



| Product designation Thyristor modules Product type designation DCTL General characteristics 340440 Rated voltage V 400 Operating voltage range 340440 Rated frequency Hz 50/60 Operating frequency range Hz 4565 Rated current (le) A 11 Step power at 400VAC kvar 400VAC kvar 7.5 Peak inverse voltage (PIV) VAC 1800 Number of controlled phases Nr. 2 Import of controlled phases Nr. 2 Control circuit card EXC1042 in combination with controller phases card EXC1042 in combination with controller phases Ac min VAC 100 Max VAC 240 Auxiliary supply voltage US availiary rated frequency Hz Ac 11.3 Power consumption Max VA | | | | ► 2 - 12 + 12 + 13 |
|--|-----------------------------------|--------|------|---|
| General characteristics V 400 Rated voltage V 400 Operating voltage range 340440 Rated frequency Hz 50/60 Operating frequency range Hz 4565 Rated current (le) A 11 Step power at 400VAC kvar 7.5 Peak inverse voltage (PIV) VAC 1800 Number of controlled phases Nr. 2 Number of controlled phases Nr. 2 12-24VDC input or free-voltage input or via reserval are the exc1042 in combination with controllar bases RS485 serial port (with optional card EXC1042 in combination with controller DCRG8F + EXP1012) Auxiliary supply AC 100 Max VAC 100 Max VAC 240 240 240 | Product designation | | | |
| Rated voltage V 400 Operating voltage range 340440 Rated frequency Hz 50/60 Operating frequency range Hz 4565 Rated current (le) A 11 Step power at 400VAC kvar 7.5 Peak inverse voltage (PIV) VAC 1800 Number of controlled phases Nr. 2 Image: Control circuit refree-voltage input or via RS485 serial port (with optional card EXC1042 in combination with controller DCR68F + EXP1012) Auxiliary supply AC 100 Max VAC 240 | Product type designation | | | DCTL |
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| Rated frequency Hz 50/60 Operating frequency range Hz 4565 Rated current (le) A 11 Step power at 400VAC kvar 7.5 Peak inverse voltage (PIV) VAC 1800 Number of controlled phases Nr. 2 Control circuit 12-24VDC input or free-voltage input or via RS485 serial port (with optional card EXC1042 in combination with controller) Control circuit RS485 serial port Auxiliary supply Rated auxiliary supply voltage Us AC AC min VAC Max VAC 240 Auxiliary rated frequency Hz 50/60 Power consumption Max VA 11.8 | Rated voltage | | V | 400 |
| Operating frequency range Hz 4565 Rated current (le) A 11 Step power at 400VAC kvar 7.5 Peak inverse voltage (PIV) VAC 1800 Number of controlled phases Nr. 2 Control circuit a 112-24VDC input or free-voltage input or via RS485 serial port (with optional card EXC1042 in combination with controller DCRG8F + EXP1012) Auxiliary supply AC min VAC 100 Max VAC 240 400 400 Auxiliary rated frequency Hz 50/60 500 | Operating voltage range | | | 340440 |
| Rated current (le) A 11 Step power at 400VAC kvar 7.5 Peak inverse voltage (PIV) VAC 1800 Number of controlled phases Nr. 2 Control circuit ree-voltage input or via RS485 serial port (with optional card EXC1042 in combination with controller RS485 serial port (with optional card EXC1042 in combination with controller Auxiliary supply Rated auxiliary supply voltage Us AC min VAC 100 Max VAC 100 Max VAC 240 Auxiliary rated frequency Hz 50/60 50/60 VA 11.8 | Rated frequency | | Hz | 50/60 |
| Step power at 400VAC kvar 7.5 Peak inverse voltage (PIV) VAC 1800 Number of controlled phases Nr. 2 12-24VDC input or free-voltage input or via RS485 serial port (with optional card EXC1042 in combination with controller RS485 serial port (with optional card EXC1042 in combination with controller Auxiliary supply Rated auxiliary supply voltage Us AC min VAC 100 Max VAC 100 Max VAC 240 Auxiliary rated frequency Hz 50/60 50/60 Power consumption Max VA 11.8 | Operating frequency range | | Hz | 4565 |
| 400VACkvar7.5Peak inverse voltage (PIV)VAC1800Number of controlled phasesNr.212-24VDC input or free-voltage input or via RS485 serial port (with optional card EXC1042 in combination with controller DCRG8F + EXP1012)12-24VDC input or free-voltage input or via RS485 serial port (with optional card EXC1042 in combination with controller DCRG8F + EXP1012)Auxiliary supplyImage: Control contro | Rated current (Ie) | | А | 11 |
| Peak inverse voltage (PIV) VAC 1800 Number of controlled phases Nr. 2 Image: Automatic controlled phases 12-24VDC input or free-voltage input or via RS485 serial port (with optional card EXC1042 in combination with controller DCRG8F + EXP1012) Auxiliary supply EXP1012) Auxiliary supply voltage Us AC min VAC 100 Max Auxiliary rated frequency Hz 50/60 Power consumption Max VA 11.8 | Step power at | | | |
| Number of controlled phases Nr. 2 Number of controlled phases 12-24VDC input or free-voltage input or via RS485 serial port (with optional card EXC1042 in combination with controller DCRG8F + EXP1012) Rescuence of the controller of the controller DCRG8F + EXP1012) Auxiliary supply Ac min VAC 100 Max VAC 240 Auxiliary rated frequency Hz 50/60 Power consumption Max VA 11.8 | | 400VAC | kvar | 7.5 |
| Control circuit 12-24VDC input or free-voltage input or via RS485 serial port (with optional card EXC1042 in combination with controller DCRG8F + EXP1012) Auxiliary supply Rated auxiliary supply voltage Us AC Auxiliary rated frequency Hz Fourier 50/60 Power consumption Max VA | Peak inverse voltage (PIV) | | VAC | 1800 |
| Control circuit or free-voltage input or via RS485 serial port (with optional card EXC1042 in combination with controller DCRG8F + EXP1012) Auxiliary supply DCRG8F + EXP1012) Rated auxiliary supply voltage Us AC min VAC 100 Max VAC 240 Auxiliary rated frequency Hz 50/60 Power consumption Max VA< 11.8 | Number of controlled phases | | Nr. | 2 |
| Rated auxiliary supply voltage Us AC min VAC 100 Max VAC 240 Auxiliary rated frequency Hz 50/60 Power consumption Max VA 11.8 | Control circuit | | | or free-voltage input or via RS485 serial port (with optional card EXC1042 in combination with controller DCRG8F + |
| AC min VAC 100 Max VAC 240 Auxiliary rated frequency Hz 50/60 Power consumption Max VA 11.8 | Auxiliary supply | | | |
| min MaxVAC VAC100 240Auxiliary rated frequencyHz50/60Power consumption MaxVA11.8 | Rated auxiliary supply voltage Us | | | |
| MaxVAC240Auxiliary rated frequencyHz50/60Power consumption MaxVA11.8 | AC | | | |
| Auxiliary rated frequencyHz50/60Power consumption MaxVA11.8 | | min | - | |
| Power consumption Max VA 11.8 | | Max | VAC | 240 |
| | Auxiliary rated frequency | | Hz | 50/60 |
| Power dissipation Max W 4.6 | Power consumption Max | | VA | 11.8 |
| | Power dissipation Max | | W | 4.6 |

