



R&M Materials Handling, Inc.
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13 SPARE PARTS LIST FOR HOISTING INVERTER



Inverter **D2V** includes boards for slots A, B and D, but does not include SSU, speed supervision unit for slot C.

POS	DESCRIPTION	NAME	ID	REMARKS	002	003	004	005	007	011	015	018	022	030	037	045	055
INVERTER																	
A1	Inverter	D2V002NF1N03	52318240	EMC level N/S	1												
		D2V002NF1003	52318207	EMC level 0	1												
		D2V003NF1N03	52318239	EMC level N/S		1											
		D2V003NF1003	52318208	EMC level 0		1											
		D2V004NF1N03	52318238	EMC level N/S			1										
		D2V004NF1003	52318209	EMC level 0			1										
		D2V005NF1N03	52318237	EMC level N/S				1									
		D2V005NF1003	52318210	EMC level 0				1									
		D2V007NF1N03	52318236	EMC level N/S					1								
		D2V007NF1003	52318211	EMC level 0					1								
		D2V011NF1N03	52318235	EMC level N/S						1							
		D2V011NF1003	52318212	EMC level 0						1							
		D2V015NF1N03	52318234	EMC level N/S							1						
		D2V015NF1003	52318213	EMC level 0							1						
		D2V018NF1N03	52318233	EMC level N/S								1					
		D2V018NF1003	52318214	EMC level 0								1					
		D2V022NF1N03	52318232	EMC level N/S									1				
		D2V022NF1003	52318215	EMC level 0									1				
		D2V030NF1N03	52318231	EMC level N/S										1			
		D2V030NF1003	52318216	EMC level 0										1			
		D2V037NF1N03	52318230	EMC level N/S											1		
		D2V037NF1003	52318217	EMC level 0											1		
		D2V045NF1N03	52318229	EMC level N/S												1	
		D2V045NF1003	52318218	EMC level 0												1	
		D2V055NF1N03	52318228	EMC level N/S													1
		D2V055NF1003	52318219	EMC level 0													1
BOARDS INCLUDED IN INVERTER D2V																	
	Basic I/O-board	NXOPTA6	52288046	Slot A	1	1	1	1	1	1	1	1	1	1	1	1	1
	Relay / Thermistor board	NXOPTA3	52305690	Slot B	1	1	1	1	1	1	1	1	1	1	1	1	1
	I/O Extension board	NXOPTB9	52305691	Slot D	1	1	1	1	1	1	1	1	1	1	1	1	1
SPEED SUPERVISION UNIT, SSU (not included in inverter D2V)																	
	Speed supervision unit	SSU	52288044	Slot C	1	1	1	1	1	1	1	1	1	1	1	1	1
BRAKE SUPPLY CIRCUIT BREAKER																	
F7	Protective switch	GV2-ME08	52297213						1	1	1	1	1	1	1	1	1
	Auxiliary contact	GV2-AN20	52275270						1	1	1	1	1	1	1	1	1
F71	Protective switch	GV2-ME08	52297213														1
	Auxiliary contact	GV2-AN20	52275270														1
BRAKE CONTACTOR																	
K7	Contactor	LC1-D09D7	52303564	42VAC	1	1	1	1	1	1	1	1	1	1	1	1	1
		C01E7	52296542	48VAC	1	1	1	1	1	1	1	1	1	1	1	1	1



