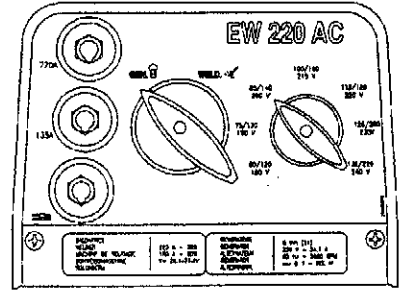
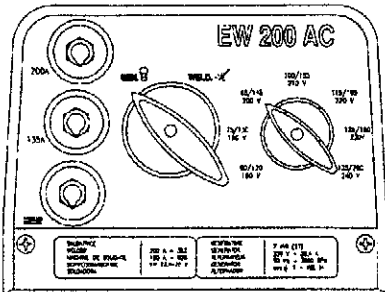
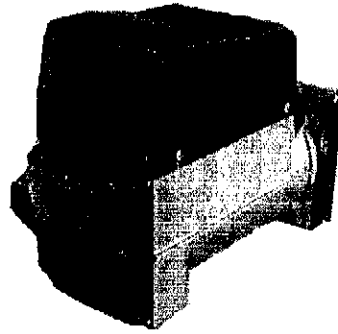
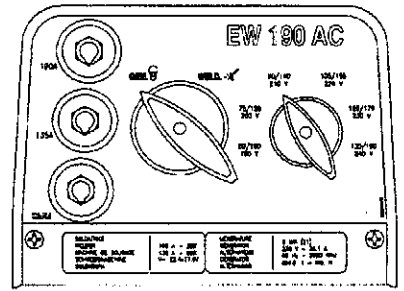
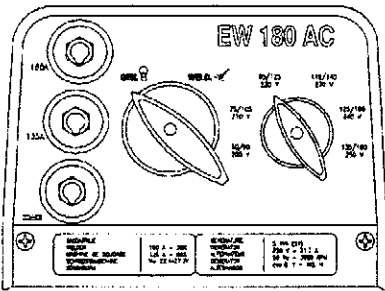
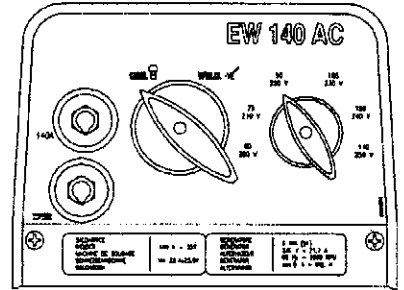
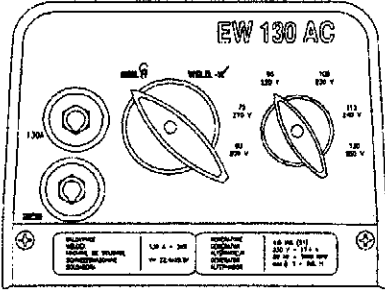


SIP (Industrial Products) Ltd  
 Gelders Hall Road  
 Shepshed  
 Loughborough  
 Leicestershire  
 LE12 9NH



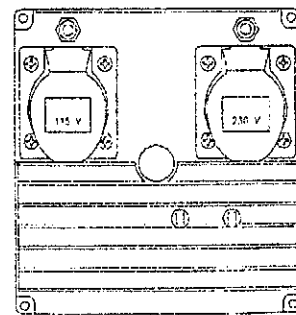
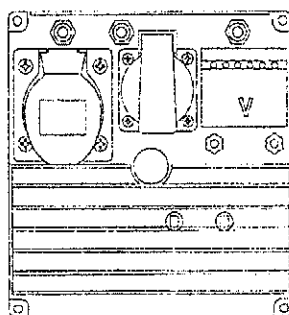
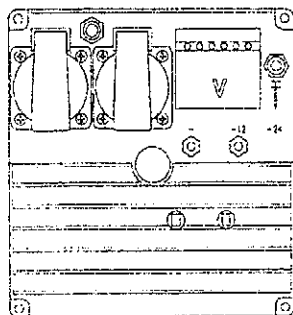
Alley Cat AC Welder Generators.



