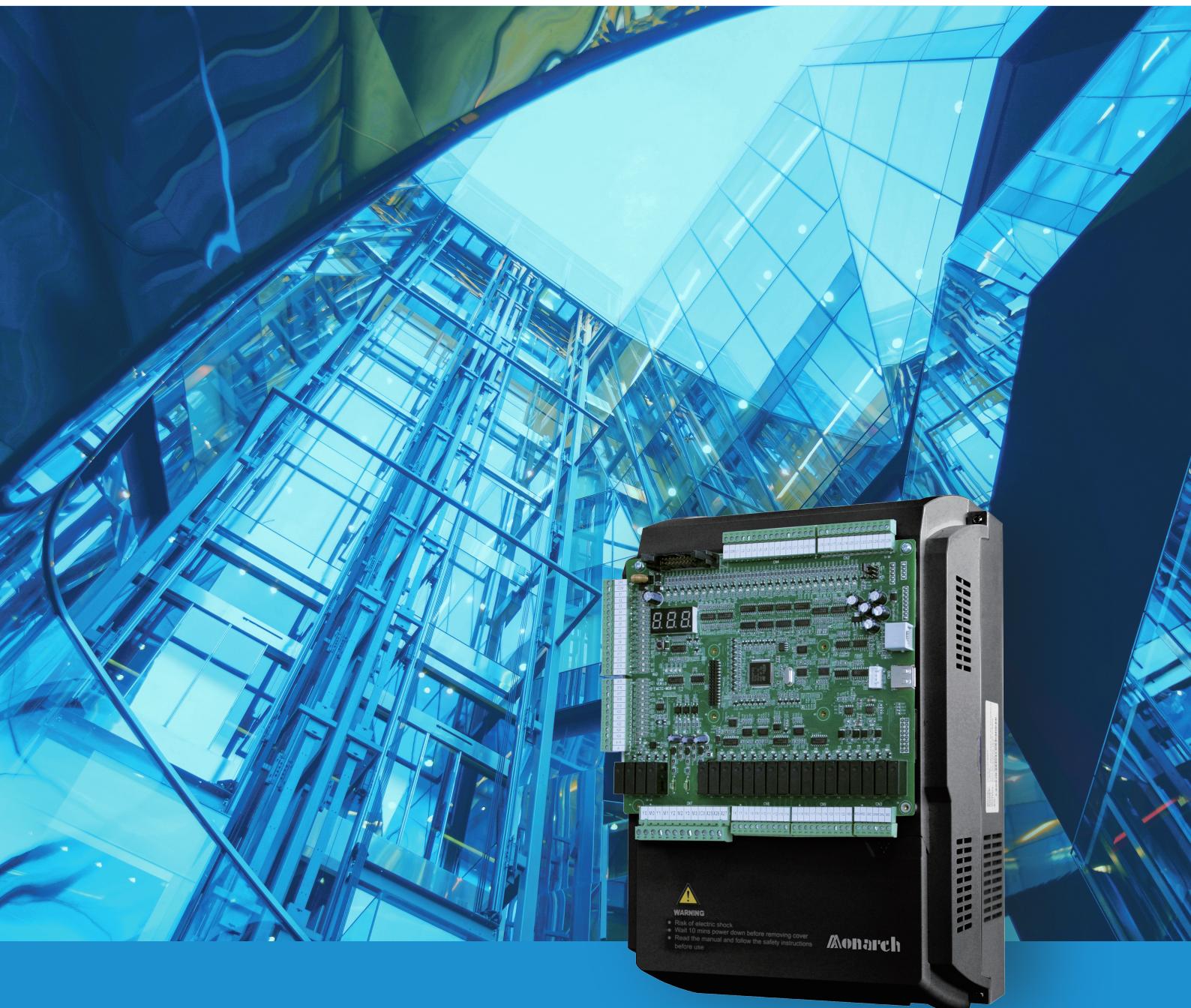


NICE1000^{new} Integrated Solution

Elevator controller & drive - parallel connection



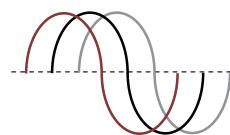
Integrated elevator solution ≤ 1.75 m/sec