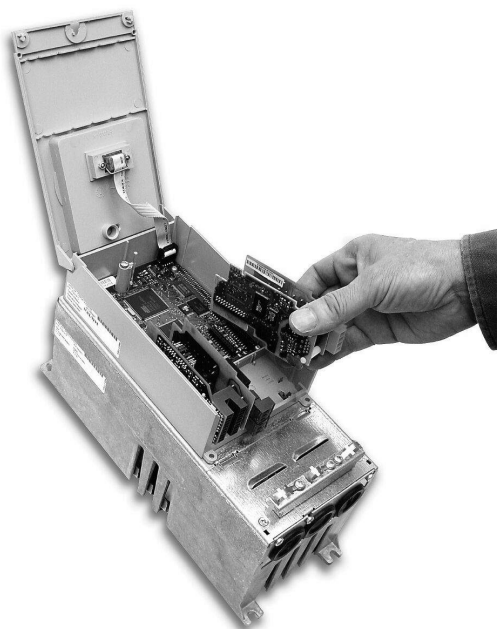
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		C01F7	52296548	115VAC	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		LC1-D09P7	52296643	230VAC	1	1	1	1	1	1	1	1	1	1	1	1	1	1
At K7	RC-filter	LA4-DA1E	52275256	42/48VAC	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		LA4-DA1U	52275257	115/230VAC	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BRAKE CONTROL UNIT (DC-BRAKE)																		
G1	Brake control unit	REC12	60010145		1	1	1	1	1	1								
		ESD141	60003098								1	1	1	1	1	1	1	1
SECOND BRAKE CONTACTOR																		
K71	Contactora	LC1-D09D7	52303564	42VAC														1
		C01E7	52296542	48VAC														1
		C01F7	52296548	115VAC														1
		LC1-D09P7	52296643	230VAC														1
	RC-filter	LA4-DA1E	52275256	42/48VAC														1
		LA4-DA1U	52275257	115/230VAC														1
	Auxiliary contact	LAD-8N20	52297562															1
		LAD-N04	52297548															1
COMPONENTS FOR EMC LEVEL (N)																		
CM1	Y-capacitor	KC-307-00	52298693	42VAC	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Z1	Ferrite	RU2100-30-7	52299351	Emission level N	1	1	1	1	1	1								
Z2		RH175285107	52297604		1	1	1	1	1	1								
Z3		RH175285107	52297604		1	1	1	1	1	1								
Z1		EF32010	52299352								2	2	2					
Z2		W74270096	52299353								1	1	1					
Z3		W7427015	52299354								2	2	2					
Z1		EF32010	52299352													2	2	2
Z2		W7427015	52299354													1	1	1
Z3		W742701111	52300355													7	7	7
Z2		W7427015	52299354															3
Z3		W7427015	52299354															4

NXLOPTAx / NXOPTxx / OPTBx

I/O EXPANSION OPTION BOARDS FOR INVERTERS

PRODUCT DATA



TYPES

OS no.	description
NXLOPTAx	I/O expansion boards used only with NXL HVAC product series
NXOPTxx	I/O expansion boards used with NXL HVAC and/or NXS product series
OPTBx	I/O expansion boards used with SmartDrive HVAC, NXL HVAC, and NXS products. All OPTBx boards are varnished as standard

SPECIFICATION

Analog Inputs/Outputs general

Isolation (not NXOPTA1) Inputs/Outputs galvanically isolated; isolation voltage rat 500 V

Analog inputs (AI), voltage [V]

Input 0(2)...±10 VDC, Ri 200 kΩ, single ended
 Resolution 10 bits/0.1%
 Accuracy ±1% of the full display

Analog input (AI), current [mA]

Input 0(4)...±20 mA, Ri 250 Ω, differential
 Resolution 10 bits/0.1%
 Accuracy ±1% of the full display

Digital inputs (DI), DC-controlled

Input 24 VDC, Ri > 5 kΩ
 State "0" 10 V, "1" 18 V

Digital inputs (DI), AC-controlled (OPTB9)

Input 42...240 VAC
 State "0" <33 V, "1" >35 V

Thermistor input

Application To be used with motor protection PTC thermistors
 Tripping limit R_{trip}=4.7 kΩ

GENERAL

The Honeywell I/O expansion option boards can be used with Honeywell SmartDrive HVAC, NXL HVAC and NXS inverters when more than standard inputs and outputs are needed.

These option boards are designed for easy installation (including even onsite installation) and are automatically recognized by the inverter software.

FEATURES

- Easy way to widen the I/O
- Plug and Play functionality - software will automatically recognize the expansion boards
- OPTBx I/O boards varnished as standard

Analog output (AO), current [mA]

Output	0(4)...20mA, RL<500Ω
Resolution	10 bits/0.1%
Accuracy	±2%

Analog output (AO), voltage [V]

Output	0(2)...10VDC, RL≥1kΩ
Resolution	10 bits/0.1%
Accuracy	±2%

Relay outputs (RO)

Switching capacity	24 VDC / 8 A, 250 VAC / 8 A, 125 VDC / 0.4 A
Max. continuous load	2 A RMS
Min. switching load	5 V / 10 mA

Digital outputs (DO), open collector

Output	48 VDC / 50 mA, open collector
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Auxiliary voltage output (+24 VDC)

Output	24 VDC (±15%)
Load	max. 150 mA from one board max. 250 mA total summarized load from external +24 VDC outputs

