SYSTEM DI ROSATI

www.systemrosati.com

info@systemrosati.com

CERTIFIED COMPANY

Member of CISQ Federation

RINA

ISO 9001:2000

Certified Quality System

Certificate n° 1785/99/S

Cod. CTPRIN Rev. 3

SYSTEM DI ROSATI

CERTIFIED COMPANY
Member of CSQ Federation
RINA
ISO 9001:2000
Certified Quality System
Certificate n° 1785/99/S

Company










CUSTOM DI ROSATI

SYSTEM DI ROSATI

CERTIFIED COMPANY
Member of CISQ Federation
RINA
ISO 9001:2000
Certified Quality System
Certificate n° 1785/99/S

Production

CUSTOM DI

SYSTEM DI ROSATI

CERTIFIED COMPANY
Member of CSQ Federation
RINA
ISO 9001:2000
Certified Quality System
Certificate n° 1785/99/S

Company

SISTEM di Rosati has been designing and manufacturing its products for over 40 years offering both standard and/or customised products made for satysfying customers' requirements.

History

Since 1960. Marcello Rosati, a design engineer. has acquired an in-depth and varied range of experience in electrmechanics in general. His determination and inventive skills have enabled him to deal in a variety of sectors. including:

- Oleodynamics
- Generating sets
- Mobile power station with EMP protection
- A wide sector application in industrial endothermic engines
- Manufacturing machines in general
- Earthmovers
- Farm Machinery
- Agricultural tractors
- Fruit selecting machines
- Woodworking machinery
- Marble-working machinery and many others...

Marcello Rosati's experience was therefore gained by facing problems regarding the application, design and manufacture of the products themselves and by the total management of production right trough to the satisfaction of the final customer.
In the 1986, he established SYSTEM Costruzioni Elettromeccaniche (literally electromechanical construction), and began manufacturing a range of electromagnets and electromechanical components.
The beginning was though, but soon demands for "applications" for different sectors increased thanks to both his innate entrepreneurship and his designing skill as well as his team of qualified laboratory engineers. This was start of a real routine of project conception and creation, gaining Rosati both a good reputation and technical and practical know-how.
The products have always been built skilfully and using quality techniques, leading in time to excellent results, so much so that the company has gained a number of customers from a variety of sectors.
Nowadays, SYSTEM di Rosati can be considered a leader in the manufacture of "special" and not strictly "standard" products. thus providing customers the possibility of solving their own particular problems thanks to both custom made products and fundamental technical assistance.
In 1991, SYSTEM di Rosati organised its production department optymally, making a considerable investement in the company, by extending its laboratories to cover a surface area of 2.000 square metres, in high technology software and machinery, thus preparing for high quality production.

SYSTEM di ROSATI

Accessories and Kit

SYSTEM di ROSATI designs and manufactures customised electronic control and command equipment por electric pistons upon specific customer request.

SYSTEM di ROSATI

CERTIFIED COMPANY
Member of CSQ Federation
RINA
ISO 9001:2000
Certified Quality System
Certificate n° 1785/99/S

Special Customized Products





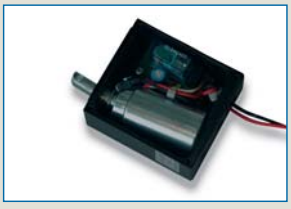
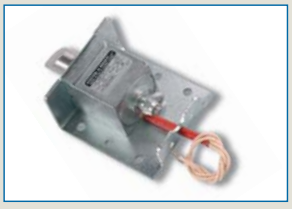










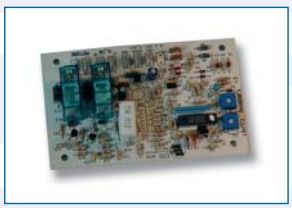
40 years of know how. Our strong point is in the manufacture of customised products to customer specifications. The leadership on the part of SYSTEM di ROSATI is due to the design and manufacture for all application sectors of special customised products such as:

- *Electromagnets in general*
- *Motor devices for door locks and security systems*
- *Electronic control and command equipment for electric pistons*
- *Electronic timing relay*
- *Linear electromagnetic coupling*

This space is reserved for your product ?









SYSTEM DI ROSATI

CERTIFIED COMPANY
Member of CISQ Federation
RINA
ISO 9001:2000
Certified Quality System
Certificate n° 1785/99/S

Accessories - Heaters

RA 1200 - RA 3000

Industrial endothermic engine heating sector

This heater features similar characteristics to that of previously described models, with the addition of an electric pump for the forced circulation of water.
This kind of heater is ideal for use in applications where the water circulation is critical.

- *RECIRCULATION PUMPS*
- *BAR SAFETY VALVES*
- *AIR RELEASE AUTOMATIC VALVE*
- *GENERAL HOSE FITTINGS*

The FUNCTIONALITY and the RELIABILITY also depend on the QUALITY OF THE INSTALLER

SYSTEM DI ROSATI

CERTIFIED COMPANY
Member of CSQ Federation
RINA
ISO 9001:2000
Certified Quality System
Certificate n° 1785/99/S

Standard Products

Elettromagnets

TYPE I
Single coil

TYPE C
Double coil
Pull coll disconnected by internal switch
Hold coil - ED=100%

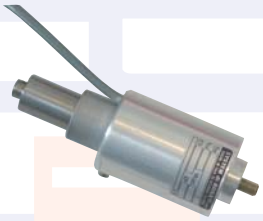
TYPE CI
Double coil
Pull coll disconnected by external switch
Hold coil - ED=100%

TYPE CM
Single coil
Electromagnet to mantle

TYPE CS
Traction/Thrust
Sliding on self-lubrificating bushings

TYPE CR
Rotating with high frequencies
max. 45° angle

TYPE CT
Holding electromagnet



TYPE GE
Electromagnetic couplings

Electric Pistons (linear actuators)

TYPE PE40G
Double effect controlled by electronic control units. type S.FCEG.

TYPE PE40GE
Double effect with encoder for position control

TYPE PE40GP
Double effect with feedback

TYPE PE50
Double effect controlled electronic control units type S.FC.

TYPE PE50P
Double effect with feedback

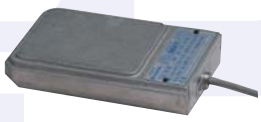
Electronic Equipment

TYPE S.FC. and S.FCEG.
Electronic control and command equipments for linear actuators type PE406 - PE50
Programmable software

TYPE SSR70
Electronic power relay with double circuit
Max. 70 amp. run on time
Max 2 amp. 100% service

Heaters

TYPE RA
Water heaters for diesel engines



TYPE RO
Contact heater for diesel engines

THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

IQNet and its partner

CISQ/RINA

hereby certify that the organization

SYSTEM DI ROSATI S.r.l.

VIA VENETO 24 60030 MONSANO AN ITALIA

in the following operative units

VIA VENETO 24 60030 MONSANO AN ITALIA

for the following field of activities

DESIGN, DEVELOPMENT, CONSTRUCTION, SALE AND TECHNICAL ASSISTANCE FOR: - GENERAL ROLLING AND LINEAR ELECTROMAGNETS - ELECTRIC PISTONS AND LINEAR ACTUATORS - ELECTRONIC CONTROL EXCHANGES - HEATERS AND ACCESSORIES FOR MOTORS AND RELATED PRODUCTS

has implemented and maintains a

Quality Management System

which fulfills the requirements of the following standard

ISO 9001:2000

Registration Number: **IT-6074**

First Issue : 1999-03-25

Current issue : 2004-05-11

Fabio Roversi
President of IQNet

Gianrenzo Prati
President of CISQ

IQNet partners*:

AENOR *Spain* AFAQ *France* AIB-Vinçotte International *Belgium* ANCE *Mexico* APCER *Portugal* CISQ *Italy* CQC *China* CQM *China* CQS *Czech Republic* DQS *Germany* DS *Denmark* ELOT *Greece* FCAV *Brazil* FONDONORMA *Venezuela* HKQAA *Hong Kong* ICONTEC *Colombia* *IMNC Mexico* IRAM *Argentina* JQA *Japan* KEMA *Netherlands* KFQ *Korea* MSZT *Hungary* Nemko Certification *Norway* NSAI *Ireland* ÖQS *Austria* PCBC *Poland* PSB Certification *Singapore* QMI *Canada* RR *Russia* SAI Global *Australia* SFS *Finland* SII *Israel* SIQ *Slovenia* SQS *Switzerland* SRAC *Romania* TEST St Petersburg *Russia*

IQNet is represented in the USA by the following partners: AFAQ, AIB-Vinçotte International, CISQ, DQS, KEMA, NSAI, QMI and SAI Global

*The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com

RINA

www.rina.org

CISQ is a member of

IQNet

THE INTERNATIONAL CERTIFICATION NETWORK

www.iqnet-certification.com

IQNet, the association of the world's first class certification bodies, is the largest provider of management System Certification in the world. IQNet is composed of more than 30 bodies and counts over 150 subsidiaries all over the globe.

CERTIFICATO N. 1785/99/S
CERTIFICATE No

SI CERTIFICA CHE IL SISTEMA DI GESTIONE PER LA QUALITÀ DI
IT IS HEREBY CERTIFIED THAT THE QUALITY MANAGEMENT SYSTEM OF

SYSTEM DI ROSATI S.r.l.

VIA VENETO 24 60030 MONSANO AN ITALIA

NELLE SEGUENTI UNITA' OPERATIVE / *IN THE FOLLOWING OPERATIONAL UNITS*

VIA VENETO 24

60030 MONSANO AN ITALIA

E' CONFORME ALLA NORMA
IS IN COMPLIANCE WITH THE STANDARD

ISO 9001:2000

PER I SEGUENTI CAMPI DI ATTIVITÀ / *FOR THE FOLLOWING FIELD(S) OF ACTIVITIES* EA: 19

PROGETTAZIONE, SVILUPPO, COSTRUZIONE, VENDITA E ASSISTENZA DI: - ELETTROMAGNETI LINEARI E ROTANTI IN GENERE - PISTONI ELETTRICI E ATTUATORI LINEARI - CENTRALINE ELETTRONICHE DI COMANDO - RISCALDATORI ED ACCESSORI PER MOTORI E PRODOTTI AFFINI

DESIGN, DEVELOPMENT, CONSTRUCTION, SALE AND TECHNICAL ASSISTANCE FOR: - GENERAL ROLLING AND LINEAR ELECTROMAGNETS - ELECTRIC PISTONS AND LINEAR ACTUATORS - ELECTRONIC CONTROL EXCHANGES - HEATERS AND ACCESSORIES FOR MOTORS AND RELATED PRODUCTS

Riferirsi al Manuale della Qualità per i dettagli delle esclusioni ai requisiti della norma
Reference is to be made to the Quality Manual for details regarding the exemptions from the requirements of the standard

L'uso e la validità del presente certificato sono soggetti al rispetto del documento RINA: Regolamento per la certificazione di Sistemi Qualità
The use and validity of this certificate are subject to compliance with the RINA document: Rules for the certification of Quality Systems

Per informazioni sulla validità del certificato, visitare il sito www.rina.org

For information concerning validity of the certificate, you can visit the site www.rina.org

Prima Emissione / *First Issue* 25.03.1999

Emissione corrente / *Current Issue* 11.05.2004

Dott. Ing. Domenico Andreis
(Direttore Certificazione e Servizi Industriali)

RINA SpA
Via Corsica 12 - 16128 Genova Italy

CISQ è la Federazione Italiana di Organismi di Certificazione dei sistemi di gestione aziendale

CISQ is the Italian Federation of management system Certification Bodies

SINCERT
ACCREDITAMENTO ORGANISMI DI CERTIFICAZIONE E ISPEZIONE

SGQ N° 002A - SGA N° 002D
PRD N° 002B - PRS N° 066C
SCR N° 003F - SSI N° 001G
Membro degli Accordi di Mutuo Riconoscimento EA e IAF
Signatory of EA and IAF Mutual Recognition Agreements

La validità del presente certificato è subordinata a sorveglianza periodica annuale / semestrale ed al riesame completo del sistema di gestione con periodicità triennale

The validity of this certificate is dependent on an annual/six monthly audit and on a complete review, every three years, of the management system

FEDERAZIONE CISQ

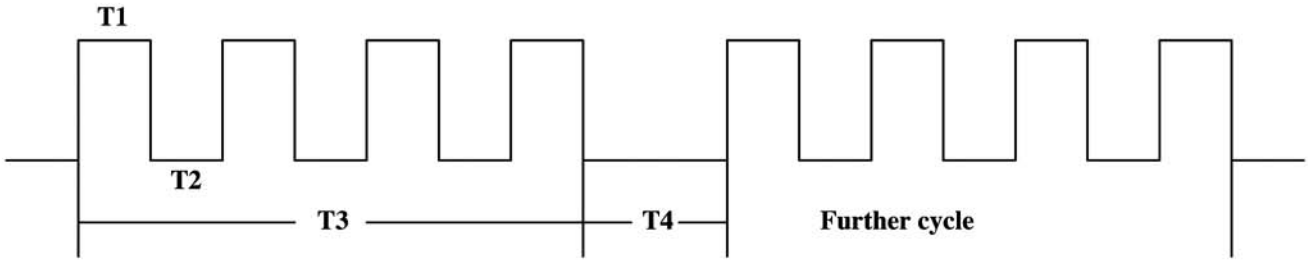
www.cisq.com

Form CERSISGE-10/02

SYSTEM di ROSATI	**INFORMATIVE SOLENOIDS QUESTIONNAIRE**	**Data: 07/01/03 Rev. 01**	
		Foglio 1 di 1	**Cod. QEE**

CUSTOMER : _____ ***From Mr.*** _____

Please fill in the following form in order to suggest you the right solenoid type .
The informations must be accurate , please don't consider any tolerance , we will do it .



T1 = How long is the coil energized ? Seconds……

T2 = How long is the coil de-energized ? Seconds……

T3 = How long is the operation cycle ? Seconds……

T4 = How long is the time between operation cycles ? Minutes……

- Functional room temperature where solenoid works from °C ……to °C …….
- Battery Alimentation =……Vcc
- Electric Network Alimentation ~……...Vca
- Straightened alimentation only with diode bridge ☐
- Straightened/Levelled Alimentation , diode bridge and capacitor ☐
- Electrical absorption acceptable for the power source ..……....A
- Installation position ☐ vertical ☐ horizontal ☐ other
  (the position is referred to the mobile core of the solenoid)
- Protection against solids or liquids IP……..…..
- Initial Stroke Force ..……..N
- Final Stroke Force ..……..N
- Max. stroke ....……..mm
- Return spring ☐ NO ☐ YES Initial stroke force……..N
  Ending stroke force……..…....N
- Rear Pull Exit ☐ NO ☐ YES

Notes / Comments : _____

_____

_____

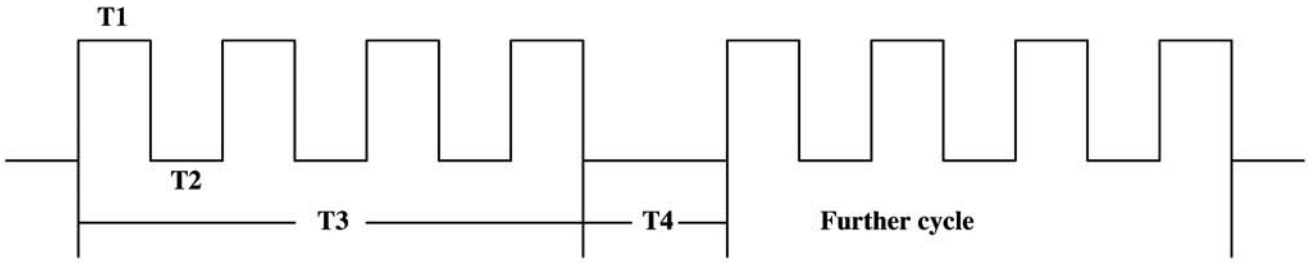
Date: _____/_____/_____ Signature……

SYSTEM di ROSATI S.r.l. - via Veneto, 24 – 60030 Monsano – AN – Italy Tel.:+39.0731.605631 –
Fax.: +39.0731.605641 - Web: www.systemrosati.com - Email: info@systemrosati.com

SYSTEM di ROSATI	**INFORMATIVE ELECTRIC PISTONS QUESTIONNAIRE**	**Data: 07/01/03 Rev. 01**	
		Foglio 1 di 1	**Cod. QPE**

CUSTOMER : _____ ***From Mr.*** _____

Please fill in the following form in order to suggest you the right electric piston type.
The informations must be accurate, please don't consider any tolerance, we will do it.



T1 = Piston running ? Seconds……

T2 = Piston in pause ? Seconds……

T3 = Working cycle Impulse Nr……

Pause Nr……

T4 = Time between cycles Minutes……...

- Working room temperature from °C ……. to °C …….
- Battery power supply ☐ NO ☐ YES
- In case of NO battery supply, please specify voltage :…..…….
- Acceptable Electrical absorption for the power source ..…….....A
- Voltage Range Min…..……Vcc Max…..……..Vcc
- Protection rating against solids or liquids IP…...…..
- Max. pull force ...……..N
- Speed of operation ……mm/sec
- Max. stroke ……..……..mm
- Alternative end-stroke if our is not utilized: _____

  _____

- Description of performance requirements (if possible provide electric scheme): _____

  _____

  _____

Notes / Comments : _____

_____

_____

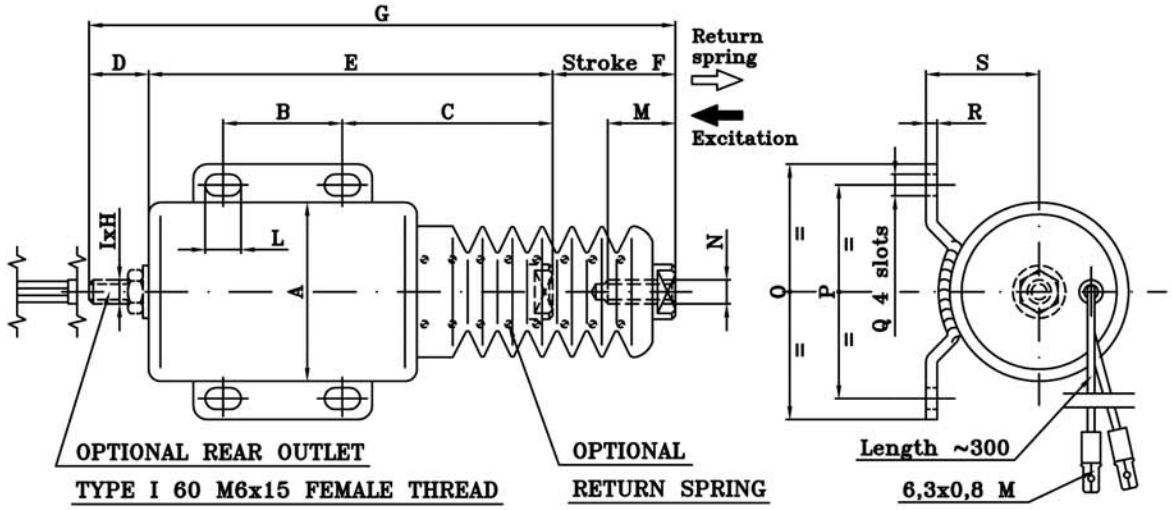
_____

Date: _____/_____/_____ Signature…..……..……

SYSTEM di ROSATI S.r.l. - via Veneto, 24 – 60030 Monsano – AN – Italy Tel.:+39.0731.605631 – **Fax.: +39.0731.605641** - Web: www.systemrosati.com - Email: info@systemrosati.com

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

I type Electromagnets



MODEL	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	WEIGHT
I 45	ø45	38	53	15	110	45	170	15	M6	9	20	M6	65	52	6,5	3	26,5	0,9 Kg
I 60	ø60	38	60	—	122	45	—	—	—	11	20	M6	80	63	7	3	34	1,7 Kg
I 80	ø80	65	75,5	20	160,5	45	225,5	20	M8	—	20	M8	101	85	ø9	4	47	3,2 Kg
I 100	ø102	65	79	20	167	45	232	20	M8	—	20	M8	123	105	ø9	4	58	6,3 Kg

