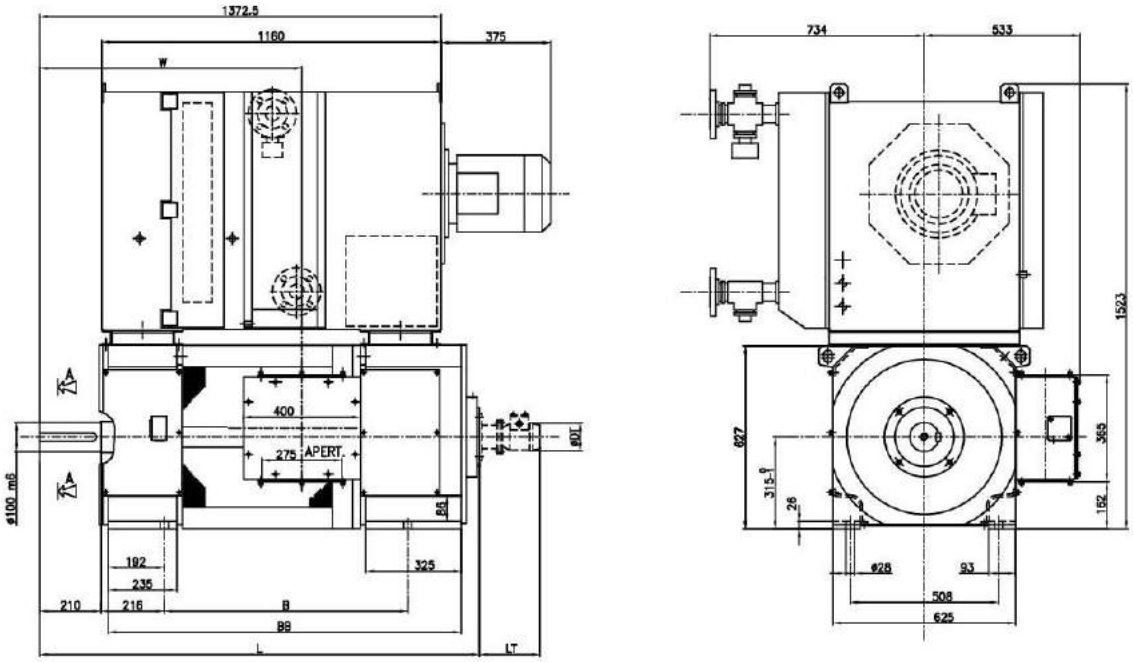


FRAME	B	BB	L	W
RP 280 KS6	845	1262	1519	912
RP 280 KM6	905	1322	1579	972
RP 280 KL6	975	1392	1649	1042
RP 280 KP6	1055	1472	1729	1122

Note : detailed drawings are available on SICMEMOTORI website www.sicmemotori.com

Drawings RP315 / 6 IC06-86W

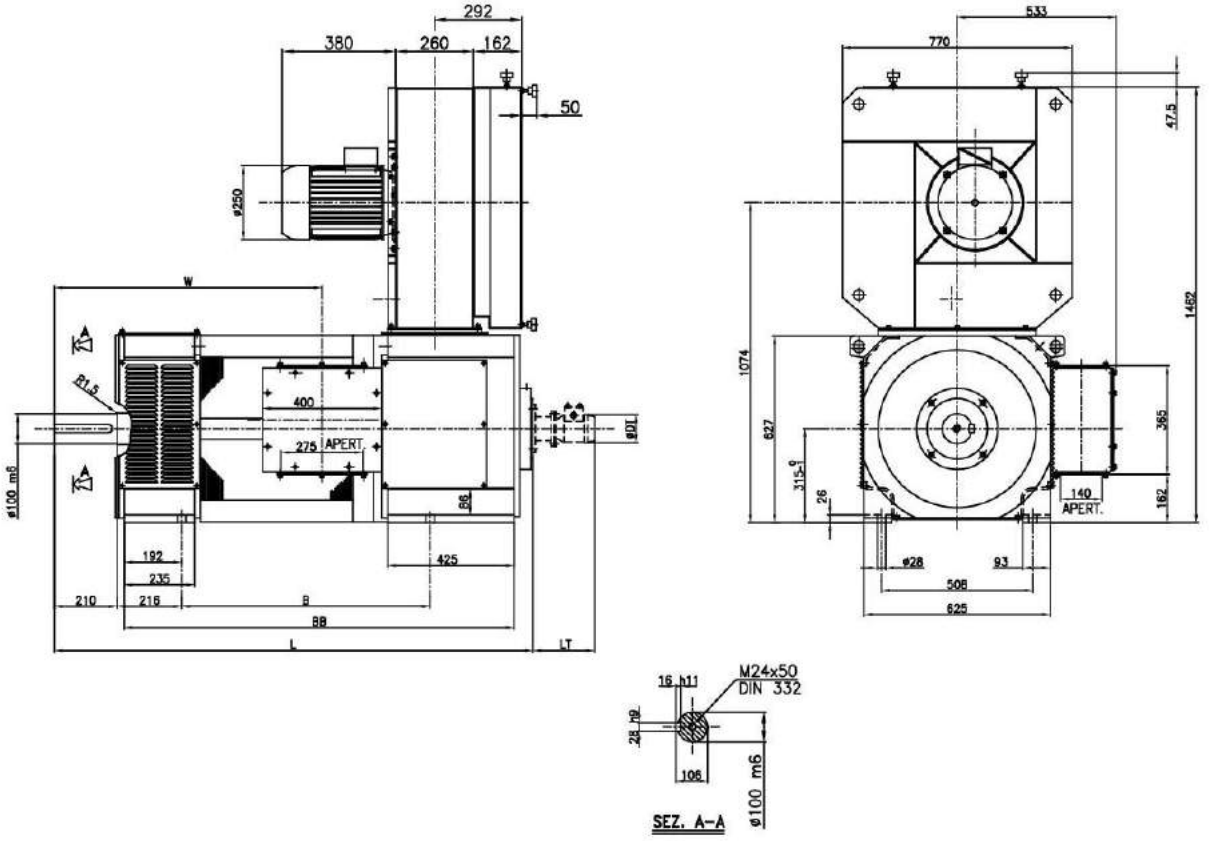


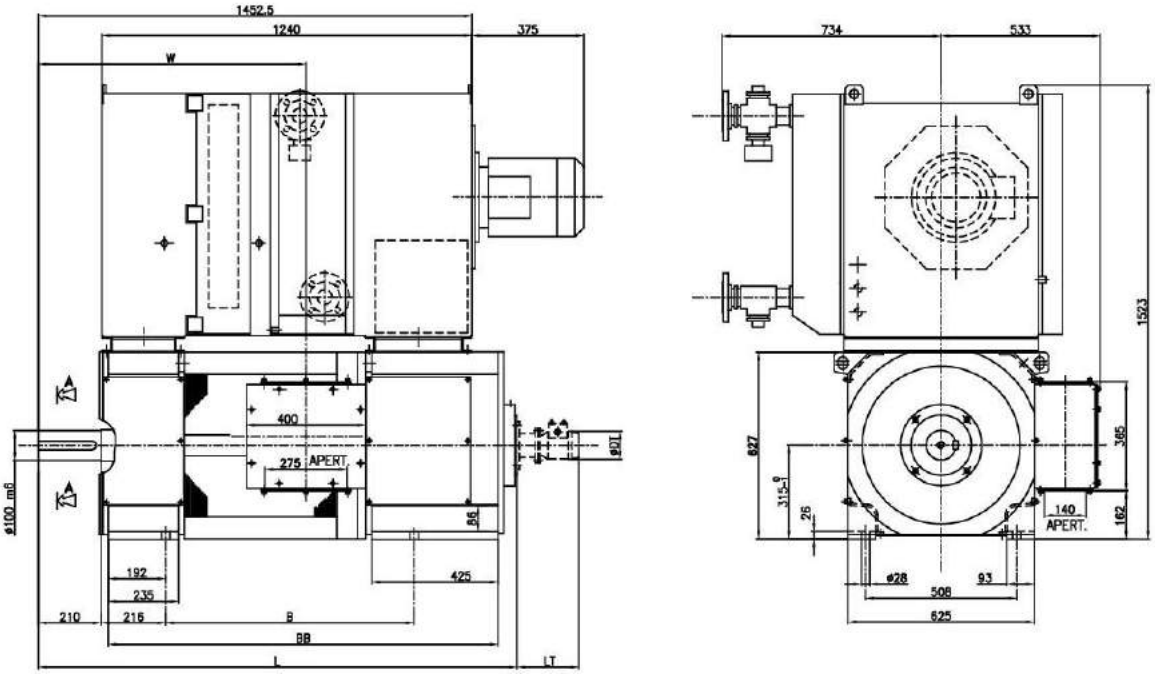


FRAME	B	BB	L	W
RP 315 KR6	833	1207	1504	897
RP 315 KS6	933	1307	1604	997
RP 315 KM6	993	1367	1664	1057
RP 315 KL6	1063	1437	1734	1127
RP 315 KP6	1143	1517	1814	1207