Aux. voltage outputs in standard inverters

Inverter family	QTY
SmartDrive COMPACT (fixed I/O)	1
NXL HVAC (fixed I/O+NXLOPTAI)	2
SmartDrive HVAC (fixed I/O)	2
NXS (NXOPTA1+NXOPTA3)	1

Aux. voltage outputs in option boards

Option board	QTY	Compatibility
NXLOPTAA	1	NXL HVAC
NXLOPTAI	1	NXL HVAC
NXOPTA1	1	NXS
NXOPTA8	1	NXS
NXOPTB8	1	NXS
OPTB4	1	NXL HVAC, SmartDrive HVAC, NXS

Reference voltage output (+10VDC)

Output	10 VDC (0...+2%)
Load	max. 10 mA

Ref. voltage outputs in standard inverters

Inverter family	QTY
SmartDrive COMPACT (fixed I/O)	1
NXL HVAC (fixed I/O+NXLOPTAI)	1
SmartDrive HVAC (fixed I/O)	1
NXS (NXOPTA1+NXOPTA3)	1

Ref. voltage outputs in option boards

Option board	QTY	Compatibility
NXOPTA1	1	NXS
NXOPTA8	1	NXS

Auxiliary voltage input (ext. +24 VDC)

Input	24 VDC (±10%, max ripple voltage 100 mV RMS)
Application	In special applications, this input can be used as external auxiliary power supply for control boards as well as for I/O boards. Thus, interruptions in mains supply do not affect the control side.

Aux. voltage inputs in standard inverters

Inverter family	QTY
SmartDrive COMPACT (fixed I/O)	-
NXL HVAC (fixed I/O+NXLOPTAI)	1
SmartDrive HVAC (fixed I/O)	1
NXS (NXOPTA1+NXOPTA3)	1

Aux. voltage inputs in option boards

Option board	QTY	Compatibility
NXOPTA1	1	NXS
NXOPTA8	1	NXS
NXOPTB8	1	NXS
OPTB4	1	NXL HVAC, SmartDrive HVAC, NXS

I/O Configuration

Standard in Inverters

Type	AI	AO	DI	Relay NO	Relay NO/NC	DO (*)	PT100/PT1000	TI (**)	configuration
SmartDrive COMPACT	2 (V and mA)	1 (mA)	6		2	1			Fixed I/O (no option board slots)
NXL HVAC	2 (mA/V)	1 (mA)	6	1	1			1	Fixed I/O + NXLOPTAI
SmartDrive HVAC	2 (mA/V)	1 (mA/V)	6		2			1	Fixed I/O
NXS	2 (mA/V)	1 (mA/V)	6	1	1	1		1	NXOPTA1+NXOPTA3

I/O Expansion Boards


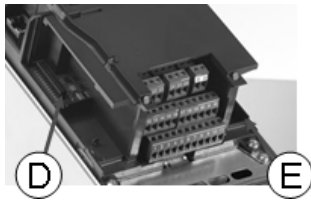
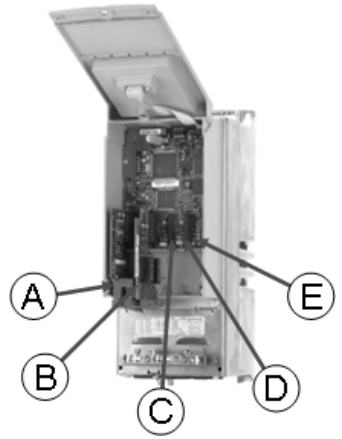
Type	AI	AO	DI	Relay NO	Relay NO/NC	DO (*)	PT100/PT1000	TI (**)	Special
NXLOPTAA			3		1	1			
NXLOPTAI			3	1				1	As standard in NXL HVAC
NXOPTA1	2 (mA/V)	1 (mA/V)	6			1			As standard in NXS
NXOPTA2					2				
NXOPTA3				1	1			1	As standard in NXS
NXOPTA8	2 (mA/V)	1 (mA/V)	6			1			As NXOPTA1 but with analog I/O galvanically de-coupled
NXOPTB2				1	1			1	
NXOPTB8							3 (PT100)		
OPTB1			(6)			(6)			Inputs programmable as either DI or DO
OPTB4	1 (mA)	2 (mA)							analog I/O galvanically de-coupled
OPTB5				3					
OPTB9			5	1					High voltage Digital inputs (41...240 VAC)
OPTBF		1 (mA/V)		1		1			

