



MACKINA - WESTFALIA



# FLAMEPROOF COMPACT STATION KE 52

Product Description

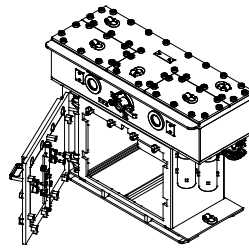




GENERAL DESCRIPTION

ATEX flameproof compact station with a main contactor of 315A that allows multiple configurations working up to 1.000v. The enclosure has two withdrawable chassis, in which it can be assemble.

KE52
COMPACT STATION
FAMILY



89918.9000
FLAMEPROOF BOX

Flameproof box features:
Input /Switch/Busbar
In : 315 A
440V -> 200 kW
525V -> 225 kW
1kV -> 430 kW
Per output:
In : 315 A
440V -> 200 kW
525V -> 225 kW
1kV -> 430 kW

400-690 V

1000-1.140 V

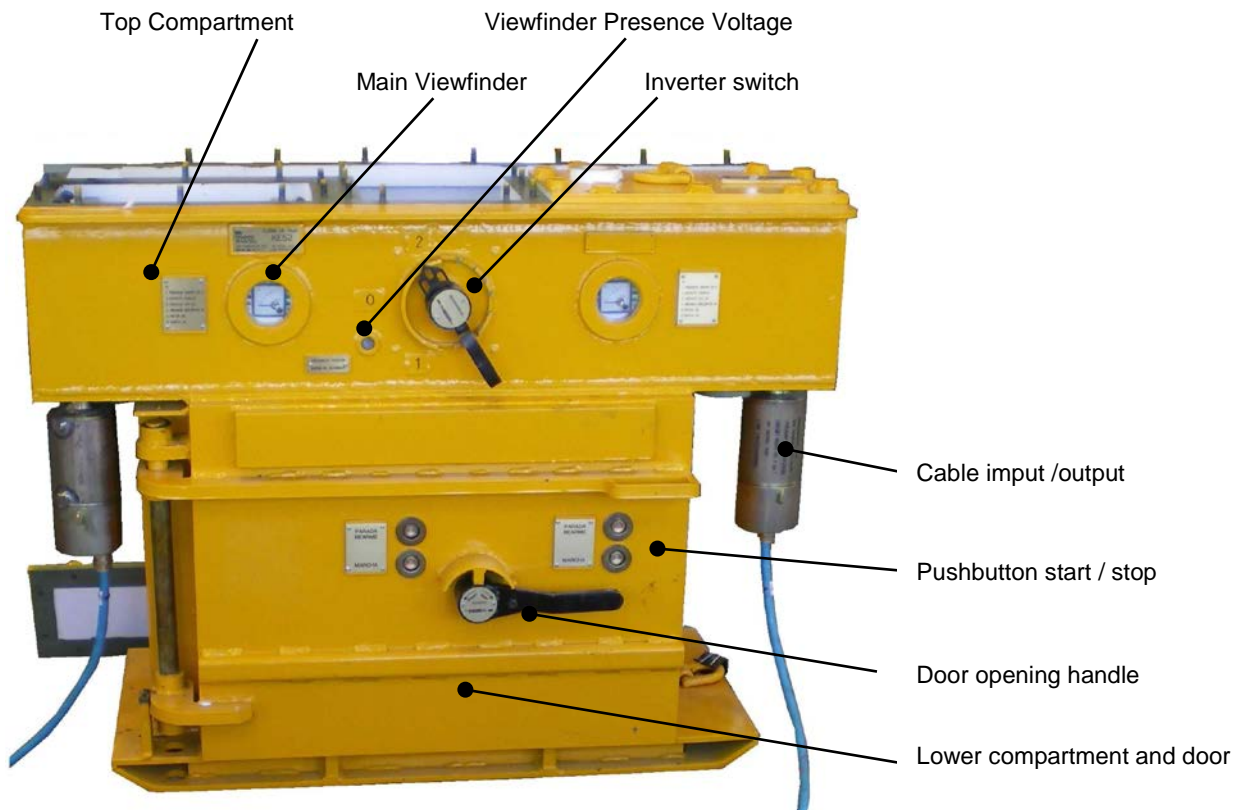
Table with 8 columns showing different compact station configurations: 89918.910x (Air Contactor), 89918.911x (Vacuum Contactor), 89918.912x (Air Contactor), 89918.913x (Air Inverter), 89918.916x (Lighting 230V), 89918.9180 (Vacuum Contactor), 89918.9170 (Lighting 230V), and 89918.9150 (Vacuum Contactor). Each entry includes a 3D cutaway diagram and a corresponding scheme number.

The different types of chassis will be selected depending on the use that is needed and always with the base that the maximum amperage for both output is 315A in one or two chassis.