(50Hz)

(60Hz)

options



## **General Information**

**The aim of these instructions is to indicate the correct conditions for use and maintenance of these welding machines.**

### **PRELIMINARY CHECKS**

Be sure to examine the machine thoroughly to ensure no damage has occurred during transportation.

### **STORAGE**

If the machine is not to be used for long periods, the machine must be stored in a dry place, indoors. Before using it again after a long period of inactivity, check that all the windings are correctly insulated, only values higher than  $2M\Omega$  is acceptable. Otherwise, dry the welding machine alone in an oven at about 60 - 80 °C.

### **INSTALLATION**

Before starting up, ensure the connections are in good condition and that there are no impediments to the turning of the rotor. Ensure that the openings for air intake and expulsion are not blocked, and ensure that the welding machine does not take in hot air expelled by the welding machine itself and or by the motor.

### **ELECTRIC CONNECTION**

Respect the regulations in force in the country of use. If it is being used as an alternator, check that the plate data comply with the characteristics of the system to which the machine will be connected and connect the unit to earth.

### **MAINTENANCE**

Check that there are no irregular situations, such as vibration, noise or blocked air outlets.

## **Instructions for Welding.**

The welding cable must of the minimum length necessary, they must be kept close together and on the ground. Do not use cables on which the insulation is damaged or spoilt in any way, or insufficient cross sectional area.

### **EQUIPOTENTIAL CONNECTION AND EARTHING**

Follow the National requirements for the equipotential connection of the metal components in the vicinity of the welding system and for earthing if necessary.

### **PREPARING THE PARTS.**

The preparation varies depending on the type of join, the thickness, the position and the accessibility of the work. In general the edges to be welded must be prepared by cleaning off any paint, rust or other contaminating substances. For flat welding up to a thickness of 10 to 12mm the 'V' preparation is normally used. While for greater thicknesses it is preferred to use the 'X' preparation with upside down re-welding or 'U' preparation without re-welding.

### **CHOOSING THE ELECTODE**

The welders in the EW DC series are suitable for any type of electrode (rutile, basic, cellulose). The electrode diameter depends on the thickness of the material, the position of the part and the type of join. Larger diameters of course require greater currents and involve a greater amount heat in welding.

When making a weld in position it is convenient to use smaller diameters and several passes to reduce the flow of the weld pool.

