

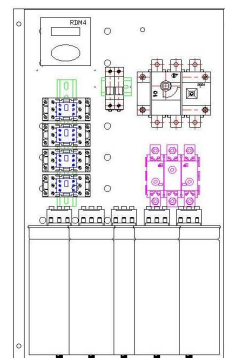


## ALFA1A - ALFA15

from 35 to 100 kVAr

Automatic power factor correction equipment ALFA model, with colour RAL 7035 at bent. The system is equipped with disconnecting door switch, microprocessor RDM 4 Base controller with 4 outputs and current alarms (maximum and minimum), voltage (range + 10-15%) and over compensation and undercompensation. Contactors for capacitors with insertion resistors inrush current limiting with early contact. Battery protection fuses composed of three-phase cylindrical capacitors.

Indoor wall installation with special mounting brackets and cable entry from the top.



### DATA EQUIPMENT

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|                                    |    | kVAr<br>effective 400V         | kVAr<br>415V | Batteries to 415V |
|------------------------------------|----|--------------------------------|--------------|-------------------|
| Reactive Power                     |    | 33                             | 35           | 5-10-20           |
|                                    |    | 38                             | 40           | 10-10-20          |
|                                    |    | 47                             | 50           | 12,5-12,5-25      |
|                                    |    | 58                             | 62,5         | 12,5-25-25        |
|                                    |    | 70                             | 75           | 12,5-25-37,5      |
|                                    |    | 82                             | 87,5         | 12,5-25-50        |
|                                    |    | 93                             | 100          | 25-25-50          |
| Degree of protection               | IP | 30 ( on request 54)            |              |                   |
| Three-phase power supply, Un       | V  | 400 (other voltage on request) |              |                   |
| Rated frequency                    | Hz | 50                             |              |                   |
| Auxiliary circuits voltage         | V  | 400 ( on request 110V 230V)    |              |                   |
| Ambient temperature limits min-max | °C | -15°C ÷ +35°C                  |              |                   |
| Dimensions (HxWxD)                 | mm | 700 x 420 x 260                |              |                   |
| Ventilation                        | —  | natural                        |              |                   |
| Protection fuse battery            | —  | Type NH00 category gG          |              |                   |
| Cable entry                        | —  | Top                            |              |                   |

### DATA REGULATOR RDM 4 Base

|                                     |      |                                                                           |
|-------------------------------------|------|---------------------------------------------------------------------------|
| N° of batteries controller          | N°   | 4                                                                         |
| Control Batteries                   | —    | Manual / Automatic                                                        |
| Alarm                               | —    | Overvoltage, Overcurrent, Over, Undercompensation, Overtemperature, THDI% |
| Display                             | —    | 3 + 1 digits 7 led segments                                               |
| Parameters displayed on the display | —    | Voltage, Current, Cos $\phi$ , $\Delta$ kVAr                              |
| Electrical quantities measured      | —    | Voltage, Current, Cos $\phi$ , 2 or 4 quadrant mode                       |
| Power factor adjustment             | —    | 0,85 ind. – 0,95 cap.                                                     |
| Range primary current transformer   | A    | 5-10.000                                                                  |
| Reactive power capacitor bank       | kVAr | 0,1 – 6500                                                                |
| Sensitivity adjustment              | s    | 5 – 100                                                                   |
| Reconnection time                   | s    | 5 -240                                                                    |
| Range capacitor voltage             | V    | 100 – 1000                                                                |
| Alarm relay contacts capacity       | —    | no                                                                        |
| Power                               | VA   | 3                                                                         |

### DATA CAPACITORS

ALF1A.....

ALF15.....

|                             |        |                                              |                                          |
|-----------------------------|--------|----------------------------------------------|------------------------------------------|
| Type capacitor installed    | —      | ST Three-phase                               | AT Three-phase                           |
| Rated voltage capacitor     | V      | 415<br>(on request 450-500-550)              | 415<br>(on request 440V up to 800V)      |
| Losses dielectric           | W/kVAr | ≤0,2                                         | ≤0,2                                     |
| Class of temperatur         | —      | -25D                                         | -40D                                     |
| Inrush current              | A      | 200xIn                                       | 400xIn                                   |
| Overcurrent                 | A      | 4 x In                                       | 1,5 ÷ 2 x In                             |
| THDI r/c                    | %      | 20/50 (415V)<br>25/70 (450V)                 | 15/50 (415V)<br>20/70 (450V)             |
| Statistical life expectancy | h      | 130.000 (-25/C)<br>110.000 (-25/D)           | 150.000 (-40/D)                          |
| Altitude max                | m      | ≤ 2000 above sea level                       | ≤ 4.000 above sea level                  |
| Dielectric system           | —      | MKP metallised polypropylene<br>stronger     | MKP metallised polypropylene<br>stronger |
| Impregnation                | —      | Dry resin                                    | Dry type inert gas AZOTO N2              |
| Descarge resistor           | —      | 50V - 60 s                                   | 50V - 60s                                |
| Safety features             | —      | Overpressure disconnector                    | Overpressure disconnector                |
| Standard                    | —      | CEI EN 61921, CEI EN 60439-1, CEI EN 60831-1 |                                          |