Note : detailed drawings are available on SICMEMOTORI website www.sicmemotori.com

Drawings RP315 / 8 IC06-86W

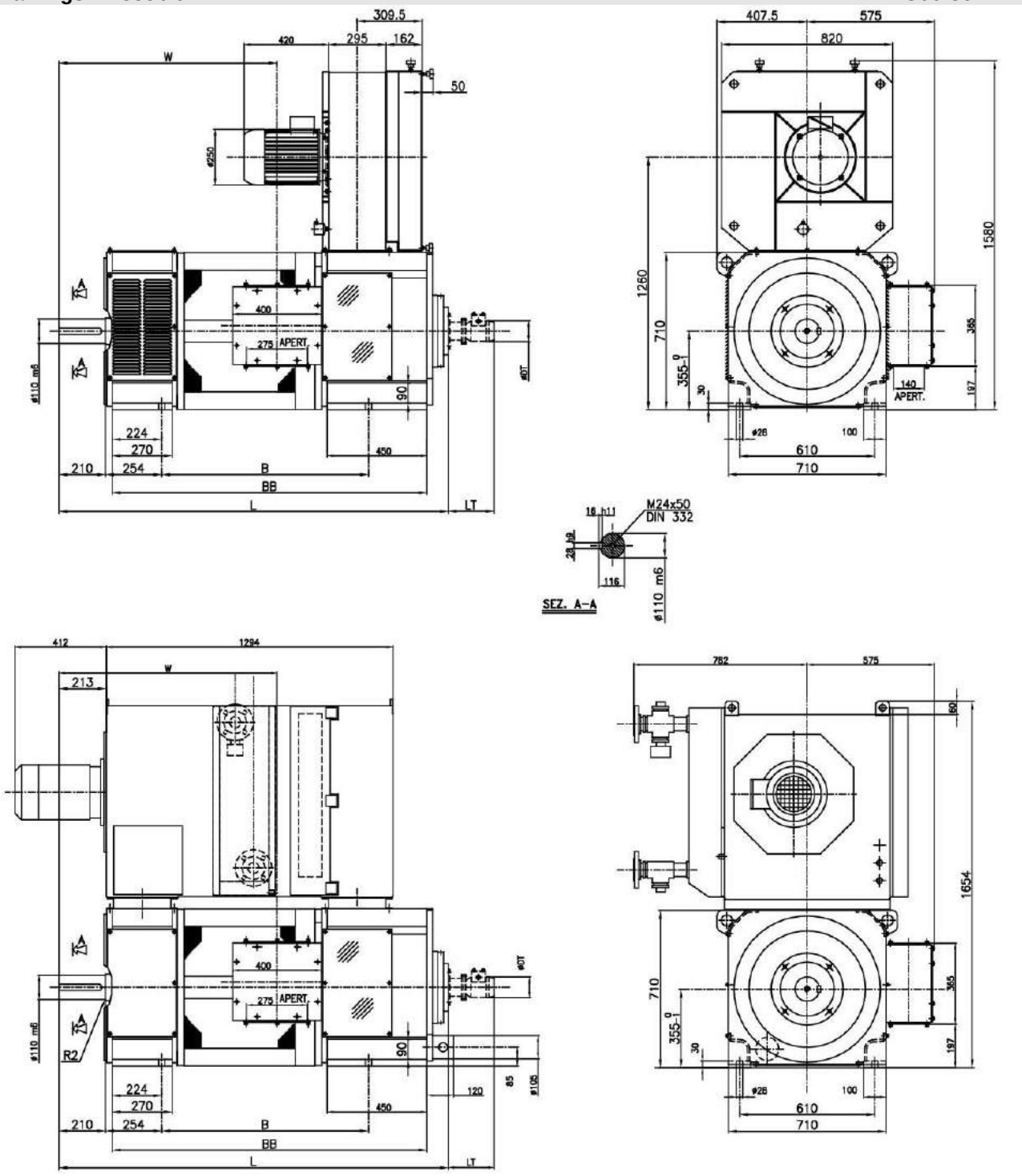




FRAME	B	BB	L	W
RP 315 KR8	833	1307	1604	897
RP 315 KS8	933	1407	1704	997
RP 315 KM8	993	1467	1764	1057
RP 315 KL8	1063	1537	1834	1127
RP 315 KP8	1143	1517	1814	1207

Note : detailed drawings are available on SICMEMOTORI website www.sicmemotori.com

