Elevator Specific EMC Module

1. Product Description

ND-4N series elevator specific EMC module is an essential component integrating a reactor and a filter, specifically designed to address electromagnetic compatibility (EMC) issues in elevator operations. The reactor reduces harmonic currents, improving power quality, while the filter efficiently suppresses electromagnetic interference (EMI), minimizing electromagnetic emissions and ensuring stable signals and reliable system performance.

This module complies with international EMC standards (EN12015，GBT24807/24808) and effectively enhances the stability and anti-interference capability of elevator control systems.

2. Typical Applications

- Suitable for various types of elevator systems
- Residential
- Commercial
- Industrial applications

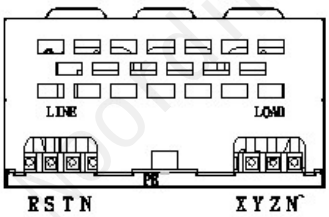
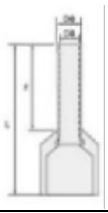
3. Product Features

- Compatible with elevator control systems, including AS380S and AS380D series integrated electrical control systems.
- Covers a power range of 3.7KW to 55KW at 400V level.
- Integrated three-phase four-wire filter and current harmonic reactor.
- Complies with EN12015 and GBT24807/24808 standards for current harmonics and conducted emission testing.
- IP21 protection with an ultra-slim design, suitable for shaft installation.

4. Product Selection Table

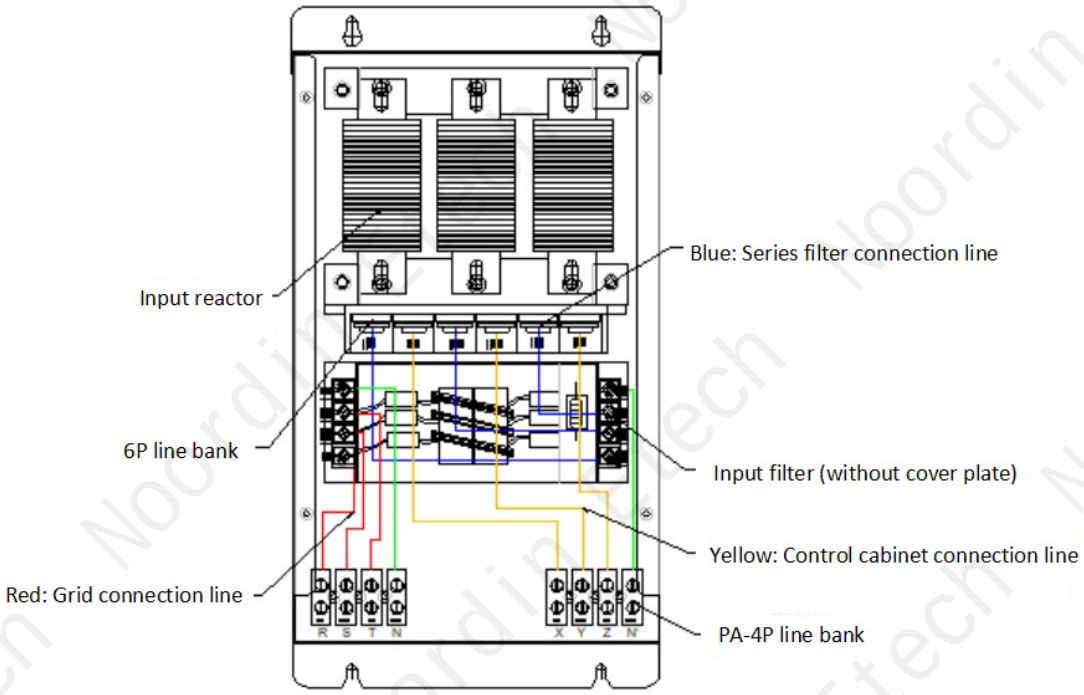
EMC module model ND-4N-	013E	018E	027E	034E	041E	048E	080E	128E
Adaptive frequency converter power kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30/37kW	45/55kW
Adaptive frequency converter output current	13	18	27	34	41	48	65/80	97/128
Rated inductance Mh	6.3	4.55	3.3	2.3	1.70	1.65	0.55	0.55
Working system ED	50%						60%	
Zero line(N)current capacity A	<=16A							
Adapted grid voltage V	380/400/415/440							
Adapt to three-phase current balance	<3%							
Input grid frequency Hz	50Hz							