### **CHOOSING THE CURRENT.**

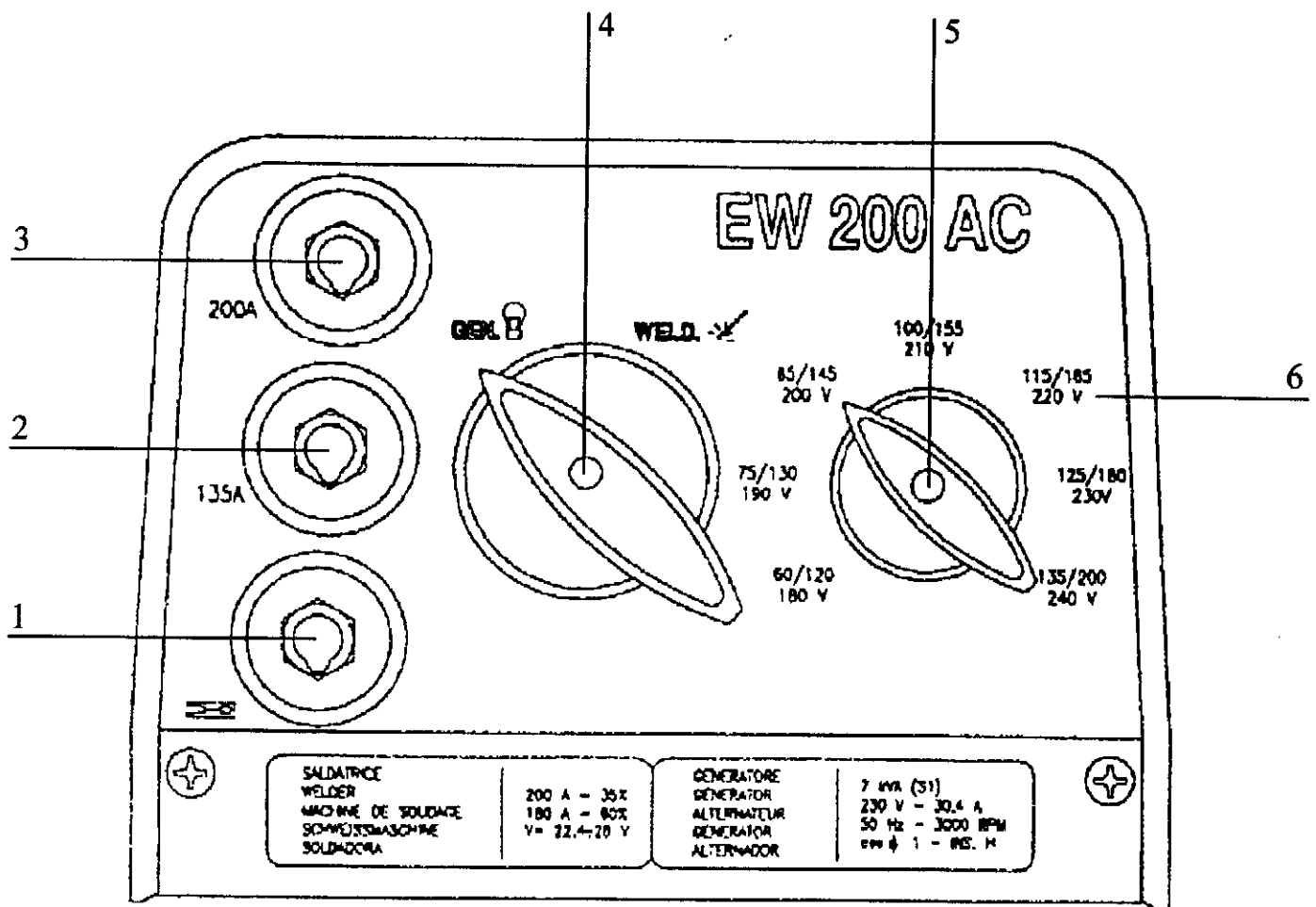
The range of current is recommended by the electrode manufacturer and is usually indicated on the electrode container.

### **WELDING**

The arc is struck by rubbing the tip of the electrode on the part connected to the earth cable and then drawing back the electrode to the normal welding distance. If the movement is too fast then the arc goes out, if the movement is too slow then the electrode sticks and you must pull sideways to free it.

Welding consists of depositing drops of molten metal on the part. As it burns, the electrode coating provides the protective gas for the weld pool. Welding may be carried out with different techniques, the choice of which depends on various factors.

In general, the electrode is kept tilted and is moved by making oscillating movements between the two edges that are to be joined so as to avoid excessive build up of weld material in the centre of the weld. At the end of each pass it is necessary to allow cooling of the weld to allow removal of the slag using a chipping hammer and wire brush.



1. Dinse Socket. Earth Clamp Connection.
2. Dinse Socket. For lower output range
3. Dinse Socket. For larger output range.
4. Selector Switch. Generator power supply / Welding power supply. N.B. This machine can only give a welding output **OR** a power output. **NOT** both at the same time.
5. Selector Switch.:

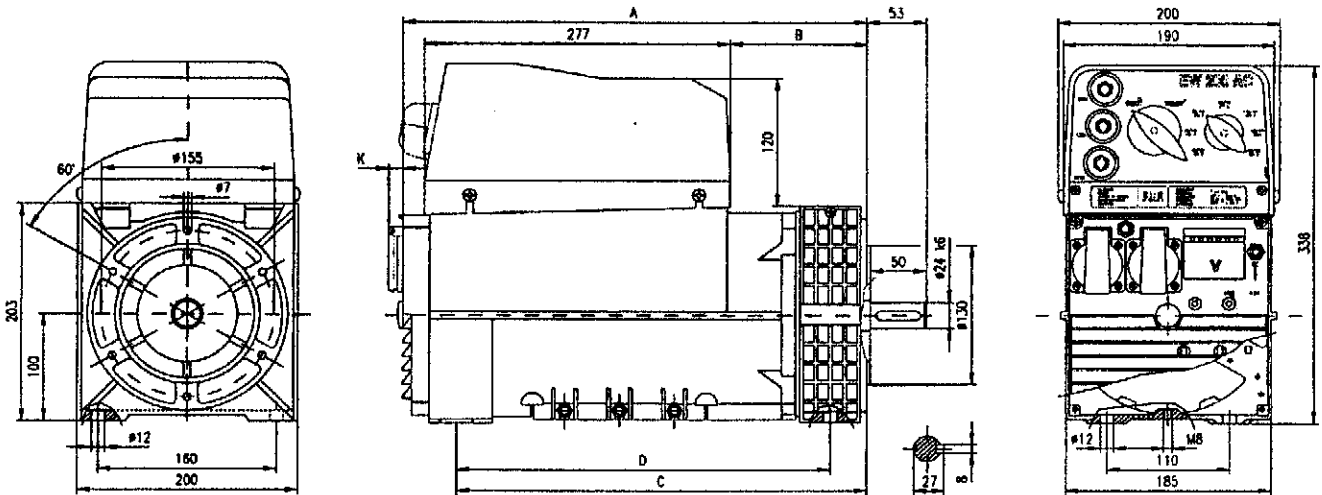
In Generator Mode: Utilise the **BLACK** Voltage Scale. Donating output voltage.  
Output is either within 230V range or 110V range

In Welding Mode: a) Using Dinse socket No2 utilise the **BLUE** Scale. Selecting output current.  
b) Using Dinse socket No3. Utilise the **RED** Scale. Selecting output current.