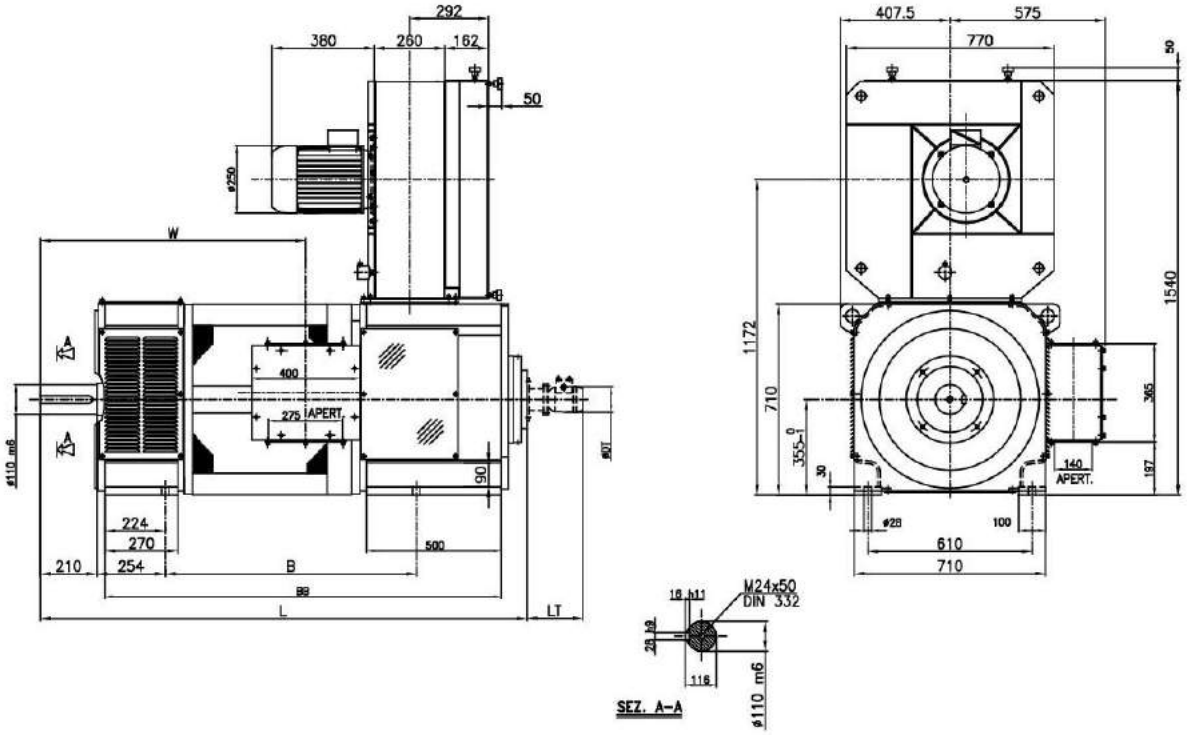
Drawings RP355 / 6 IC06-86W

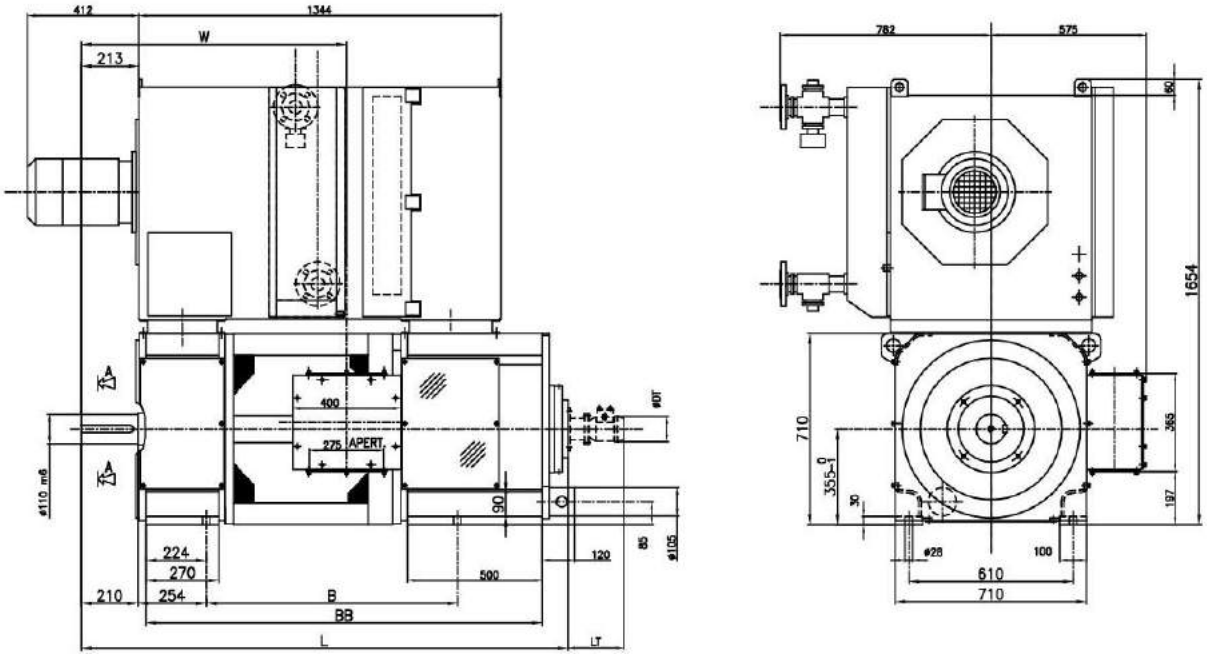


FRAME	B	BB	L	W
RP 355 KR6	932	1420	1756	984
RP 355 KS6	1032	1520	1856	1084
RP 355 KM6	1092	1580	1916	1144
RP 355 KL6	1162	1650	1986	1214
RP 355 KX6	1242	1730	2066	1294

Note : detailed drawings are available on SICMEMOTORI website www.sicmemotori.com