Application Features

- Supports synchronous (PM gearless machines) and asynchronous (geared machines)
- Smooth ride performance
- "Direct To Floor" technology
- Rapid commissioning step through sequence
- Anti-rollback without any external load cell (gearless machines)
- Pre-torque function (analog signal from load cell for geared machines)
- Flexible programmable I/O's
- Static auto tuning for asynchronous and synchronous machines (without brake opening)

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

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



Wide operating voltage range 323 to 528 Vac

NEW



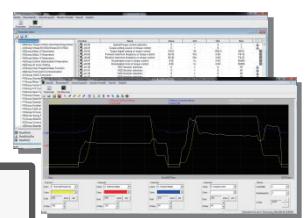
Car serialiser board
(MCTC-CTB-OVS)

*¹ Apps & *² PC-Tools software offers simplified start up & backup

NEW
 WIFI



*1 available soon



*2 compatible with Windows 7/10

Conventional parallel wiring:
16 floors full collective

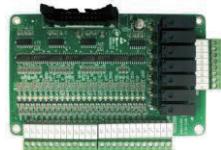


EN81-1-A3 Ready



8 floors, full collective
(standard base unit)

1 ½ digit
7 segment display



16 floors, full collective
with expansion I/O's
(MCTC-KZ-D)



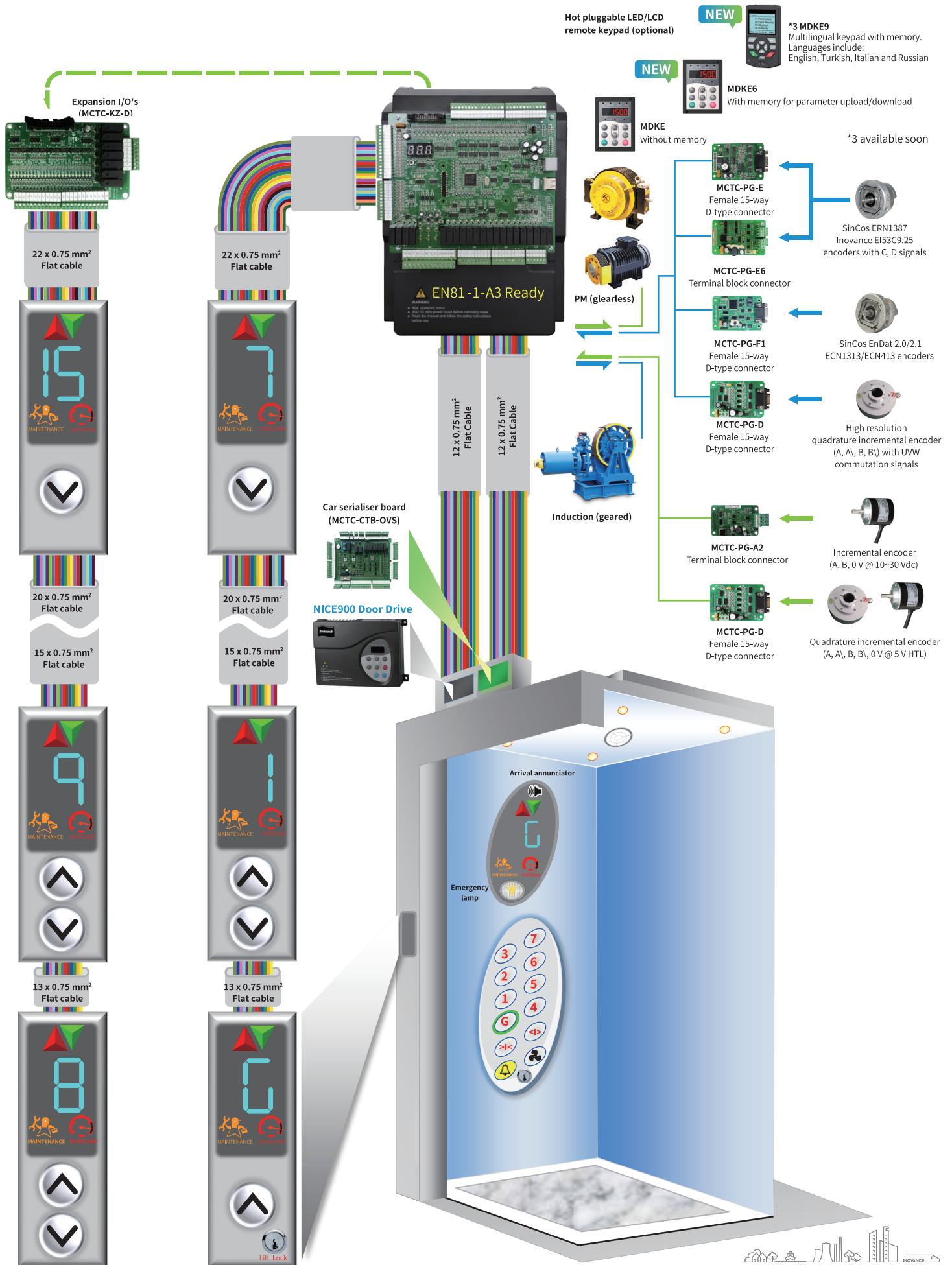
Feature Highlights

- Standard: 8 floors, full collective; expansion option: up to 16 floors (conventional parallel wiring)
- Duplex onboard group control (CANbus serial communication)
- Selectable door control mode (manual, semi-automatic, automatic)
- Selectable fireman operation