Tolerances on the dimensions ±0.7mm

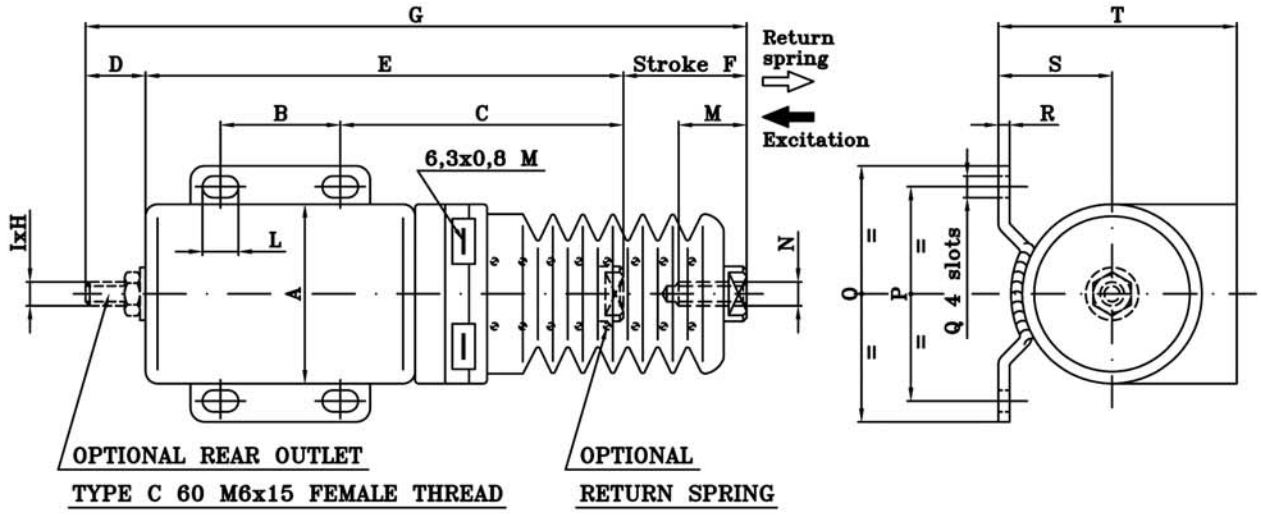
Electromagnets type I technical specifications

MODEL	VOLTAGE Vdc	ABSORPTION Amp.	ABSORPTION Watt	DUTY %ED	IP PROTECTION	STROKE mm	SPRING PRELOAD stroke start	SPRING PRELOAD end of stroke	FORCE AT (without spring) stroke start	FORCE AT (without spring) 6mm into stroke
I 45	12	24	288	Intermit.	45	45	5 N	36 N	30 N	150 N
	24	16	384							
I 60	12	44	528	Intermit.	45	45	22 N	54 N	80 N	190 N
	24	18,4	442							
I 80	12	32.4	389	Intermit.	45	45	13 N	140 N	130 N	350 N
	24	17,1	410							
I 100	12	26,6	319	Intermit.	45	45	60 N	240 N	200 N	550 N
	24	18	432							

Electromagnets with a rear outlet have an IP40 protection.
The forces indicated above refer to a single work cycle at a temperature of 20°C.
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY – Via Veneto n. 24
Tel. ++39.0731.605631 – Fax ++39.0731.605641
http://www.systemrosati.com – E-mail:info@systemrosati.com

C type Electromagnets



MODEL	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	T	WEIGHT
C 45	ø45	38	76	15	133	45	193	15	M6	9	20	M6	65	52	6,5	3	26,5	58,5	1,1 Kg
C 60	ø60	38	83	—	145	45	—	—	—	11	20	M6	80	63	7	3	34	66	1,8 Kg
C 80	ø80	65	109,5	20	204,5	45	269,5	20	M8	—	20	M8	101	85	ø9	4	47	—	3,4 Kg
C 100	ø102	65	123	20	211	45	276	20	M8	—	20	M8	123	105	ø9	4	58	—	6,5 Kg

Tolerances on the dimensions ±0.7mm

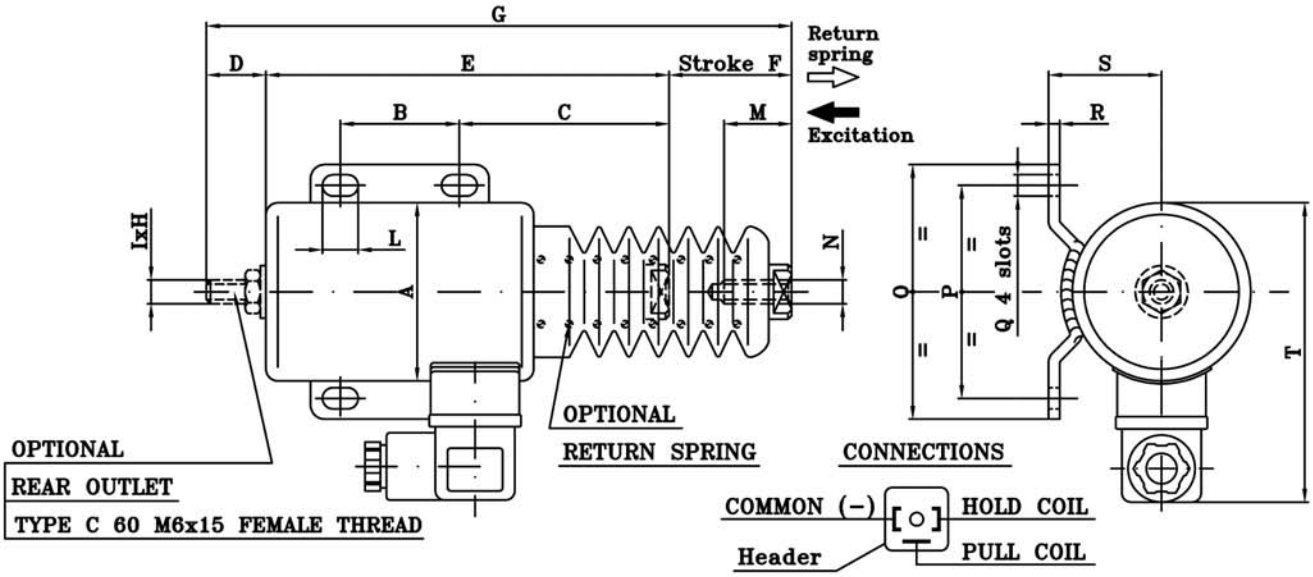
Electromagnets type C technical specifications

MODEL	VOLTAGE Vdc	PULL COIL ABSORPTION Amp.	PULL COIL ABSORPTION Watt	HOLD COIL ABSORPTION Amp.	HOLD COIL ABSORPTION Watt	PULL COIL DUTY %ED	HOLD COIL DUTY %ED	IP PROTECTION	STROKE mm	SPRING PRELOAD stroke start	SPRING PRELOAD end of stroke	FORCE (without spring) stroke start	FORCE (without spring) holding
C 45	12	37	444	0,6	7,2	Intermit.	100%	45	45	8 N	45 N	25 N	180 N
	24	15	360	0,37	8,8								
C 60	12	50	600	0,65	7,9	Intermit.	100%	45	45	10 N	60 N	80 N	300 N
	24	20,3	488	0,34	8,2								
C 80	12	30	360	0,7	8,4	Intermit.	100%	45	45	12 N	140 N	100 N	440 N
	24	21,8	523	0,3	7,2								
C 100	12	30	360	0,6	7,2	Intermit.	100%	45	45	12 N	140 N	180 N	600 N
	24	17,1	410	0,35	8,4								

Electromagnets with a rear outlet have an IP40 protection.
The forces indicated above refer to a single work cycle at a temperature of 20°C.
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

CI type Electromagnets



MODEL	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	T	WEIGHT
CI 45	ø45	38	53	15	110	45	170	15	M6	9	20	M6	65	52	6,5	3	26,5	85	0,9 Kg
CI 60	ø60	38	60	—	122	45	—	—	—	11	20	M6	80	63	7	3	34	100	1,7 Kg
CI 80	ø80	65	75,5	20	160,5	45	225,5	20	M8	—	20	M8	101	85	ø9	4	47	120	3,2 Kg
CI 100	ø102	65	79	20	167	45	232	20	M8	—	20	M8	123	105	ø9	4	58	142	6,3 Kg

Tolerances on the dimensions ±0.7mm

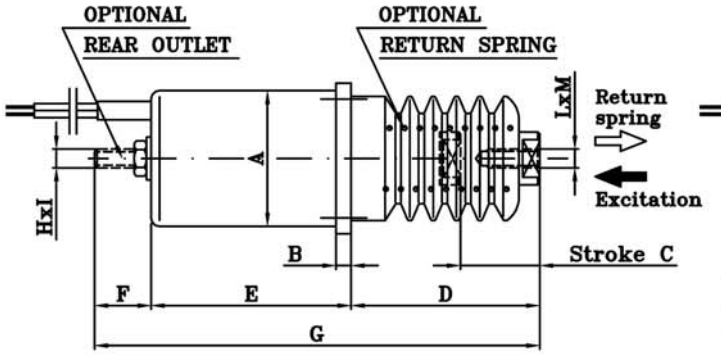
Electromagnets type CI technical specifications

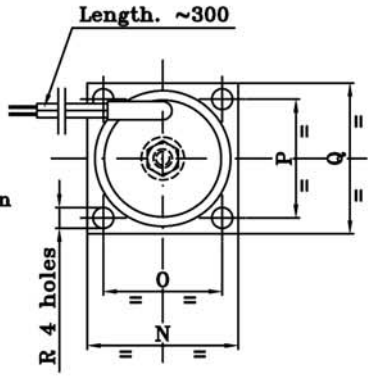
MODEL	VOLTAGE Vdc	PULL COIL ABSORPTION Amp.	PULL COIL ABSORPTION Watt	HOLD COIL ABSORPTION Amp.	HOLD COIL ABSORPTION Watt	PULL COIL DUTY %ED	HOLD COIL DUTY %ED	IP PROTECTION	STROKE mm	SPRING PRELOAD stroke start	SPRING PRELOAD end of stroke	FORCE (without spring) stroke start	FORCE (without spring) holding
CI 45	12	37	444	0,6	7,2	Intermit.	100%	45	45	5 N	36 N	25 N	210 N
	24	15	360	0,37	8,8								
CI 60	12	42,8	514	0,7	8,4	Intermit.	100%	45	45	22 N	54 N	70 N	250 N
	24	20,3	488	0,36	8,6								
CI 80	12	30	360	0,7	8,4	Intermit.	100%	45	45	13 N	140 N	100 N	470 N
	24	21,8	523	0,3	7,2								
CI 100	12	30	360	0,6	7,2	Intermit.	100%	45	45	60 N	240 N	180 N	630 N
	24	17,1	410	0,35	8,4								

Electromagnets with a rear outlet have an IP40 protection.
The forces indicated above refer to a single work cycle at a temperature of 20°C.
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

36 model Electromagnets





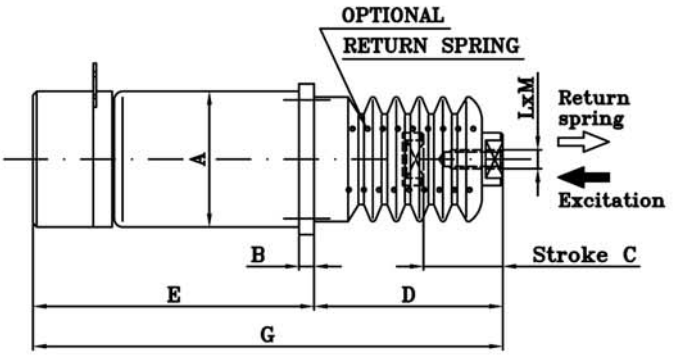
Type I 36

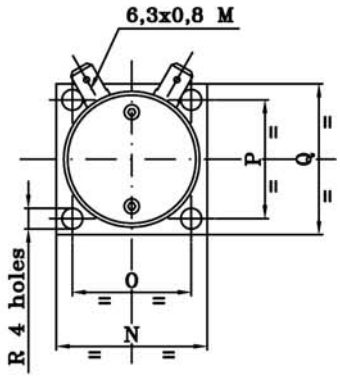
2 WIRES

Type CI 36

3 WIRES:

RED:.....PULL COIL
BLACK:.....COMMON (-)
WHITE:.....HOLD COIL





Type C 36

TYPE	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	WEIGHT
I 36	ø36	4	20	50	53	15	118	M5	15	M5	15	40	31,5	31,5	40	ø5,3	0,4 Kg
C 36	ø36	4	20	50	74,5	—	124,5	—	—	M5	15	40	31,5	31,5	40	ø5,3	0,5 Kg
CI 36	ø36	4	20	50	53	15	118	M5	15	M5	15	40	31,5	31,5	40	ø5,3	0,4 Kg

Tolerances on the dimensions ±0.6mm

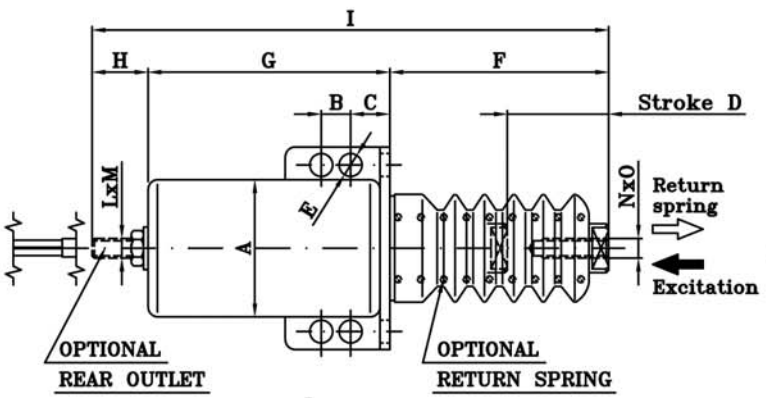
Electromagnets model 36 technical specifications

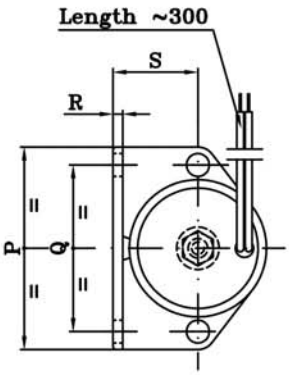
TYPE	VOLTAGE Vdc	PULL COIL ABSORPTION Amp.	PULL COIL ABSORPTION Watt	HOLD COIL ABSORPTION Amp.	HOLD COIL ABSORPTION Watt	PULL COIL DUTY %ED	HOLD COIL DUTY %ED	IP PROTECTION	STROKE mm	SPRING PRELOAD stroke start	SPRING PRELOAD end of stroke	FORCE (without spring) stroke start	FORCE (without spring) 5mm into stroke	FORCE (without spring) holding
I 36	12	48	576	——	——	Intermit.	——	45	20	23 N	51 N	60 N	150 N	——
	24	25.3	606	——	——									
C 36	12	60	720	0,4	4,8	Intermit.	100%	45	20	23 N	51 N	50 N	——	120 N
	24	30	720	0,2	4,8									
CI 36	12	60	720	0,4	4,8	Intermit.	100%	45	20	23 N	51 N	50 N	——	130 N
	24	30	720	0,2	4,8									

Electromagnets with a rear outlet have an IP40 protection.
The forces indicated above refer to a single work cycle at a temperature of 20°C.
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY – Via Veneto n. 24
Tel. ++39.0731.605631 – Fax ++39.0731.605641
http://www.systemrosati.com – E-mail:info@systemrosati.com

42 model Electromagnets





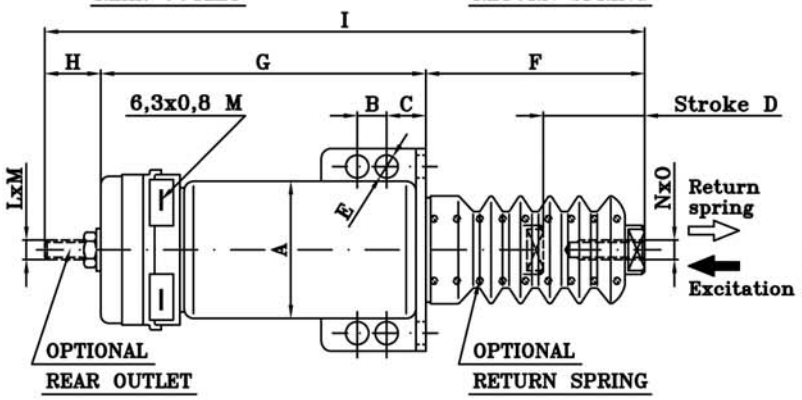
Type I 42

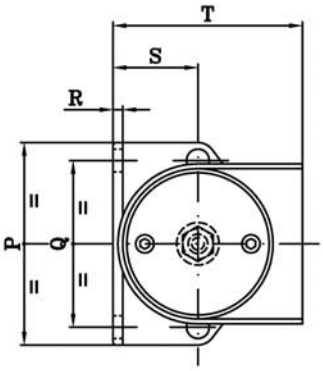
2 WIRES

Type CI 42

3 WIRES:

RED:.....PULL COIL
BLACK:.....COMMON (–)
WHITE:.....HOLD COIL





Type C 42

TYPE	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	T	WEIGHT
I 42	ø42	9	12	30	ø7	67	74	15	156	M6	15	M6	20	62	51	3	26	—	0,8 Kg
C 42	ø42	9	12	30	ø7	67	99,5	15	181,5	M6	15	M6	20	62	51	3	26	58	0,9 Kg
CI 42	ø42	9	12	30	ø7	67	74	15	156	M6	15	M6	20	62	51	3	26	—	0,8 Kg

Tolerances on the dimensions ±0.7mm

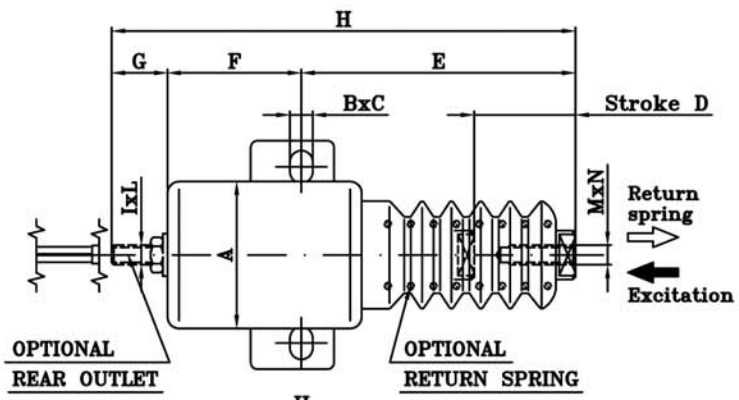
Electromagnets model 42 technical specifications

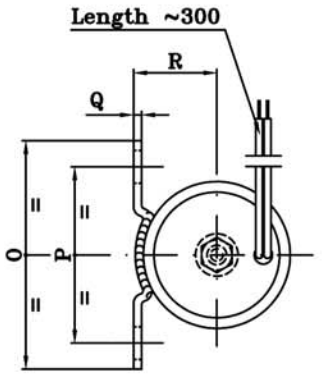
TYPE	VOLTAGE Vdc	PULL COIL ABSORPTION Amp.	PULL COIL ABSORPTION Watt	HOLD COIL ABSORPTION Amp.	HOLD COIL ABSORPTION Watt	PULL COIL DUTY %ED	HOLD COIL DUTY %ED	IP PROTECTION	STROKE mm	SPRING PRELOAD stroke start	SPRING PRELOAD end of stroke	FORCE (without spring) stroke start	FORCE (without spring) 5mm into stroke	FORCE (without spring) holding
I 42	12	25,5	306	——	——	Intermit.	——	45	30	6 N	33 N	40 N	100 N	——
	24	17,9	430	——	——									
C 42	12	30	360	0,5	6,2	Intermit.	100%	45	30	6 N	33 N	40 N	——	120 N
	24	15,4	370	0,27	6,4									
CI 42	12	30	360	0,5	6,2	Intermit.	100%	45	30	6 N	33 N	40 N	——	150 N
	24	15,4	370	0,27	6,4									

Electromagnets with a rear outlet have an IP40 protection.
The forces indicated above refer to a single work cycle at a temperature of 20°C.
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

456 model Electromagnets





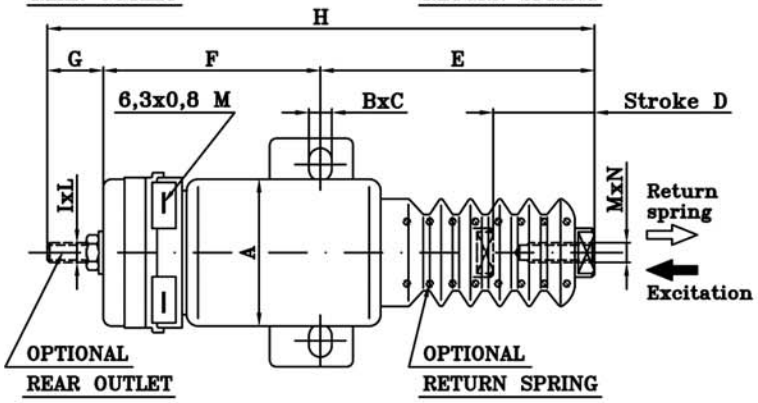
Type I 456

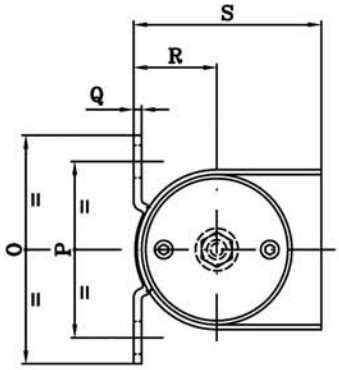
2 WIRES

Type CI 456

3 WIRES:

RED:.....PULL COIL
BLACK:.....COMMON (-)
WHITE:.....HOLD COIL





Type C 456

TYPE	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	WEIGHT
I 456	ø45	7	10	26	83	41	15	139	M6	15	M6	20	70	54	2,5	25,5	—	0,7 Kg
C 456	ø45	7	10	26	83	66,5	15	164,5	M6	15	M6	20	70	54	2,5	25,5	57,5	0,8 Kg
CI 456	ø45	7	10	26	83	41	15	139	M6	15	M6	20	70	54	2,5	25,5	—	0,7 Kg