(* Open collector

(** Input for motor protection (PTC) thermistor

Note! Check the full configuration of inputs with terminal numbers from the product manuals from the Honeywell inverter page download center: <http://inverter.ecc.emea.honeywell.com>

Product Compatibility

Type	Product compatibility and installation place (option board slot)		
	NXL HVAC	SmartDrive HVAC	NXS
NXLOPTAA	E (*)	-	-
NXLOPTAI	E (*)	-	-
NXOPTA1	-	-	A
NXOPTA2	-	-	B (**
NXOPTA3	-	-	B (**
NXOPTA8	-	-	A
NXOPTB2	E (*)	-	B,C,D,E (**
NXOPTB8	-	-	B,C,D,E (**
OPTB1	-	D,E	B,C,D,E (**
OPTB4	E (*)	D,E	B,C,D,E (**
OPTB5	E (*)	D,E	B,C,D,E (**
OPTB9	-	D,E	B,C,D,E (**
OPTBF	-	D,E	-
			

(* In the NXL HVAC, there is already a NXLOPTAI board in Slot E. This board must be removed if an option board is added. Only expander boards NXLOPTAA and NXLOPTAI can be used in Slot E if Slot D has field bus board installed.

(** In the NXS, there is already a NXOPTA3 board in slot B. This board must be removed when considering adding an option board to this slot.

Honeywell

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Parts and accessories for inverters

Honeywell inverter inputs/outputs can be easily configured by adding or changing option cards. These option boards are designed to easy installation even on the site and are automatically identified by the inverter software.

NXL/NXS fieldbus cards

Product description	Type
RS485 (Modbus/N2)	NXOPTC2
Profibus DP	NXOPTC3
LonWorks	NXOPTC4
Profibus DP (D9 type connector)	NXOPTC5
CANopen (slave)	NXOPTC6
DeviceNet	NXOPTC7
RS485 (D9 type connector, Modbus/N2)	NXOPTC8
Ethernet (Modbus/TCP)	NXOPTCI
BACnet (RS485)	NXOPTCJ

NXL/NXS input/output cards

Product description	Type
2 relays, 1 thermistor	NXOPTB2
1 analog input (mA), 2 analog output (mA)	NXOPTB4
3 relays	NXOPTB5

NXL only input/output cards

Product description	Type
3 digital inputs, 1 relay, 1 digital output	NXLOPTAA
3 digital inputs, 1 relay, 1 thermistor; (included as a standard in NXL HVAC models)	NXLOPTAI

NXS only input/output cards

Product description	Type
Standard NXS Slot A board: 6 DI, 1 DO (Open collector), 2 AI, 1 AO	NXOPTA1
Standard NXS Slot B board: 2 Relay, 1 Thermistor	NXOPTA3
6 digital inputs/outputs (programmable)	NXOPTB1
3 Pt100 input	NXOPTB8
1 relay, 5 Vac inputs (42..240 Vac)	NXOPTB9
extra RS232 connection (e.g. for 2nd keypad)	NXOPTD3

SmartDrive PC connection tools and cables

Product description	Type
SmartDrive Compact Parameter download/upload and PC interface tool with cable for USB connection to PC	COMP-LOADER
SmartDrive Compact Parameter download/upload and PC interface tool without cable	COMP-LOADER-NC
SmartDrive 3.0m USB PC connection cable	SMARTDRIVE-USBC



Honeywell NX Series Frequency Converters

The Drive for
all Applications.



Honeywell NX-Series



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NX Series – the Drive for all Applications

The Honeywell NX Series drives have been built on the principles of software and hard-ware modularity. The power unit utilises the most sophisticated semiconductor technology, with highly modular construction that can be adapted to a customer's specific requirements. Typical power options include input and output filters, brake resistors together with IP21 (NEMA1) and IP54 (NEMA12) enclosure types.

Two types of control units are available - The standard sensor-less vector control unit, which has performance that is usually sufficient for most applications. The closed loop vector control unit, which has servo type performance for more demanding applications - e.g. - cranes, lifts, multiple synchronised drives.

