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Danfoss VACON NXP and VACON NXC AC Drives



Continuous control. Pure power

VACON® NXP is a premium air-cooled AC drive for use in all applications where reliability, robust performance, precision and power are required. These drives are available in the power range from 0.55 kW to 2,000 kW.

Ideal for demanding applications

VACON® NXP range offers the ultimate in motor control, for both induction and permanent magnet (PM) motors, gearless drive applications and paralleling solutions for high power motors. VACON® NXP is the smart drive of choice. With fast fieldbus options and exceptional programming flexibility, your VACON® NXP is easily integrated into any plant's automation system. Satisfied customers also rely on our enclosed cabinet drive solution, VACON® NXC, to perform in the most challenging industrial environments such as oil and gas, extrusion, mining, pulp and paper, water and wastewater applications. With improved functional safety, extensive approvals in place and comprehensive maintenance tools, you can be sure that your VACON® AC drives will give you the best possible control and ensure high operational quality and availability over the entire lifetime of your system. Our VACON® NXP portfolio fulfills key international standards and global requirements, including safety and EMC and Harmonics approvals.

In harmony with the environment

Our commitment to being an environmentally responsible company is exemplified in our energy-saving products and solutions. We have developed our manufacturing process in

order to minimize the impact on the environment. All excess materials in the production and service processes are carefully sorted and recycled.

We continue to develop innovative solutions utilizing regenerative energy and smart grid technology to help customers effectively monitor and control energy use and costs. At your service Whether you are an original equipment manufacturer (OEM), system integrator, brand label customer, distributor or end user, Danfoss Drives provides services to help you meet your business targets. Our global service solutions are available 24/7 throughout the product lifecycle with the intent to minimize the total cost of ownership and environmental load.



VACON® NXP wall-mounted range



VACON® NXP drive modules



VACON® NXC drive cabinets

VACON® NXP/NXC

Typical segments	Key features	Benefits
<ul style="list-style-type: none">■ Mining and Minerals■ Compressors■ Marine and Offshore■ Cranes and Hoists■ Metals■ Chemical and Refining■ Water and Wastewater■ Oil and Gas■ Pulp and Paper■ Cement and Gass■ General process industry	Full power and voltage range from 0.55 kW to 2.0 MW for both induction and permanent magnet motors.	Same software tools, same control and option boards allowing the maximum utilization of VACON® NXP features over a wide power range.
	Extensive range of ready-to-use applications for basic to demanding needs.	No additional software engineering required, saving time and money.
	Create your own applications with VACON® Programming tool (licensed software tool).	Customized applications provide added flexibility to meet process requirements.
	Five built-in expansion slots for additional I/O, fieldbus and functional safety boards.	No additional external modules required. Options boards are compact and easy to install at any time.

Multiple options

• VACON® NXP Control

VACON® NXP offers a high-performance control platform for all demanding drive applications. The microcontroller provides both exceptional processing power and small footprint. The VACON® NXP supports both induction and permanent magnet motors in open and closed loop control modes. It also provides bumpless control for transferring between open loop and closed loop. VACON® Programming tool can be

used to improve performance and save costs by integrating customer-specific functionality into the drive. The same control board is used in all VACON® NXP drives, allowing the maximum utilization of VACON® NXP control features over a wide power and voltage range.



- **Option boards**

Our VACON® NXP Control provides exceptional modularity by offering five (A, B, C, D and E) plug-in extension slots. Fieldbus boards, encoder boards as well as wide range of IO boards can simply be plugged-in at any time without the need to remove any other components. A listing of all options boards is provided on page 21.