Tolerances on the dimensions ±0.6mm

Electromagnets model 456 technical specifications

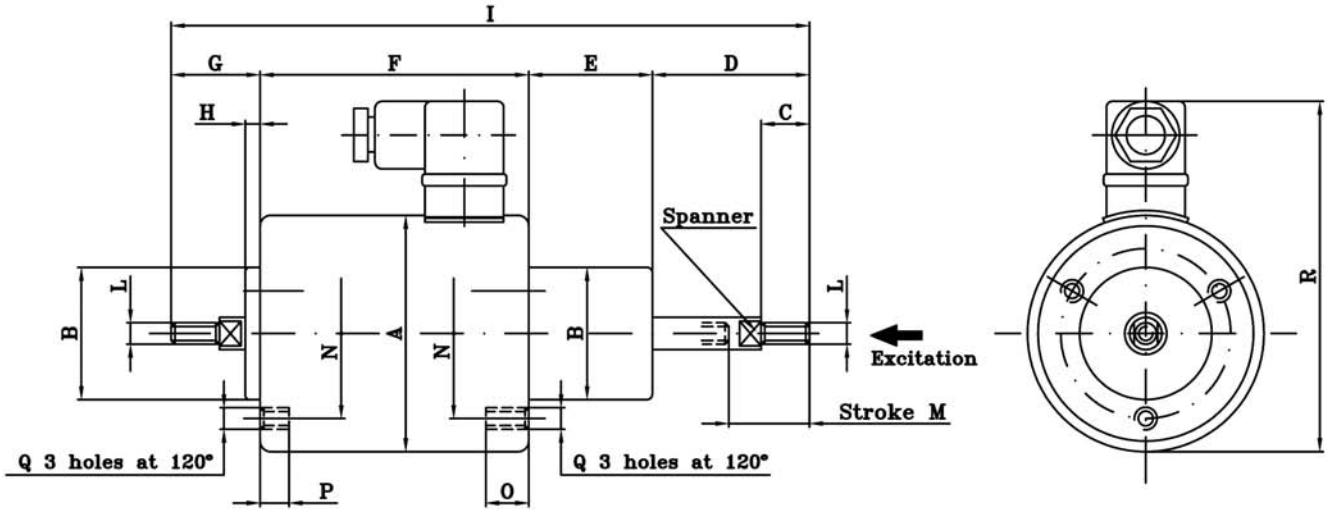
TYPE	VOLTAGE Vdc	PULL COIL ABSORPTION Amp.	PULL COIL ABSORPTION Watt	HOLD COIL ABSORPTION Amp.	HOLD COIL ABSORPTION Watt	PULL COIL DUTY %ED	HOLD COIL DUTY %ED	IP PROTECTION	STROKE mm	SPRING PRELOAD stroke start	SPRING PRELOAD end of stroke	FORCE (without spring) stroke start	FORCE (without spring) 5mm into stroke	FORCE (without spring) holding
I 456	12	28,5	342	——	——	Intermit.	——	45	26	24 N	46 N	75 N	145 N	——
	24	14,3	343	——	——									
C 456	12	44	528	0,55	6,6	Intermit.	100%	45	26	24 N	46 N	75 N	——	140 N
	24	20,5	492	0,37	8,8									
CI 456	12	44	528	0,55	6,6	Intermit.	100%	45	26	24 N	46 N	75 N	——	170 N
	24	20,5	492	0,37	8,8									

Electromagnets with a rear outlet have an IP40 protection.
The forces indicated above refer to a single work cycle at a temperature of 20°C.
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

Member of CISQ Federation
RINA ISO 9001:2000 Certified Quality System

CS type Electromagnets



MODEL	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	SPANNER	WEIGHT
CS 45	ø45	ø25	10	31.5	26	58	13	1	128,5	M5	20	ø34	7,5	4,5	M4	85	—	0,7 Kg
CS 50	ø50	ø25	10	31,5	27	71	12,5	1	142	M6	20	ø35	7,5	4,5	M5	90	—	1,0 Kg
CS 60	ø60	ø34	15	46,5	34	85	23,5	2	189	M6	25	ø45	8,5	5,5	M5	100	6	1,8 Kg
CS 70	ø70	ø40	15	46	37	76	27	6	186	M6	25	ø52	7,5	7,5	M5	110	8	2,4 Kg
CS 80	ø80	ø44	15	50,5	42.5	102	22,5	2	217,5	M8	30	ø62	10,5	10,5	M6	120	8	3,5 Kg
CS 100	ø100	ø60	20	61,5	44	110,5	46,5	15	262,5	M10	30	ø76	12,5	12,5	M6	140	12	7,0 Kg

Tolerances on the dimensions ±0.7mm

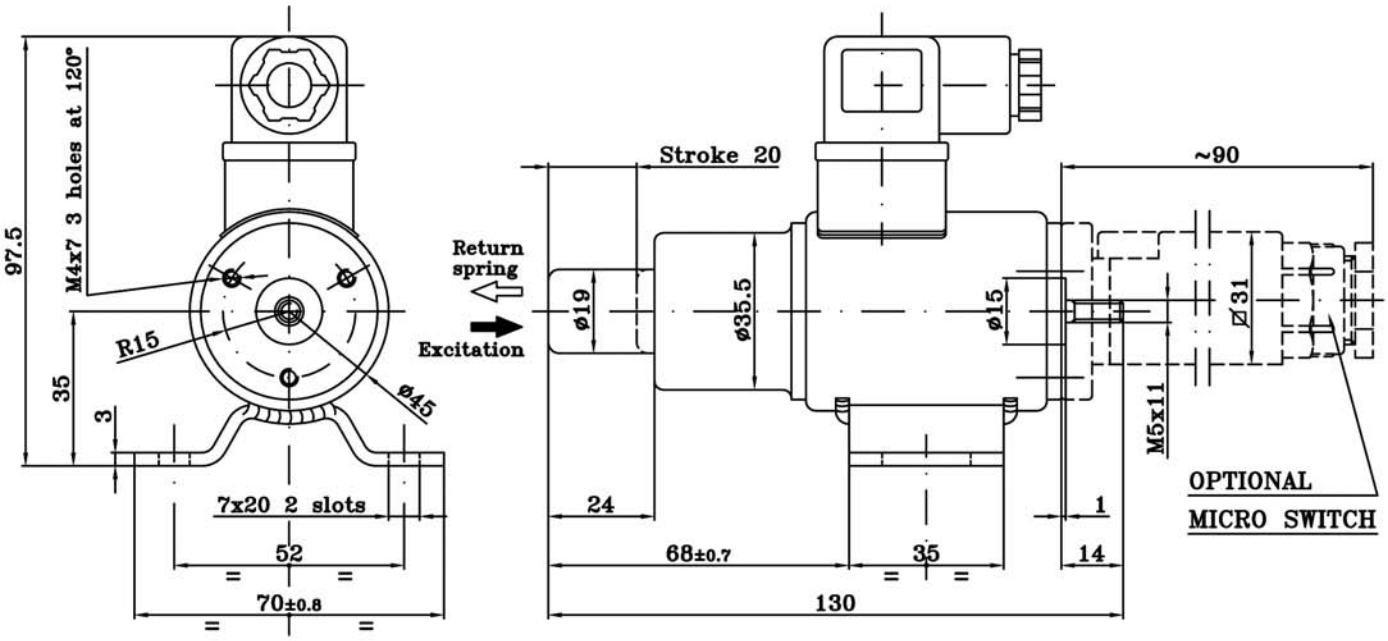
Electromagnets type CS technical specifications

MODEL	VOLTAGE Vdc	ABSORPTION Amp.	ABSORPTION Watt	DUTY %ED	IP PROTECTION	STROKE mm	CONSTANT FORCE OF Traction/Thrust	TEMPERATURE REACHED WITH ED-100% Duty Cycle
CS 45	12	2,2	26	100%	40	20	19 N	90 °C
	24	1,2	28,8	100%				
CS 50	12	1,26	15,2	100%	40	20	25 N	90 °C
	24	1,1	26	100%				
CS 60	12	2,5	30,6	100%	40	25	40 N	90 °C
	24	1,65	39,7	100%				
CS 70	12	3,0	36	100%	40	25	50 N	90 °C
	24	2,1	50	100%				
CS 80	12	3,8	46	100%	40	30	85 N	90 °C
	24	1,5	37	100%				
CS 100	12	5,2	62	100%	40	30	120 N	90 °C
	24	2,5	61,3	100%				

The forces indicated above refer to a single work cycle at a temperature of 20°C.
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY – Via Veneto n. 24
Tel. ++39.0731.605631 – Fax ++39.0731.605641
http://www.systemrosati.com – E-mail:info@systemrosati.com

CS 45 CH model Electromagnet



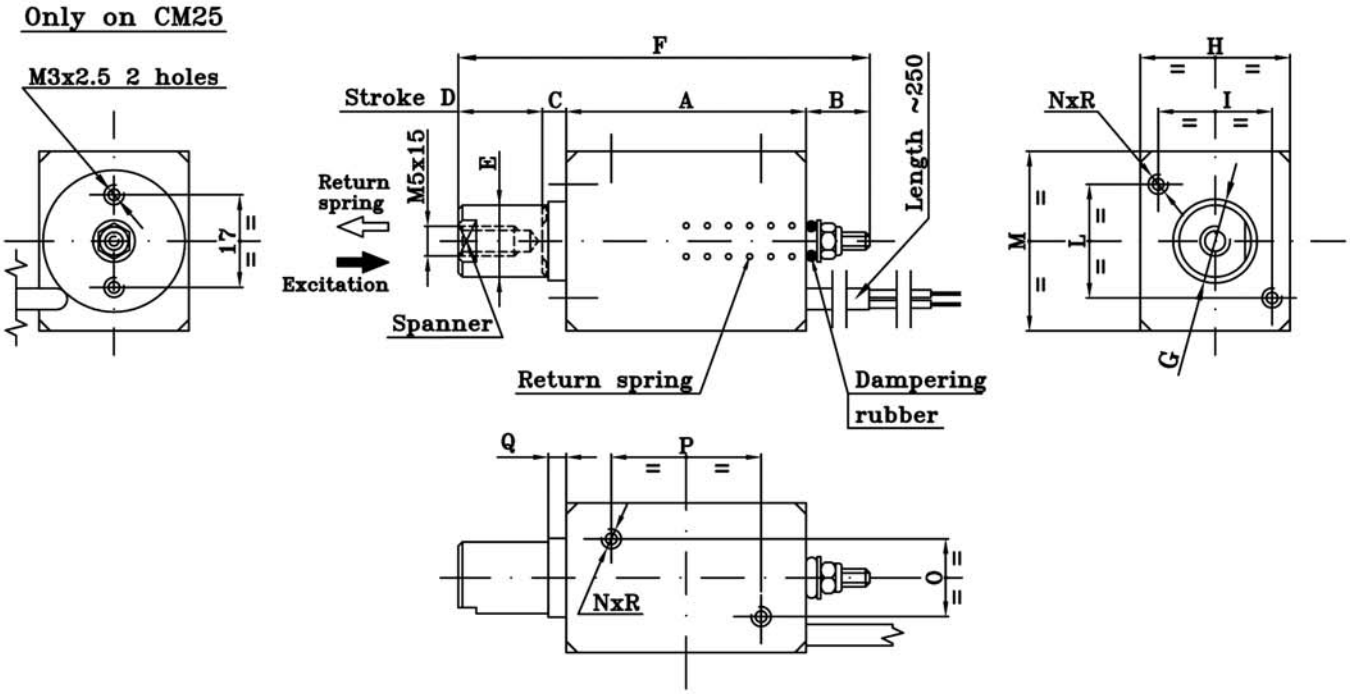
Tolerances on the dimensions ±0.6mm

ELECTROMAGNET TECHNICAL SPECIFICATIONS		
• Voltage	Vdc	12
• Absorbed current	Amp.	2.2
• Absorbed power	Watt	26.4
• Voltage	Vdc	24
• Absorbed current	Amp.	1.2
• Absorbed power	Watt	28.8
• Stroke	mm	20
• Constant force of traction/thrust (with spring)	N	13
• Spring preload at start of work stroke	N	5.5
• Spring preload at end of work stroke	N	11
• Duty	ED%	100%
• Working temperature reached with a 100% duty cycle	°C	90
• Protection class	IP	40
• Total weight	Kg	0.85

The forces indicated above refer to a single work cycle at a temperature of 20°C.
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

CM type Electromagnets



MODEL	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	SPANNER	WEIGHT
CM 25	40	8,5	4	12	ø12	64,5	ø13	25	19	19	30	M3	13	25	3	3	11	0,22 Kg
CM 30	50	13,5	13,5	12	ø12	89	ø13	30	20	20	30	M3	20	35	5	3	10	0,30 Kg
CM 40	50	12	11	12	ø14,7	85	ø24	35	—	—	40	M4	25	35	9	3	13	0,50 Kg

Tolerances on the dimensions ±0.6mm

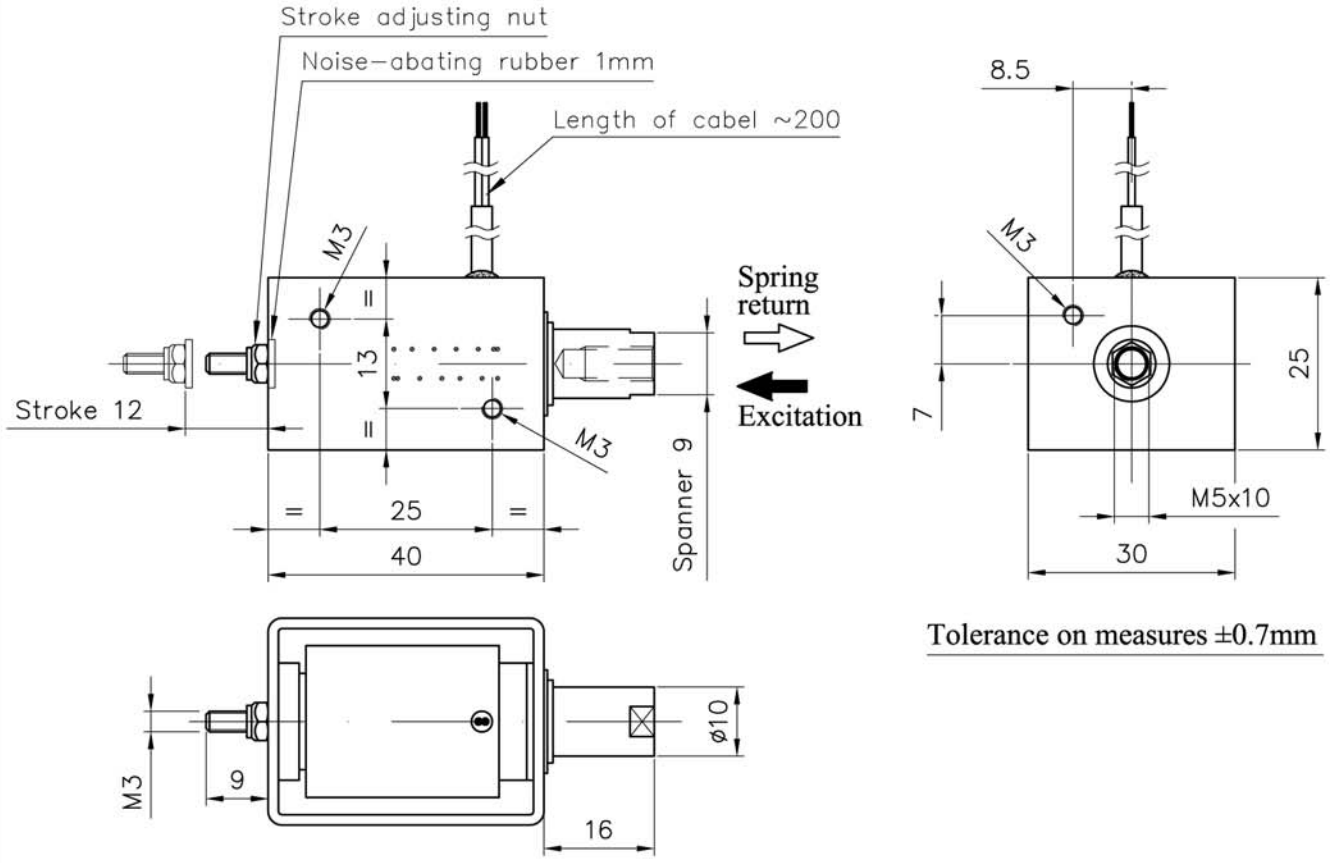
Electromagnets type CM technical specifications

MODEL	VOLTAGE Vdc	ABSORPTION Amp.	ABSORPTION Watt	DUTY %ED	IP PROTECTION	STROKE mm	SPRING PRELOAD stroke start	SPRING PRELOAD end of stroke	CONSTANT FORCE OF Traction/Thrust (with spring)	TEMPERATURE REACHED WITH ED-100% Duty Cycle
CM 25	12	0,85	10	100%	40	12	0,7 N	2,0 N	3 N	90 °C
	24	0,63	15	100%						
CM 30	12	0,97	11,7	100%	40	12	1,5 N	3,5 N	6 N	90 °C
	24	0,48	11,5	100%						
CM 40	12	1,5	18	100%	40	12	1,9 N	5,0 N	13 N	90 °C
	24	0,75	18	100%						

The forces indicated above refer to a single work cycle at a temperature of 20°C.
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

Electromagnet type CM 25 OPEN FRAME



Tolerance on measures ±0.7mm

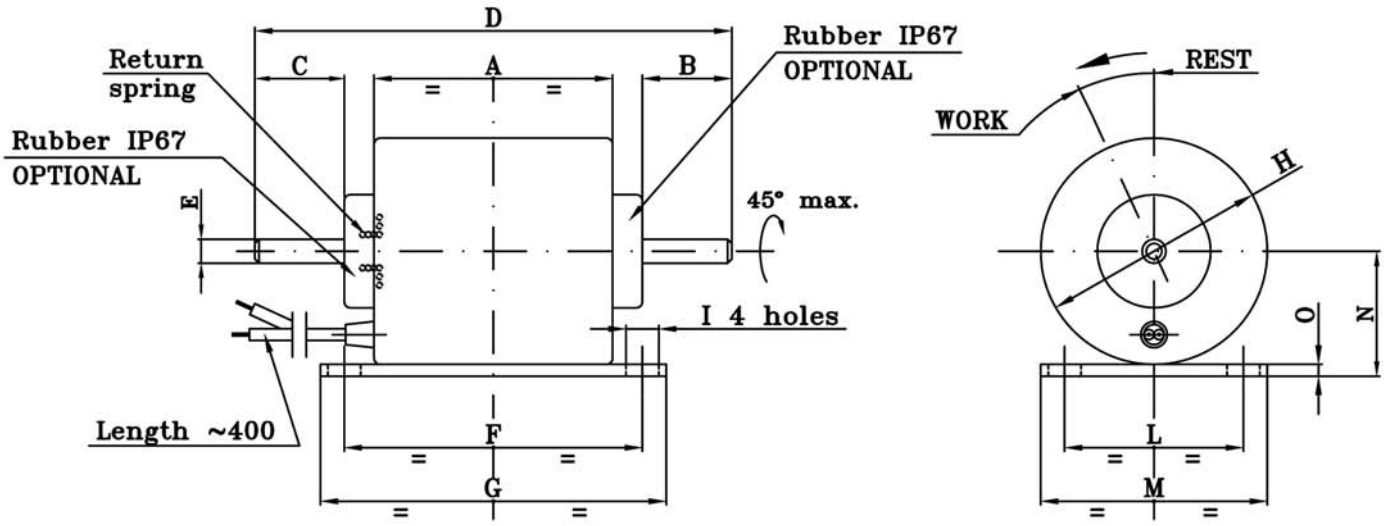
ELECTROMAGNET TECHNICAL SHEET CM25SY6V12c - CM25SY6V24c			
• Rated power supply	Vdc	12	24
• Coil absorption at 20°C	Amp.	1	0.5
• Coil power at 20°C	Watt	12	12
• Working stroke	mm	12	
• Max Pull/Thrust force with spring at 20°C	N	3	
• Spring preloading at beginning of working stroke	N	1	
• Coil service at 20°C	ED%	100	
• Protection degree	IP	30	
• Total weight of electromagnet	Kg	0.102	
• Working temperature with 20°C room temperature	°C	~80÷90	
• Coil insulation	Cl. H-200°C		

