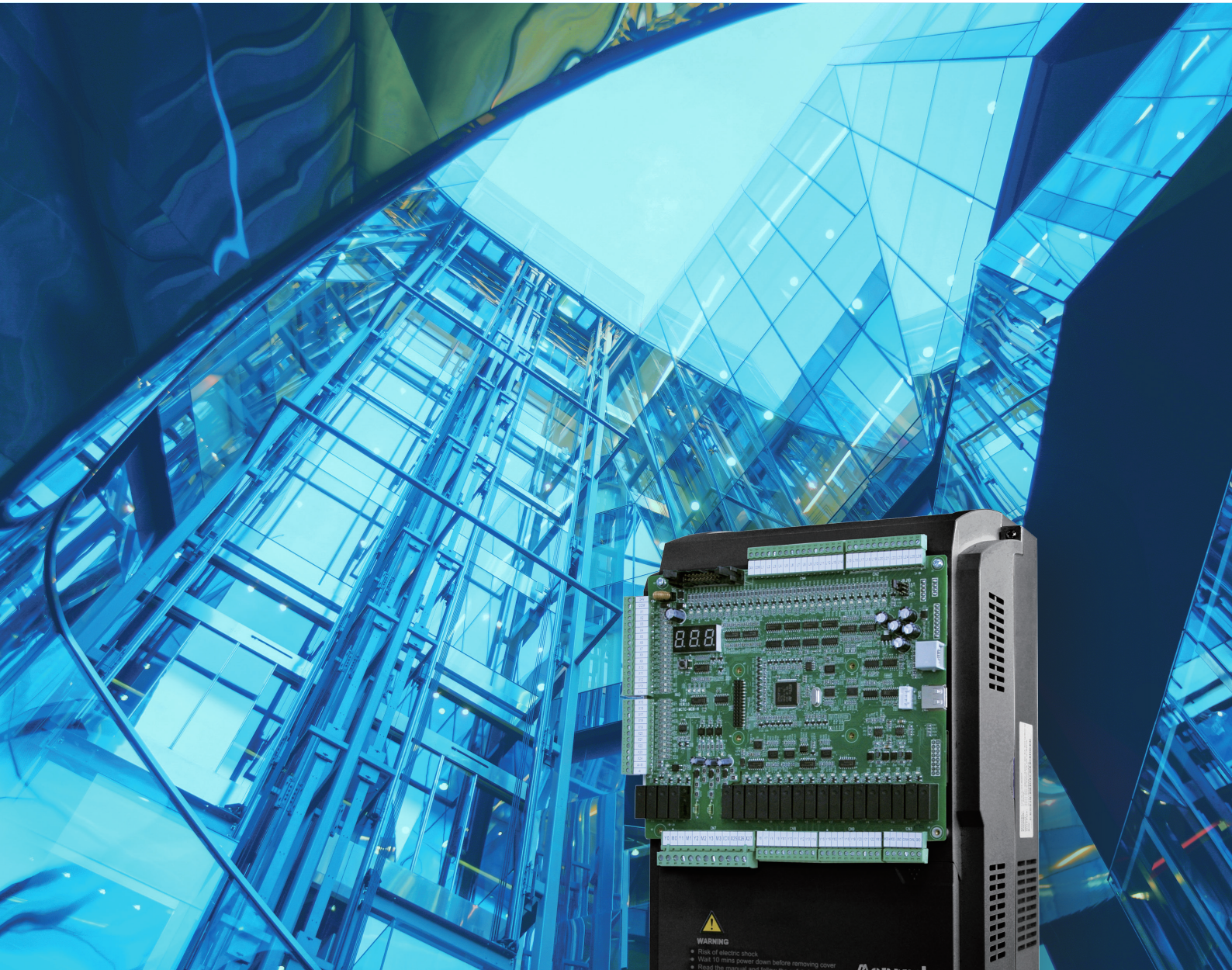


NICE1000^{new} Integrated Solution

Elevator controller & drive - parallel connection



Integrated elevator solution ≤ 1.75 m/sec

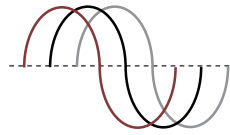
Application Features

- 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

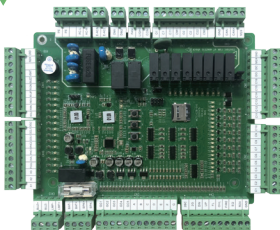
Operation in high ambient temperatures $45^{\circ}\text{C}_{\text{avg}}$

Wide operating voltage range 323 to 528 Vac



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

NEW



Car serialiser board (MCTC-CTB-OVS)