- **Fieldbus options**

Your VACON® NXP is easily integrated within a plant's automation system by using plug-in fieldbus option boards including PROFIBUS DP, Modbus RTU, DeviceNet and CANopen. Fieldbus technology ensures increased control and monitoring of the process equipment with reduced cabling – ideal for industries where the need to ensure that products are produced under the right conditions is of paramount importance. An external +24 V supply option enables communication with the control unit even if the main supply is switched off. Fast drive-to-drive communication is possible using our fast SystemBus fiber optic communication. communication is possible using our fast SystemBus fiber optic communication. Profibus DP |



- **Ethernet connectivity**

VACON® NXP is the smart drive of choice, as there is no need to purchase additional communication tools. Ethernet connectivity allows remote drive access for monitoring, configuring and troubleshooting. Our Ethernet protocols such as PROFINET IO, EtherNet/IP and Modbus/TCP are available for all VACON® NXP drives. New Ethernet protocols are being continuously developed.

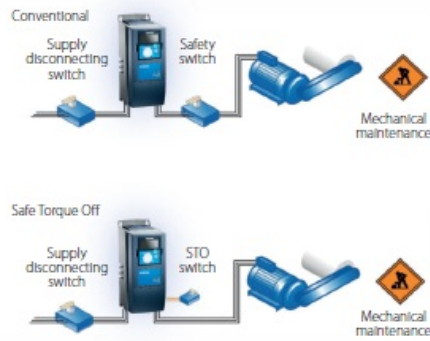
Modbus/TCP | PROFINET IO + System Redundancy S2 and PROFISAFE | EtherNet/IP



Functional safety

Advanced Safety Options

The VACON Advanced Safety Options operate the safety functions of an AC drive via the PROFIsafe fieldbus or I/O control. They improve flexibility by connecting safety devices within a plant.



Safe Stop functions

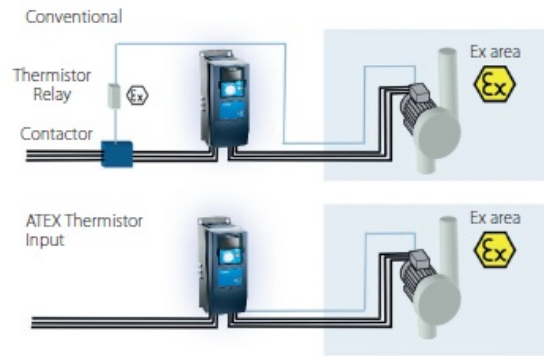
- STO – Safe Torque Off
- SS1 – Safe Stop 1
- SS2 – Safe Stop 2
- SBC – Safe Brake Control
- SQS – Safe Quick Stop

Safe Speed functions

- SLS – Safely-limited Speed
- SSM – Safe Speed Monitor
- SSR – Safe Speed Range
- SMS – Safe Maximum Speed

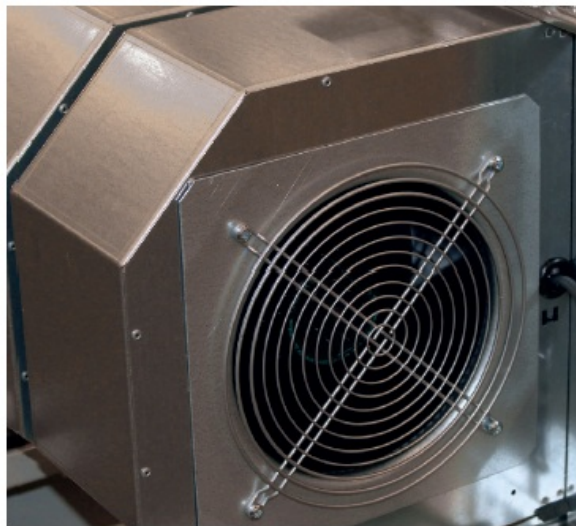
ATEX certified thermistor input

An ATEX approved thermistor input is available as an integrated option. Certified and compliant with the European ATEX directive 94/9/EC, the integrated thermistor input is specially designed for the temperature supervision of motors that are placed in areas in which potentially explosive gas, vapor, mist or air mixtures are present and areas with combustible dust. Typical industries requiring such supervision include chemical, petrochemical, marine, metal, mechanical, mining, and oil drilling. If overheating is detected, the drive immediately stops feeding energy to the motor. As no external components are needed, the cabling is minimized, improving reliability and saving on both space and costs.