ELECTROMAGNET TECHNICAL SHEET CM25SY7V12c - CM25SY7V24c			
• Rated power supply	Vdc	12	24
• Coil absorption at 20°C	Amp.	2	1
• Coil power at 20°C	Watt	24	24
• Working stroke	mm	12	
• Max Pull/Thrust force with spring at 20°C	N	6	
• Spring preloading at beginning of working stroke	N	1	
• Coil service at 20°C	ED%	50	
• Protection degree	IP	30	
• Total weight of electromagnet	Kg	0.102	
• Working temperature with 20°C room temperature	°C	~80÷90	
• Coil insulation	Cl. H-200°C		

The forces indicated above refer to a single work cycle at a temperature of 20°C.
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY – Via Veneto n. 24
Tel. ++39.0731.605631 – Fax ++39.0731.605641
http://www.systemrosati.com – E-mail:info@systemrosati.com

CR type Electromagnets



MODEL	A	B	C	D	E	F	G	H	I	L	M	N	O	WEIGHT
CR 35	35	8	8	62	ø5	44	55	ø36	ø5,5	20	35	19,5	1,5	0,26 Kg
CR 42	43	22	22	100	ø5	52	63	ø42	ø5,5	29	42	23	2	0,48 Kg
CR 50	44	13	13	85	ø6	48	60	ø50	ø5,5	35	50	27	2	0,67 Kg
CR 60	51	13	13	91	ø6	58	70	ø60	ø5,5	45	60	33	3	1,10 Kg

Tolerances on the dimensions ±0.6mm

Electromagnets type CR technical specifications

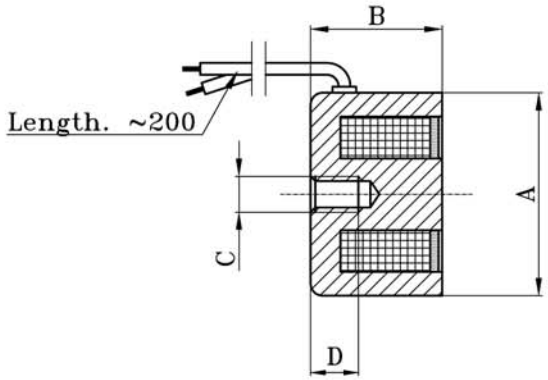
MODEL	VOLTAGE Vdc	ABSORPTION Amp.	ABSORPTION Watt	ON–OFF CYCLE DUTY %ED with 15° rotation	IP PROTECTION	MAX ANGLE OF ROTATION	RATED TORQUE OF THE SPRING (Ncm) stroke start 15°	RATED TORQUE OF THE SPRING (Ncm) end of stroke	RATED TORQUE (with spring) (Ncm) stroke start 15°	RATED TORQUE (with spring) (Ncm) end of stroke
CR 35	24	0,68	16,3	(15 Hz) Intermit.	40 (67 optional)	45°	4	5	6	9
CR 42	24	0,72	17,2	(20 Hz) Intermit.	40 (67 optional)	45°	5	8	7	12
CR 50	24	2,50	60,0	Intermit.	40	45°	7	9	13	20
CR 60	24	1,30	31,2	Intermit.	40	45°	9	11	17	30

Patent 1235846

The electromagnets equipped with side rubbers have an IP67 protection.
The forces indicated above refer to a single work cycle at a temperature of 20°C.
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

CT type Electromagnets



MODEL	A	B	C	D	WEIGHT
CT 35	ø35	22	M6	10	0,16 Kg
CT 45	ø45	30	M8	15	0,29 Kg
CT 55	ø55	30	M8	15	0,44 Kg
CT 65	ø65	33	M10	15	0,67 Kg
CT 95	ø95	35	M12	20	1,60 Kg

Tolerances on the dimensions ±0.7mm

Electromagnets type CT technical specifications

MODEL	VOLTAGE	ABSORPTION		VOLTAGE	ABSORPTION		RETENTION FORCE	DUTY ED%	IP PROTECTION
	VDc	Amp.	Watt	Vcc	Amp.	Watt			
CT 35	12	0.31	3.8	24	0.18	4.4	150 N	100%	65
CT 45	12	0.43	5.2	24	0.17	4.1	290 N	100%	65
CT 55	12	0.34	4.2	24	0.15	3.6	660 N	100%	65
CT 65	12	0.35	4.3	24	0.18	4.4	800 N	100%	65
CT 95	12	0.63	7.6	24	0.3	7.3	1200 N	100%	65

The "retention" force is proportional to the power in Watts of the coil, to the operating temperature, the ED% duty, the size of the electromagnet, and the quality of the "contact" between the electromagnet and the "retained" part.

The forces indicated above refer to a single work cycle at a temperature of 20°C.

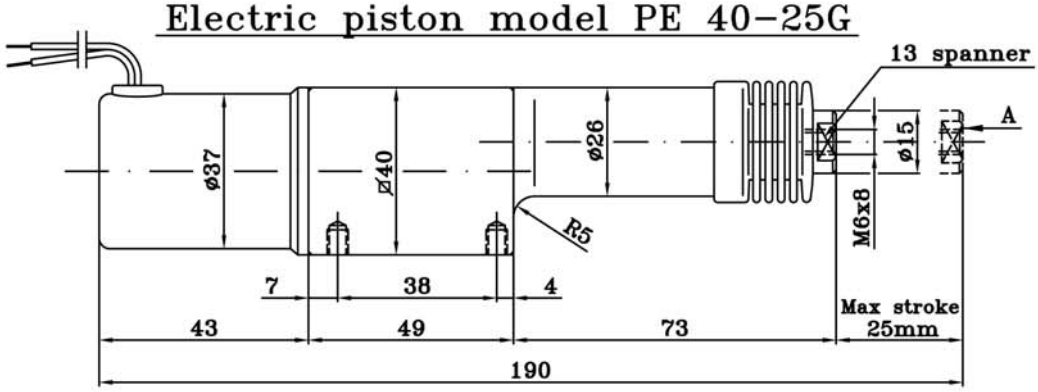
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.

System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.

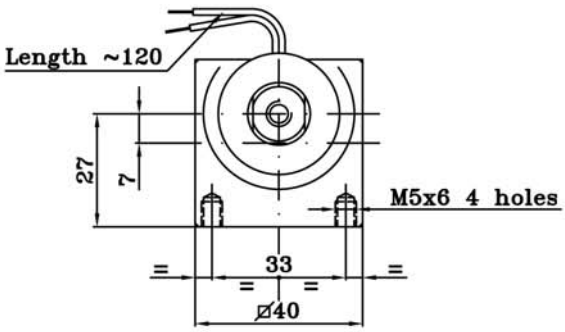
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

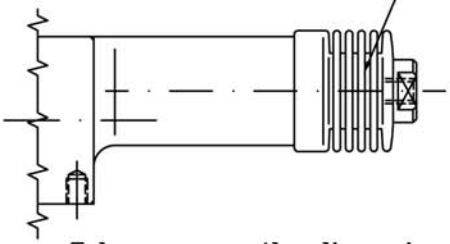
Electric piston model PE 40-25G



VIEW FROM A



RUBBER DUST COVER
Spare part code: 4000009



Tolerances on the dimensions ±0.8mm

Electric piston model PE 40-25G technical specifications

Voltage .....12 Vdc
Absorbed current without load .....0,14 Amp.
Absorbed current with max load of 140N .....0,66 Amp.

Voltage .....24 Vdc
Absorbed current without load .....0,07 Amp.
Absorbed current with max load of 140N .....0,33 Amp.

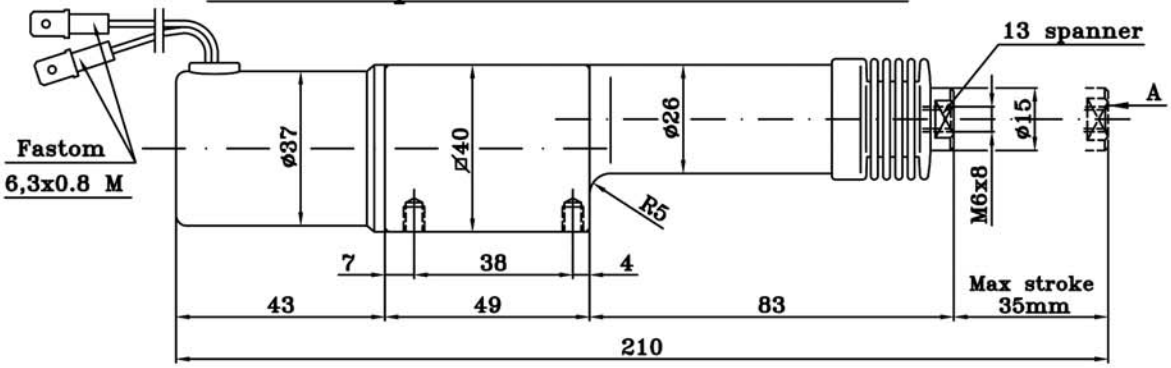
Max stroke .....25 mm
Max power .....8 Watt
Max force of Traction/Thrust .....140 N
Traversing speed without load .....5,8 mm/sec
Traversing speed without load (type B) .....11.6 mm/sec
Protection class .....IP 65
Operating temperature .....from -5°C to +60°C
NOTE: A SPECIFIC REQUEST IS NEEDED FOR TEMPERATURES SUPERIOR TO -5 °C

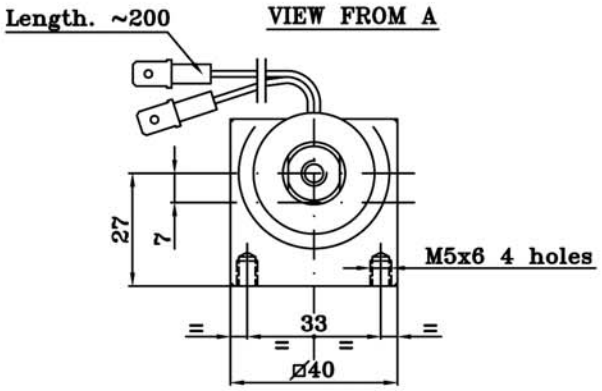
Total weight .....0,5 Kg
ED% duty .....depends on: the operating temperature, load applied, work cycle and supply voltage.

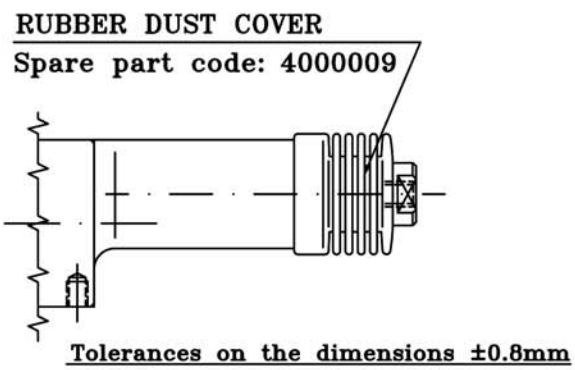
The force indicated above refers to a single work cycle at a temperature of 20°C.
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

Electric piston model PE 40-35G







Tolerances on the dimensions ±0.8mm

Electric piston model PE 40-35G technical specifications

Voltage .....12 Vdc
Absorbed current without load .....0,14 Amp.
Absorbed current with max load of 140N .....0,66 Amp.

Voltage .....24 Vdc
Absorbed current without load .....0,07 Amp.
Absorbed current with max load of 140N .....0,33 Amp.

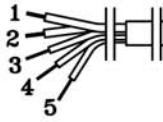
Max stroke .....35 mm
Max power .....8 Watt
Max force of Traction/Thrust .....140 N
Traversing speed without load .....5,8 mm/sec
Traversing speed without load (type B) .....11.6 mm/sec
Protection class .....IP 65
Operating temperature .....from −5°C to +60°C
NOTE: A SPECIFIC REQUEST IS NEEDED FOR TEMPERATURES SUPERIOR TO −5 °C

Total weight .....0,6 Kg
ED% duty .....depends on: the operating temperature, load applied, work cycle and supply voltage.

The force indicated above refers to a single work cycle at a temperature of 20°C. The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY – Via Veneto n. 24
Tel. ++39.0731.605631 – Fax ++39.0731.605641
http://www.systemrosati.com – E-mail:info@systemrosati.com

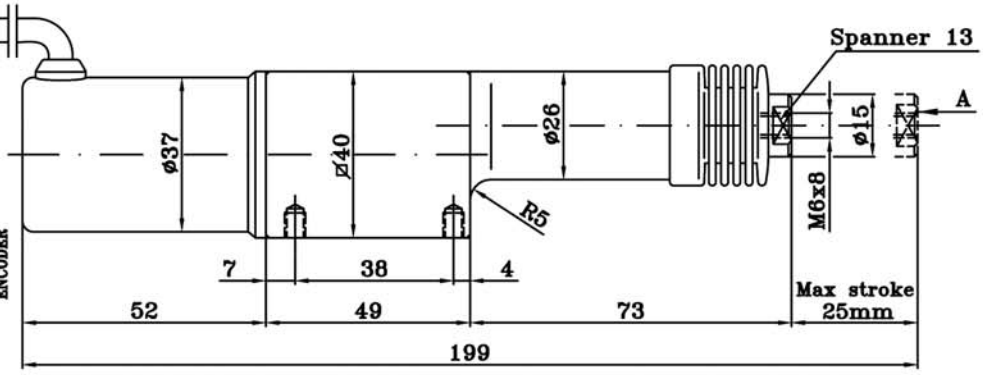
Electric piston model PE 40–25GE (Encoder)



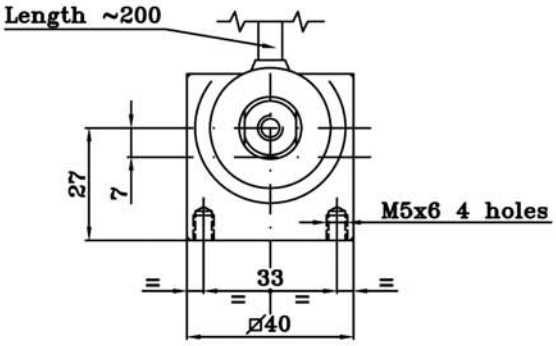
CONNECTIONS:

1–Red	+ motor power supply	
2–Black	– motor power supply	
3–Blue	O.C. Output	
4–Green	GND	
5–Brown	Vdc input	HALL

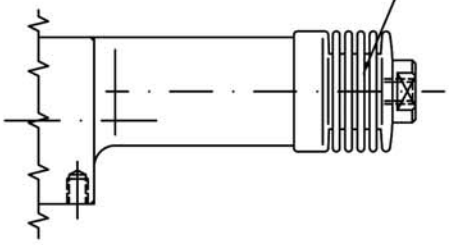
ENCODER



VIEW FROM A



RUBBER DUST COVER
Spare part code: 4000009



Tolerances on the dimensions ±0.8mm

Electric piston model PE 40–25GE (Encoder) technical specifications

Voltage	12 Vdc
Absorbed current without load	0,14 Amp.
Absorbed current with max load of 140N	0,66 Amp.
Voltage	24 Vdc
Absorbed current without load	0,07 Amp.
Absorbed current with max load of 140N	0,33 Amp.
Max stroke	25 mm
Max power	8 Watt
Max force of Traction/Thrust	140 N
Traversing speed without load	5,8 mm/sec
Traversing speed without load (type B)	11.6 mm/sec
Protection class	IP 65
Operating temperature	from –5°C to +60°C

NOTE: A SPECIFIC REQUEST IS NEEDED FOR TEMPERATURES SUPERIOR TO –5 °C

Total weight .....0,6 Kg

ED% Duty .....depends on: the operating temperature, load applied, work cycle and supply voltage.

UNIDIRECTIONAL ENCODER

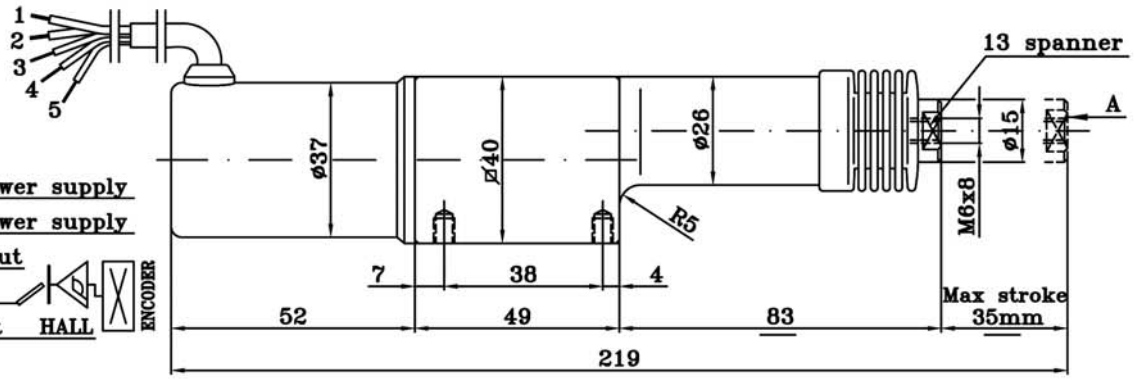
BIDIRECTIONAL ENCODER UPON REQUEST

HALL–EFFECT SWITCHES
SIX–POLE MAGNET
No. of pulses for motor revolution...3
Max speed of motor revolution without load.....6380 rpm
Supply voltage.....4,5÷20 Vdc
Max supply current.....20 mA

The force indicated above refers to a single work cycle at a temperature of 20°C.
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

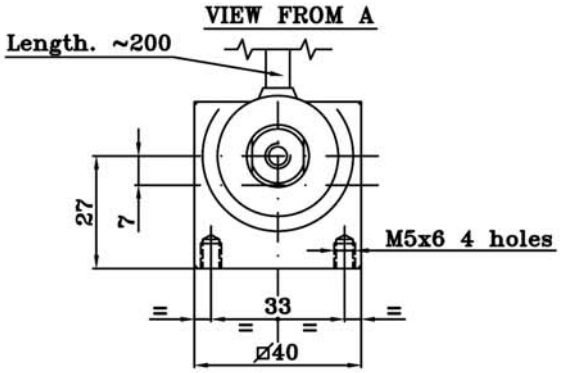
SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY – Via Veneto n. 24
Tel. ++39.0731.605631 – Fax ++39.0731.605641
http://www.systemrosati.com – E-mail:info@systemrosati.com

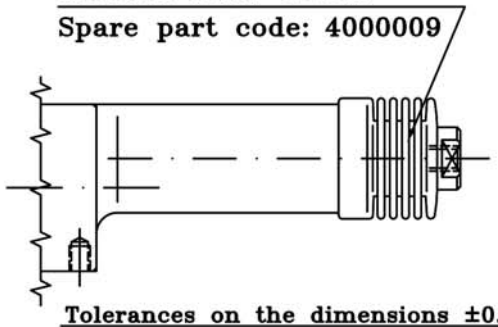
Electric piston model PE 40–35GE (Encoder)



CONNECTIONS:

1–Red	+ motor power supply	
2–Black	– motor power supply	
3–Blue	O.C. Output	
4–Green	GND	
5–Brown	Vdc input	HALL





Tolerances on the dimensions ±0.8mm

Electric piston model PE 40–35GE (Encoder) technical specifications

Voltage .....12 Vdc
Absorbed current without load .....0,14 Amp.
Absorbed current with max load of 140N .....0,66 Amp.

Voltage .....24 Vdc
Absorbed current without load .....0,07 Amp.
Absorbed current with max load of 140N .....0,33 Amp.

Max stroke .....35 mm
Max power .....8 Watt
Max force of Traction/Thrust .....140 N
Traversing speed without load .....5,8 mm/sec
Traversing speed without load (type B) .....11.6 mm/sec
Protection class .....IP 65
Operating temperature .....from –5°C to +60°C
NOTE: A SPECIFIC REQUEST IS NEEDED FOR TEMPERATURES SUPERIOR TO –5 °C

Total weight .....0,6 Kg
ED% duty .....depends on: the operating temperature, load applied, work cycle and supply voltage.

