

## NICE2000

### Energy Efficient, Variable Speed Integrated Controller for Escalators



NICE2000 has been designed as a simple and cost effective variable speed integrated controller that delivers ultimate performance and flexible capability for escalators.



#### Power Rating

- 5.5kW to 30kW, 3 Phase 380/400/415V

#### Applications

- Escalator
- Travelator
- Conveyor

#### Characteristics Functions

- Mode: Semi-Automatic or Automatic
- Semi-Automatic: Escalator can only operate in unipolar mode
- Automatic: Escalator can operate in bipolar mode, energy-saving, ability to use photo-electric signal to trigger the direction demand of the escalator etc
- Energy-Saving: Rapid Stop , Start-Run-Stop, Start-Run-Creep-Stop

#### Technical Features

- Flexible connection options allow for easy integration in virtually all escalator controls and quick start-up periods
- No need for a PLC or escalator controller, thereby reducing cost
- Equipped with full V/F control, Y-Δ control and other control methods
- De-rate the selection of Drive power rating to reduce cost
- Effective anti-jamming capability, complies with EMC standards
- On-board RJ45 port to facilitate quick start-up periods
- Rich energy-saving operation modes, meets different user needs
- Easy commission of V/F control to bypass control mode
- Easy commission of bypass control to V/F control mode
- Y-Δ control will work as alternative when errors happen in inverter

## Energy-saving Operation In V/F Control Mode

NICE2000 is an integrated escalator drive with a rich energy-saving operation. If there are no passengers taking escalator within a certain period, NICE2000 will decelerate to a low speed. And if passengers enter the entrance, NICE2000 will identify through the optical switch and accelerate to quick speed.

Energy-saving cycle mode	Description
Quick-stop cycle mode	Escalator will accelerate to quick speed and keep quick speed operation when passengers enter the entrance. Escalator will decelerate to stop in idle.
Quick-slow cycle mode	Escalator will accelerate to quick speed and keep quick speed operation when passengers enter the entrance. Escalator will decelerate to low speed and keep low speed operation in idle.
Quick-slow-stop cycle mode	Escalator will accelerate to quick speed and keep quick speed operation when passengers enter the entrance. Escalator will decelerate to low speed and keep low speed operation in idle. If the idle status keeps a long time, escalator will decelerate to stop.

## General Specifications

380 to 480Vac, 3-Phase (-15% to 10%, 323Vac to 528Vac)

Model Code	Capacity (kVA)	Input Current (A)	Output Current (A)	Typical Motor (kW)	Dimension(mm)		
					Height (H)	Width (W)	Depth (D)
NICE-E1-A-4013	8.9	14.6	3	5.5	248.0	160.0	183.0
NICE-E1-A-4017	11.0	20.5	17.0	7.5	322.0	208.0	192.0
NICE-E1-A-4025	17.0	26.0	25.0	11.0			
NICE-E1-A-4032	21.0	35.0	32.0	15.0			
NICE-E1-A-4037	24.0	38.5	37.0	18.5	432.0	285.0	228.0
NICE-E1-A-4045	30.0	46.5	45.0	22.0			
NICE-E1-A-4060	40.0	62.0	60.0	30.0			



## NICE - E1 - A - 40 13

Monarch NICE Series  
Controller  
Housing Enclosure Type  
E1: Plastic

Sub-Rating within frame size  
Voltage Rating:  
40: 380/400/415V  
Drive Mode:  
Escalator Motor