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| Product designation | Solid state relay |
| Product type designation | HS3D |
| Type | Three-phase (3 controlled) |

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| Input characteristics | |
| Control voltage | 24...255VAC/DC |
| Operating voltage limits | |

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| | Operating voltage pick-up | V | 24 |
| | Operating voltage drop-out | V | 2 |
| Input current at min...max voltage | | mA | 4.5...6 |

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| Operating times | |
| Switching-on | Half cycle max |
| Switching-off | Half cycle max |

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| Output characteristics | |
| Switching mode | Zero crossing |
| Rated operating voltage | VAC 24...520 |
| Blocking voltage | V 1600 |
| Operational frequency (min...max) | Hz 45...65 |
| Rated operating current AC-51 (resistive load) at 40°C | A 24 |
| Rated operating current AC-51 (resistive load) at 55°C | A 18 |
| Rated operating current AC-53 (motor load) at 40°C | A 12 |
| Operational current min | A 0.05 |
| Non repetitive surge peak on state current t=10ms | A 750 |
| Off state leakage current | mA 1 |
| On state output voltage drop | V 1 |
| Critical rate of rise of off-state voltage dv/dt | V/μs 500 |
| Input - Output isolation | V 4000 |
| Input - Output to metal base | V 4000 |
| Output protection type | VDR |
| I ² t | A2s 2800 |

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| Terminal characteristics | |
| Control terminals | Type Screw M4 |
| Terminals tool | PZ2 |

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| Tightening torque control terminals | Nm 1.2...2 |
| | lbin 10.6...17.7 |

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|---|----------------------------------|-----------------|------------|
| Conductor section connectable (control terminals) with 1 or 2 wires min...max | | | |
| | AWG stranded | n° | 18...14 |
| | Flexible w/o lug | mm ² | 0.75...2.5 |
| | Flexible c/w insulated spade lug | mm ² | 0.75...2.5 |

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| Load terminals | Type Screw M5 |
| Load terminals tool | PZ2 |

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| Tightening torque load terminals | Nm 2...3 |
| | lbin 20.4 |

Conductor section connectable (load terminals) with 1 or 2 wires min...max

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| AWG stranded | n° | 16...10 |
| Flexible w/o lug | mm2 | 1.5...6 |
| Flexible c/w insulated spade lug | mm2 | 1.5...6 |

Operating position

allowable Any

Fixing

Screw

Ambient conditions

Temperature

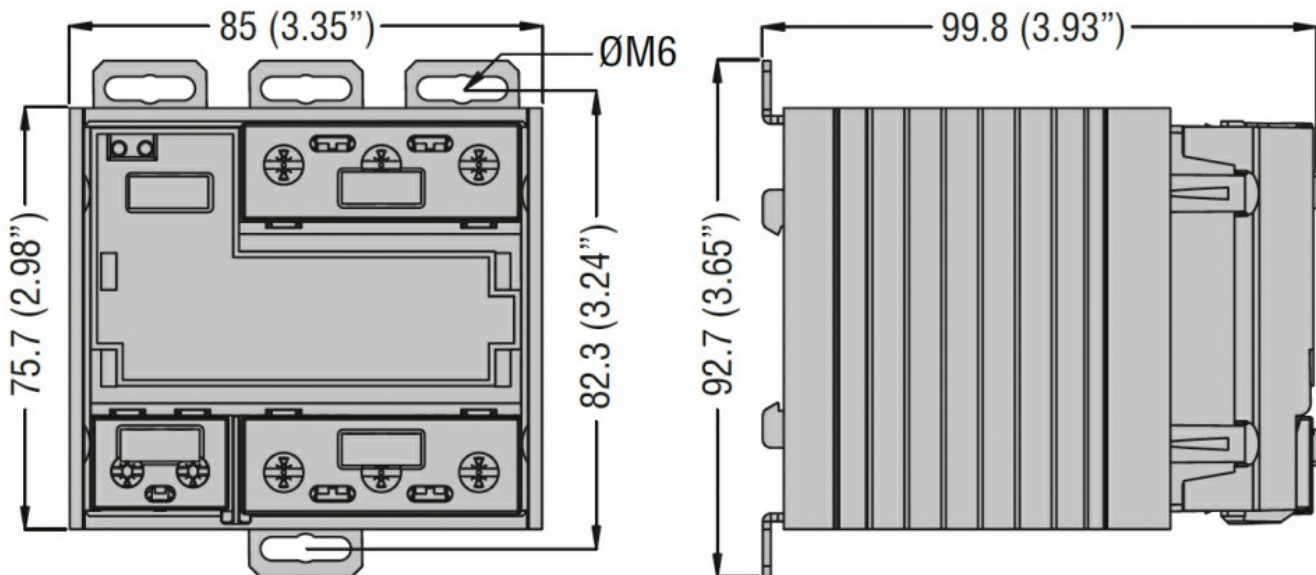
Operating temperature

| | | |
|-----|----|-----|
| min | °C | -40 |
| max | °C | +90 |

Storage temperature

| | | |
|-----|----|------|
| min | °C | -40 |
| max | °C | +125 |

Dimensions



Certifications and compliance

Certifications

- IEC/EN/BS 60335-1
- IEC/EN/BS 60947-4-2
- IEC/EN/BS 60947-4-3
- IEC/EN/BS 62314

Compliance

cULus

ETIM classification

EC000066 - Power contactor, AC switching