



D-Vo

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| Model | D-Vo |
| Frame size | 400 ÷ 900 |
| Regulator | D-Vo |
| Part number | 10024470 |
| Compliance | CE UL pending |

Main Data

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| Generator frame size | <p>Standard: ≥800 frame size and all HV standard generators</p> <p>On request: 160 ÷ 710 frame size</p> |
| AVR supply | <p>Auxiliary winding</p> <p>PMG</p> <p>Mains</p> |
| Voltage sensing | Single phase 3-phase |
| Voltage remote control | Arrangement |
| Radio interference suppressor | Arrangement for external filters |
| Over-excitation device | Arrangement for varicomp PMG |
| Parallel operation with the mains | Internal |

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| Parallel operation with similar generators | Arrangement |
| Standard protections | Field over-current, field over-voltage, generator over/under voltage, generator over-current, loss of sensing Diode monitoring (DMS) |
| Limiters | Under-frequency, over/under-excitation |
| Function | PC interface, Modbus TCP/IP, FRT detection, soft start, 9 digital input, 3 digital inputs, 3 analogue inputs, external potentiometer |
| Electrical characteristics | |
| Power supply voltage | 170 ÷ 277 Vac @ 50-400 Hz Control power supply 24 ÷ 250 Vac @ 50 ÷ 400 Hz - 1-ph/3-ph |
| Power supply source | Auxiliary windings, mains, PMG |
| Voltage build-up | 6 Vac |
| Voltage sensing type | 1-phase / 3-phase |
| Voltage sensing range | 100 ÷ 480 Vac |
| Current sensing type | 1-phase / 3-phase |
| Current sensing range | 1A |
| Maximum continuative field current | 0 ÷ 10 Adc |
| Maximum forcing field current | 0 ÷ 20 Adc |

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| Maximum field voltage | 200 Vdc |
| Field resistance | 3 Ω ÷ 20 Ω |
| Regulation accuracy from no load to full load | ±0.25% of rated voltage |
| Steady state accuracy | ±0.1 % of rated voltage |
| Accuracy with ±4% engine governing | ±1 % of rated voltage |
| PF / VAR / FCR modes | <p>PF mode: ±0.005PF(with PF between 0.9 lagging and 0.9 leading)</p> <p>VAR mode: ±2% of rated power</p> <p>FCR mode: ±2% of rated exciter current</p> |
| Voltage matching | ±2% of rated voltage |
| Thermal Drift | ±0.5 % of rated voltage |
| Response time | 1 cycle |
| Operating temperature | -30°C ÷ +70°C |
| Storage temperature | -40°C ÷ +80°C |
| Features | |
| Interface | D-Vo Software |
| Function | <p>Droop compensation</p> <p>Soft start</p> <p>Voltage matching</p> <p>Modbus TCP/IP</p> <p>FRT detection</p> |

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|------------------------------|---|
| Protection | <p>Under-frequency limiter Over-excitation limiter Under-excitation limiter Field over-voltage Field over-current Generator over-voltage Generator under-voltage Generator over-current Loss of sensing Diode monitoring</p> |
| Control | <p>2 current inputs (4/20mA) 1 voltage input (+/- 10V) connection to external potentiometer 10kohm available 9 digital contact inputs (8 programmable) 3 digital outputs</p> |
| Dimensions and weight | |
| L | 335 mm |
| B | 189,6 mm |
| K | 322 mm |
| J | 148,5 mm |
| H | 60 mm |
| Weight | 3000g |

Drawing

