

## MD380L Series

### Open loop AC elevator drive



Forward, Always Progressing



INOVANCE

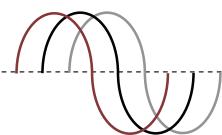
# Open loop AC elevator drive

## Application Features

- Smooth ride performance
- Integrated brake control
- UPS/ARD (sine & quasi square type) rescue light load direction sensing
- 5 independent S-Ramps
- Easy setup with default factory setting, gets you started quickly
- Programmable DC injection braking

Enhanced reliability with conformal coating, protects against humidity and dust pollution

Operation in high   $45^{\circ}\text{C}_{\text{avg}}$  ambient temperatures



Wide operating voltage range 323 to 528 Vac



Cooling fan removable for easy maintenance

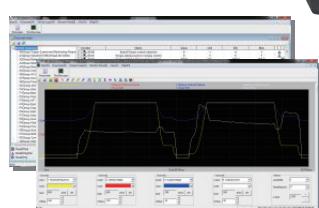
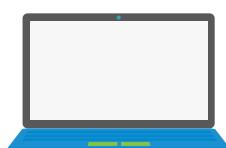


Optional: hot pluggable remote keypad



With/without memory

\*<sup>1</sup> PC-Tools software offers simplified start up & backup



\*<sup>1</sup> Compatible with Windows 7

3.7 kW~15 kW

## Drive Key Features

- Automatic torque boost
- Slip compensation
- Flexible programmable I/O's
- Onboard Modbus-RTU
- Comprehensive trip diagnostics
- Built-in dynamic braking unit
- Output frequency 0.00~100.00 Hz



## General Specifications

| Drive Model      |                            | MD380L-T3.7GB   | MD380L-T5.5GB | MD380L-T7.5GB | MD380L-T11GB | MD380L-T15GB |
|------------------|----------------------------|---|---------------|---------------|--------------|--------------|
| Dimensions       | Height [mm]                | 248   |               |               | 322          |              |
|                  | Width [mm]                 | 160   |               |               | 208          |              |
|                  | Depth [mm]                 | 183   |               |               | 192          |              |
| Drive Input      | Rated Input Voltage        | 3-phase 380 to 480 Vac, -15% to +10% (323 to 528 Vac)     |               |               |              |              |
|                  | Rated Input Current [A]    | 10.5  | 14.6          | 20.5          | 26           | 35           |
|                  | Rated Input Frequency      | 50/60 Hz, ±5% (47.5 to 63 Hz)                             |               |               |              |              |
| Drive Output     | Applicable                 | 3.7   | 5.5           | 7.5           | 11           | 15           |
|                  | Motor                      | [kW]  | 5             | 7.5           | 10           | 15           |
|                  | Output Current [A]*2       | 9   | 13            | 17            | 25           | 32           |
|                  | Power Capacity [kVA]       | 5.9   | 8.9           | 11            | 17           | 21           |
|                  | Overload Capacity          | 150% for 60 Sec & 180% for 3 Sec                          |               |               |              |              |
|                  | Max. Output Voltage        | 3-phase 380 to 480 Vac<br>(Proportional to input voltage) |               |               |              |              |
|                  | Max. Output Frequency      | 100.00 Hz   |               |               |              |              |
| Braking Resistor | Recommended Power [W]      | 750   | 1,200         | 1,500         | 2,500        | 3,000        |
|                  | Recommended Resistance [Ω] | ≥ 130   | ≥ 90          | ≥ 65          | ≥ 43         | ≥ 32         |
| Enclosure        |                            | IP20  |               |               |              |              |

\*2 Carrier switching frequency 4 kHz at rated output current  
Please note: all units are fan cooled

## General Connection Diagram