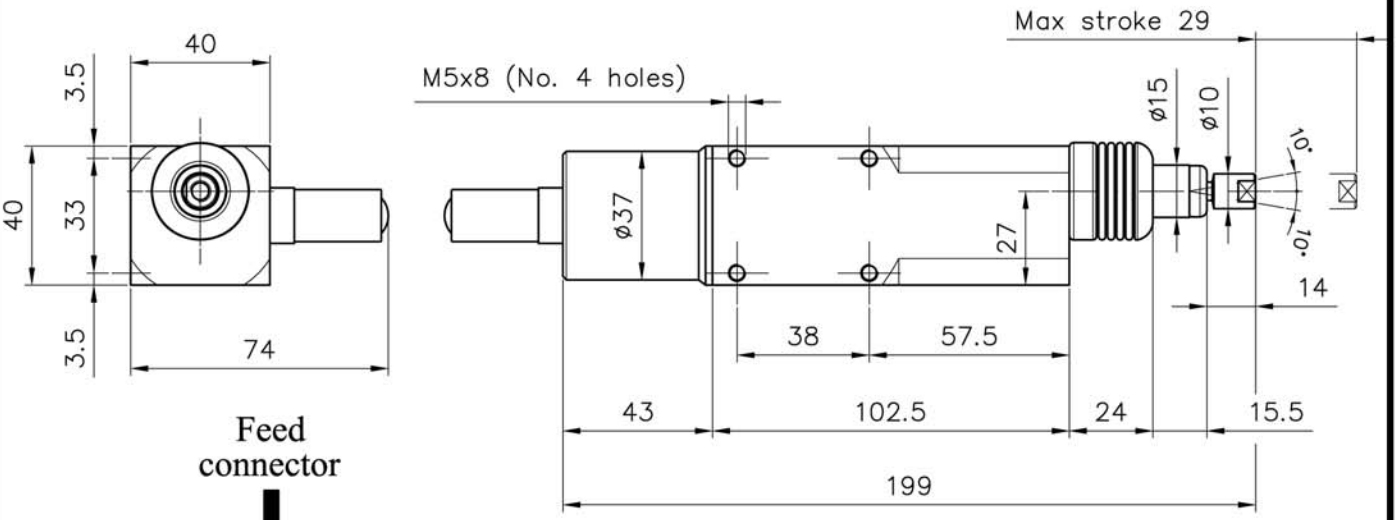
UNIDIRECTIONAL ENCODER
BIDIRECTIONAL ENCODER UPON REQUEST

HALL–EFFECT SWITCHES
SIX–POLE MAGNET
No. of pulses for motor revolution...3
Max speed of motor revolution without load.....6380 rpm
Supply voltage.....4,5÷20 Vdc
Max supply current.....20 mA

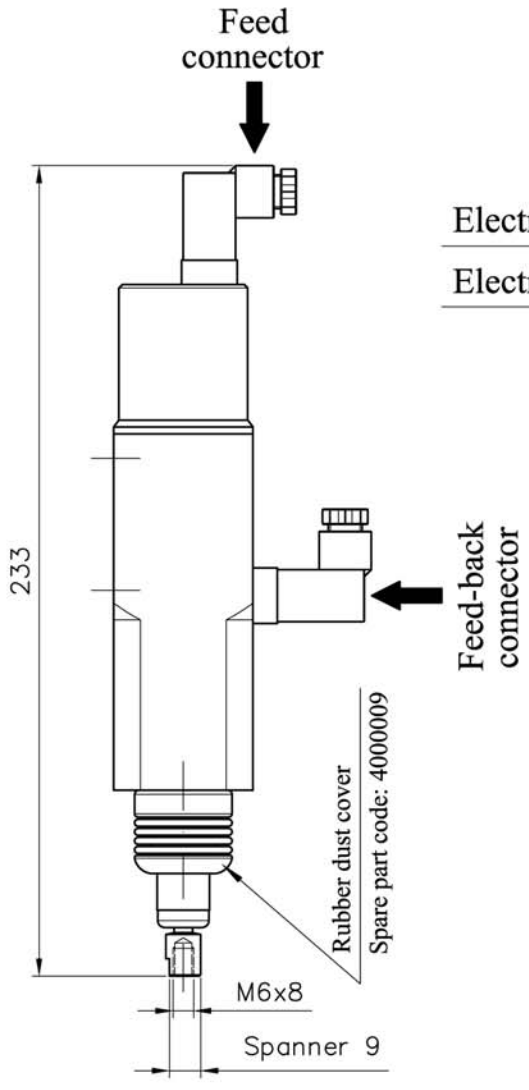
The force indicated above refers to a single work cycle at a temperature of 20°C.
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

Electric piston model PE 40-30GPA
Electric piston model PE 40-30GPB



Tolerances on the dimensions ±0,8mm



Electric piston model PE 40-30GPA technical specifications
Electric piston model PE 40-30GPB technical specifications

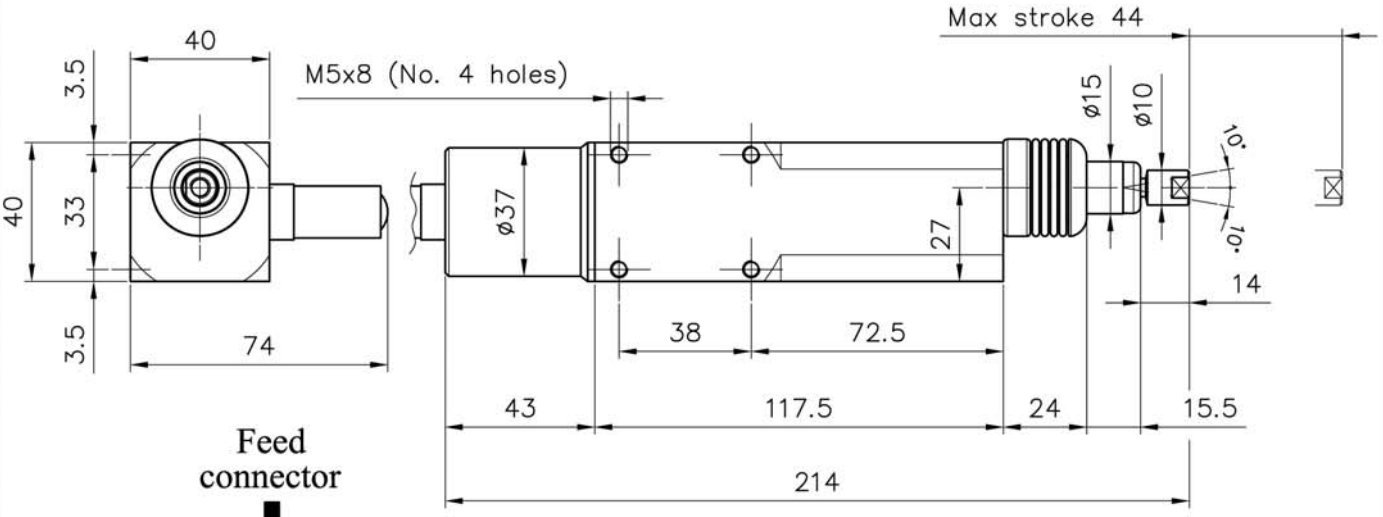
Voltage	12 Vdc
Absorbed current without load	0.14 Amp.
Absorbed current with max load of 140N	0.66 Amp.
Voltage	24 Vdc
Absorbed current without load	0.07 Amp.
Absorbed current with max load of 140N	0.33 Amp.
Max power	8 Watt
Max stroke	29 mm
Traversing speed without load (type A)	5.8 mm/sec.
Traversing speed without load (type B)	11.6 mm/sec.
Max force of Traction/Thrust	140 N
Feed-Back Potentiometer	10 Kohm
Protection class	IP 65
Operating temperature	from -5°C to +60°C
NOTE: A SPECIFIC REQUEST IS NEEDED FOR TEMPERATURES SUPERIOR TO -5 °C	
Total weight	0.6 Kg
ED% duty	depends on: the operating temperature, load applied work cycle and supply voltage.

The force indicated above refers to a single work cycle at a temperature of 20°C.
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

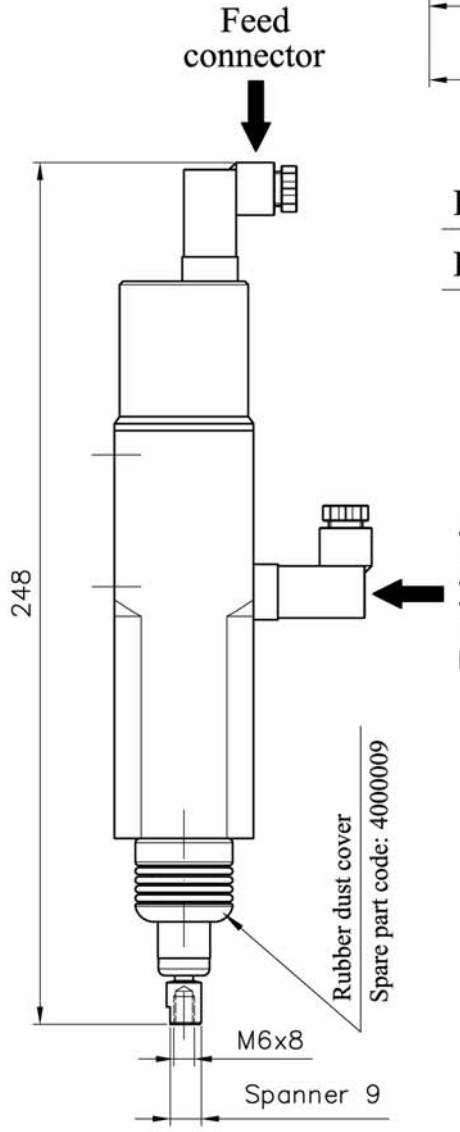
SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

Member of CISQ Federation
RINA ISO 9001:2000 Certified Quality System

Electric piston model PE 40-45GPA
Electric piston model PE 40-45GPB



Tolerances on the dimensions ±0,8mm



Electric piston model PE 40-45GPA technical specifications
Electric piston model PE 40-45GPB technical specifications

Voltage	12 Vdc
Absorbed current without load	0.14 Amp.
Absorbed current with max load of 140N	0.66 Amp.
Voltage	24 Vdc
Absorbed current without load	0.07 Amp.
Absorbed current with max load of 140N	0.33 Amp.
Max power	8 Watt
Max stroke	44 mm
Traversing speed without load (type A)	5.8 mm/sec.
Traversing speed without load (type B)	11.6 mm/sec.
Max force of Traction/Thrust	140 N
Feed-Back Potentiometer	10 Kohm
Protection class	IP 65
Operating temperature	from -5°C to +60°C

NOTE: A SPECIFIC REQUEST IS NEEDED FOR TEMPERATURES SUPERIOR TO -5 °C

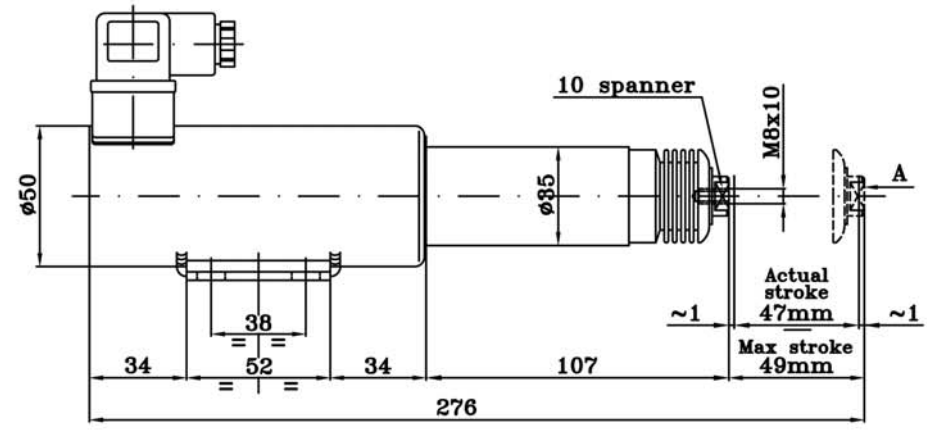
Total weight..... 0.6 Kg

ED% duty.....depends on: the operating temperature, load applied work cycle and supply voltage.

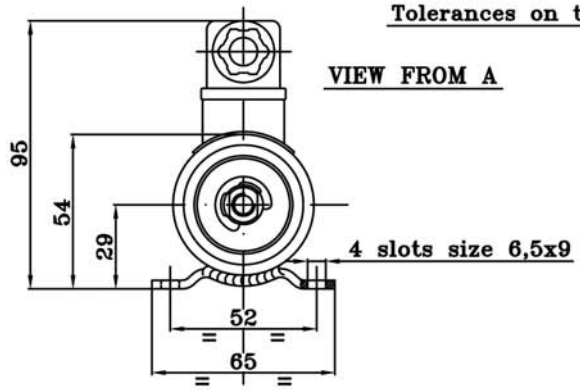
The force indicated above refers to a single work cycle at a temperature of 20°C.
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

Electric piston model PE 50-50



Tolerances on the dimensions ±0.8mm



Electric piston model PE 50-50 technical specifications

Voltage	12 Vdc
Max absorbed current	8 Amp.
Voltage	24 Vdc
Max absorbed current	4 Amp.
Max power	96 Watt
Max force of Traction/Thrust	300 N
Traversing speed without load	37 mm/sec
Traversing speed without load (type B)	74 mm/sec
Stroke	MAX 49 mm .....ACTUAL 47 mm
Protection class	IP 65
Operating temperature	from −5°C to +60°C

NOTE: A SPECIFIC REQUEST IS NEEDED FOR TEMPERATURES SUPERIOR TO −5 °C

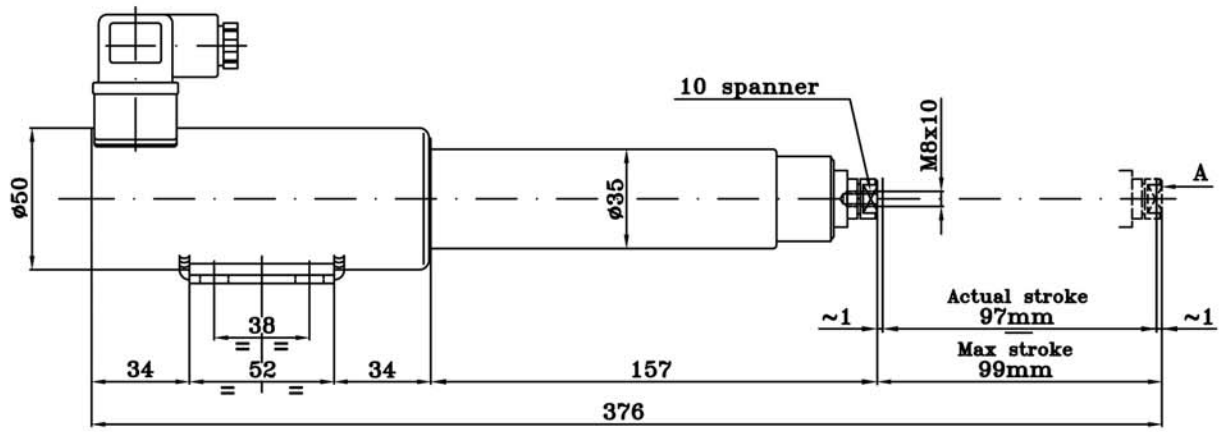
Total weight .....1,6 Kg

ED% duty .....depends on: the operating temperature, load applied, work cycle and supply voltage.

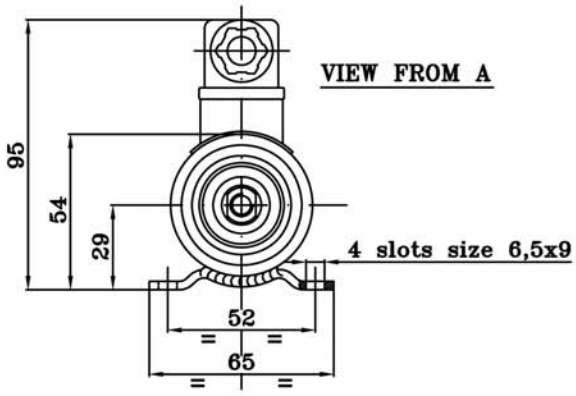
The force indicated above refers to a single work cycle at a temperature of 20°C.
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

Electric piston model PE 50-100



Tolerances on the dimensions ±0.8mm



Electric piston model PE 50-100 technical specifications

Voltage	12 Vdc
Max absorbed current	8 Amp.
Voltage	24 Vdc
Max absorbed current	4 Amp.
Max power	96 Watt
Max force of Traction/Thrust	300 N
Traversing speed without load	37 mm/sec
Traversing speed without load (type B)	74 mm/sec
Stroke	MAX 99 mm .....ACTUAL 97 mm
Protection class	IP 65
Operating temperature	from -5°C to +60°C

NOTE: A SPECIFIC REQUEST IS NEEDED FOR TEMPERATURES SUPERIOR TO -5 °C

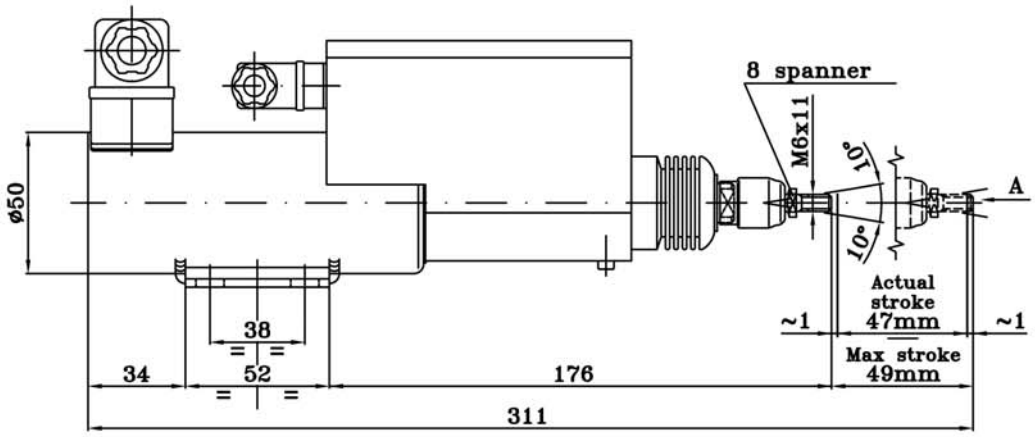
Total weight .....1,9 Kg

ED% duty .....depends on: the operating temperature, load applied, work cycle and supply voltage.

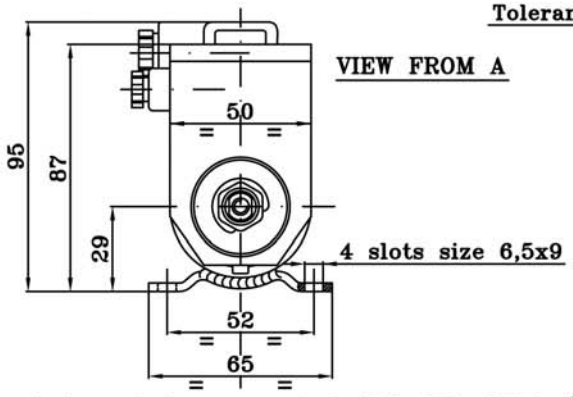
The force indicated above refers to a single work cycle at a temperature of 20°C.
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

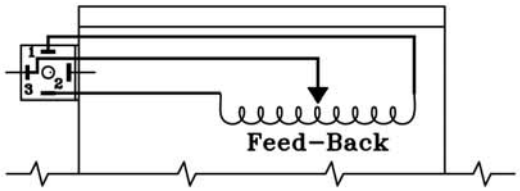
Electric piston model PE 50-50P (Feed-Back)



Tolerances on the dimensions ±0.8mm



CONNECTIONS:



Electric piston model PE 50-50P (Feed-Back) technical specifications

Voltage	12 Vdc
Max absorbed current	8 Amp.
Voltage	24 Vdc
Max absorbed current	4 Amp.
Max power	96 Watt
Max force of Traction/Thrust	300 N
Traversing speed without load	37 mm/sec
Traversing speed without load (type B)	74 mm/sec
Stroke	MAX 49 mm ACTUAL 47 mm
Protection class	IP 65
Feed-Back Potentiometer	10 Kohm
Operating temperature	from -5°C to +60°C

NOTE: A SPECIFIC REQUEST IS NEEDED FOR TEMPERATURES SUPERIOR TO -5 °C

Total weight ..... 1,9 Kg

ED% duty ..... depends on: the operating temperature, load applied, work cycle and supply voltage.

Patent N°1289334

The force indicated above refers to a single work cycle at a temperature of 20°C.