| | •• | 1.0 |
|---------------------------------------|-----|------------------------------|
| Control input | | |
| Terminals | | CONTROL +/- |
| Rated voltage | | 12-24VDC |
| Operating range | | 830VDC |
| Digital inputs | | |
| Terminals | | C-IN1 |
| Applied voltage at contact (internal) | | 5VDC |
| Input current | mA | ≤10 |
| Low input signal | VDC | ≤0.8 |
| High input signal | VDC | ≥3.2 |
| Input signal delay | ms | ≥50 |
| NTC probe input | | |
| Terminals | | NTC-NTC |
| Sensor type | | NTC (ordering code NTC01) |



| Measuring range | | °C | -25+85 |
|---|-----|-----------------|--|
| Maximum connection lenght | | mt | 3 |
| Fan power supply | | | |
| Terminals | | | FAN +/- |
| Supply voltage (internal) | | | 5VDC (provided by DCTL) |
| Fan type | | | 1 built-in fan type EXP8004 |
| Relay outputs | | | |
| Number of relay output | | Nr. | 1 |
| Contact arrangement | | | 1 C/O-SPDT |
| Rated current | | | NO contact: AC1 5A 250VAC / 5A 30VDC NC contact: AC1 3A 250VAC / 3A 30VDC |
| UL/CSA and IEC/EN 60947-5-1 designation | | | D300 |
| Maximum switching voltage | | VAC | 250 |
| Electrical life (with rated load) | | cycles | NO contact: 10x10 ³ NC contact: 20x10 ³ |
| Mechanical life | | cycles | 107 |
| Insulations | | | |
| Rated insulation voltage Ui IEC/EN | | V | 480 |
| Rated impulse withstand voltage Uimp | | kV | 4 |
| Connections - power terminals | | | |
| Type of terminal | | | Fixed - double lock clamp |
| Conductor cross section | | | |
| | min | mm² | 2 x 2.5 |
| | Max | mm² | 2 x 35 |
| | min | AWG | 2 x 18 |
| Tightening terror (March) | Max | AWG | 2 x 2 |
| Tightening torque (Max) | | Nine | 4 5 |
| | | Nm lbin/lbft | 4-5 2.95-3.69 lbft |
| Connections - relay output | | | 2.95-3.09 1011 |
| Type of terminal | | | Screw |
| Conductor cross section | | | 001011 |
| | min | mm² | 0.2 |
| | Max | mm² | 4 |
| | min | AWG | 26 |
| | Max | AWG | 10 |
| Tightening torque (Max) | | | |
| | | Nm | 0.8 |
| | | lbin | 7 |
| Connections - fan and digital input | | | |
| Type of terminal | | | Screw |
| Conductor cross section | | | |
| | min | mm² | 0.2 |
| | Max | mm² | 2.5 |
| | min | AWG | 24 |
| | Max | | 10 |