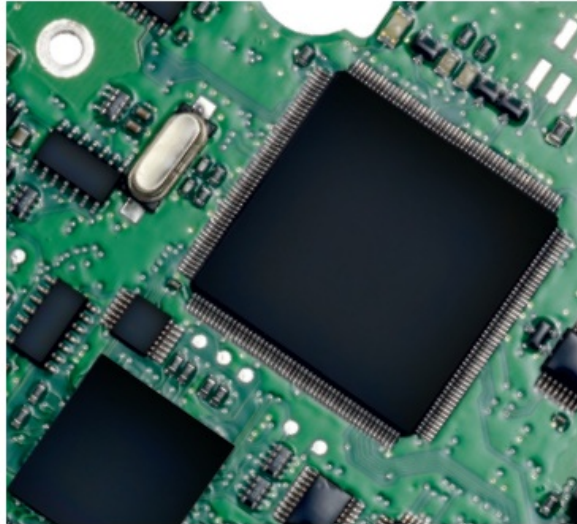
DC cooling fans

VACON® NXP high-performance air-cooled products are equipped with DC fans. This significantly increases the reliability and lifetime of the fan also fulfilling the ERP2015 directive on decreasing fan losses. Likewise, the DC-DC supply board component ratings fulfill industrial requirement levels.



Conformal coating

To increase performance and durability, conformally coated circuit boards (also known as varnished boards) are provided as standard for power modules (FR7 – FR14). The upgraded boards offer reliable protection against dust and moisture and extend the lifetime of the drive and critical components.



Commissioning made easy

User-friendly keypad

The user interface is intuitive to use. You will enjoy the keypad's well-structured menu system that allows for fast commissioning and trouble-free operation.

- Removable panel with plug-in connection
- Graphical and text keypad with multiple language support
- Text display multi-monitoring function
- Parameter backup and copy function with the panel's internal memory
- The startup wizard ensures a hassle-free set up. Choose the language, application type and main parameters during the first power-up.



Documentation wizard

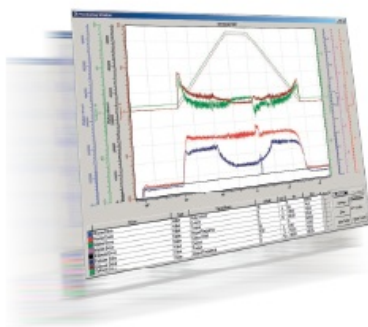
Make use of our VACON® Documentation Wizard and achieve dramatic savings in engineering time. The Documentation Wizard is a technical documentation tool, which creates a complete set of drawings for each VACON® NXC configuration. Just enter the product information, i.e. a type code, required variations and extra equipment (plus

codes) into the user interface field, and the tool will automatically generate the documentation in any of the following formats: DWG (AutoCAD) drawings, DXF (AutoCAD) drawings, PDF (Adobe reader) and E-plan project (prj).