Drawings RP355 / 7 IC06-86W

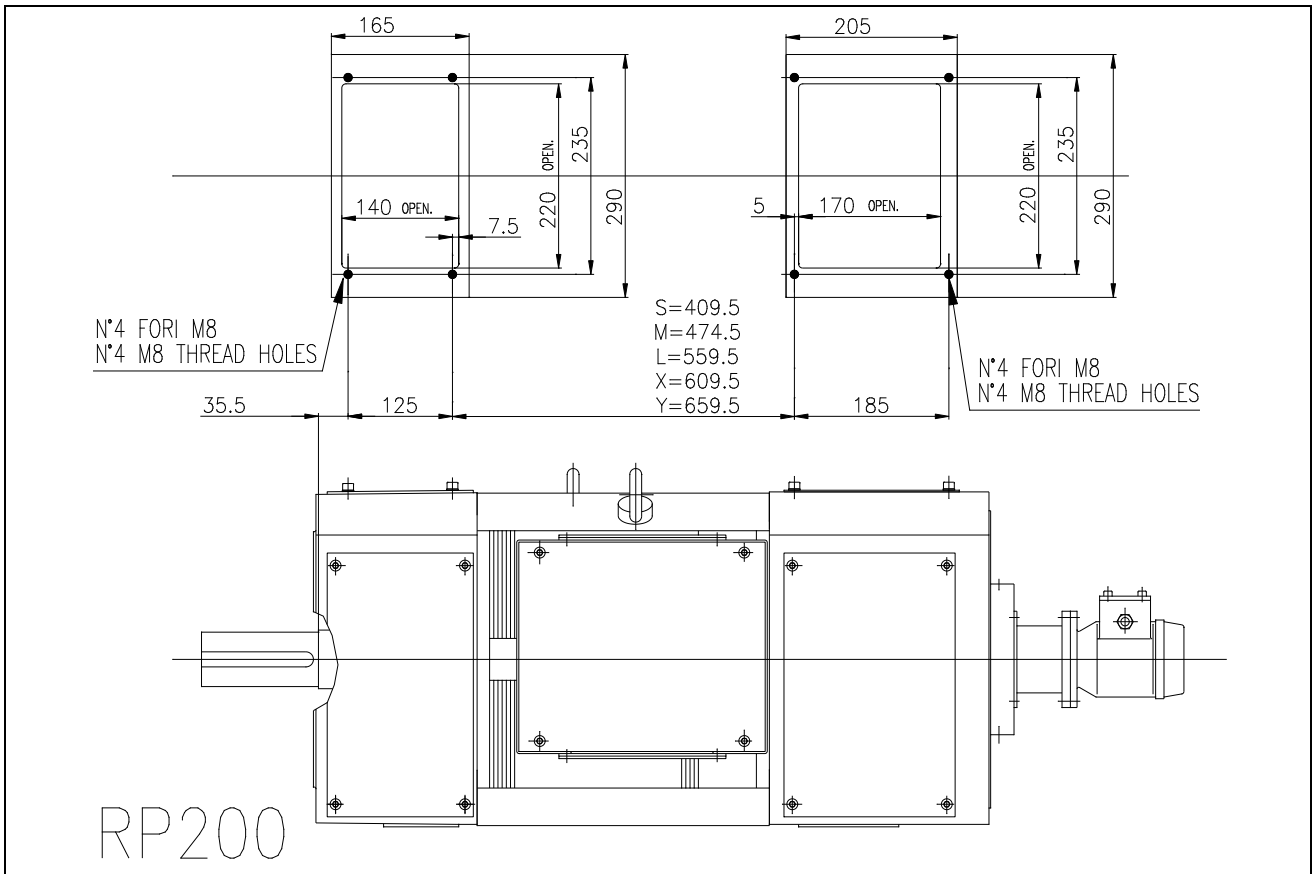


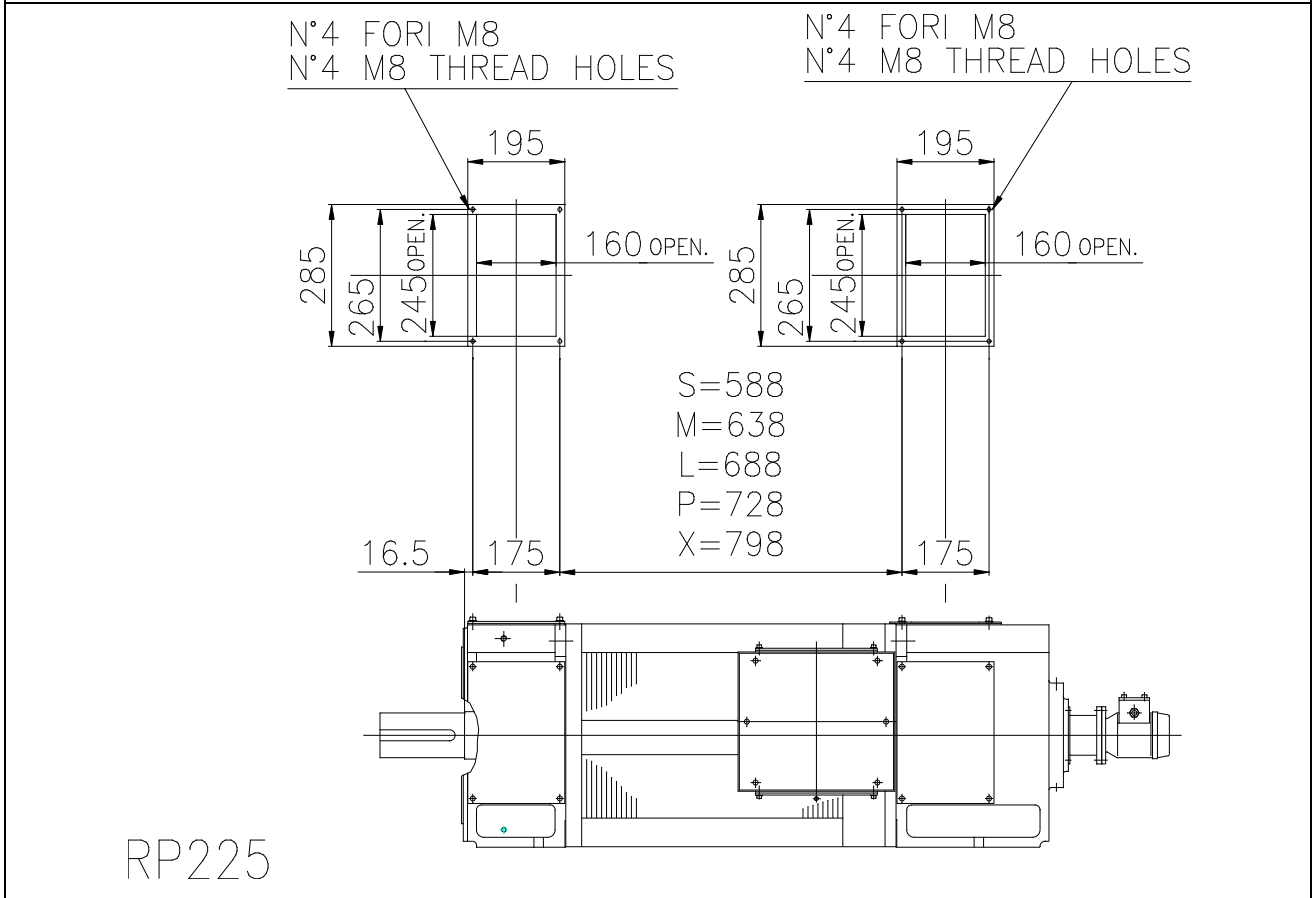


FRAME	B	BB	L	W
RP 355 KR7	932	1470	1806	984
RP 355 KS7	1032	1570	1906	1084
RP 355 KM7	1092	1630	1966	1144
RP 355 KL 7	1162	1700	2036	1214
RP 355 KX7	1242	1780	2116	1294

Note : detailed drawings are available on SICMEMOTORI website www.sicmemotori.com

