

TECHNICAL DATA SHEET



ALTERNATOR E1W13S/2 300DC

DC brushless welder

E1W13S/2 300DC

COMMON DATA

| | | | |
|----------------------|---------------------|--|-------------|
| Rated Power at 50Hz | kVA | 8,5 | |
| Rated Power at 60Hz | kVA | 10,2 | |
| Rated Power Factor | | 0,8 | |
| Nominal Temperature | °C | 40 | |
| Control System | | self-excited | |
| Execution | | Brushless | |
| Insulation Class | | H | |
| Protection | | IP21 | |
| Maximum Over speed | rpm | 4500 | |
| Overload | | 110% of rated power for one hour in a cycle of 6 hours | |
| Air Flow Requirement | m ³ /min | 8,2 at 50Hz | 9,8 at 60Hz |
| R.F.I. Suppression | | Standard EN55011 | |

REGULATION DATA

| | | |
|--------------------|--|--------------|
| Regulation | | SG132 |
| Sensing | | Single-Phase |
| Voltage Regulation | | ±1% |

WINDING DATA

| | | |
|---------------------------|---|-------------------|
| Rotor Winding | | with damping cage |
| Number of Leads of Stator | | 6 |
| Stator Winding Resistance | Ω | 1,05 at 20°C |
| Rotor Winding Resistance | Ω | 9,79 at 20°C |
| Exciter Stator Resistance | Ω | 16,5 at 20°C |
| Exciter Rotor Resistance | Ω | 2,15 at 20°C |

STANDARD

| | | |
|------------|--|-----------------------------|
| References | | EN60034-1 ISO8528-3 EN55011 |
|------------|--|-----------------------------|

E1W13S/2 300DC

ELECTRICAL DATA

| | | |
|---------------------------|----------|---------------------------------|
| No load voltage | V_{AC} | 80 |
| Welding voltage | V_{AC} | 20-32 |
| Regulation range | A_{AC} | 35-300 |
| Max. current at 35% | A_{AC} | 300 |
| Max. current at 60% | A_{AC} | 240 |
| Max. current at 100% | A_{AC} | 185 |
| Stator Winding Resistance | Ω | 0,023 at 20°C |
| Electrodes type | | basic; cellulosic; inox, rutile |
| Electrodes diameter | mm | 1 - 5(6) |

MECHANICAL DATA

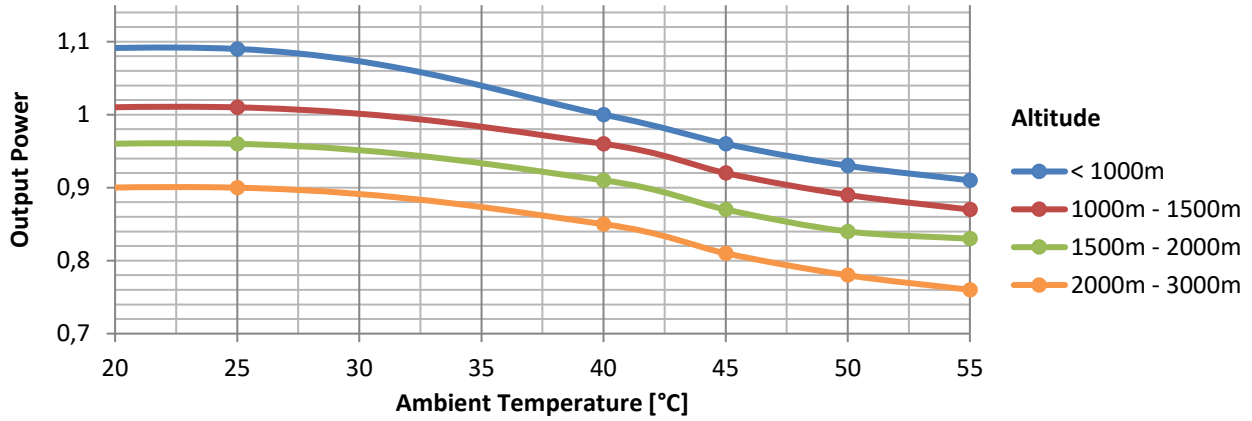
| | | | |
|---------------------------------|-----------|------------|------|
| Bearing non drive end | | 6305-2Z-C3 | |
| Bearing drive end (B3/B14 form) | | 6208-2Z-C3 | |
| Weight of generator | in B2 | kg | 85 |
| | in B3/B14 | kg | 80,9 |
| | in B3/B9 | kg | \ |