## COMPACT ESTATION KE52 DESCRIPTION

### COMPACT ESTATION

On the compact station KE52 the main elements are:



### Top Compartment

The top compartment is divided in three different blocks,

The main one is located in the center and it has the general input, the general switch and a bypass to another compact station. There is also a viewfinder presence voltage.

The compartments located at both ends are dedicated to the connection of the equipment that should be protected and controlled from the compact station.

There is a viewfinder in each block in which is shown the intensity of each output and the status of the different protections.

### Cable input and outputs.

On the sides of the compact station and protected against shock are the cable glands, as well as the intrinsically safety interfaces needed for the control.



### Main switch

A changeover switch of 3x400A with three positions moved by a door handle in the housing, transfer the voltage to the lower compartment and accordingly to the equipment controlled by the compact station

### Door handle for opening the compact station

The compact station has two different safety interlocks to assure that the lower door can not be opened with voltage

There is a mechanical and an electrical interlock

- The electrical interlock is made through a contact in the main switch which cut the voltage when the door handle goes from position 1 or 2 to position 0.
- The mechanical interlock is made with a metal rod, between the internal side of the door handle and the internal mechanism for opening the door. The metal rod assure that if the main switch is in position 1 or 2 it is not possible to open de door. It is only possible to open the door if the main switch is in position 0. In the same way, if the door is open it is not possible to move the door handle to position 1 or 2.



### Working mode

The switch box can work with a local control or remote control. The local control is made by the push buttons included in the housing of the compact station being possible to make work each chassis. The remote control is made by a corded handset for each output. In each chassis there is a selector to choose between both working methods.

Inside of the compact station and in each chassis there is another selector that allows to choose a second working method. Each chassis can work: Main, slave or independent.

- **Slave:** In this way the chassis only starts or stop when the other chassis do it.
- **Main:** When the chassis starts or stops it give the order to the other chassis to make the same.
- **Independent:** Each chassis Works independent from the other.





FLAMEPROOF COMPACT STATION MOD. KE52

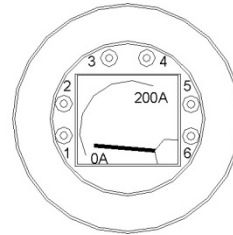
Control operation

There are two viewfinder in the compact station, one for each chassis.

There is a viewfinder in each block in which is shown the intensity of each output and the status of the different protections using 6 different leds



The information of the leds is showed in the picture



- HL
- 1.- PRESENCE OF VOLTAGE 220V.
- 2.- THERMAL DEFAULT
- 3.- INSULATION
- 4.- CABLE SURVILLANCE
- 5.- MOTOR ON
- 6.- CHASSIS OK

Protection for flexible cable

Depending on the cable that is going to be used from the compact station to the motors, it is possible to use to different configurations.

- Kit "PUENTE".- It is used for cables not flexible, normally used for fix installations. The compact station normally goes with that configurations
- Kit "290".- It is used for flexible cables.

CERTIFICADOS

LOM 07ATEX1060



**LABORATORIO OFICIAL J. M. MADARIAGA**



(1)	<b>CERTIFICADO DE EXAMEN CE DE TIPO</b>
(2)	Equipos y sistemas de protección destinados a ser utilizados en atmósferas potencialmente explosivas. Directiva 94/9/CE
(3)	Certificado de Examen CE de Tipo <b>LOM 07ATEX1060</b>
(4)	Equipo o sistema de protección <b>Cofre de tajo Tipo KE52</b>
(5)	Solicitante <b>PROMINING S.A.</b>
(6)	Dirección <b>Ctra. de Zaragoza, km 8,5 31191 BERIAIN (NAVARRA) ESPAÑA</b>
(7)	Este equipo o sistema de protección y sus variantes eventualmente aceptadas está descrito en el anexo del presente certificado y en los documentos descriptivos citados en dicho anexo
(8)	El Laboratorio Oficial J.M. Madariaga (LOM), organismo notificado bajo la referencia nº 0163, conforme al artículo 9 de la Directiva 94/9/CE del Parlamento Europeo y del Consejo del 23 de Marzo de 1994, certifica que este equipo o sistema de protección es conforme a los Requisitos Esenciales de Seguridad y Salud relativos al diseño y construcción de equipos y sistemas destinados a ser utilizados en atmósferas potencialmente explosivas, indicados en el Anexo II de la Directiva. Las verificaciones y ensayos se recogen en el protocolo confidencial <b>LOM 07.171 VP</b>
(9)	El cumplimiento con los Requisitos Esenciales de Seguridad y Salud está basado en la conformidad a los siguientes documentos: - Normas <b>EN 60079-0:2006</b> <b>EN 60079-1:2004</b>



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