- Single-phase 220 Vac UPS (quasi & sine wave) rescue mode operation ready with automatic light load search
- Comprehensive trip diagnostics
- Output frequency 0.0~99.0 Hz



General Connection Diagram

Standard: 8 floors, full collective; expansion: 16 floors, full collective



Car serialiser CANbus via main control board

Application Features

- Compact design
- Supports 16 floors with GND or 24 Vdc for illumination
- Rapid commissioning step through sequence
- CANbus connection via main control board
- Flexible programmable I/O's
- Supports display output: 7 segment (1½ digit), gray code and binary code (5 bit)
- Rich COP inputs

Full load, overload, ventilation fan ON/OFF, car call enable/lock, auto/attendant mode, car light ON/OFF, car door motor overheat, direction change, non-stop

- Supports automatic, semi-automatic & manual doors



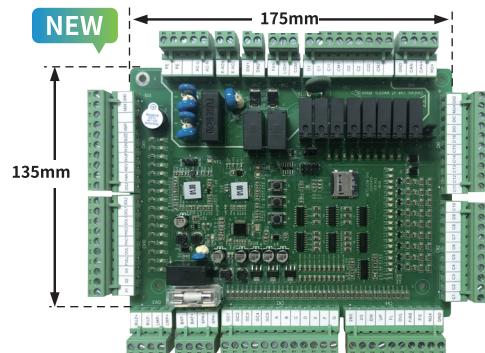
Swing



Telescopic



Bi-fold



Feature Highlights

- Double click car call cancellation
- Arrival gong & voice announcement (adjustable range: 35~65 dBA)
- Emergency lamp output 12 Vdc @ 3 W
- Buzzer (12 Vdc transistor output)
- Built-in 12 Vdc @ 1.2 Ah battery charger
- Supports single & double doors
- Overload protection for display output
- Built-in 200 Vdc @ 5 A control for retaining CAM (door lock magnet)



Retiring CAM



Hall door lock

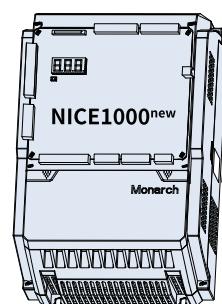
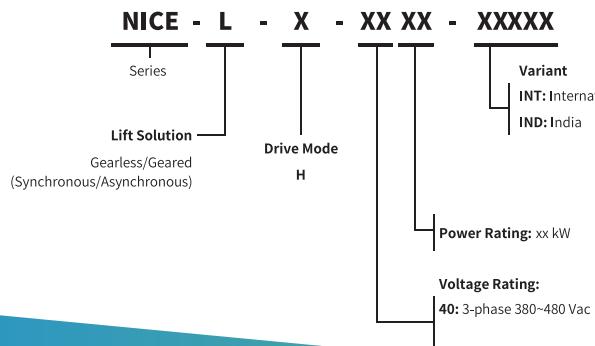