Conventional parallel wiring: 16 floors full collective

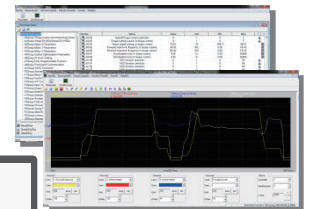


NEW

WIFI

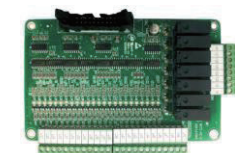


*1 available soon



*2 compatible with Windows 7/10

1 1/2 digit 7 segment display



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

8 floors, full collective (standard base unit)

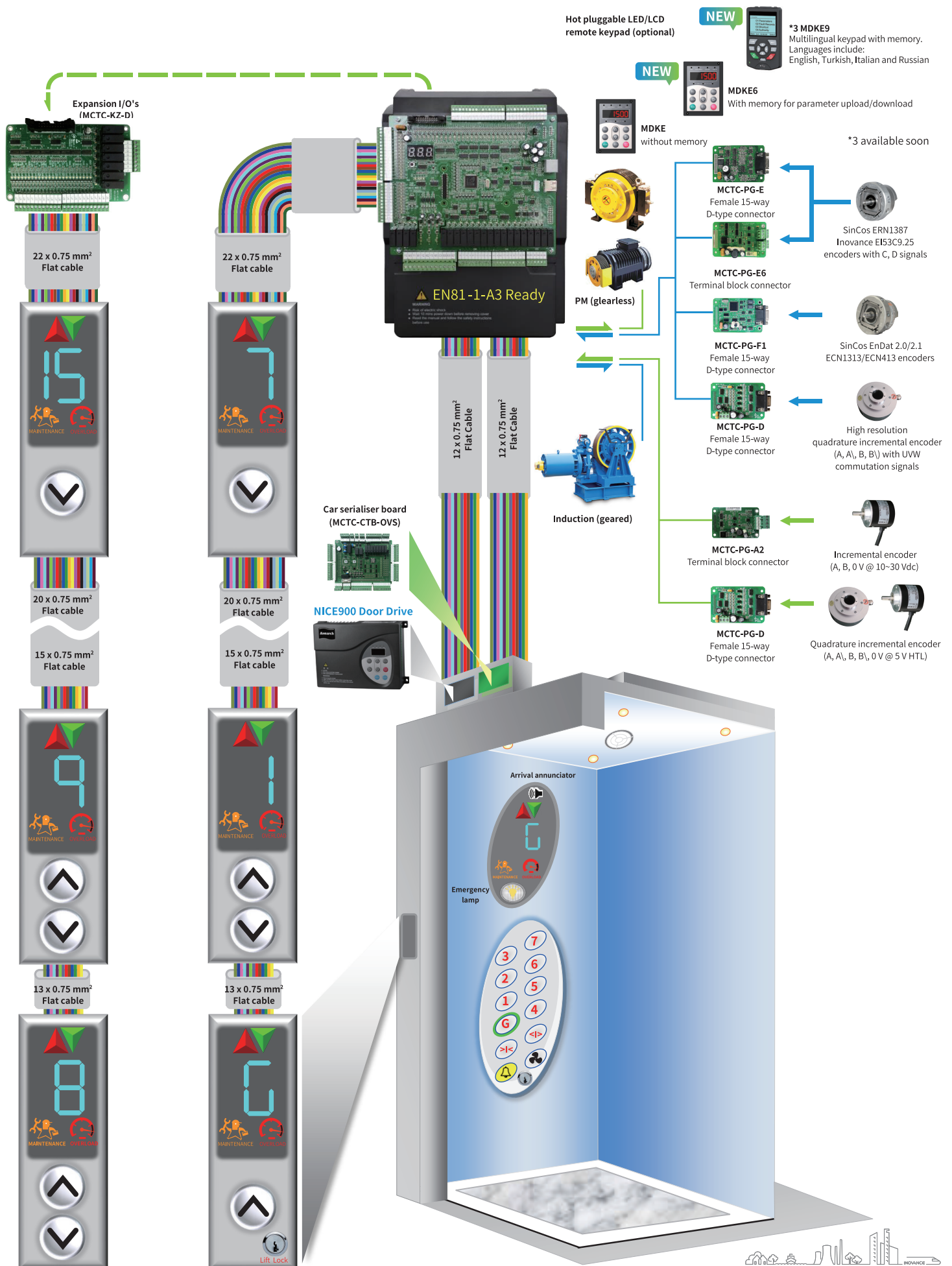
Feature Highlights

- 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



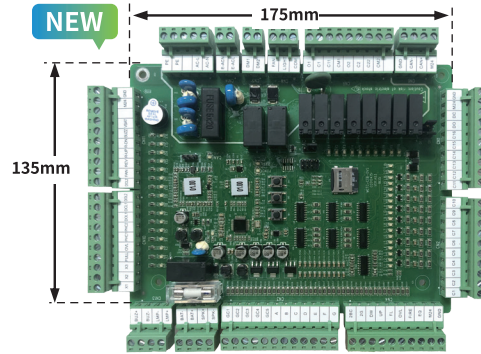
Swing



Telescopic

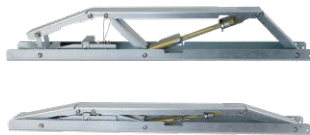


Bi-fold



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

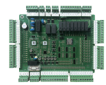


Door closer

Support number of floors and group control configuration



MCTC-KZ-D
(optional)
Expansion I/O's

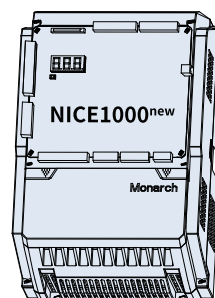
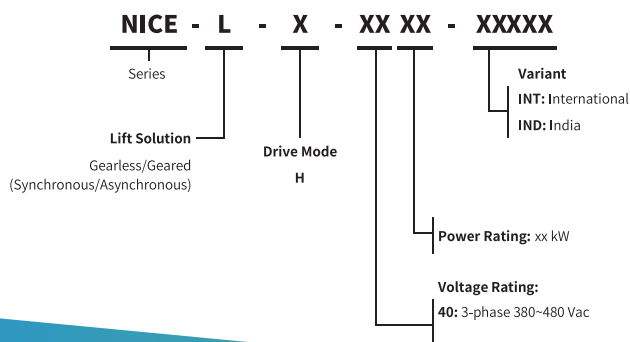


MCTC-CTB-OVS
(optional)
Car serialiser board



	HOP Configuration		Group Control	
	Down Collective	Full Collective	Simplex	Duplex
13 floors (G+12)	8 floors (G+7)	✓	✓	
16 floors (G+15)	14 floors (G+13)	✓	✓	
16 floors (G+15)	16 floors (G+15)	✓	✓	
16 floors (G+15)	16 floors (G+15)	✓	✓	

Product Code

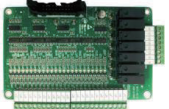


PRODUCT: Integrated Elevator Controller AC Drive
 MODEL: NICE-LH-4015-INT
 INPUT: 3PH AC380-440V 36A 50/60Hz