MOMENT OF INERZIA

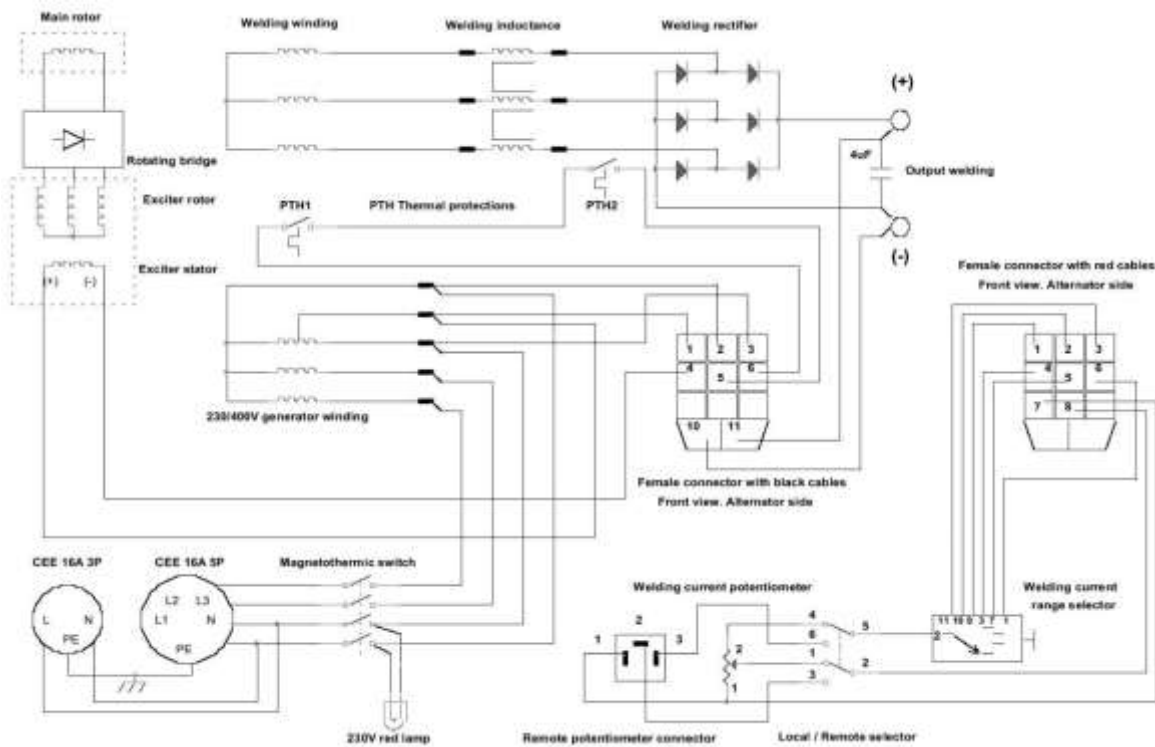
| | | |
|---------|----------------|-------|
| B3/B9 | $kg \cdot m^2$ | \ |
| SAE 7½ | $kg \cdot m^2$ | 0,067 |
| SAE 8 | $kg \cdot m^2$ | 0,067 |
| SAE 10 | $kg \cdot m^2$ | 0,067 |
| SAE 11½ | $kg \cdot m^2$ | 0,067 |
| SAE 14 | $kg \cdot m^2$ | \ |
| SAE 18 | $kg \cdot m^2$ | \ |
| B3/B14 | $kg \cdot m^2$ | 0,081 |

E1W13S/2 300DC

DERATING CURVES



WIRING DIAGRAM



E1W13S/2 300DC

DIMENSIONI D'INGOMBRO E1W13S DC - E1W13S DC OVERALL DIMENSIONS