Door closer

Support number of floors and group control configuration

Expansion I/O's	MCTC-KZ-D (optional)	Car serialiser board	HOP Configuration		Group Control	
			Down Collective	Full Collective	Simplex	Duplex
✗	✗	✗	13 floors (G+12)	8 floors (G+7)	✓	✓
✗	✓ supports double click cancellation	✗	16 floors (G+15)	14 floors (G+13)	✓	✓
✓	✗	✗	16 floors (G+15)	16 floors (G+15)	✓	✓
✓	✓ supports double click cancellation	✗	16 floors (G+15)	16 floors (G+15)	✓	✓

Product Code



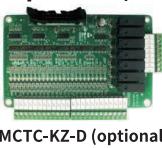
PRODUCT: Integrated Elevator Controller AC Drive
MODEL: NICE-L-H-4015-INT
INPUT: 3PH AC380-440V 36A 50/60Hz
OUTPUT: 3PH AC0-440V 33A 0-90Hz 15kW
Serial No.: 010150602803825403

Suzhou Inovance Technology Co.,Ltd.



Made in China

Expansion I/O's



MCTC-KZ-D (optional)



⚠ EN81-1-A3 Ready

WARNING
 • Risk of electric shock.
 • Wait 10 mins power down before removing cover.
 • Read the manual and follow the safety instructions before use.

Optional: hot pluggable LCD/LED remote keypad

NEW



MDKE
Without memory



MDKE6
With memory for parameter upload/download

NEW



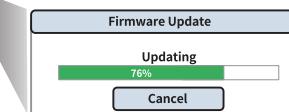
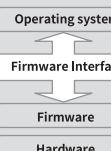
Multilingual keypad with memory.
Languages include:
English, Turkish, Italian and Russian

*3 available soon

NEW



Firmware Update



Firmware Update

Updating

76%

Cancel

NEW

Car Top Board



MCTC-CTB-OVS (optional)
Car serialiser, CANbus connection via main control board

Encoder Types



MCTC-PG-E
SinCos encoder card, 5 Vdc supply
female 15-way D-type connector



SinCos ERN1387
Inovance E153C9.25
encoders with C, D signals



MCTC-PG-F6
SinCos encoder card, 5 Vdc supply
Terminal Block connector



SinCos EnDat 2.0/2.1
ECN1313/ECN413 encoders



MCTC-PG-F1
SinCos encoder card, 5 Vdc supply
female 15-way D-type connector



High resolution
quadrature incremental encoder
(A, A_l, B, B_l) with UVW
commutation signals



MCTC-PG-D
Quadrature incremental encoder card
(A, A_l, B, B_l) with UVW
commutation signals
5 Vdc supply, female 15-way D-type connector



Incremental encoder
(A, B, 0 V @ 10–30 Vdc)

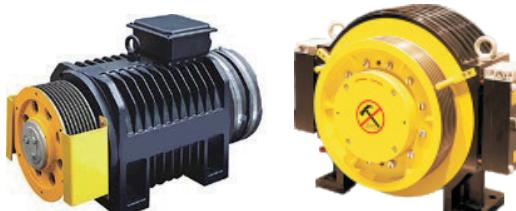


MCTC-PG-A2
Single-ended incremental encoder card
12 Vdc supply, Terminal Block connector



Quadrature incremental encoder
(A, A_l, B, B_l, 0 V @ 5 V HTL)