The input and output I/O configuration is comprised of option cards, each with its own 'identity & personality'. The control module is designed to accept a total of five of these cards. The cards contain not only normal analogue and digital inputs/ outputs but also various

fieldbus and additional application specific hardware. The modular and robust design, combined with powerful software support for creation of IEC 61131-3 compatible applications, make the NX Series an ideal solution for even the most demanding applications. Furthermore, the wide temperature range, multi-lingual control panel, high reliability and flexibility makes the NX Series, the drive for all applications.

For end users

For the end user, the NX Series offers a range of new application capabilities and possibilities for reducing the stock and spares to a minimum. The NX is compatible with its predecessor, the CX Series, therefore drawings, installation and training material can be easily utilised. In addition, a wide selection of option cards offers new possibilities for reconfiguring the drive to future requirements. The wide voltage range, high overload capacity, and a user-friendly alphanumeric control panel, make the choice of the correct drive very easy.

For OEM customers


For the OEM customer the modular construction and wide selection of option cards make the NX Series a drive that can easily be incorporated into almost any machine. The versatile block-programming tool allows the NX Series to be programmed to replace a PLC and therefore significantly simplify the machine control. The servo performance of the NXP, the simplicity of the NXS and the compatible application software for both, makes the choice easy.

For system designers

The flexible I/O configuration and the high dynamic performance of the NX Series, can fully be exploited when used in various system applications. Typically, these include drives used in the paper, metal and textile industries. The NX Series can be configured to operate via several different Fieldbuses simultaneously, making it easy to communicate with a variety of control systems. The powerful control unit can be used for local control tasks, thus freeing the control system for overall control tasks.



Technical Specification

Power range	
NX Series	0.75...110 kW (1...150 Hp)
Mains Input Connection	
Input voltage	200...240 V, 380...500 V, 525...690 V -15%... + 10%
Input frequency	45...66 Hz
Connection to the mains	Once per minute. For more frequent connections, request advise.
Auxiliary voltage	
	Control logic can be powered from an external auxiliary supply, maintaining power to the control panel, internal drive functions and fieldbuses if necessary. 24 V DC, 300 mA
Motor Output Connection	
Voltage	$0...U_{in}$
Rated output	I_L : Low overload requirement, 10% for 1 minute every 10 minutes, 150% starting torque requirement, 40°C ambient temperature. I_H : High overload requirement, 50% for 1 minute every 10 minutes, 200% starting torque requirement, 50°C ambient temperature.
Starting current	I_s : Current defined for 2 sec every 20 sec if output frequency <30Hz and if the heatsink temp. <+60°C. See rating tables.
Starting torque	Motor and drive dependent
Output frequency	0...320 Hz (higher with different applications, max 7200 Hz)
Frequency resolution	0.01 Hz (NXS) Application dependent (NXP)

Control characteristics	
Control method	Frequency Control (U/f), Open Loop Sensorless Vector Control Closed Loop Frequency Control Closed Loop Vector Control (NXP only)
Switching frequency	1...16 kHz
Frequency reference	Analogue resolution 10 bit, accuracy $\pm 1\%$ (I/O card dependent)
Panel reference resolution	0.01 Hz
Field weakening point	30...320 Hz
Acceleration time	0...3000 sec (set minimum to set maximum frequency)
Deceleration time	0...3000 sec
Braking torque	DC brake: 30% x T_N (without brake option) Dynamic braking with optional internal resistor (FR4-6): 2 sec at T_N every 1 min. T_N based on high overload rating
Protective functions	
Overcurrent protection	Instantaneous trip limit $2 \times I_H$ RMS current.
Overvoltage protection	Trip limit $1.35 \times U_n$
Undervoltage protection	Trip limit $0.65 \times U_n$
Earth-fault protection	Protects the drive from an earth-fault in the output (motor or motor cable). $I_e > 20\% \times I_N$.
Mains supervision	Trips if any input phase is missing (programmable)
Motor phase	Trips if any output phase supervision is missing
Other	Unit over temperature protection, motor overload protection, stall protection, motor underload protection, short circuit protection of +24V and +10V reference voltages.



Control connections

Depend on the control card configuration, see page 16.

Typical values, check the specific card.