 OUTPUT: 3PH AC0-440V 33A 0-90Hz 15KW
 Serial No.: 010150602803825403



Suzhou Inovance Technology Co.,Ltd. Made in China

Expansion I/O's



MCTC-KZ-D (optional)



Optional: hot pluggable LCD/LED remote keypad



MDKE
Without memory



NEW

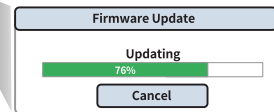
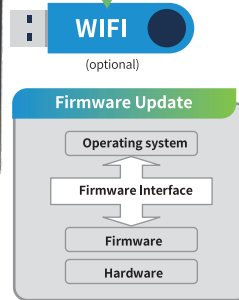
MDKE6
With memory for parameter upload/download



NEW

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

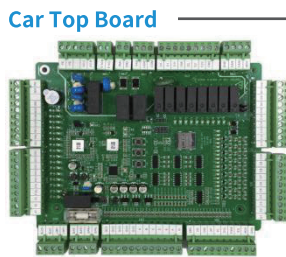
NEW



*3 available soon



MCTC-SCB-A3 (optional) door bridging board



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



NEW

MCTC-PG-E6
SinCos encoder card, 5 Vdc supply Terminal Block connector



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



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



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



MCTC-PG-D
Quadrature incremental encoder card 5 Vdc supply, female 15-way D-type connector (A, A_l, B, B_l, 0 V @ 5 V HTL)



SinCos ERN1387 Inovance EI53C9.25 encoders with C, D signals



SinCos EnDat 2.0/2.1 ECN1313/ECN413 encoders



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

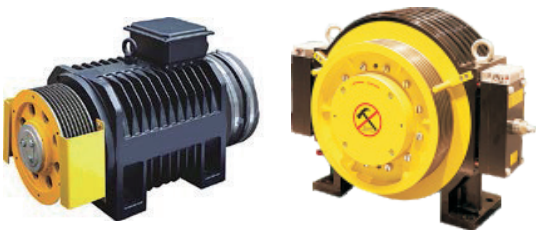


Incremental encoder (A, B, 0 V @ 10-30 Vdc)

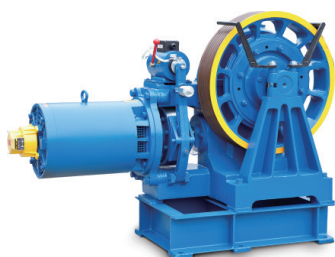


Quadrature incremental encoder (A, A_l, B, B_l, 0 V @ 5 V HTL)