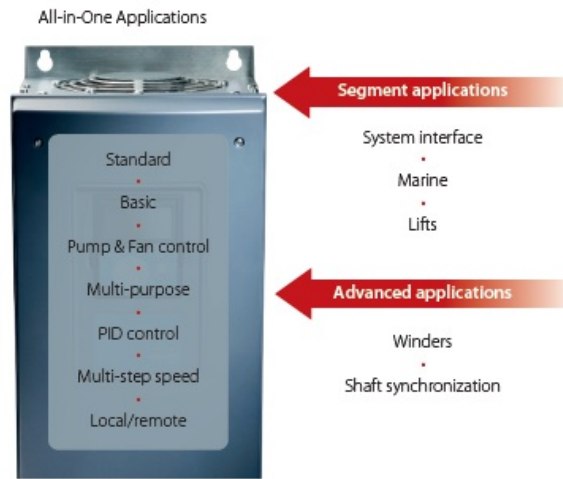
VACON® NCDrive

VACON® NCDrive is used for setting, copying, storing, printing, monitoring and controlling parameters. The VACON® NCDrive communicates with the drive via the following interfaces: RS-232, Ethernet TCP/IP, CAN (fast multiple drive monitoring), CAN@Net (remote monitoring). VACON® NCDrive also includes a handy Datalogger function, which offers you the possibility to monitor and analyze data. PC-tools can be downloaded from <http://drives.danfoss.com>



All-in-one application package

The All-in-One application package has seven built-in software applications, which can be selected with one parameter. In addition to the All-in-One package, we offer several segment specific and advanced applications such as System Interface application, Marine application, Lift application and Shaft Synchronisation application for more demanding uses. VACON® NXP applications can be downloaded from <http://drives.danfoss.com>

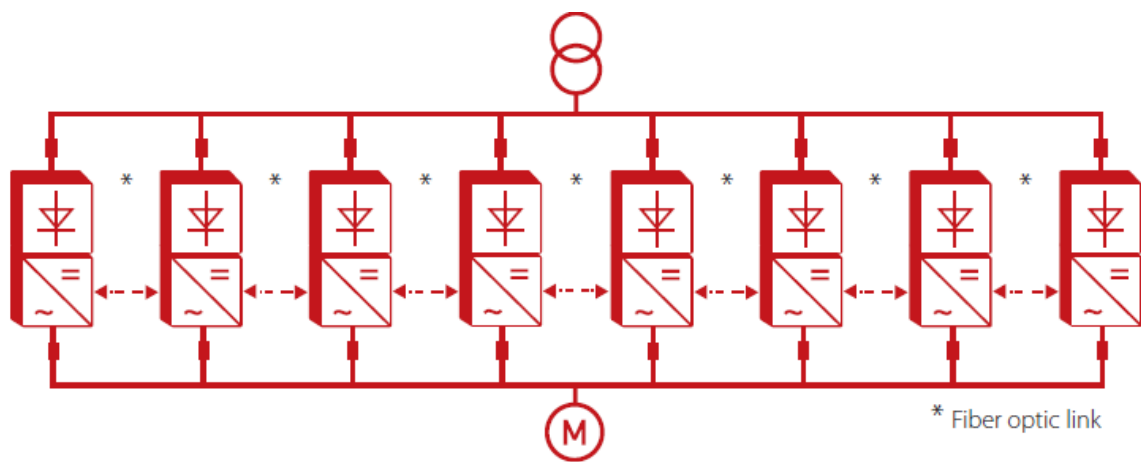


High power and improved redundancy

VACON® DriveSync is our innovative control concept for running standard drives in parallel to control high-power AC motors or increase the redundancy of a system. This concept suits single or multiple winding motors typically above 1 MW.

Powerful AC drives can be built using standard drive components and have the following benefits:

- The system is modular and easy to extend
- High total power can be obtained by combining smaller drives
- System redundancy is higher than in a conventional drive because each unit can run independently
- Individual drive is easy to maintain and service
- Identical units reduce the required amount of spare parts thus reducing overall costs
- No special skills are required for the engineering, installation, commissioning and maintenance of drives as they are comprised of standard modules
- It is possible to run multiple winding motors with a phase shift between the windings



Example of the VACON® DriveSynch configuration.