Analogue voltage 0...+10V, $R_i = 200\text{ k}\Omega$, single ended (-10...+10V, joystick control), resolution 10 bit, accur. $\pm 1\%$

Analogue current 0(4)...20 mA, $R_i = 250\ \Omega$, differential

Digital inputs (6) Positive or negative logic

Aux. voltage out +24V $\pm 20\%$, max 250 mA

Aux voltage in +24V $\pm 20\%$, max 300 mA

Pot. meter ref. +10V, +3%, max 10 mA

Analogue output 0(4)...20 mA, $R_L < 500\ \Omega$, resolution 10 bit, accur. $\pm 3\%$

Digital output Open collector output, 50 mA/48V

Relay outputs Max switching voltage: 125V DC, 250 V AC

Max switching load 8A/24V DC, 0.4A/125V DC, 2kVA/250V AC

Max continuous load 2 A rms

Environmental limits

Ambient operating temperature -10 (no frost)...+40°C for low overload selection, -10 (no frost)...+ 50°C for high overload selection

Storage -40°C...+60°C

Relative humidity <95%, no condensation allowed

Air quality chemical vapours IEC 721-3-3, unit in operation, class 3C2

Mechanical particles IEC 721-3-3, unit in operation, class 3S2

Altitude max 1000 m at rated current. Over 1000 m reduce rated current by 1% per each 100 m, for altitudes >3000 m contact factory.

Vibration EN50178
EN60068-2-6
IEC68-2-6, -34, -35, -36
IEC721-3-3

Operation max displacement amplitude 3 mm at 5...10,7 Hz, max acceleration amplitude 0.7 G at 10,7...200 Hz

Shock EN50178
IEC68-2-27

Operation max. 8 G, 11 ms

Storage and shipping max. 15 G, 11 ms (in the package)

EMC

Noise immunity Complies with EN50082 -1, -2, EN61800-3

Emissions Coded series (see Type designation) complies with EN61800-3, 1st environment restricted distribution, 2nd environment restricted distribution. With external filter complies with EN50081-1,-2, EN61800-3, 1st environment unrestricted distribution requirements.

Safety Fulfills EN50178, EN60204-1, CE, UL, C-UL, (CSA) FI, GOST R (check the rating plate for specified approvals for each unit)

CE mark yes

All specifications subject to change without notice.

Type Designation Code

e.g. **NXS 0022 V35 A 2 H 1**

Product range NXS = standard drive
NXP = high-performance drive

Maximum continuous output 0022 = 22 A

current @ +40°C

Nominal mains voltage 2 = 200...240 V AC (3-phase)
5 = 380...500 V AC (3-phase)
6 = 525...690 V AC (3-phase)

Control panel A = Standard Alphanumeric keypad
B = No keypad
F = Dummy keypad (just case, no electronics, black overlay with LEDs visible)

Enclosure classification 2 = IP21/NEMA1
5 = IP54/NEMA12

RFI level H = complies with the standard IEC61800-3, 1st environment, restricted distribution, 2nd environment
T = fulfills the standard IEC61800-3 for IT networks
L = complies with EN61800-3, 2nd environment

Internal brake chopper option 0 = no brake chopper
1 = built-in brake chopper
2 = built-in brake chopper and brake resistor

Card Types

I/O-card types

Card type A

Currently four types of cards are available, and they all carry the type designation of type NXOPTxx as follows:

Basic cards

NXOPTA1, NXOPTA9, NXOPTAA, ... NXOPTAZ

- all type designations are NXOPTA_
- basic cards

- this type of card can only use slots A, B and C. Check documentation for details.

Specifications

Card type A

I/O type	NXOPTA1	NXOPTA2	NXOPTA3	NXOPTA4 (only NXP)	NXOPTA5 (only NXP)
DI	6				
DO	1				
AI (mA/V/+V)	2				
AO (mA/V)	1				
RO (NO/NC)		2	1		
RO (NO)			1		
+10V ref	1				
Thermistor			1		
+24V / EXT +24V	2				
DI / Encoder (10...24V)					3
DI / Encoder (RS422)				3	
Out +5V / +15V				1	
Out +15V / +24V					1

Note 1:

Slot **A** can accept only option card NXOPTA1, slot **B** only option cards NXOPTA2, NXOPTA3

NXOPTC2 (Modbus)

NXOPTC3 (Profibus DP)

NXOPTC5 (Profibus DP/D9 connector)

Note: These cards can be installed in slots **D and E**

Note 2:

NXOPTA4 and NXOPTA5 fit only in slot **C**.

NXOPTD1 (NXP, System Bus adapter)

Note: These cards can only use slots **D and E**

Additional cards are under development, please enquire at your local Honeywell office.