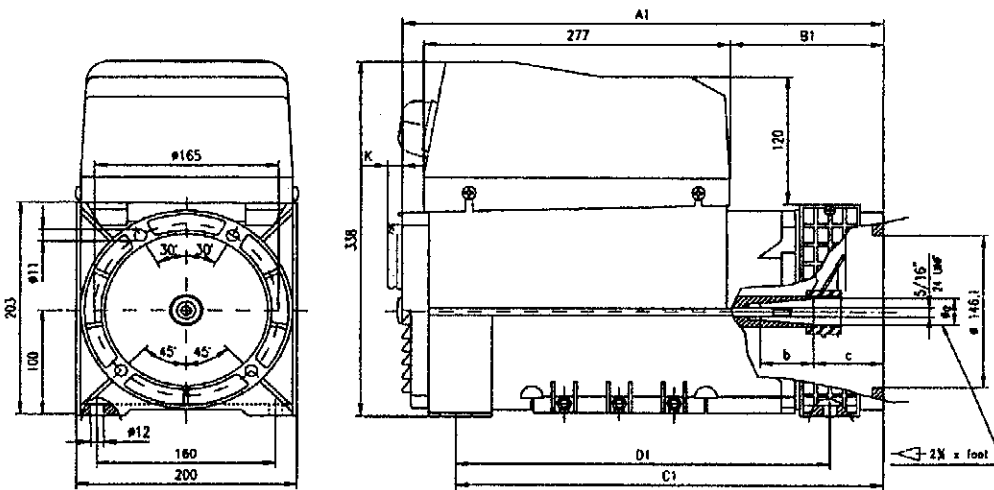


## OVERALL DIMENSIONS

FORMA COSTRUTTIVA    SHAPE    FORME DE CONSTRUCTION    BAUFORM    FORMA DE CONSTRUCCION:    B34 (B3/B14)    cod. E

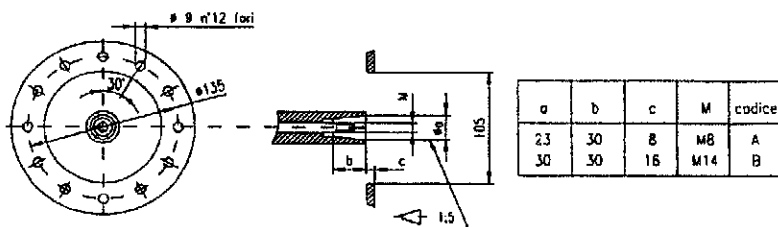


FORMA COSTRUTTIVA    SHAPE    FORME DE CONSTRUCTION    BAUFORM    FORMA DE CONSTRUCCION:    B35 (J609b)    cod.



a	b	c	codice
22.14	32	81	D
25.4	49.5	63.5	D
35	106	12.4	F

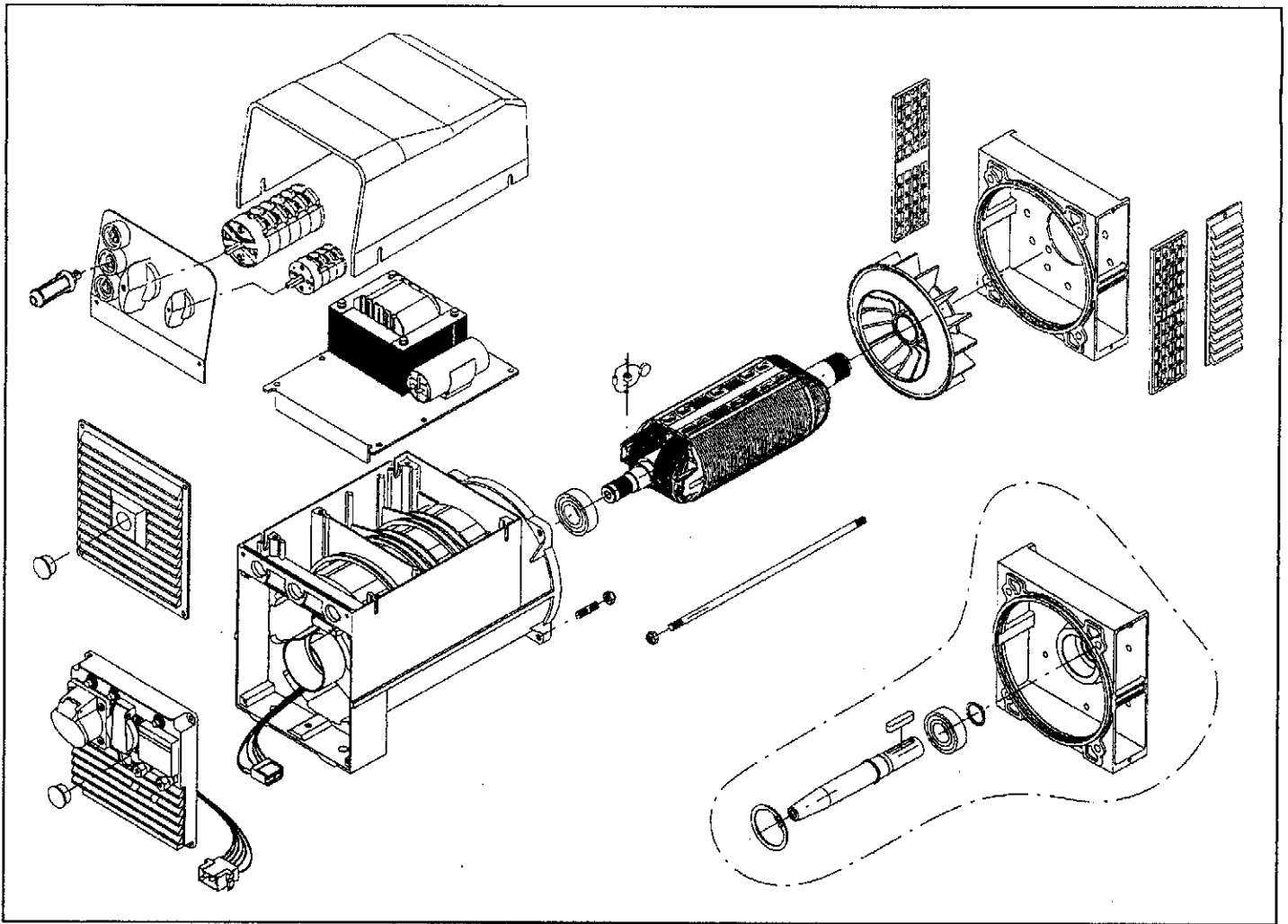
FORMA COSTRUTTIVA    SHAPE    FORME DE CONSTRUCTION    BAUFORM    FORMA DE CONSTRUCCION:    B35 (C.23-C.30)    cod.