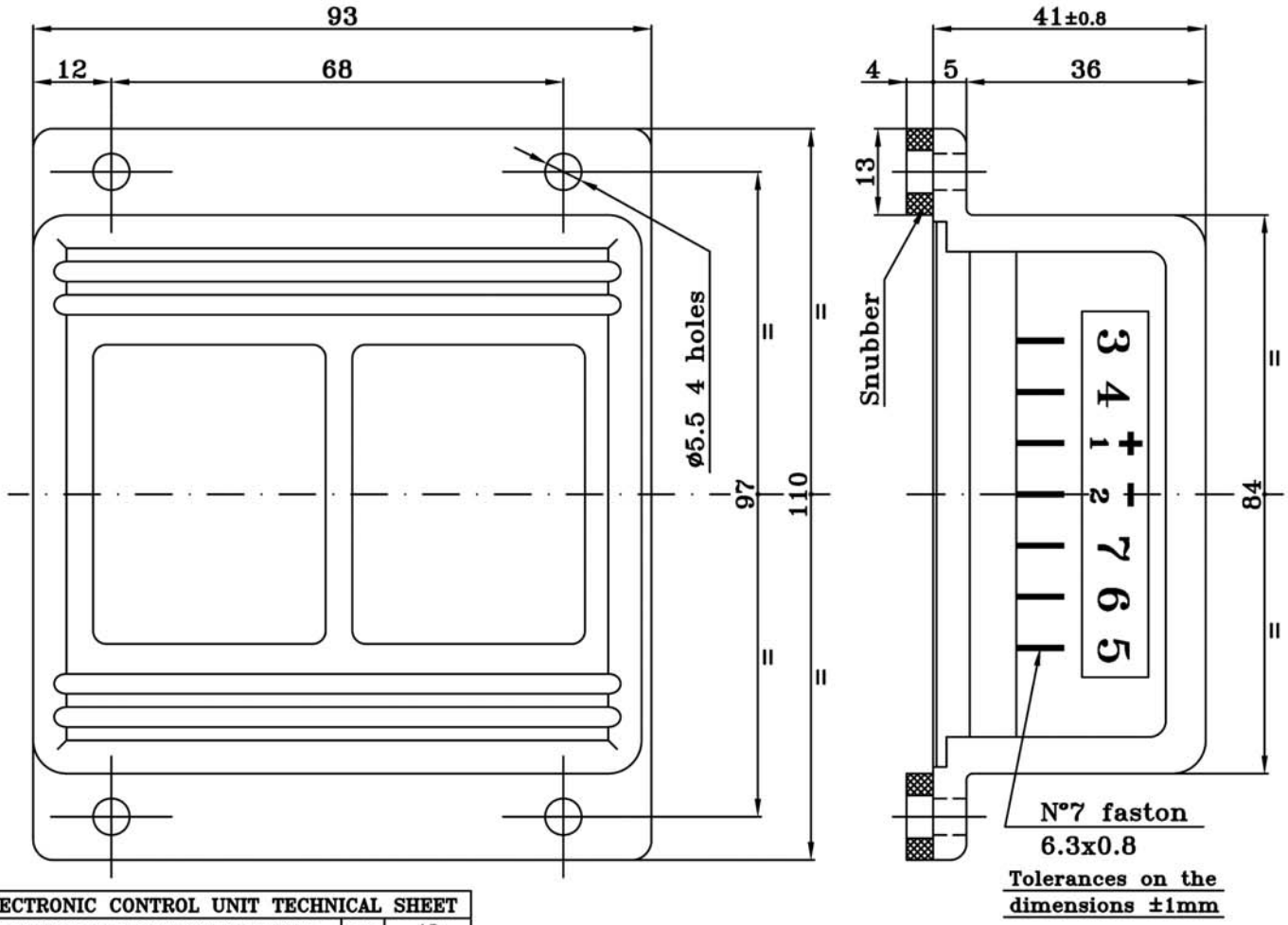
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.

System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.

Requirements other than the above can be met upon request.

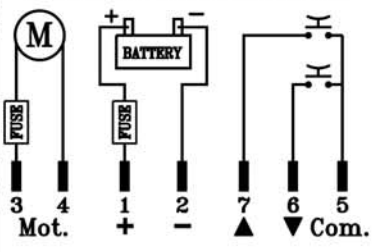
SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY – Via Veneto n. 24
Tel. ++39.0731.605631 – Fax ++39.0731.605641
http://www.systemrosati.com – E-mail:info@systemrosati.com

Electronic control unit model S.FCEG.I.
S.FCEG.L.



ELECTRONIC CONTROL UNIT TECHNICAL SHEET		
• S.FCEG.I.V12 and S.FCEG.L.V12 alimentation	Vdc	12
• S.FCEG.I.V24 and S.FCEG.L.V24 alimentation	Vdc	24
• Protection class	IP	*
*: IP55 only if working with electrical connections facing down		
• Working temperature −5°C ÷ +60°C NOTE: PLEASE MAKE A SPECIFIC REQUEST FOR TEMPERATURES HIGHER THAN −5°C.		
• Total weight	Kg	0.17
• Max. PE40 load calibration	N	140
• S.FCEG.I.: HAS AN INPULSE COMMAND		
• S.FCEG.L.: HAS A LINEAR COMMAND		
• PROTECTIONS AGAINST: OVERLOAD; POLARITY INVERSION; ALIMENTATION SHORT CIRCUIT MECHANICAL BLOCK at the END STROKE with a back of 0.8mm in the opposite running way.		

ELECTRICAL DIAGRAM



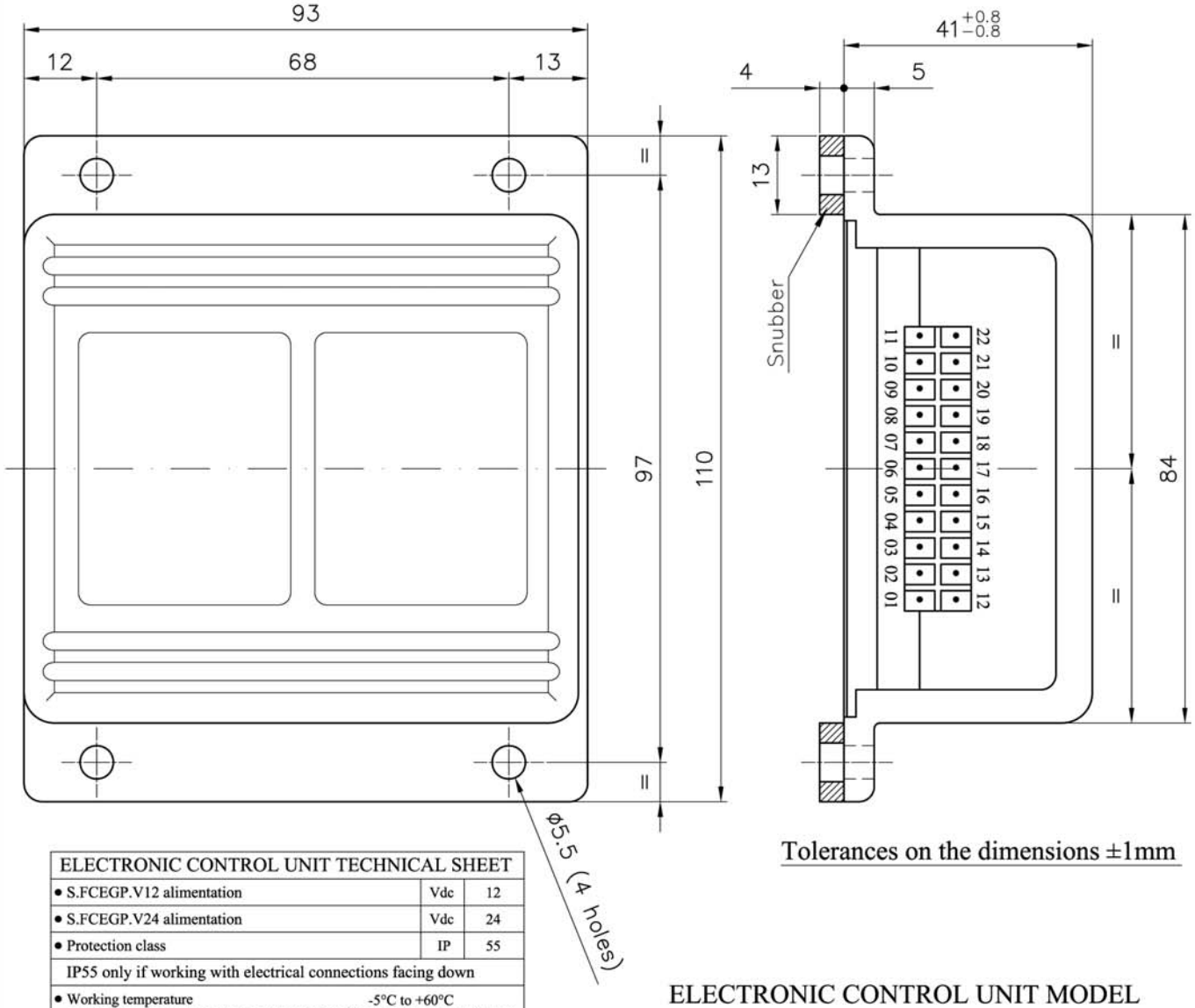
ELECTRONIC CONTROL UNIT MODEL S.FCEG.I. OR S.FCEG.L. FOR PE40 ELECTRIC PISTONS.
N.B.: THIS TYPE OF CONTROL UNIT DOES NOT MANAGE THE ENCODER.

NEW EMC (ELECTROMAGNETIC COMPATIBILY) test certificate in accordance with norms: EN61000-4-2 – EN61000-4-4 – EN61000-4-6

System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

Electronic control unit model S.FCEGP



Tolerances on the dimensions ±1mm

ELECTRONIC CONTROL UNIT TECHNICAL SHEET		
• S.FCEGP.V12 alimentation	Vdc	12
• S.FCEGP.V24 alimentation	Vdc	24
• Protection class	IP	55
IP55 only if working with electrical connections facing down		
• Working temperature -5°C to +60°C NOTE: PLEASE MAKE A SPECIFIC REQUEST FOR TEMPERATURES HIGHER THAN -5°C.		
• Total weight	Kg.	0.17
• Max. PE40GP load calibration	N	140
• PROTECTIONS AGAINST: OVERLOAD; POLARITY INVERSION; ALIMENTATION SHORT CIRCUIT MECHANICAL BLOCK at the END STROKE		

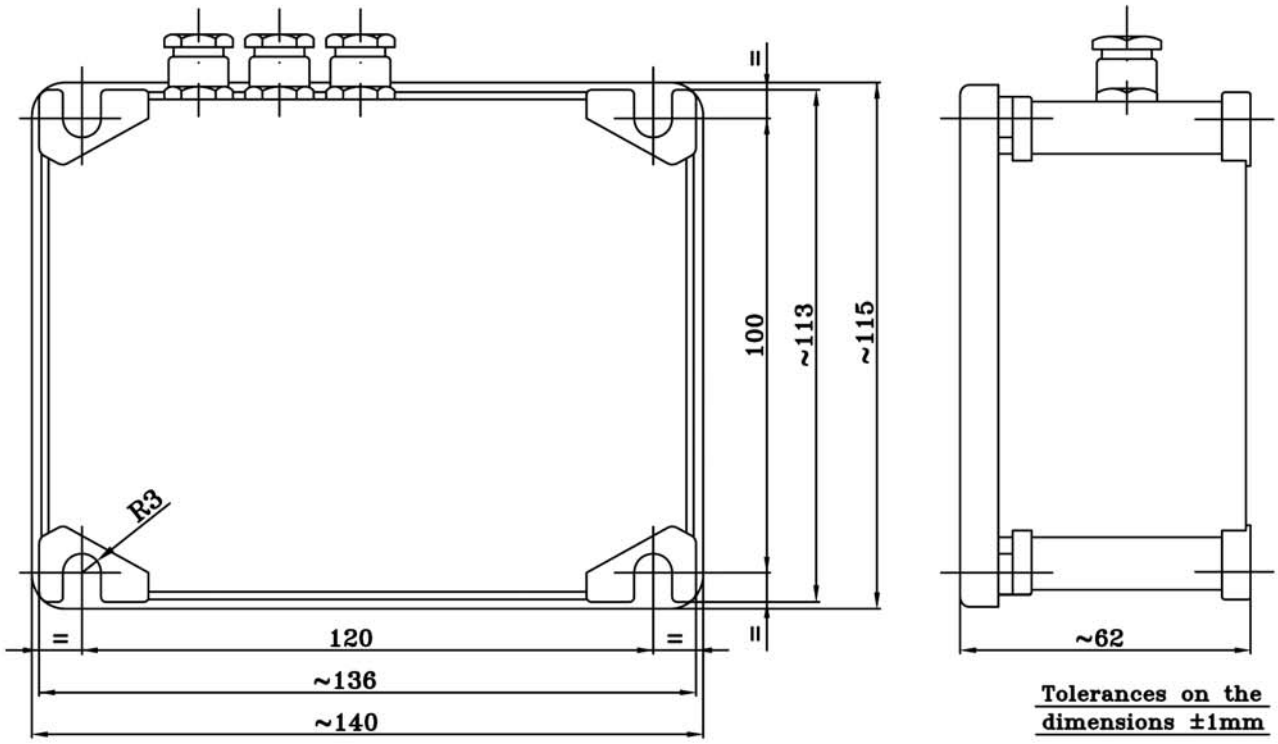
ELECTRONIC CONTROL UNIT MODEL
S.FCEGP. FOR PE40GP ELECTRIC PISTONS

NEW EMC (ELECTROMAGNETIC COMPATIBILY) test certificate in accordance with norms: UNI EN 13309

System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

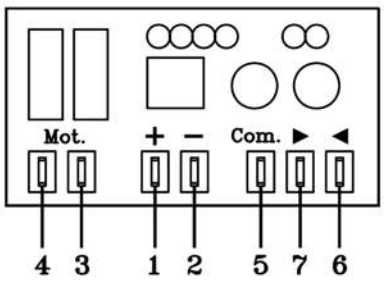
Electronic control unit model S.FC.I.
S.FC.L.



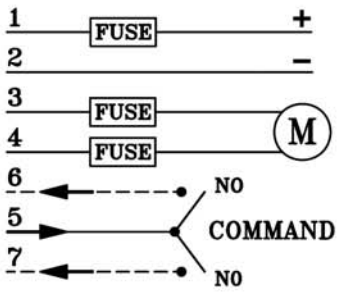
Tolerances on the dimensions ±1mm

ELECTRONIC CONTROL UNIT TECHNICAL SHEET		
• S.FC.I.V12 and S.FC.L.V12 alimentation	Vdc	12
• S.FC.I.V24 and S.FC.L.V24 alimentation	Vdc	24
• Protection class	IP	55
• Working temperature −5°C ÷ +60°C NOTE: PLEASE MAKE A SPECIFIC OFFER FOR TEMPERATURES HIGHER THAN −5°C.		
• Total weight	Kg	0.6
• Max. PE50 load calibration	N	300
• S.FC.I.: HAS AN INPULSE COMMAND		
• S.FC.L.: HAS A LINEAR COMMAND		
• PROTECTIONS AGAINST: OVERLOAD; POLARY INVERSION; ALIMENTATION SHORT CIRCUIT MECHANICAL BLOCK at the END STROKE with a back of 0.8mm in the opposite running way.		

PCB



ELECTRICAL DIAGRAM



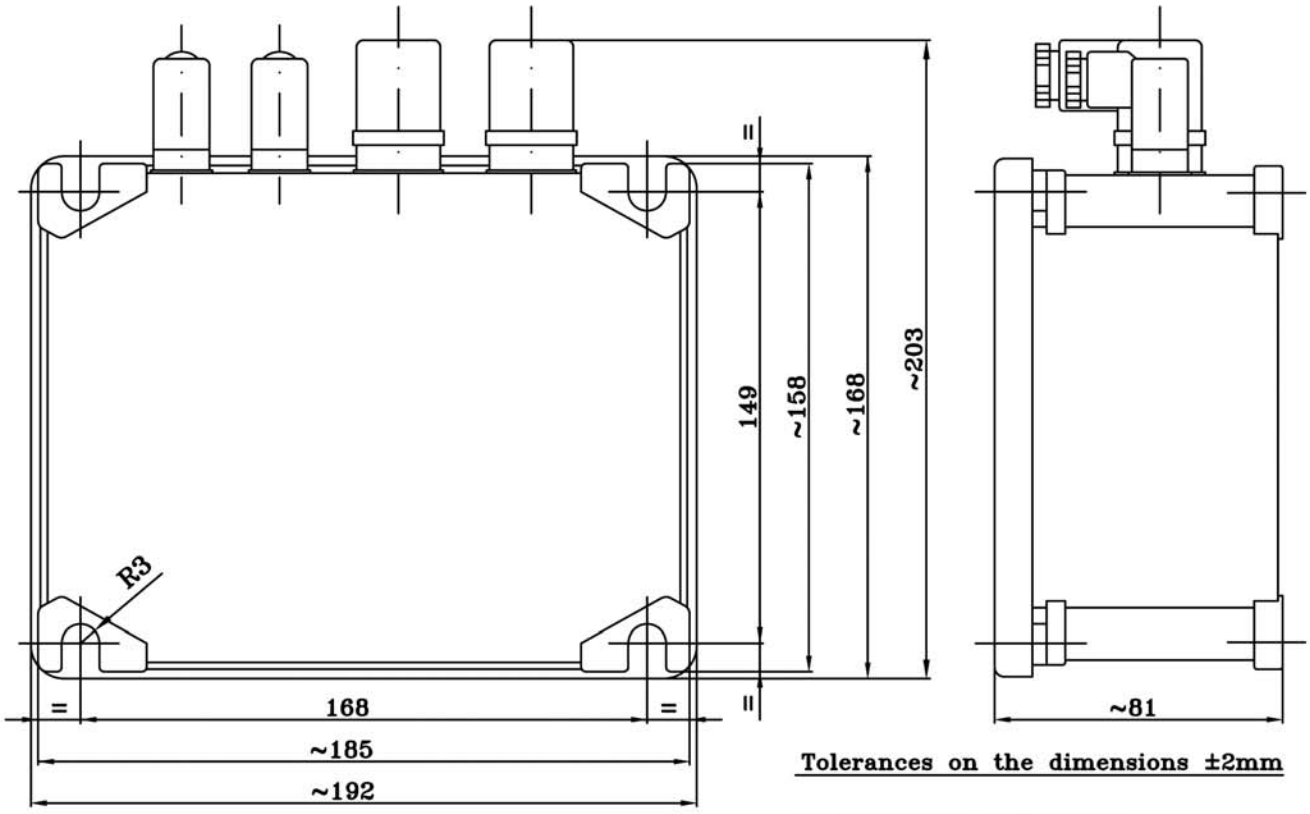
ELECTRONIC CONTROL UNIT MODEL S.FC.I. OR S.FC.L. FOR STANDARD TYPE PE50 ELECTRIC PISTONS.
N.B.: THIS TYPE OF CONTROL UNIT DOES NOT MANAGE THE FEED-BACK.

NEW EMC (ELECTROMAGNETIC COMPATIBILY) test certificate in accordance with norms: EN61000-4-2 - EN61000-4-4 - EN61000-4-6

System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY – Via Veneto n. 24
Tel. ++39.0731.605631 – Fax ++39.0731.605641
http://www.systemrosati.com – E-mail:info@systemrosati.com

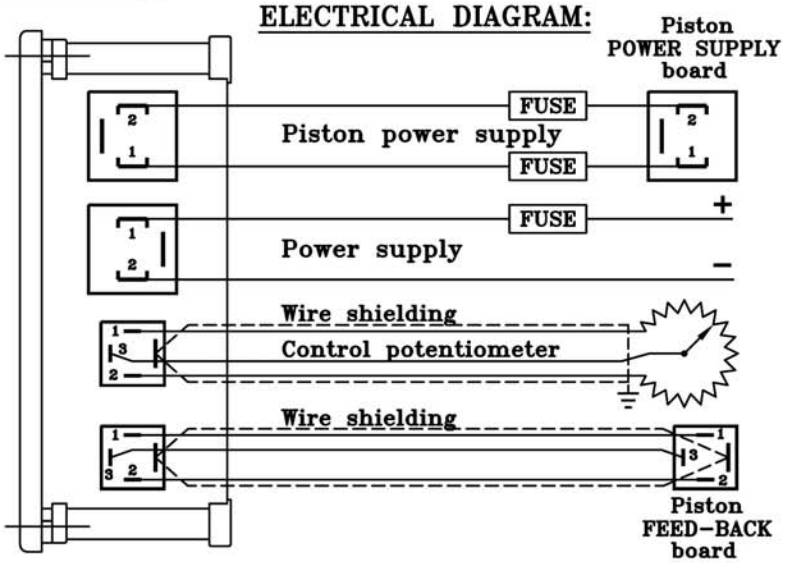
Electronic control unit model S.FC.P.



Tolerances on the dimensions ±2mm

ELECTRONIC CONTROL UNIT TECHNICAL SHEET		
• S.FC.P.V12 alimentation	Vdc	12
• S.FC.P.V24 alimentation	Vdc	24
• Protection class	IP	55
• Working temperature −5°C ÷ +60°C NOTE: PLEASE MAKE A SPECIFIC REQUEST FOR TEMPERATURES HIGHER THAN −5°C.		
• Total weight	Kg	1.5
• Max. PE50 load calibration	N	300
• CONTROL POTENTIOMETER	KOhm	10
• PROTECTIONS AGAINST: OVERLOAD; POLARITY INVERSION; ALIMENTATION SHORT CIRCUIT MECHANICAL BLOCK at the END STROKE with a back of 0.8mm in the opposite running way.		