Typical VACON® DriveSynch examples using VACON® NXP/NXC drives

Main voltage	AC drive type 2 x NXC 1150 5 A 2 L 0 SSF	Loadability					Motor shaft power		Frame size	Dimensions and weight W x H x	
		Low (+40°C)		High (+50°C)			400 V supply				
		Rated continuous	10% overload	Rated continuous	50% overload		Maximum current	10% overload			50% overload

3 80- 50 0 V 50/ 60 Hz		cu rr en t l L [A] 21 50	cu rr en t [A] 23 65	cu rr en t l H [A] 19 40	cu rr en t [A] 29 10	t l s [A] 3 49 2	ad P [k W] 1 20 0	ad P [k W] 1 10 0	z e 2 x F R 1 3	D (mm)/ kg 160 6 x 2275 x 605/13 50	
	2 x NXC 1 300 5 A 2 L 0 SSF	24 70	27 17	21 85	32 78	39 33	13 50	11 00			
	2 x NXC 1 450 5 A 2 L 0 SSF	27 55	30 31	24 70	37 05	44 46	15 00	13 50			
	3 x NXC 1 150 5 A 2 L 0 SSF	32 78	36 05	29 36	44 03	52 84	18 00	15 00			
	3 x NXC 1 300 5 A 2 L 0 SSF	37 05	40 76	32 78	49 16	59 00	20 00	18 00	3 x F R 1 3	1606 x 2 275 x 60 5/1350	

	3 x NXC 1 450 5 A 2 L 0 SSF	41 33	45 46	37 05	55 58	66 69	22 50	20 00			
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Values are given at switching frequency 2.0 kHz.

Main supply voltage		Loadability					Motor shaft power				
		Low (+40°C)		High (+50°C)			690 V supply				
		Rated continuous load current I _L [A]	10% overload current I _L [A]	Rated continuous load current I _H [A]	50% overload current I _H [A]	Maximum current I _s [A]	10% overload P ₁ [kW]	50% overload P ₂ [kW]			
525-690 V 50/60	AC drive type 2 x NXC 0920 6 A 2 L 0 SSF	1748	1920	1500	2337	26679	17710	15520	Frame size 2 x FR 13	Dimensions and weight W x H x D (mm)/kg 1406 x 2275 x 605/1250	
	2 x NXC 1030 6 A 2 L 0 SSF	1810	2000	1500	2337	2679	1710	1520			

Hz	2 x NXC 1 180 6 A 2 L 0 SSF*	19 50	21 40	16 30	25 00	33 35	19 00	16 10	3 x F R 1 3	1406 x 2 275 x 60 5/1250	
	3 x NXC 0 920 6 A 2 L 0 SSF	26 22	28 84	23 37	34 90	40 19	25 00	22 00			
	3 x NXC 1 030 6 A 2 L 0 SSF	27 06	30 00	23 37	34 90	40 19	25 00	22 00			
	3 x NXC 1 180 6 A 2 L 0 SSF*	29 10	32 10	25 00	37 35	50 02	28 00	24 10			

*Max. ambient temperature of +35°C.

Values are given at switching frequency 2.0 kHz.



VACON® NXP wall-mounted

The VACON® NXP wall-mounted is one of the most compact and comprehensive drive packages on the market, with all the necessary components integrated in a single frame. For the lower power range, VACON® NXP drives are available in a compact IP21 or IP54 frame.

Fully equipped

VACON® NXP wall-mounted units are equipped with internal EMC filtering and the

power electronics are integrated into an all-metal frame. The smaller frame sizes (FR4-FR6) have an integrated brake chopper as standard and the 380-500 V units can be equipped with an integrated brake resistor. The larger frames (FR7-FR12) can be equipped with an integrated brake chopper as an option.

Typical applications

- Elevators and escalators
- Cranes and hoists
- Winches and cargo pumps
- Pumps and fans
- Conveyors
- Machine tools
- Yaw and pitch control
- Oil pumps
- Winders and unwinders
- Pulp dryers
- Tissue machinery
- Extruders

Features

- Complete voltage range 230...690 V AC
- Removable panel with parameter back-up function
- Common control board
- Built-in I/O expandability, 5 slots available and option boards in all frame sizes
- Marine type approvals and functional safety features
- Integrated brake chopper as standard in FR4-6, 380-500 V units.