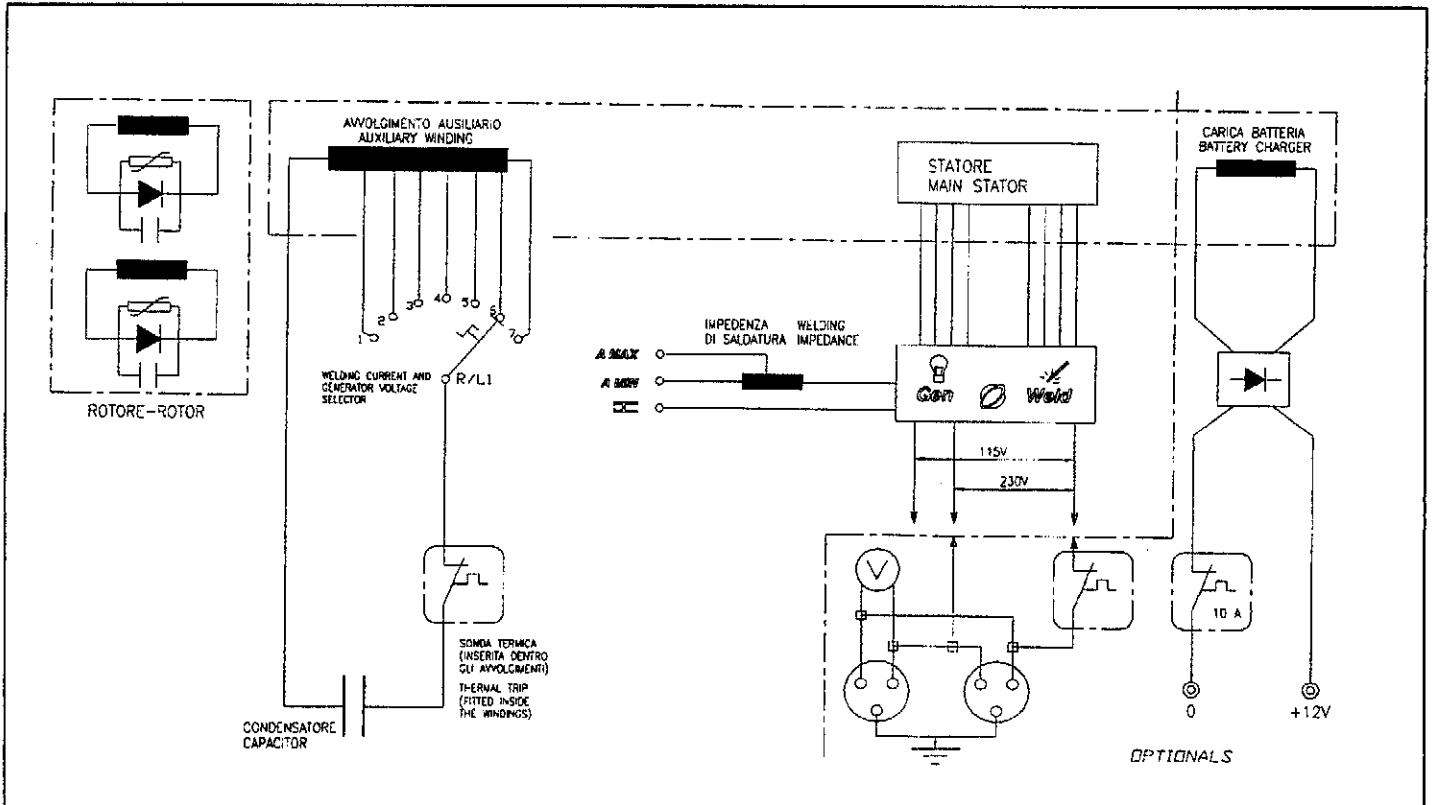
TYPE	Hz	B34 - B35 J609a B35 C.23-C.30				B35 J609b			
		A	B	C	D	A1	B1	C1	D1
EW 130 AC	50	365	69	315	282	381	85	331	282
EW 140 AC	60	365	69	315	282	381	85	331	282
EW 180 AC	50	365	69	315	282	381	85	331	282
EW 190 AC	60	365	69	315	282	381	85	331	282
EW 200 AC	50	420	124	370	337	436	140	386	337
EW 220 AC	60	420	124	370	337	436	140	386	337