Product port definition

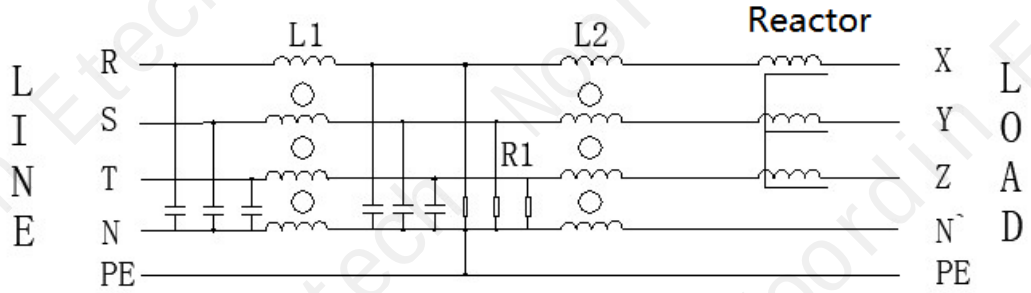
	Terminal compliance	Terminal name and functional description	Terminal type
	R/S/T	Connecting to the power grid, AC power live wire	Straight needle 
	N	Connect to the power grid, power N-line	
	X/Y/Z	Connect the control cabinet end and AC power live wire	
	N'	Connect the control cabinet end and the power N-line	
	PE	Grounding terminal, connecting power ground wire and control cabinet ground wire	

Usage environment

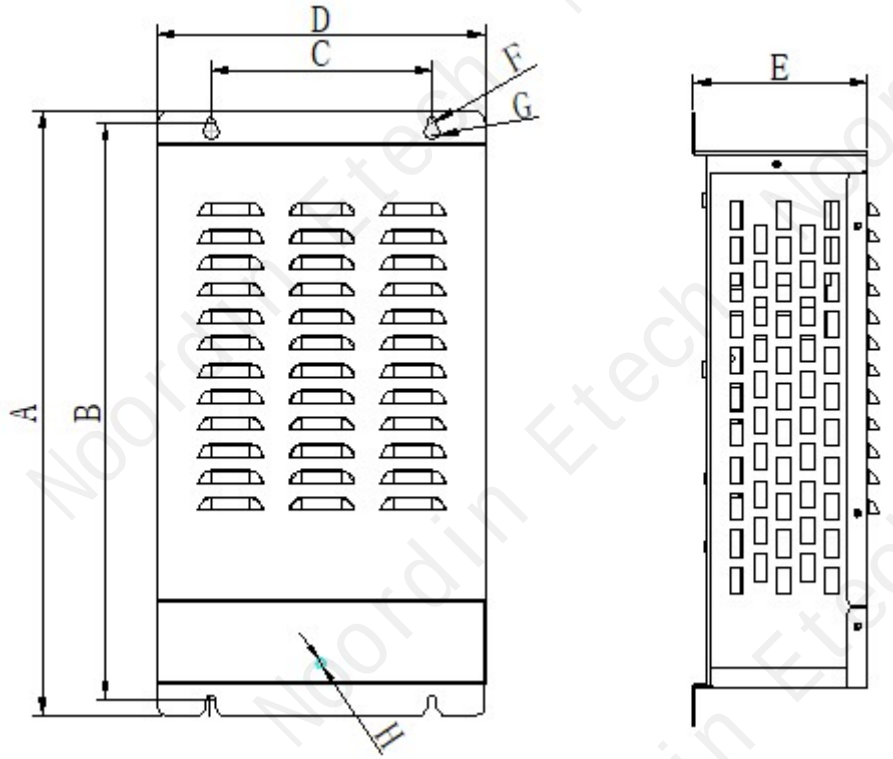
Operating temperature range	No derating at-10℃~40℃, derating at 40~55℃, derating by 2%for every 1°increase
Storage conditions	-40℃70℃
Relative humidity	<95%, no condensation
Working altitude	No derating below 1000m Between 1000 and 3000m, for every 100m increase, the current is derated by 1%
Protection grade	IP21
Cooling method	Natural heat dissipation



5. Circuit Diagrams



6. Outline Drawing (mm)



ND-4N-	A(mm) ±2	B(mm) ±2	C(mm) ±1	D(mm) ±2	E(mm) ±2	F	G	H	Weight (KG)
013E	450	430	165	245	130	R3.5	R6	M5	14.5
018E									14.5
027E									12.3
034E									14
041E	450	430	165	245	140	R3.5	R6	M5	15.5
048E									15.5
080E									15.9
128E	560	540	225	325	170	R3.5	R6	M5	29.0

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