PM Gearless



Induction Geared



General Specifications

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

Model	Frame Size	Input Current [A]	Output Current [A] ^{*4}	Typical Motor [KW]	Dimensions [mm]			Dynamic Braking Unit	Dynamic Braking Resistor			
					Height [H]	Width [W]	Depth [D]		Min. [Ω]	Max. [Ω]	Recommended Power [W]	
NICE-L-H-4002-XX	C	6.5	5.1	2.2	347	223	143	Built-in	230	290	600	
NICE-L-H-4003-XX		10.5	9.0	3.7					135	170	1,100	
NICE-L-H-4005-XX		14.8	13.0	5.5					90	115	1,600	
NICE-L-H-4007-XX	D	20.5	18.0	7.5	347	223	174		65	85	2,500	
NICE-L-H-4011-XX		29.0	27.0	11.0					43	55	3,500	
NICE-L-H-4015-XX		36.0	33.0	15.0					35	43	4,500	
NICE-L-H-4018-XX	E	41.0	39.0	18.5	350	210	192		25	34	5,500	
NICE-L-H-4022-XX		49.5	48.0	22.0					22	24	6,500	
NICE-L-H-4030-XX	F	62.0	60.0	30.0	400	250	223		16	20	9,000	
NICE-L-H-4037-XX		77.0	75.0	37.0					13	16	11,000	
NICE-L-H-4045-XX	G	93.0	91.0	45.0	600	385	268	External (MDBUN-60-T)	11	14	13,500	

*4 Carrier switching frequency 6 kHz at rated output current @ 150% overload for 60 sec & 200% for 2 sec

Please note: - in CE countries, the recommended RFI filter must be fitted together with screened cables for EMC compliance

- all units have IP20 rated enclosures and are fan cooled

RFI Filter & AC Line Reactor Specifications

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

Model	Frame Size	Input Current [A]	Power Capacity [kVA]	Optional : External Components		Optional
				RFI Filter Model (Changzhou Jianli)	RFI Filter Model (Schaffner)	
NICE-L-H-4002-XX	C	6.5	4	DL-10EBK5	FN3258-7-44	MD-ACL-7-4T-222-2%
NICE-L-H-4003-XX		10.5	5.9	DL-16EBK5	FN3258-16-44	MD-ACL-15-4T-552-2%
NICE-L-H-4005-XX		14.8	8.9			
NICE-L-H-4007-XX	D	20.5	11	DL-25EBK5	FN3258-30-33	MD-ACL-30-4T-113-2%
NICE-L-H-4011-XX		29.0	17	DL-35EBK5		
NICE-L-H-4015-XX		36.0	21	DL-50EBK5	FN3258-42-33	MD-ACL-40-4T-153-2%
NICE-L-H-4018-XX	E	41.0	24	DL-50EBK5	FN3258-42-33	MD-ACL-50-4T-183-2%
NICE-L-H-4022-XX		49.5	30		FN3258-55-34	
NICE-L-H-4030-XX	F	62.0	40	DL-65EBK5	FN3258-75-34	MD-ACL-80-4T-303-2%
NICE-L-H-4037-XX		77.0	57	DL-80EBK5	FN3258-100-35	
NICE-L-H-4045-XX	G	93.0	69	DL-100EBK5	FN3258-100-35	MD-ACL-120-4T-453-2%

General Specifications

220 to 240 Vac, -15% to 10% (187 to 264 Vac)