Ventilation ducts opening (IP44) – Frames 200-225-250-280-315-355





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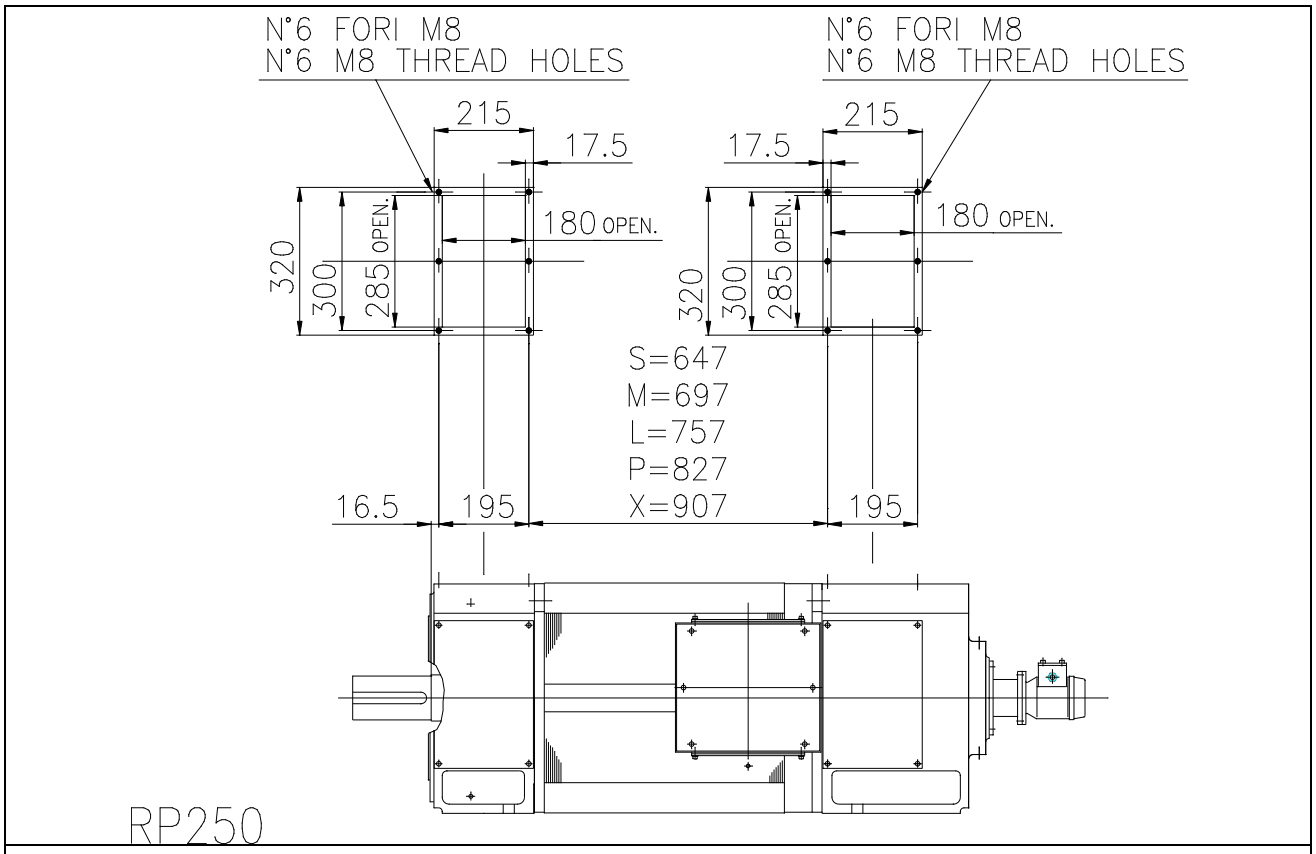
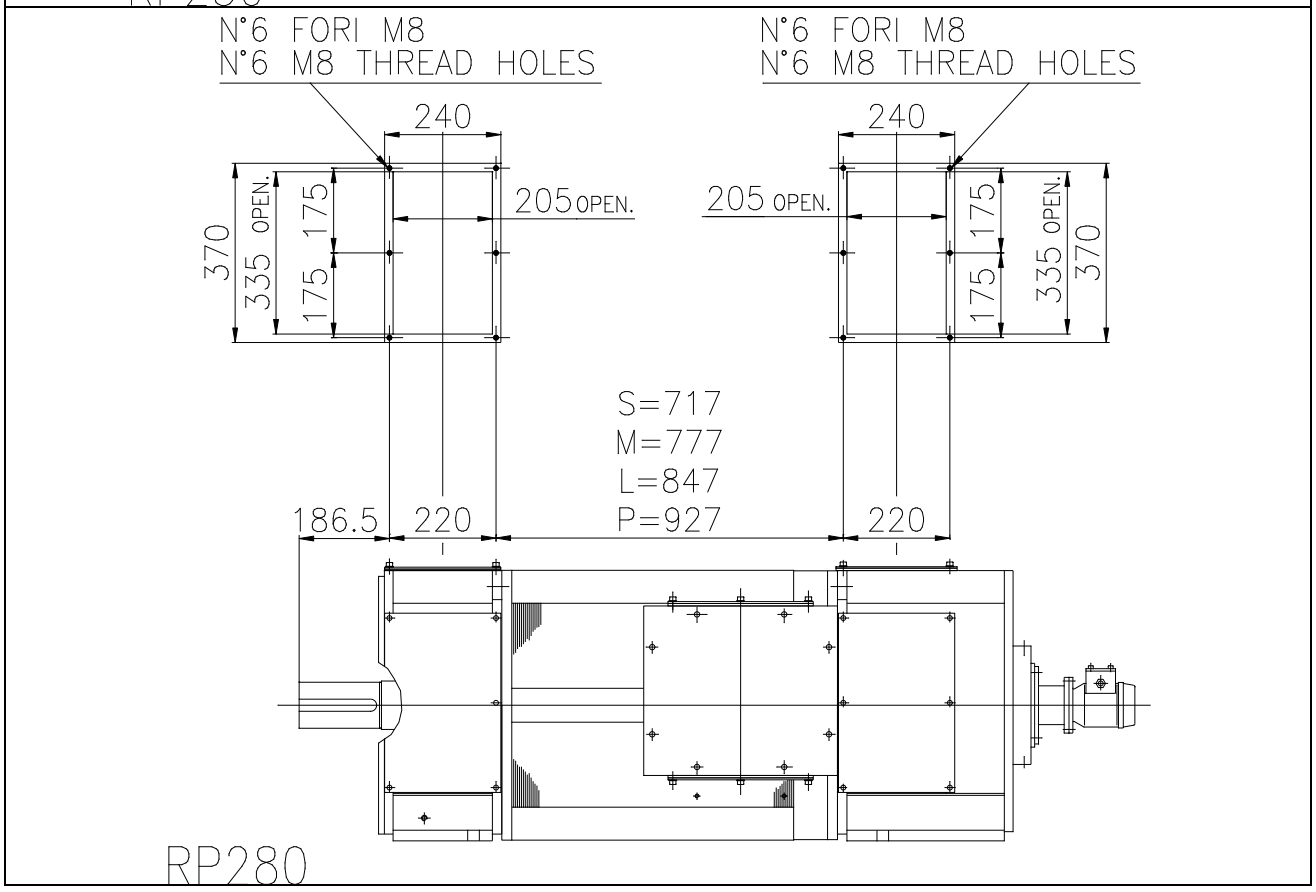
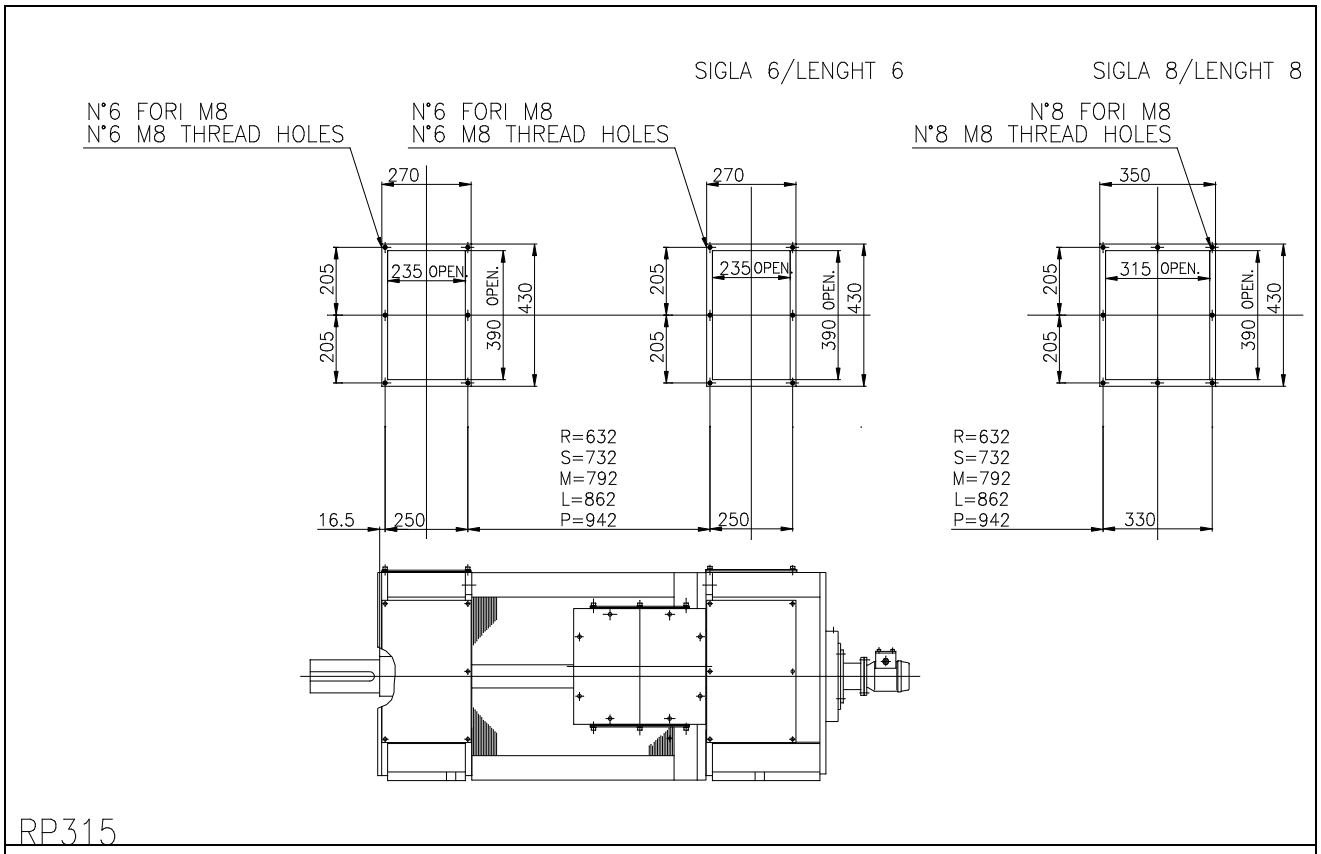
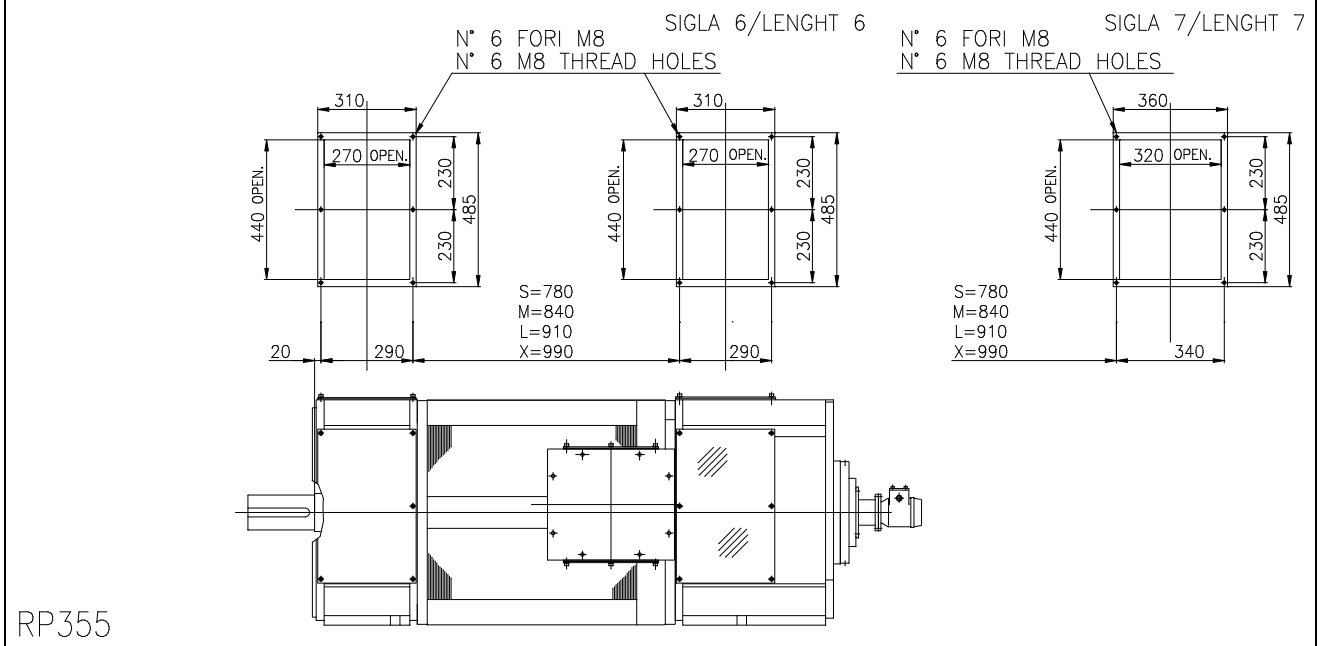