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)	AC Input Reactor Model (Inovance)
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		
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	1Ø	3Ø	Height [H]	Width [W]	Depth [D]		Min. [Ω]		Max. [Ω]		Recommended Power [W]	
												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					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					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					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

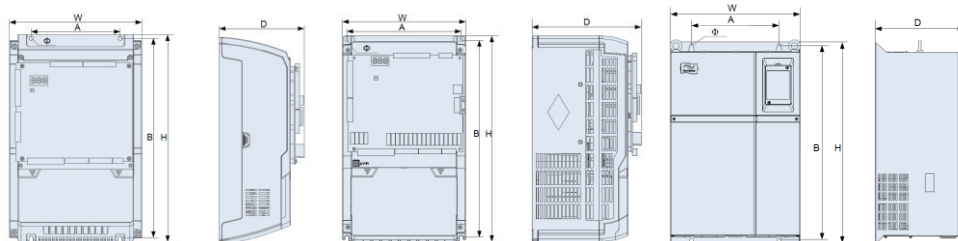
- all units have IP20 rated enclosures and are fan cooled

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	D	20.5	17	DL-35EBK5	FN3258-7-44	MD-ACL-30-4T-113-2%
NICE-L-H-2011-XX		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 C, D

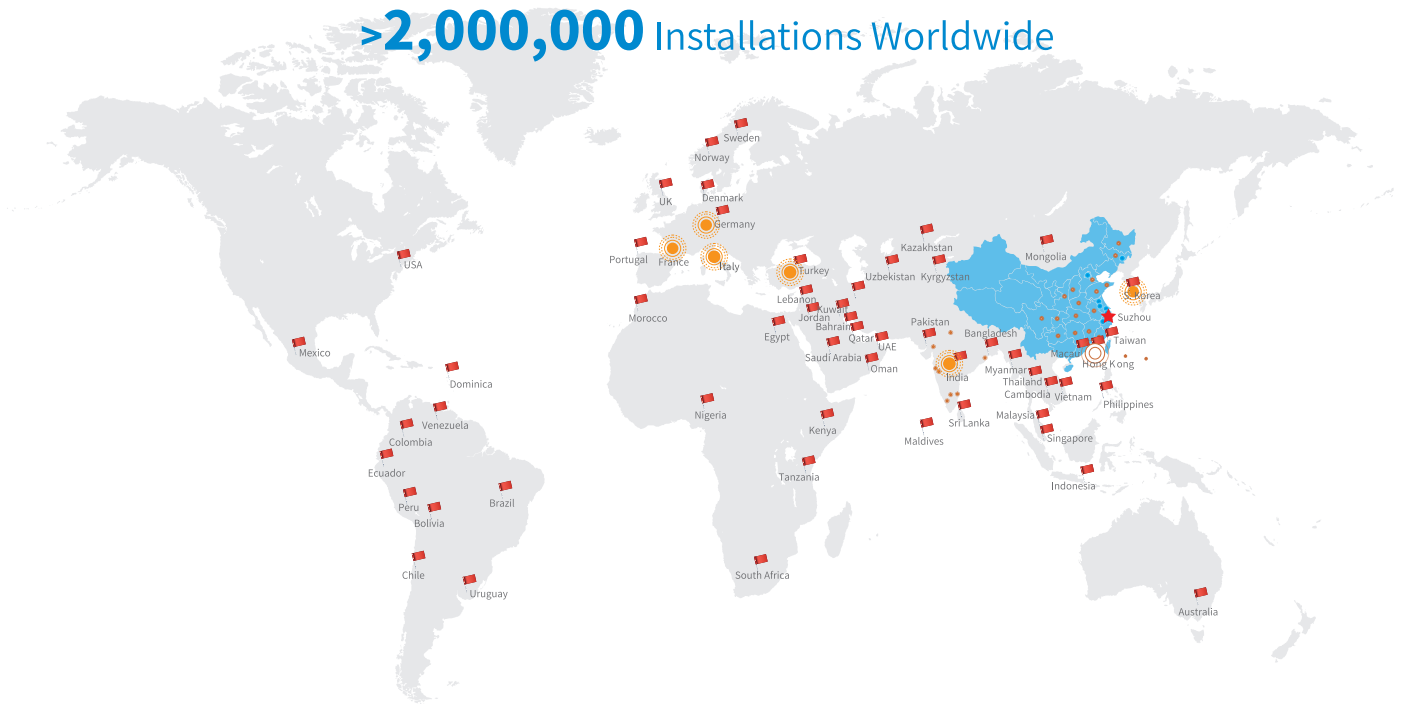
Frame size E, F

Frame size G

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

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