Max

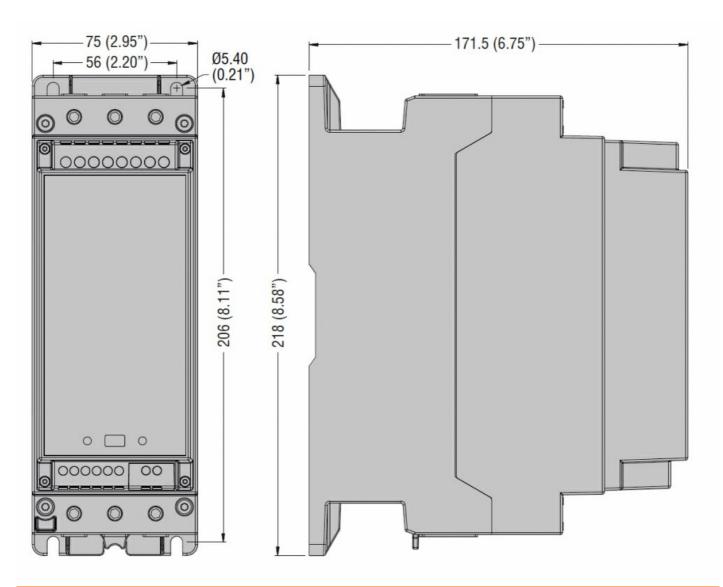
AWG

12

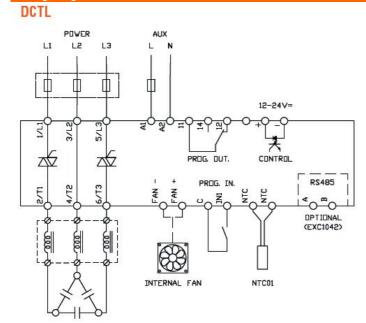


| Tightening torque (Max) | | | |
|--------------------------|-----|------|-------------------------------|
| | | Nm | 0.44 |
| | | lbin | 4 |
| Ambient conditions | | | |
| Temperature | | | |
| Operating temperature | | | |
| | min | °C | -20 |
| | | | +45°C without |
| | max | °C | derating (up to 55°C with |
| | | | derating) |
| Storage temperature | | | derating |
| | min | °C | -30 |
| | max | °C | +80 |
| Relative humidity | | % | <80% |
| Maximum Pollution degree | | | 2 |
| Overvoltage category | | | |
| Max altitude | | m | 2000m wihtout |
| | | | derating |
| Climatic sequence | | | Z/ABDM (IEC/EN 60068-2-61) |
| Shock resistance | | | 15g (IEC/EN |
| | | | 60068-2-27) |
| Vibration resistance | | | 0.7g (IEC/EN 60068-2-6) |
| Housing | | | 00000 2 0) |
| | | | Internal panel |
| Execution | | | version |
| Material | | | Polycarbonate |
| | | | Screw fixing or |
| | | | DIN-rail (IEC/EN |
| Mounting | | | 60715) with optional |
| | | | accessory |
| | | | EXP8003 |
| Degree of protection | | | IP00 |
| Dimensions (W x H x D) | | mm | 75 x 218 x 171.5 |
| Weight | | g | 1740 |
| Dimensions | | | |





Wiring diagrams



Certifications and compliance Compliance



| | IEC/EN 60947-4-3 | |
|---------------------|------------------|------------|
| | IEC/EN 61000-6-2 | |
| | IEC/EN 61000-6-4 | |
| Certificates | | |
| | cULus | |
| ETIM classification | | |
| | | EC002055 - |

ETIM 8.0

EC002055 -Solid state relay