Ventilation ducts opening (IP44) – Frames 200-225-250-280-315-355

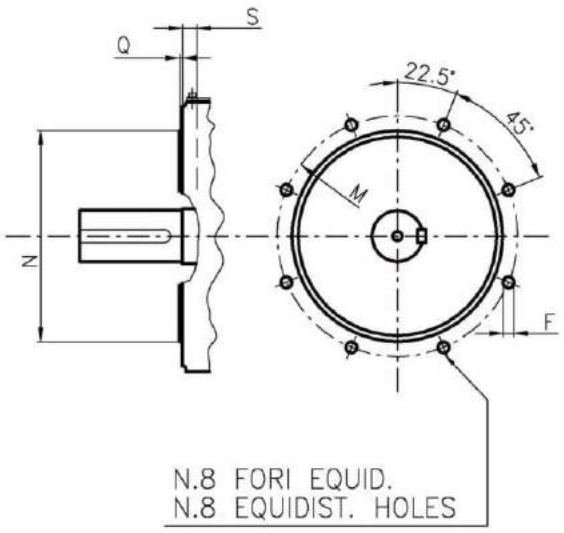


RP315



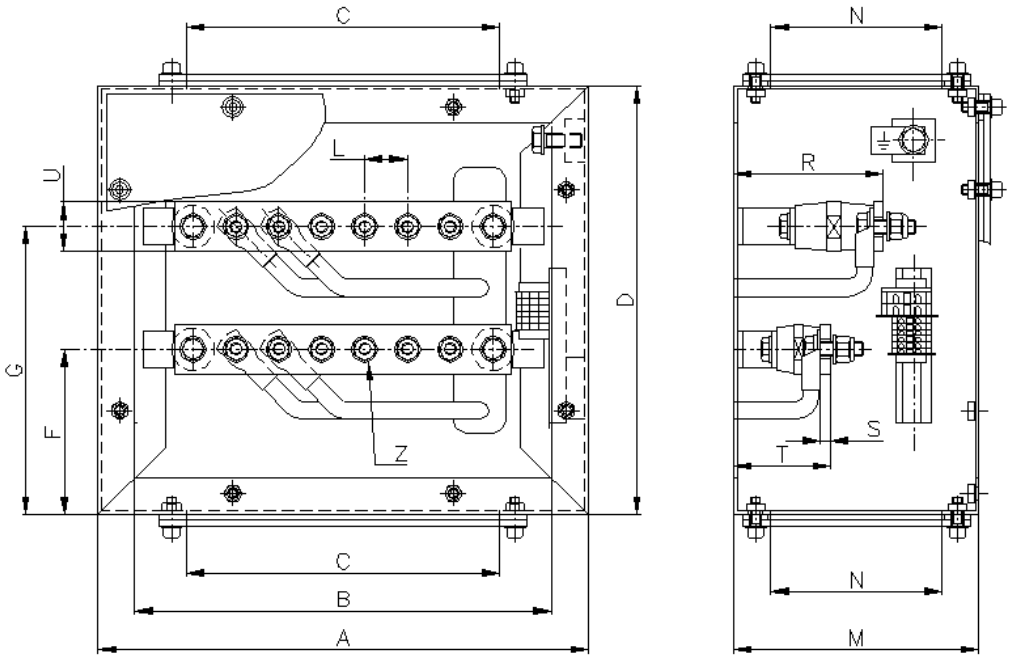
RP355

Standard flanges details – Frames 200-225-250-280-315-355



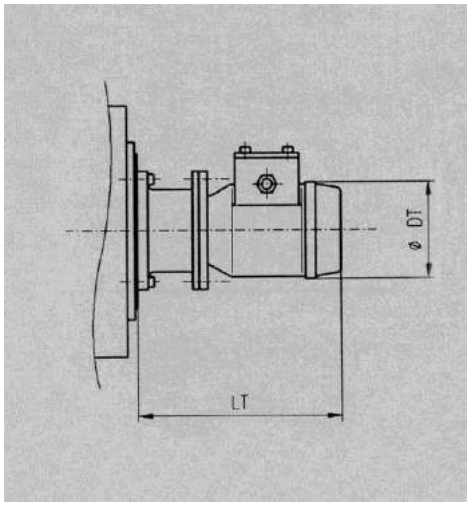
Frame size	Dimensions (mm)				
	M	F	N	Q	S
RP200	Ø300	Ø19	Ø250j6	5	18
RP225	Ø400	Ø19	Ø350j6	5	24
RP250	Ø400	Ø19	Ø350j6	5	24
RP280	Ø500	Ø19	Ø450j6	5	24
RP315	Ø600	Ø24	Ø550js6	6	24
RP355	Ø600	Ø24	Ø550js6	6	24

Main terminal box dimensions – Frames 200-225-250-280-315-355



	A	B	C	D	F	G	L	M	N	R	S	T	U	Z
RP200	300	245	170	255	95	175	27	150	90	85	5	57	30	N.4+4 M10
RP225-250	315	255	170	280	100	185	32	150	90	85	5	60	30	N.4+4 M10
RP280-355	400	340	275	350	135	235	35	200	140	125	8	85	40	N.4+4 M12

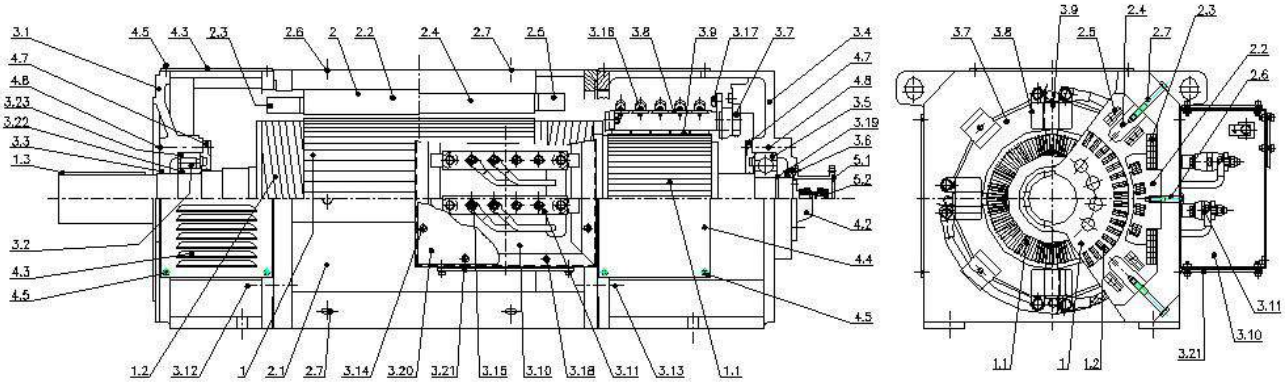
Main dimensions of tachogenerators, pulse generators and integrated units for speed control



To obtain the total motor length, including the unit for speed control, please add the dimension L in the drawing to the dimension LT shown in the following table.