ELECTRICAL DIAGRAM:



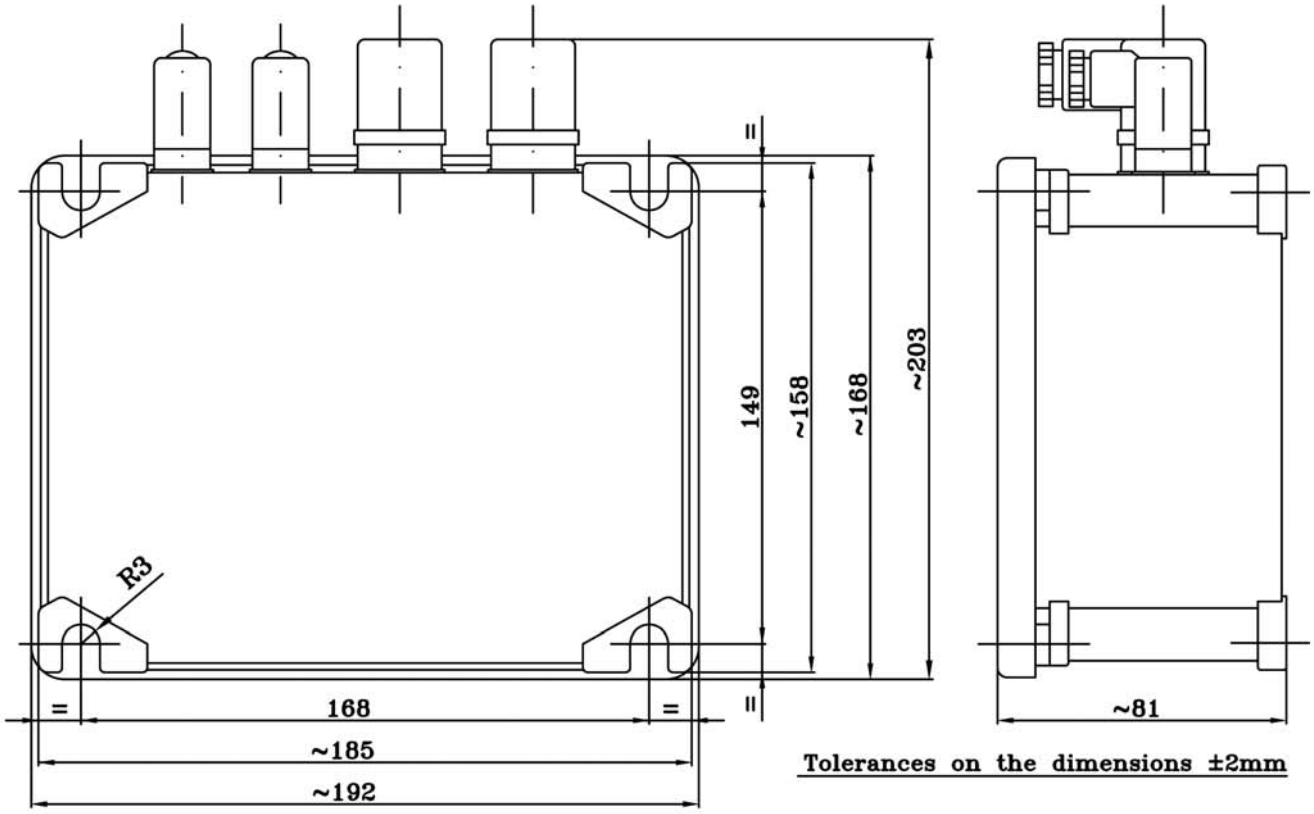
Patent 1289334

EMC (ELECTROMAGNETIC COMPATIBILITY) test certificate in accordance with norms:
EN61000−4−2 – EN61000−4−4 – EN61000−4−6 – EN 55022

System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY – Via Veneto n. 24
Tel. ++39.0731.605631 – Fax ++39.0731.605641
http://www.systemrosati.com – E-mail:info@systemrosati.com

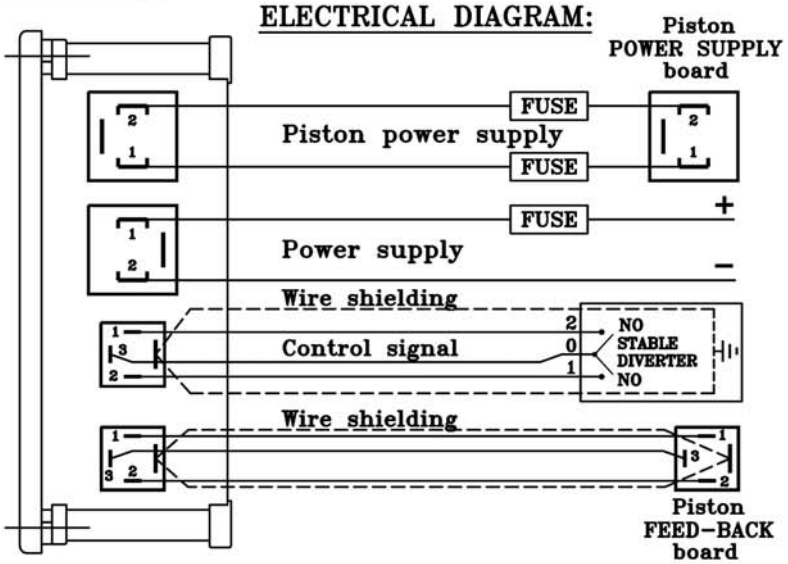
Electronic control unit model S.FC.P.1–0–2



Tolerances on the dimensions ±2mm

ELECTRONIC CONTROL UNIT TECHNICAL SHEET		
• S.FC.1–0–2 V12 alimentation	Vdc	12
• S.FC.1–0–2 V24 alimentation	Vdc	24
• Protection class	IP	55
• Working temperature −5°C + +60°C NOTE: PLEASE MAKE A SPECIFIC REQUEST FOR TEMPERATURES HIGHER THAN −5°C.		
• Total weight	Kg	1.5
• Max. PE50 load calibration	N	300
• CONTROL POTENTIOMETER	KOhm	10
• PROTECTIONS AGAINST: OVERLOAD; POLARITY INVERSION; ALIMENTATION SHORT CIRCUIT MECHANICAL BLOCK at the END STROKE with a back of 0.8mm in the opposite running way.		

ELECTRICAL DIAGRAM:



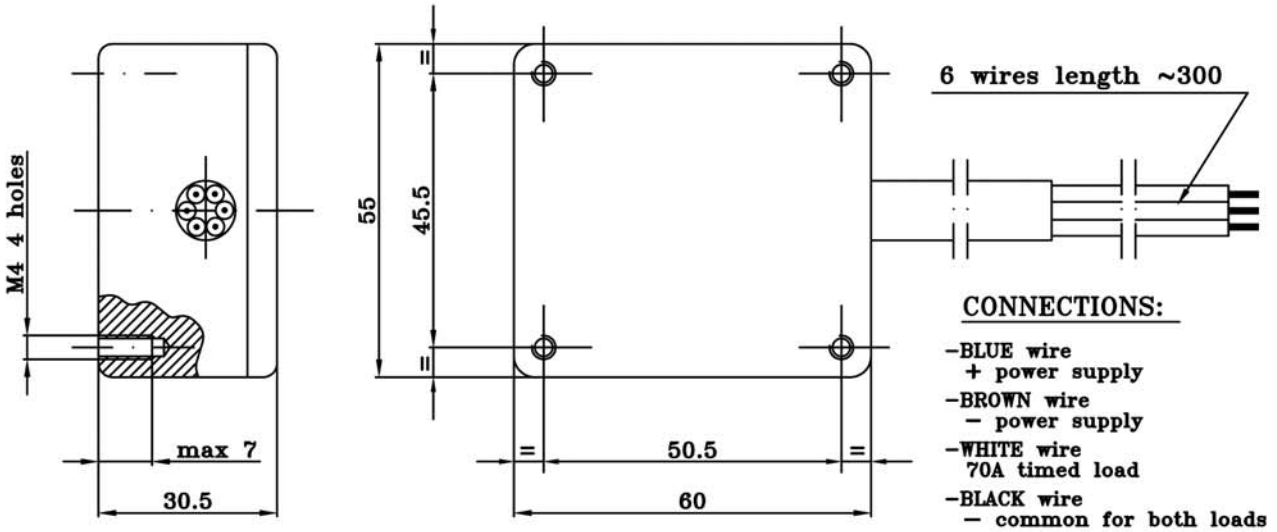
EMC (ELECTROMAGNETIC COMPATIBILITY) test certificate in accordance with norms:

EN61000–4–2 – EN61000–4–4 – EN61000–4–6 – EN 55022

System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

Electronic timing relay model SSR 70



Tolerances on the dimensions ±0.6mm

CONNECTIONS:

- -BLUE wire
  + power supply
- -BROWN wire
  − power supply
- -WHITE wire
  70A timed load
- -BLACK wire
  − common for both loads
- -RED wire
  2A load − 100% ED
- -YELLOW wire
  external switch NO +

Electronic timing relay model SSR 70 technical specifications

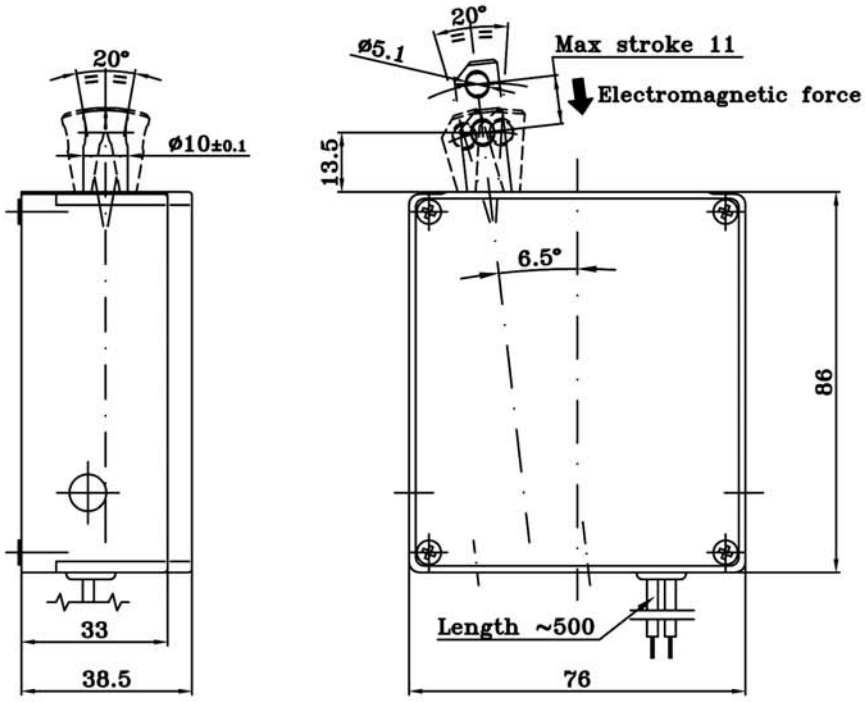
Rated power supply .....12−24 Vdc
Max power supply .....28 Vdc
Max load on timed line ..... 70 Amp.
(The number of possible cycles on the timed line is inversely proportional to the operating temperature and to the load in amps)
Max load on the holding line 100% ED .....2 Amp.
Operating temperature .....from −40°C to +85°C
Protection class .....IP 68
Duration of timing ..... 550 ms
NO PROTECTION IS FORESEEN AGAINST POLARITY EXCHANGE
Total weight .....0,2 Kg

EMC (ELECTROMAGNETIC COMPATIBILITY) test certificate in accordance with norms: EN61000−4−2 − EN61000−4−4 − EN 55022 (SCP certificate no. 043096/01)

The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

Electronic lock control model CES



Tolerances on the dimensions ±0.6mm

Electronic lock control model CES technical specifications

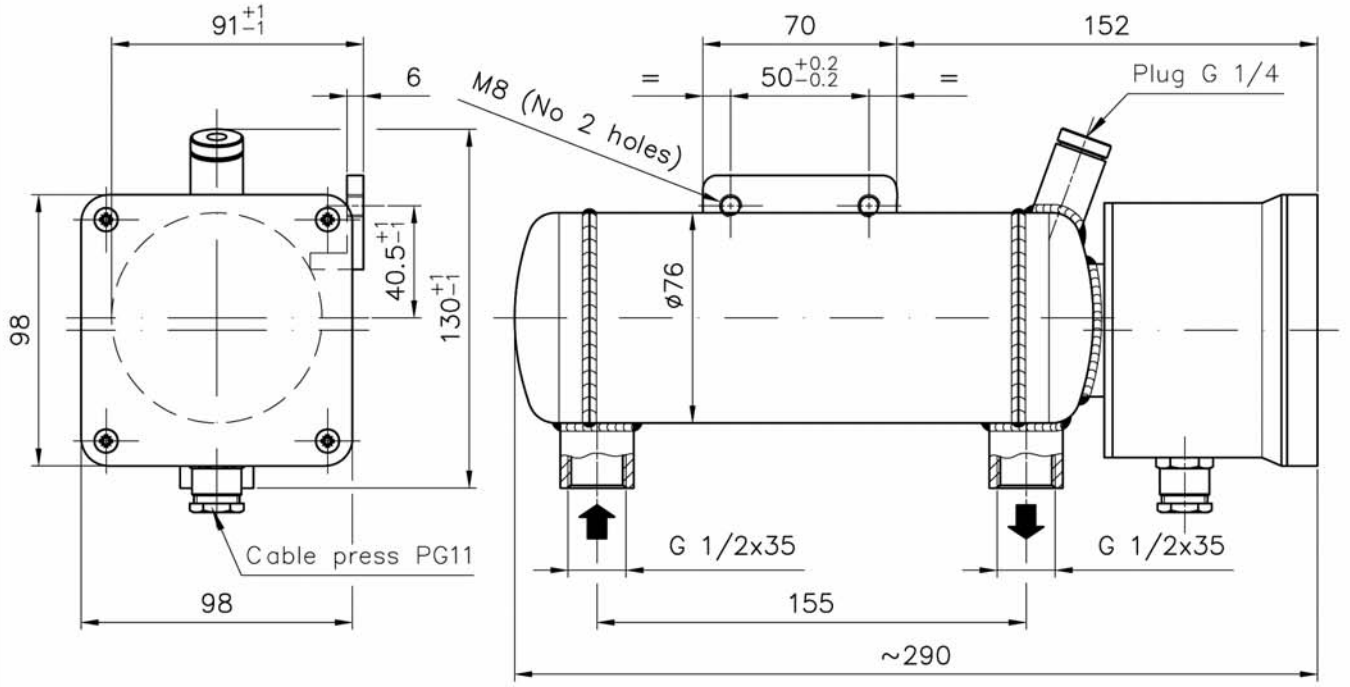
Voltage	24 Vdc
Voltage	26 Vac
Pull coil absorption	5 Amp.
Hold coil absorption	0,22 Amp.
Stroke	11 mm
Work cycle start force	50 N
Holding force	60 N
Pull coil duty	ED–Intermit.
Hold coil duty	ED–100%
Intervention of thermal protection on pull coil	95 °C
Protection class	IP 20
Total weight	550 gr

EMC (ELECTROMAGNETIC COMPATIBILITY) test certificate in accordance with norms: EN61000-4-2 - EN61000-4-4 - EN61000-4-6 - EN 55022

The forces indicated above refer to a single work cycle at a temperature of 20°C.
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

Water heater model RA 400



Tolerances on the dimensions ±3mm

HEATER TECHNICAL SHEET		
• Rated absorbed power	W	400
• Power supply	Vac	230 50-60Hz S.
• Absorbed current	Amp.	1.75
• Insulation class		Class 1
• Dielectric strength	V/sec	1500 / 3
• Protection class	IP	65
• Duty	ED	100%
• Max. settable temperature	°C	80±10%
• Safety thermostat setting	°C	100±10%
• Rated tank pressure	Bar	6
• Total weight	Kg	2.7
• Thermostat ON-OFF cycles NOTE: The number of cycles depends on the installation and on the atmospheric conditions	No	25000

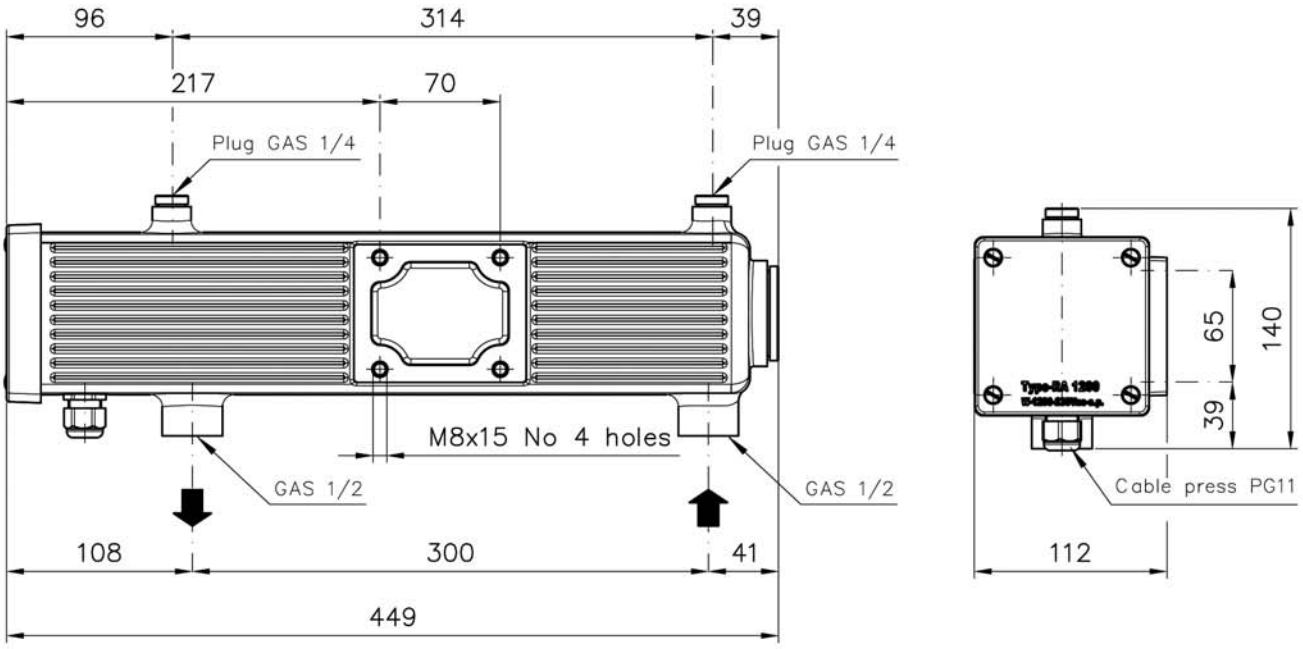
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.

System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.

Requirements other than the above can be met upon request.