Model	Frame Size	Input Current [A]		Output Current [A] ^{*5}		Typical Motor [KW]	Dimensions [mm]			Dynamic Braking Unit	Dynamic Braking Resistor							
		1Ø	3Ø	1Ø	3Ø		Height [H]	Width [W]	Depth [D]		Min. [Ω]		Max. [Ω]		Recommended Power [W]			
							1Ø	3Ø			1Ø	3Ø	1Ø	3Ø	1Ø	3Ø		
NICE-L-H-2002-XX	C	9.2	11.0	5.2	9.6	1.1	2.2	347	223	143	In-Built	125	65	145	72	300	600	
NICE-L-H-2003-XX		13.3	17.0	7.5	14.0	1.5	3.7		90	50		105	54	450	1,100			
NICE-L-H-2007-XX	D	17.9	20.5	10.3	18.0	2.2	4.0	347	223	173		63	35	72	40	600	1,200	
NICE-L-H-2011-XX		25.3	29.0	15.5	27.0	3.7	5.5		347			37	25	43	29	1,100	1,600	
NICE-L-H-2015-XX		31.3	36.0	19.0	33.0	4.0	7.5		223			35	22	40	26	1,200	2,500	
NICE-L-H-2018-XX	E	34.6	41.0	22.5	39.0	5.5	11.0	350	210	188		25	13	29	14.5	1,600	3,500	
NICE-L-H-2022-XX		42.6	49.0	27.7	48.0	11.0	15.0		188			16	12.5	18	13	3,500	4,500	
NICE-L-H-2030-XX	F	52.6	62.0	34.6	60.0	15.0	18.5	400	250	208		13	12	13	12.5	4,500	5,500	

*5 Carrier switching frequency 6 kHz at rated output current @ 150% overload for 60 sec & 200% for 2 sec

Please note: - in CE countries, the recommended RFI filter must be fitted together with screened cables for EMC compliance

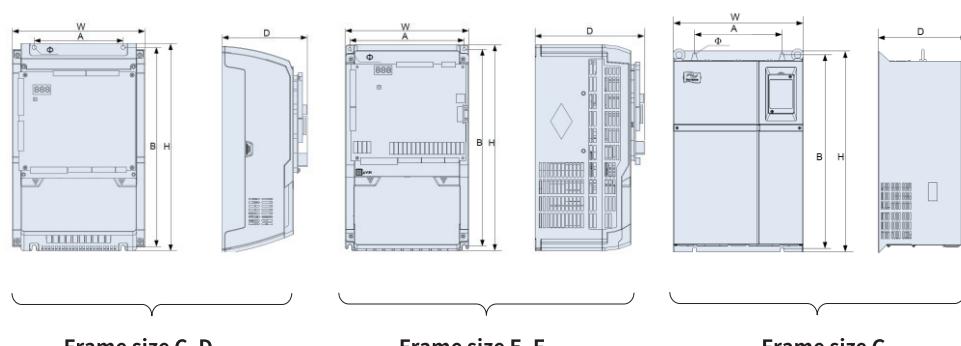
- all units have IP20 rated enclosures and are fan cooled

RFI Filter & AC Line Reactor Specifications

3-Phase: 220 to 240 Vac, -15% to 10% (187 to 264 Vac)

Model	Frame Size	Input Current [A]	Power Capacity [kVA]	Optional: External Components		Optional	
				RFI Filter Model (Changzhou Jianli)	RFI Filter Model (Schaffner)	AC Input Reactor Model (Inovance)	
NICE-L-H-2002-XX	C	11.0	4	DL-16EBK5	FN3258-7-44	MD-ACL-15-4T-552-2%	
NICE-L-H-2003-XX		17.0	5.9	DL-25EBK5		MD-ACL-30-4T-113-2%	
NICE-L-H-2007-XX		20.5	17	DL-35EBK5	FN3258-7-44	MD-ACL-30-4T-113-2%	
NICE-L-H-2011-XX	D	29.0	21	DL-50EBK5	FN3258-16-33	MD-ACL-30-4T-113-2%	
NICE-L-H-2015-XX		36.0	24			MD-ACL-50-4T-153-2%	
NICE-L-H-2018-XX	E	41.0	30	DL-50EBK5	FN3258-30-33	MD-ACL-50-4T-183-2%	
NICE-L-H-2022-XX		49.0	40			MD-ACL-50-4T-183-2%	
NICE-L-H-2030-XX	F	62.0	57	DL-65EBK5	FN3258-42-33	MD-ACL-80-4T-303-2%	

Dimensions



Frame Size	Reference (mm)					Weight (kg)
	A	B	W	H	D	
C	150	335	223	347	143	5.5
D	195	335	210	350	174	7
E	230	380	250	400	192	9.1
F	245	523	385	600	223	17
G					268	35