Type	LT (mm)		∅ DT (mm)	Weight (kg)
	Frames 200-250	Frames 280-355		
REO444L1	150	160	69	1
REO444N1	190	200	96	1,9
REO444R1	195	205	95	2,8
REO444R2	215	225	95	3,2
TDP0,2LT4	205	215	105	2,5
DFS60	130	140	75	0,2
POG9	180	190	105	1
REO444R1 + RC2	265	275	96	3,3
TDP0,2LT + FSL	250	260	115	3,5
REO444R1 + 115T	280	290	100	4
TDP0,2LT + POG9	255	265	87	3,3
REO444R1 + RC2 + 115T	350	360	96	5,2
TDP0,2LT + POG9 + FSL	350	360	87	4,3
POG9 + FSL	235	245	87	3,5

Section drawing frames 200-355



1.Rotor

1.1 Commutator
1.2 Rotor coil
1.3 Shaft key
1.4 Fan (only for self-ventilated machines-IC 01)

2. Stator with poles

2.1 Stator core
2.2 Main pole with coil
2.3 Main pole coil
2.4 Auxiliary pole with coil
2.5 Auxiliary pole coil

3.1 DE shield
3.2 DE bearing
3.3 DE end seal
3.4 NDE shield
3.5 NDE bearing
3.6 NDE seal
3.7 Brush-holders rocker
3.8 Brush-holder
3.9 Brush
3.10 Terminal box
3.11 Terminal board
3.19 Seeger ring (if existent)
3.20 Terminal box cover
3.21 Cover for cable leads outlet
3.22 Roller bearing inside ring
3.23 Roller bearing outside ring

4.1 Electric fan
4.2 Shaft end protection
4.3 DE door
4.4 NDE door
4.6 Cooling system
4.7 Internal grease seal

5. Accessories (only on request)

5.1 Tachoprovision
5.2 Tachocoupling
5.3 Tachogenerator
5.4 Air flow switch

E. COMMERCIAL INFORMATION

E.01 Offers

Except different notice, our offers are valid 30 days from date of issue.

E.02 General Terms of Supply

The general terms of supply are an integral part of all our offers and order confirmations. Any special supply clauses should be agreed upon individually with the Customer when ordering, which delete and replace only the corresponding clauses of the General Terms of Supply, leaving all the others valid. The General Terms of Supply are available on request and are printed on the back of all order confirmations.

General

- The general sales conditions listed herein are to be considered valid for any order made to SICMEMOTORI and are an essential part of each order. Any derogative clauses or special supply conditions must be expressly stated in the text of the SICMEMOTORI Order Confirmation or otherwise agreed in writing. The issue by the Customer of an order to SICMEMOTORI and the subsequent receipt of SICMEMOTORI Order Confirmation involves, amongst other things, the acceptance of the present general sale conditions and every other specific conditions stated on the Order Confirmation.
- Any behaviour, also of repetitive nature, by either of the two parties which does not coincide with one or more of the present conditions will not in any way jeopardise the right of the other party to request their application at any time.

Manufacturer liability

- SICMEMOTORI, in its capacity as manufacturer of the goods supplied to the Customer, is responsible for damages attributed to defective products in accordance with Italian Law DPR 224 of 25 May 1988.
- The Customer is aware that all products manufactured by SICMEMOTORI are designed exclusively for installation and operation in industrial environments, by technical personnel who are sufficiently experienced and made aware of the potential hazards which may derive from the improper use of rotating electrical machines.
- For this purpose, the Customer undertakes to provide the operators assigned to the installation and operation of SICMEMOTORI products, the booklet containing the Installation, Operation and Maintenance Instructions, supplied by SICMEMOTORI with the product, and to ensure the observance of the prescriptions contained in it. The Customer will undertake the same obligations in the event of transfer of SICME MOTORI products to third parties.
- The responsibility for defective products is excluded in all cases covered by article 6 of Italian Law DPR 224/1988. SICMEMOTORI shall have no obligation to provide compensation for indirect of abstract damages such as, without limitation, lost of production, lost of earnings, lost invoicing, costs linked to production stoppage, etc. In any case SICMEMOTORI declines all responsibility in case of tampering with its products, or defects due to repairs or operations by third parties who have not been explicitly authorised.

Orders and order confirmations

Orders forwarded by the Customer to SICMEMOTORI shall be deemed to be accepted only if confirmed in writing by SICMEMOTORI (order confirmation forwarded by post, fax or e-mail). The text of the order confirmation shall in any case prevail over any other conditions or clauses contained in the Customer's order and will remain the sole document with contractual validity, unless otherwise stated by the Customer, which must reach SICMEMOTORI within fifteen days of receipt of the order confirmation.

Delivery terms

The delivery terms are those stated on the order confirmation, which must be considered as an indication of the date upon which the product will be available. SICMEMOTORI is therefore exonerated from all responsibility for confirmed damages due to delivery delays.

Risk transfer

The products shall be delivered and sold ex SICMEMOTORI works in Turin, Italy. Should the goods be sold free at destination, following explicit agreement stated in the order confirmation, the transfer of risk from SICMEMOTORI to the customer shall take place upon departure of the products from the SICMEMOTORI plant.

Payment terms

Unless otherwise agreed, payment shall be made upon delivery of the goods. The prices indicated shall be net of all expense, discount or tax. The Customer is bound to pay the price at the moment the goods become available for pick up. Omitted or late payment according to the specified terms shall cause the immediate imposition of interest to be charged at a current annual bank rate, as well as the withdrawal of the Customer's benefit of such term for all future orders, and shall entitle SICMEMOTORI to demand immediate payment or to consider suspended or cancelled the fulfilment of all other pending orders.

Warranty

SICMEMOTORI guarantees its products for 12 months from the date of delivery. The warrantee covers exclusively manufacturing defects ascribable to SICMEMOTORI, who may decide to repair or replace the product or the part deemed defective, as seen fit. The cost and risk involved in transporting the product from the Customer to SICMEMOTORI shall be borne by the former. The warranty is automatically voided in case of tampering or unauthorised interventions, and does not extend to parts normally subject to wear (e.g.: bearings, brushes, filters).

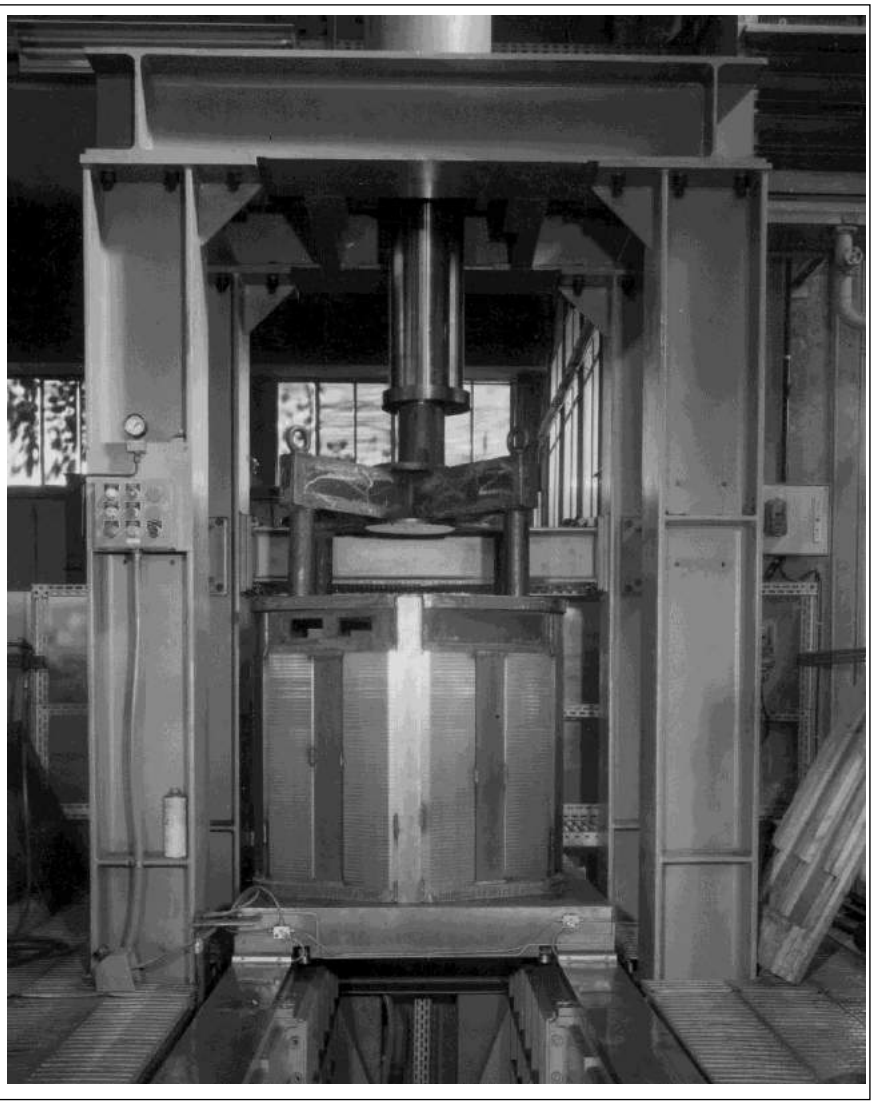
The warranty is also voided in case of failure to comply with the prescriptions contained in our Installation, Operation and Maintenance Instructions, available to the Customer on request, an excerpt of which is enclosed inside the terminal boxes of all machines supplied by SICMEMOTORI.
If a part is replaced or repaired, the warranty shall be renewed solely for that piece. The Customer may not withhold payment on the grounds that the warranty does not meet his satisfaction. In all cases the warranty is voided if the Customer fails to comply with that indicated in subsection 1 of article 1495 of the Civil Code. **Warranty and sales support are regulated by instructions given by SICMEMOTORI ISO9001-2000 Quality System.**

