

# Active Front End (AFE)

Energy Efficient, Energy Saving Solution for Elevators



## Features Highlights

- Reduces energy consumption
- Low input current harmonics
- Supports four quadrant and energy feedback modes

# Energy efficient, energy saving solution for elevators

## Technical features

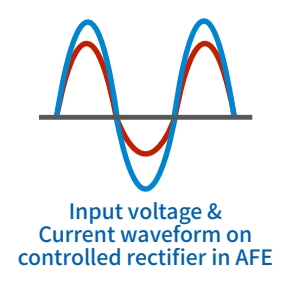
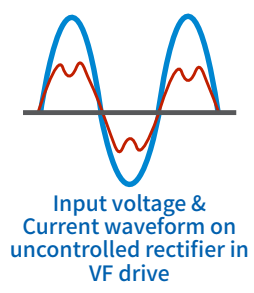
- Protection upon DC bus over voltage, under voltage, etc.,
- Protection upon input over voltage, under voltage, phase unbalance, etc.,
- RS232 communication port for NICE3000+ interface
- Four digital inputs and two relay outputs
- Reduces thermal energy loss dissipated by dynamic braking resistor



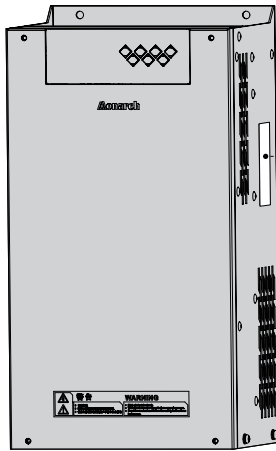
- Improved power factor
- Can use conjunction with Dynamic braking resistor
- ≤5% Harmonic on rated load
- Built-in reactor



Source energy flow  
 Regenerated energy flow



## Product code



MODEL : MCTC-AFE-4018N CE  
 INPUT : 3PH AC 380~440V 28.4A 50/60Hz  
 OUTPUT : DC 570~720V 18.5kW  
 S/N: 012703754EB00083