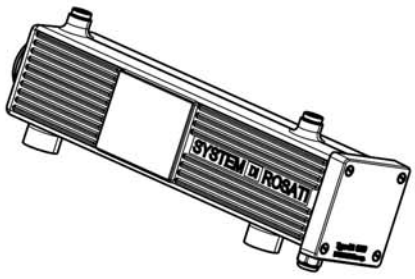
SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

Water heater model RA 1200



Tolerances on the dimensions ±3mm

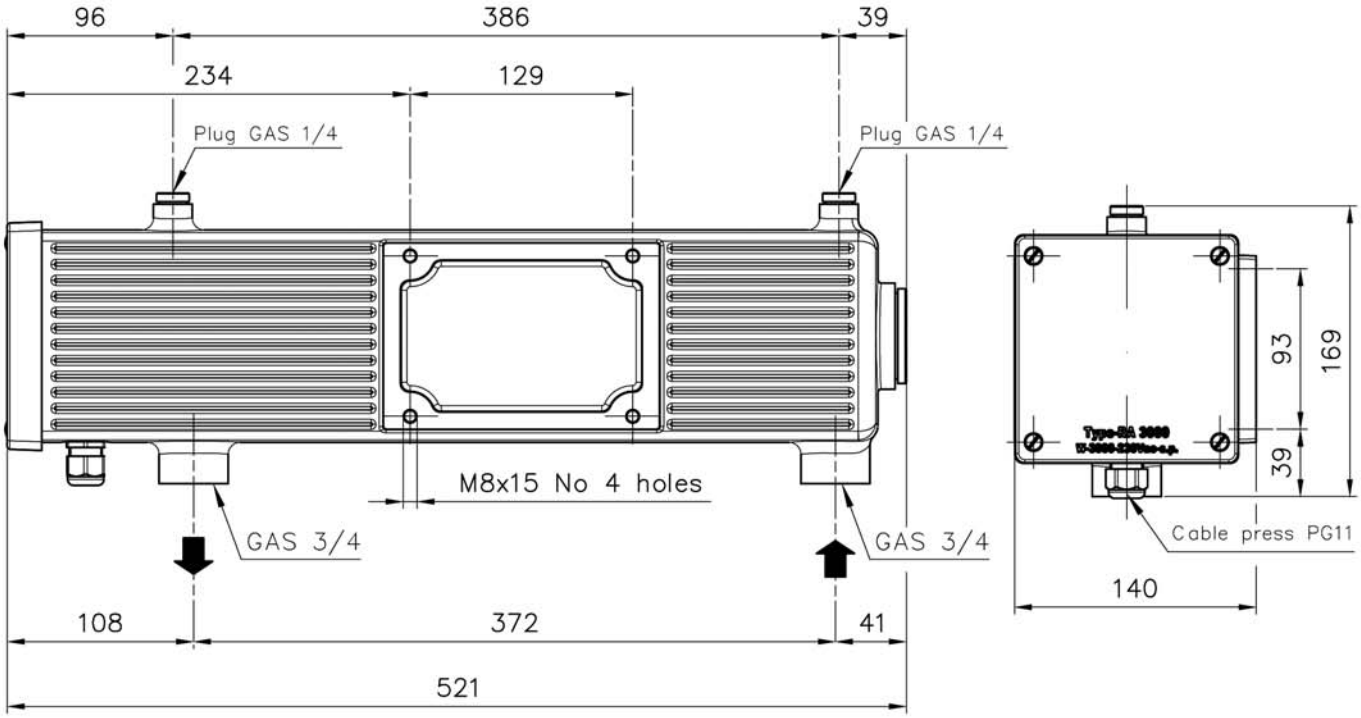
HEATER TECHNICAL SHEET		
• Rated absorbed power	W	1200
• Power supply	Vac	230 50-60Hz M.
• Absorbed current	Amp.	5.2
• Insulation class		Class 1
• Dielectric strength	V/sec	1500 / 3
• Protection class	IP	65
• Duty	ED	100%
• Max. settable temperature	°C	80±10%
• Safety thermostat setting	°C	100±10%
• Rated tank pressure	Bar	6
• Total weight	Kg	4.2
• Thermostat ON-OFF cycles NOTE: The number of cycles depends on the installation and on the atmospheric conditions	No	25000



The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

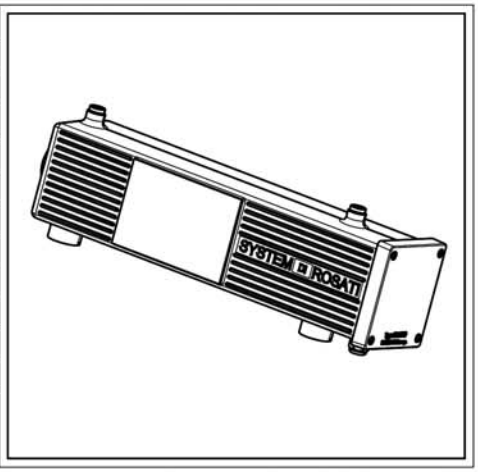
SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

Water heater model RA 3000



Tolerances on the dimensions ±3mm

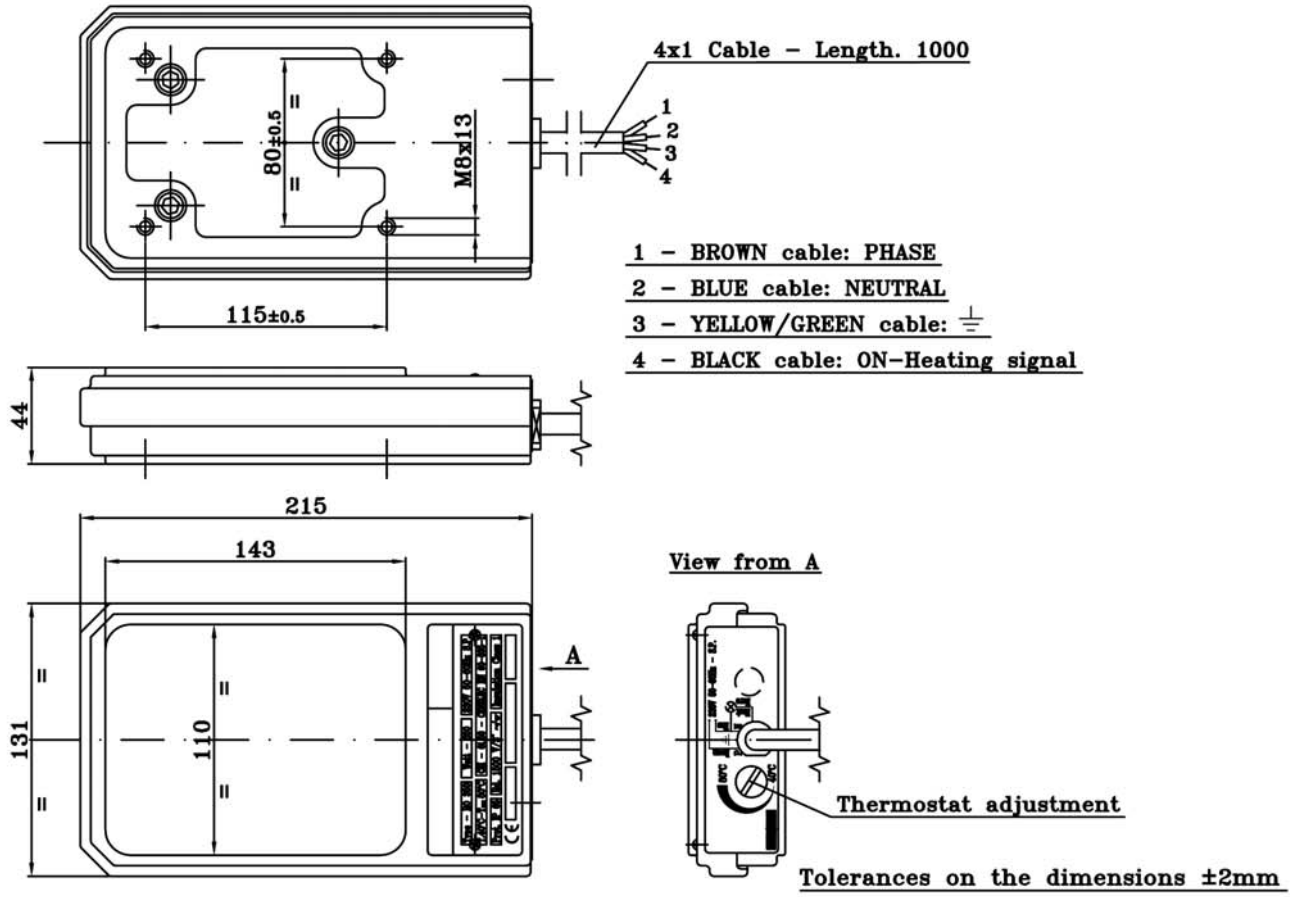
HEATER TECHNICAL SHEET		
• Rated absorbed power	W	3000
• Power supply	Vac	230 50-60Hz M.
• Absorbed current	Amp.	13
• Insulation class		Classe 1
• Dielectric strength	V/sec	1500 / 3
• Protection class	IP	65
• Duty	ED	100%
• Max. settable temperature	°C	80±10%
• Safety thermostat setting	°C	100±10%
• Rated tank pressure	Bar	6
• Total weight	Kg	6.3
• Thermostat ON-OFF cycles NOTE: The number of cycles depends on the installation and on the atmospheric conditions	No	25000



The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.
Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

Contact heater model RO 350



1 - BROWN cable: PHASE
2 - BLUE cable: NEUTRAL
3 - YELLOW/GREEN cable: ⏚
4 - BLACK cable: ON-Heating signal

Tolerances on the dimensions ±2mm

HEATER TECHNICAL SHEET		
• Rated absorbed power	W	350
• Power supply	Vac	230 50-60Hz S.
• Absorbed current	A	1.6
• Insulation class		Class 1
• Dielectric strength	V/sec	1500 / 3
• Protection class	IP	65
• Max sustainable temperature (dissipated from external heat sources)	°C	110
• Thermostat ON-OFF cycles NOTE: The number of cycles depends on the installation and on the atmospheric conditions	No	25000
• Operating temperature (factory set)	°C	45±10%
• Max operating temperature (adjustable)	°C	80±10%
• Duty	ED	100%
• Total weight	Kg	2.8

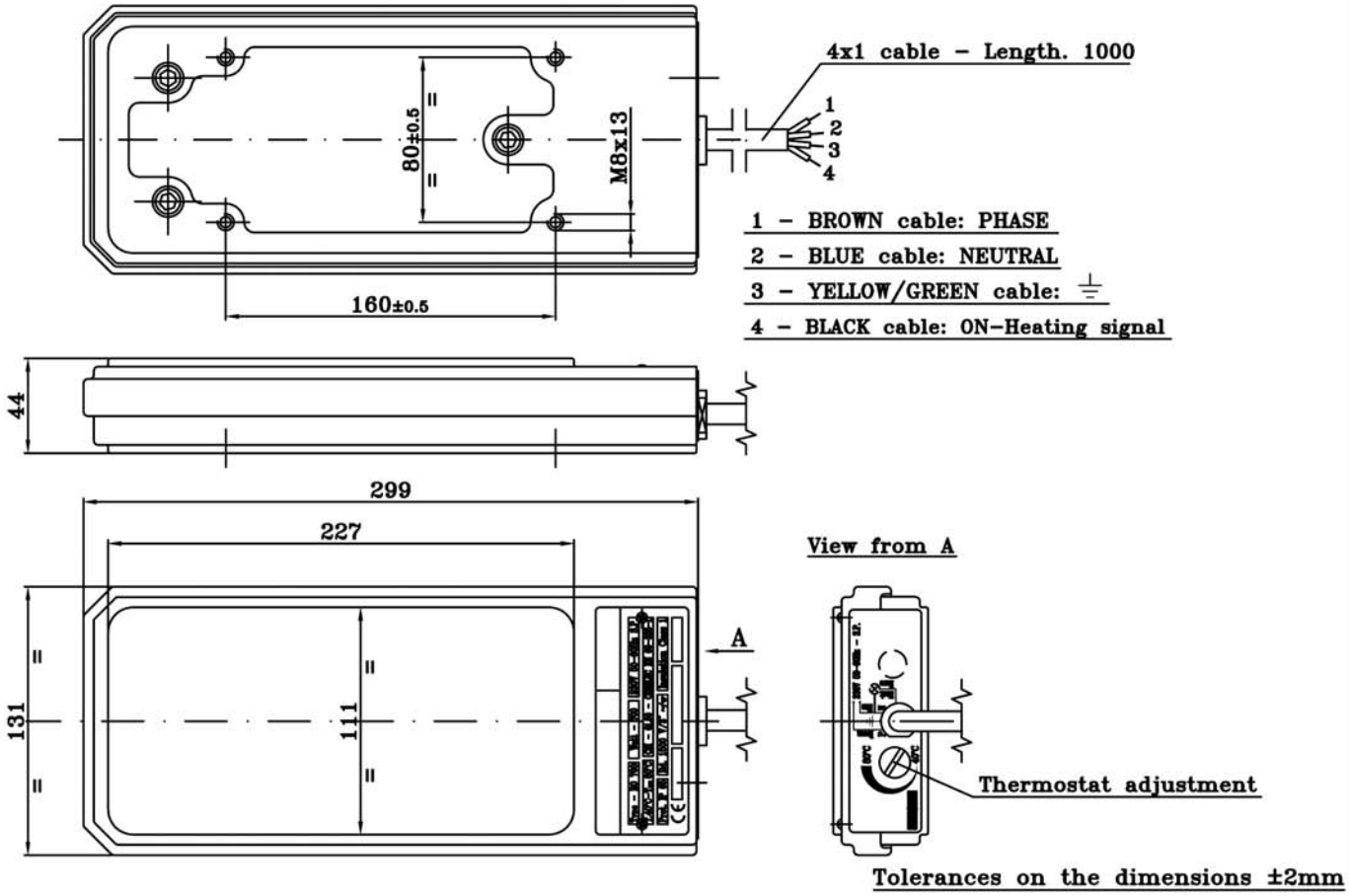
The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.

System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.

Requirements other than the above can be met upon request.

SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

Contact heater model RO 700



Tolerances on the dimensions ±2mm

HEATER TECHNICAL SHEET		
• Rated absorbed power	W	700
• Power supply	Vac	230 50-60Hz S.
• Absorbed current	A	3.2
• Insulation class		Class 1
• Dielectric strength	V/sec	1500 / 3
• Protection class	IP	65
• Max sustainable temperature (dissipated from external heat sources)	°C	110
• Thermostat ON-OFF cycles NOTE: The number of cycles depends on the installation and on the atmospheric conditions	No	25000
• Operating temperature (factory set)	°C	45±10%
• Max operating temperature (adjustable)	°C	80±10%
• Duty	ED	100%
• Total weight	Kg	3.8

The above data is strictly rated; a variation in any of the data leads to a consequent variation in all other data.

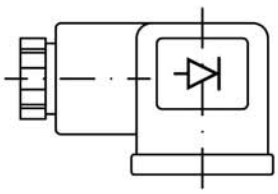
System di Rosati reserves the right to make changes to the dimensions and characteristics described on this data sheet without prior notice.

Requirements other than the above can be met upon request.

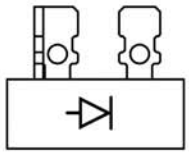
SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY - Via Veneto n. 24
Tel. ++39.0731.605631 - Fax ++39.0731.605641
http://www.systemrosati.com - E-mail:info@systemrosati.com

Accessories

Connectors

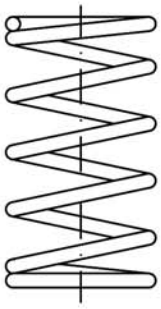


Rectifiers

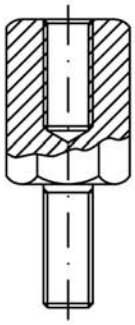


Compensation springs

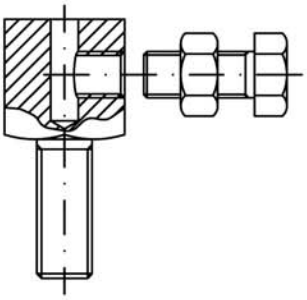
Return springs



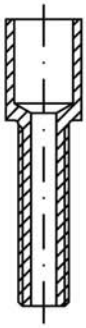
M.F. Connections



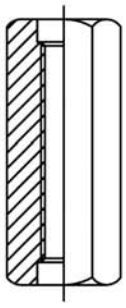
Cable clamps



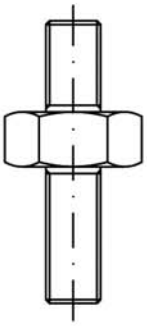
Sheath fastening bushings



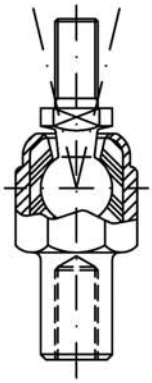
F.F. Connections



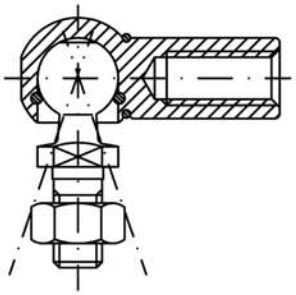
M.M. Connections



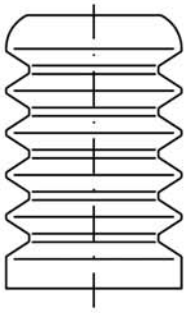
Axial spherical joints



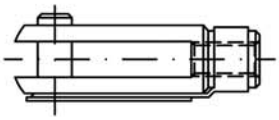
90° spherical joints



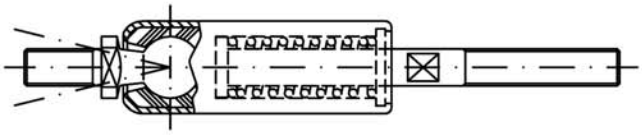
Rubber dust covers



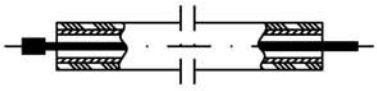
Fork bolts



Stroke compensators



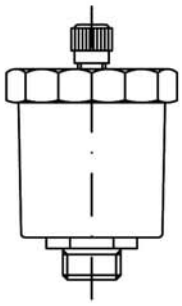
Cables with sheath



SYSTEM di ROSATI S.r.l.
60030 MONSANO (AN) ITALY – Via Veneto n. 24
Tel. ++39.0731.605631 – Fax ++39.0731.605641
http://www.systemrosati.com – E-mail:info@systemrosati.com

ACCESSORIES HEATERS RA 1200 - 3000

Automatic air release valve cod. VSA01



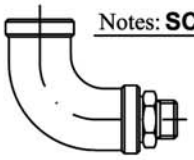
Notes: **SCREW THREADS 3/8 G**

Automatic air release valve joint cod. RC-A

Notes: **SCREW THREADS 1/4" G**

For heaters in HORIZONTAL position

Automatic air release valve joint cod. RC-B

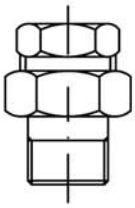


Notes: **SCREW THREADS 1/4" G**

For heaters in VERTICAL position

Socket union 3 pieces cod. BC-1/2

Socket union 3 pieces cod. BC-3/4

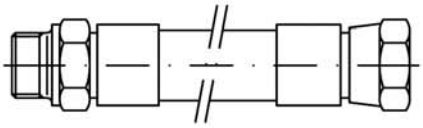


Notes: **SCREW THREADS 1/2" G**

Notes: **SCREW THREADS 3/4" G**

Flex tube 100°C - 10Bar cod. TFX1/2-100-

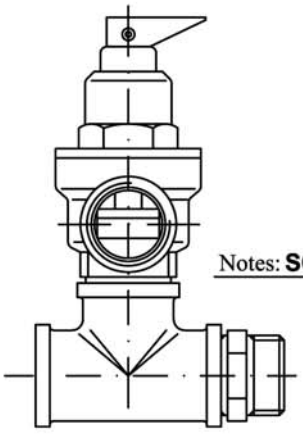
Flex tube 100°C - 10Bar cod. TFX3/4-100-



Notes: **SCREW THREADS 1/2" G**

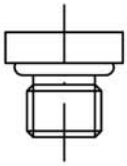
Notes: **SCREW THREADS 3/4" G**

Bar safety valve - 1.5 Bar cod. VS-3/4



Notes: **SCREW THREADS 3/4" G**

Manual air blowoff cap cod. TSA01

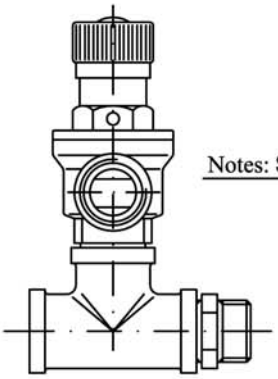


Notes: **SCREW THREADS 1/4" G**

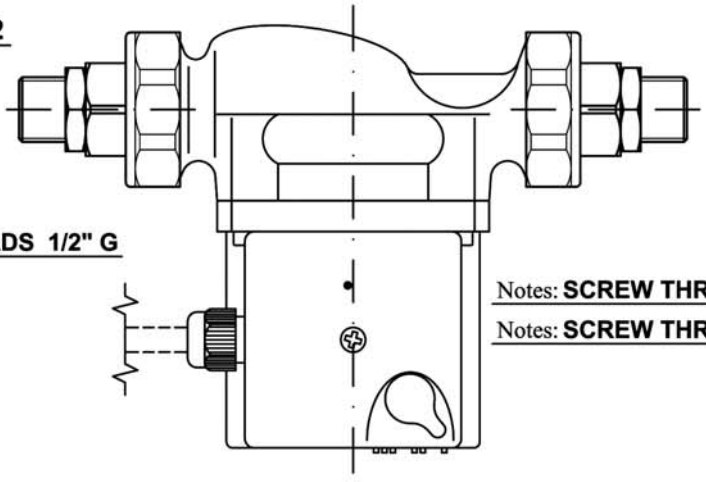
RECIRCULATION PUMP cod. PR-1/2-230Vac

RECIRCULATION PUMP cod. PR-3/4-230Vac

Bar safety valve - 1.5 Bar cod. VS-1/2



Notes: **SCREW THREADS 1/2" G**



Notes: **SCREW THREADS 1/2" G**

Notes: **SCREW THREADS 3/4" G**

www.systemrosati.com
info@systemrosati.com

SYSTEM di ROSATI

SYSTEM di ROSATI s.r.l.

60030 MONSANO (AN) ITALY - Via Veneto, 24 - Tel. ++39.0731.605631 - Fax ++39.0731.605641