	K
Presse schuko Schuko sockets	14
Presse CEE CEE sockets	45

EXPLODED VIEW



ELECTRIC DIAGRAM



**DICHIARAZIONE DI CONFORMITÀ CONFORMITY CERTIFICATE KONFORMITÄTSERKLÄRUNG DECLARATION DE CONFORMITÉ DECLARACIÓN DE CONFORMIDAD**

La Società The company Die Firma La société La sociedad

**SINCRO s.r.l.**

Via Tezze,3 - Loc. Cereda - 36073 - Cornedo Vicentino - (Vi) ITALY

dichiara sotto la propria responsabilità che le saldatrici declares under its own responsibility that the welding machine: erklärt unter der eigenen Verantwortung, daß der Bau und die Schweißmaschinen: déclare sous sa propre responsabilité que les soudeuses declara bajo su total responsabilidad que las soldadoras

**serie EW-AC**

**serie EW-AC**

**Reihe EW-AC**

**série AW-EC**

**serie AW-EC**

sono costruite e collaudate in accordo alle norme di seguito indicate:

are made and tested in compliance with the standards listed below:

in Übereinstimmung mit den nachstehend angegebenen Normen konstruiert und abgenommen wurden:

sont construits et testés selon les normes énumérées ci-après:

han sido fabricados y probados siguiendo la normativa que se detalla a continuación:

CEI EN 60034-1 (CEI 2-3 - NF 51.100 - VDE 0530 - BS 4999-5000)  
CEI EN 60204-1 (CEI 44-5)  
EN 292-1, 292-2  
EN60974-1 (IEC974-1)

e risultano conformi:  
1) ai requisiti generali di sicurezza stabiliti dalla Direttiva Bassa Tensione del 19 Febbraio 1973 (73/23 CEE), recepita in Italia con la legge n°791 del 18 Ottobre 1977.  
2) alla Direttiva 89/336 CEE (mod. dalla 93/68 CEE) riguardante il ravvicinamento delle legislazioni degli stati membri in materia di compatibilità elettromagnetica.  
La verifica di compatibilità è stata condotta in base alle seguenti norme:

and they comply:  
1) With the general safety requirements established by the low Voltage Directive of 19 February 1973 (73/23 EEC), assimilated in Italy with law n°791 of 18 October 1977.  
2) With Directive 89/336 EEC (mod. by 93/68 EEC) concerning the reconciliation of the legislation of member countries on the subject of electromagnetic compatibility. Compatibility was checked according to the following standards.