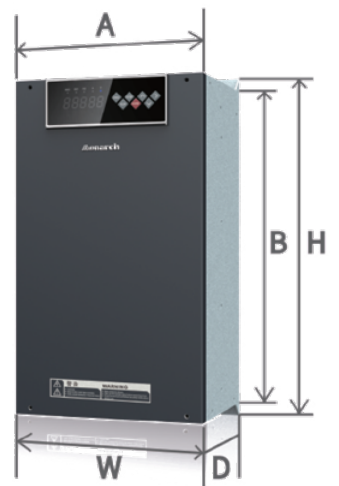
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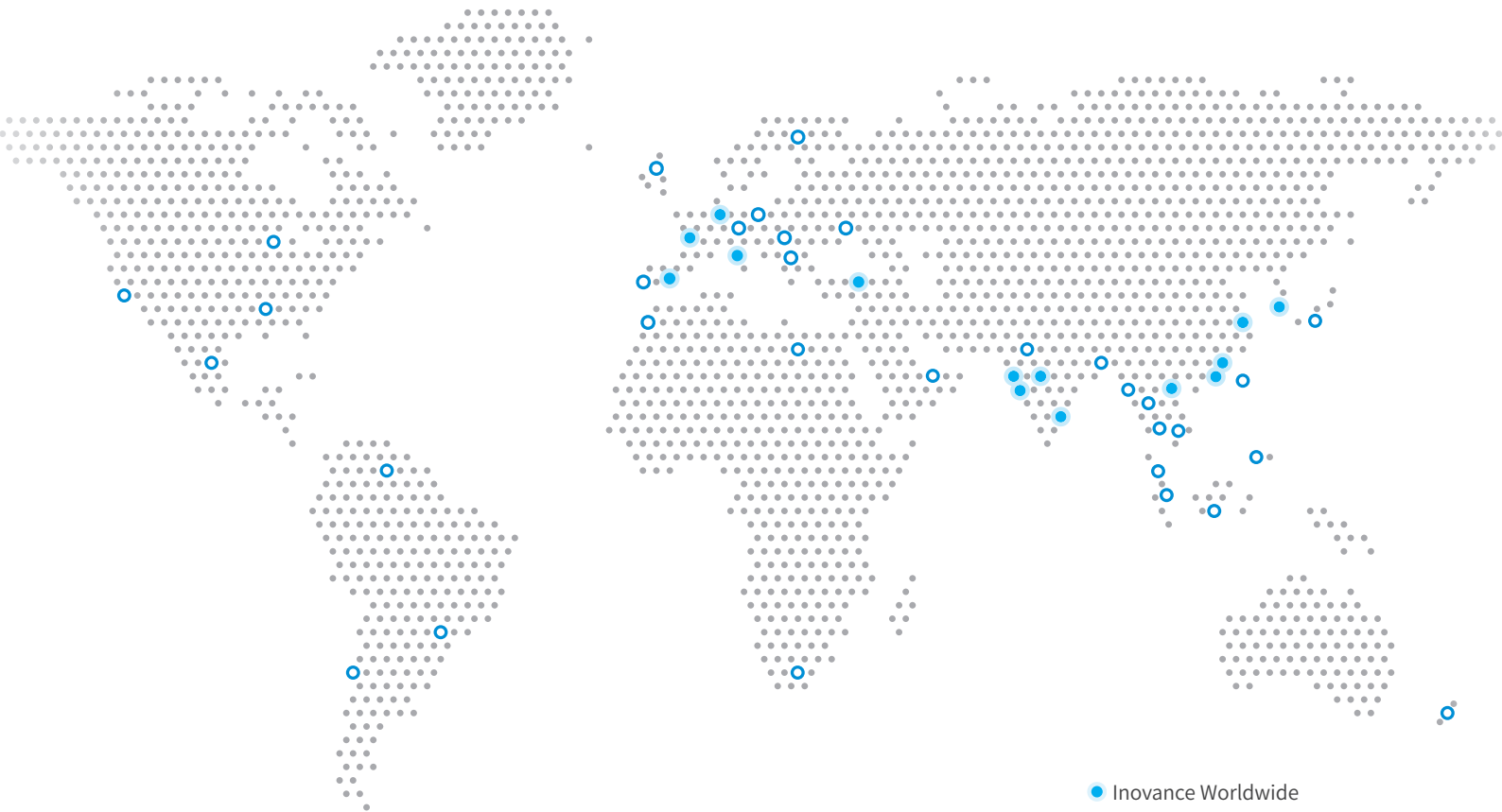
## MCTC - AFE - 40 - 18 - N

- |  |  |   |
|--|--|---|
| <p>① Product Series: MCTC<br/>Integrated elevator controller option</p> <p>② Controller type: AFE</p> <p>③ Voltage rating:<br/>40: Three phase 380 V</p> | <p>④ Power rating:<br/>05: 5.5 kW<br/>07: 7.5 kW<br/>11: 11 kW<br/>15: 15 kW<br/>18: 18 kW<br/>22: 22 kW<br/>30: 30 kW</p> | <p>⑤ Model series<br/>N - Four-quadrant<br/>R - Energy feedback</p> |
|--|--|---|

## Dimensions

AFE model	Dimensions [mm]							GWT
	H	W	D	D1	A	B	C	
MCTC-AFE-4005X	365	200	153	121	160	350	6.0	8.5
MCTC-AFE-4007X								8.7
MCTC-AFE-4011X								9.0
MCTC-AFE-4015X	405	215	165	142	160	390	7.0	14.0
MCTC-AFE-4018X								14.8
MCTC-AFE-4022X	505	260	171	161	160	490	7.0	18.2
MCTC-AFE-4030X								20.0





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