Applicable law and jurisdiction

- The contract of which these general conditions are an integrated part is governed by current Italian laws.
- Any controversy that should arise between the parties regarding the contracts of which these general conditions are an integrated part shall be heard before Turin Court.

E.03 Guide sheet for requests for quotations and orders transmission

The following page shows a reproduction of form CT.01 used as a guide for completing the technical part of requests for quotation (which must also be used when sending the order).
Copies of this sheet are available c/o SICMEMOTORI sales organisation.



SICMEMOTORI

D.C. ELECTRIC MACHINE

Sicme Motori Srl
Strada del Francese 126/130 – 10156 Torino – Italy
Tel. +39-011-4076311 – Fax +39-011-4500047
sicmemotori@sicmemotori.com – www.sicmemotori.com

Offer/Inquiry No.	Item
Date	Page

Customer

Type of installation:		**Operated machine:**	
☐ d.c. motor	☐ d.c. generator	type	Q.ty
Power	- - - kW	Max. loads: continuous	%
Speed	- - - rpm	Frequent	% base speed % max speed
Armature V	- - - V	Occasional	% base speed % max speed
Armature I	- - - A		
Field V	V	☐ Compensating windings	

Method of cooling	☐	IC06 (PVA)	☐ IC16 (BPVA)	☐	IC17 (BCA)	☐	IC01 (PV)
	☐	IC410 (CNV)	☐ IC610 (CNVC)	☐	IC37 (CBA)	☐	IC36 (BPVAB)
	☐	IC666 (CBARO)	☐ IC86W (CBARH)				
Mounting arrangement	☐	IM1001 (B3)	☐ IM2001 (B35)	☐	IM3011 (V1)	☐	IM3001 (B5)
	☐	IM 1011 (V5)	☐ IM2031 (V36)	☐	IM3031 (V3)		

Standard features

- 3-phase fully controlled bridge supply
- Insulation and temp. rise class H
- Degree of protection IP23
- Duty type S1
- Ambient temperature –15 to +40°C
- Indoor environment, no dust, neutral
- Relative humidity <= 70%
- Max altitude 1000 m.a.s.l.
- Max load 2 In for 15" every 5' or for 1' every 20'
- Separate excitation
- Mounting arrangement IM1001 (B3)
- Standard shaft end
- Direct coupling or toothed belt coupling
- DE ball bearing (<=200) or roller bearing (=>225)
- Balancing N degree, with half key
- Terminal box right side DE view (on top <=112)
- Blower on top, commutator side, with filter
- Painting cycle 1, final colour RAL6011 (green)
- Noise level according to IEC 34-9
- IEC 60034-1 Standards

If other datas are not specified, the above will be assured

Modifications

- Supply ☐ Ward-Leonard ☐ …….. ……..
- Temp. Rise ☐ Cl. F (105°C) ☐ Cl. B (80°C) ☐ ……
- Degree of protection ☐ IP44 ☐ IP55 ☐ ……..
- Duty cycle …….
- Ambient temperature ……..°C max …….°C min
- Environment ☐ external under roof ☐ humid-salty ☐ chemical agent (type ……) ☐ other …….
- Altitude …… m. a.s.l. Relative humidity ……..%
- Max load ☐ Nema cold ☐ Nema hot ☐ ……
- Excitation ☐ Derivate ☐ Compound ☐ ……
- Special shaft dim. ……..…… ☐ keywayed ☐ keyless
- Special flange dim. ……...
- Belt drive type ……..
  pulley diameter …… mm pulley width ……... mm
- DE roller bearing (<=200) ☐
- Balancing ☐ R degree ☐ S degree
- Second power shaft end – dimensions …….. x …….mm
- Terminal box ☐ left DE view ☐ on top
- Blower position ……
- Air inlet ☐ on top ☐ …… ☐ DE ☐ NDE
- Painting cycle ……... Final colour RAL……..
- Tropicalization ☐ Noise level …….. dBA
- Special Standards …….

Accessories for cooling

Filter as standard ☐ Fan ☐ 3x400V – 50 Hz ☐……V …….. Hz
☐ Ventilation failure detector ☐ Noise reduction system

Accessories for protection and control

1 klixon as standard (1+1 frames =>355)
☐ klixon ☐ PTC thermistors ☐ Pt100 ☐ Q.ty on main poles …….. ☐ Q.ty on auxiliary poles ……..
☐ Brush wear control device (CR1 system) ☐ Bearing vibration control sensor ☐ Bearing temperature control sensor

Accessories for speed measurement and control

☐ Tachogenerator/encoder type ……. ☐ Provision only ☐ Supply
☐ Overspeed switch type …….. Setting speed …… rpm

Other accessories

☐ Anticond. heater …….. V … Hz ☐ single-phase ☐ three-phase
☐ Transparent inspection doors (<=315) ☐ Earthing rotor brush
Gearbox type ……. gear ratio ……
Electromagnetic brake type ……Braking torque …….Nm
Other ……

Unit net price ……..

Delivery time ……

Notes:

The present technical catalogue is completed by the General Description for D.C. motors code:

C-GENDC-E-07

It is necessary to consult both sections in order to obtain complete and correct information. Please ask a hard copy to SICMEMOTORI or download it from SICMEMOTORI web site www.sicmemotori.com.

Customers can determine whether a specific product is suitable for their needs and are thus responsible for the selection, use and results obtained by any product showed in this catalogue. The information contained in the present catalogue does not guarantee the characteristics for the use.

The products listed in this catalogue are exclusively designed and built for industrial purposes.

For particular cases in NON-industrial environments, or where other types of protection must be provided (for example against contact with children fingers, etc.), these guards or additional protections must be realized by the customer.

Any non-observance of the rules for installation, use and maintenance or any modification/tampering with the motor makes the guarantee rights invalid and exempts SICMEMOTORI from any responsibility.

All data and indications shown in this catalogue have to be considered only as a guideline.

Any use of the motor differently from the specifications indicated in this catalogue does not involve any liability for SICMEMOTORI as manufacturer.

SICMEMOTORI reserves the right to modify at any time and without notice the data, the technical characteristics, the dimensions, the weights and the illustrations.

SICMEMOTORI refuses all responsibility for direct or indirect damages caused by possible errors and/or omissions in the present catalogue

The reproduction, even in part, of the present catalogue must be authorized in writing by SICMEMOTORI.

WARNING

The motors and the electrical devices feeding them are electrical components installed on machines and industrial systems subject to high voltage. During operation, these components can be dangerous since they are live and have non-insulated and rotating parts. Therefore, they can be extremely harmful to personnel and objects if the instructions for the installation, the use and the maintenance are not respected.
The motors are always supplied complete with the installation, use and maintenance instruction manual. It is necessary to read and understand all the information contained before proceeding to connect and to start up the installation.
If the above mentioned documentation is lacking, please request a copy to SICMEMOTORI.

CAUTION

All information, data, drawings given in this catalogue are of a purely indicative nature and may be changed without prior notice. SICMEMOTORI shall not be held responsible if the products illustrated herein are used outside their limits of the specifications given.