und den folgenden Bestimmungen entsprechen:  
1) den allgemeinen Sicherheitsanforderungen der Richtlinie für Niederspannung vom 19 Februar 1973 (73/23 CEE), in Italien mit dem Gesetz Nr. 791 vom 18 Oktober 1977 aufgenommen.  
2) die Richtlinie 89/336 CEE (Mod. der 93/68 CEE) bezüglich der Annäherung der Gesetzgebungen der Mitgliedsstaaten in Sachelektromagnetischer Kompatibilität. Die Kompatibilitätsprüfung wurde mit Zugrundelegung folgender Normen ausgeführt:

et sont conformes:  
1) Aux conditions générales de sécurité établies par la Directive relative à la basse tension du 19 Février 1973 (73/23 CEE), adoptée par l'Italie par promulgation de la loi n°791 du 18 Octobre 1977.  
2) A la Directive 89/336 CEE (et modification successive 93/68 CEE) concernant l'harmonisation des législations des états membres en matière de comptabilité électromagnétique. La vérification de compatibilité a été effectuée conformément aux normes suivantes:

y en conformidad a:  
1) las prescripciones que sobre seguridad quedan definidas en la Norma sobre la Baja Tensión del 19 de Febrero del 1973 (73/23 CEE) introducida en Italia con la ley n° 791 del 18 de Octubre del 1977.  
2) la Norma 89/336 CEE (y sucesiva modificación 93/68 CEE) sobre la compatibilidad electromagnética. La prueba de compatibilidad se ha realizado en base a las siguientes normas:

EN 55011 (CEI 110-6)  
EN 50081-1 (CEI 110-7)

EN 50082-1 (CEI 110-8)  
EN 50199

Le saldatrici oggetto della presente dichiarazione sono da intendersi come componenti; pertanto vige il divieto di messa in servizio prima che le macchine in cui saranno incorporati siano dichiarate conformi alle direttive riguardanti la sicurezza (CEE 89/392, art.4, allegato 2, lettera B; CEE 91/368, art.1) e la compatibilità elettromagnetica.

The welding machine to which this declaration refers are to be understood as components; it is therefore forbidden to put them into operation before the machines in which they are to be incorporated have been declared as conforming with the directives on safety (EEC 89/392, art.4, enclosure 2, letter B; EEC 91/368, art. 1).

Die Schweißmaschinen, die Gegenstand dieser Erklärung, sind als Komponenten zu verstehen; daher ist Ihre Inbetriebnahme verboten, bevor nicht die Maschinen, in die sie integriert werden, mit den Richtlinien bezüglich Sicherheit (CEE 89/392, Art. 4, Anlage 2, Buchstabe B; CEE 91/368, Art. 1) und elektrischer Kompatibilität für konform erklärt werden.

Les alternateurs objets de la présente déclaration doivent être considérés comme étant des composants. En conséquence, la mise en service de ces derniers est interdite, avant la mise en conformité des machines auxquelles ils seront incorporés. Les dites machines devront être déclarées conformes aux directives regardant la sécurité (CEE 89/392, art.4, annexe 2, lettre B; CEE 91/368, art.1) et la compatibilité électromagnétique.

Los alternadores objeto de la presente declaración han de entenderse como componentes; por lo tanto se prohíbe su puesta en servicio antes de que las máquinas a las cuales se acoplarán no se declaren conformes a las normas sobre seguridad (CEE 89/392, art. 4, anexo 2, letra B; CEE 91/368, art. 1) y sobre compatibilidad electromagnética.

Cereda di Cornedo, il 02/01/97

SINCRO s.r.l.  
L'Amministratore unico / The chairman  
Der Alleingesellschafter  
L'Administrateur unique / El Gerente  
SOG. LIMO