

DIN EN ISO 22829:2018-01 (E)

Resistance welding equipment - Transformers - Integrated transformer-rectifier units for welding guns operating at 1 000 Hz (ISO 22829:2017)

| Contents | Page |
|--|-------------|
| European foreword..... | 3 |
| Foreword..... | 4 |
| 1 Scope | 5 |
| 2 Normative references | 5 |
| 3 Terms and definitions | 5 |
| 4 Power supply to the transformer-rectifier unit | 5 |
| 5 Transformer types | 6 |
| 6 Dimensions | 6 |
| 7 Additional equipment | 7 |
| 7.1 Grounding provision..... | 7 |
| 7.2 Thermal protection..... | 7 |
| 7.3 Output current sensing coil..... | 7 |
| 7.4 Output voltage sensing wires..... | 7 |
| 8 Protection of the rectifier | 7 |
| 9 Marking | 7 |
| 9.1 Primary..... | 7 |
| 9.2 Output terminals..... | 7 |
| 9.3 Rating plate..... | 8 |
| 10 Designation | 8 |
| 11 Test conditions | 8 |
| 11.1 Type tests..... | 8 |
| 11.2 Routine tests..... | 9 |
| 11.3 Test procedures..... | 9 |
| 11.3.1 General visual examination..... | 9 |
| 11.3.2 Open-circuit tests..... | 9 |
| 11.3.3 Minimum output current under load condition..... | 9 |
| 11.3.4 Cooling circuit test..... | 9 |
| 11.3.5 Dynamic behaviour of the output terminals..... | 9 |
| 11.3.6 Mechanical strength..... | 11 |
| Annex A (informative) Relationship between output current and duty factor | 12 |
| Annex B (normative) Dimensions of transformers | 13 |
| Bibliography | 18 |