Benefits

- One type of drive for wide power and voltage range reduces the complexity and the need for additional training
- Easier commissioning – saves time
- Same software tools and applications for the entire range

- Compact and easy to install –saves time and money
- System complexity can be reduced saving engineering time and costs



Ratings and dimensions

Main insulation voltage			Loadability				Motor shaft power					
	Low (+40°C)		High (+50°C)			230 V / 400 V/ 690 V						
	Ra		Ra			Ma						

	AC drive type NXP 0003 2 A 2 H 1 S S S	te d co nti nu ou s c ur re nt I_L [A] 3.7	10 % ov erl oa d cu rre nt [A] 4.1	te d co nti nu ou s c ur re nt I_H [A] 2.4	50 % ov erl oa d cu rre nt [A] 3.6	xi m u m cu rre nt I_s [A] 4.8	10 % ov erl oa d P [k W] 0.55	50 % ov erl oa d P [k W] 0.37	F r a m e s i z e F R 4	Dimens ions an d weig ht W x H x D (mm)/ kg 128 x 292 x 190/ 5	
	NXP 000 4 2 A 2 H 1 S S S	4.8	5.3	3.7	5.6	7.4	0.75	0.55			
	NXP 000 7 2 A 2 H 1 S S S	6.6	7.3	4.8	7.2	9.6	1.1	0.75			
	NXP 000 8 2 A 2 H 1 S S S	7.8	8.6	6.6	9.9	13.2	1.5	1.1			
	NXP 001 1 2 A 2 H 1 S S S	11	12.1	7.8	11.7	15.6	2.2	1.5			

20 8-2 40 V5 0/6 0 H z3~	NXP 001 2 2 A 2 H 1 S S S	12. 5	13. 8	11	16. 5	22	3	2.2			
	NXP 001 7 2 A 2 H 1 S S S	17. 5	19. 3	12. 5	18. 8	25	4	3	F R 5	144 x 3 91 x 21 4/ 8.1	
	NXP 002 5 2 A 2 H 1 S S S	25	27. 5	17. 5	26. 3	35	5.5	4			
	NXP 003 1 2 A 2 H 1 S S S	31	34. 1	25	37. 5	50	7.5	5.5			
	NXP 004 8 2 A 2 H 1 S S S	48	52. 8	31	46. 5	62	11	7.5	F R 6	195 x 5 19 x 23 7/ 18.5	
	NXP 006 1 2 A 2 H 1 S S S	61	67. 1	48	72	96	15	11			
	NXP 007 5 2 A 2 H 0 S S S	75	83	61	92	12 2	22	15			

NXP 008 8 2 A 2 H 0 S S S	88	97	75	11 3	15 0	22	22	F R 7	237 x 5 91 x 25 7/ 35	
NXP 011 4 2 A 2 H 0 S S S	11 4	12 5	88	13 2	17 6	30	22			
NXP 014 0 2 A 2 H 0 S S S	14 0	15 4	10 5	15 8	21 0	37	30	F R 8	291 x 7 58 x 34 4/ 58	
NXP 017 0 2 A 2 H 0 S S S	17 0	18 7	14 0	21 0	28 0	45	37			
NXP 020 5 2 A 2 H 0 S S S	20 5	22 6	17 0	25 5	33 6	55	45			
NXP 026 1 2 A 2 H 0 S S F	26 1	28 7	20 5	30 8	34 9	75	55	F R 9	480 x 1 150 x 3 62/ 146	
NXP 030 0 2 A 2 H 0 S S F	30 0	33 0	24 5	36 8	44 4	90	75			

NXP 000 3 5 A 2 H 1 S S S	3,3	3,6	2,2	3,3	4,4	1,1	0,7 5	F R 4	128 x 2 92 x 19 0/ 5	
NXP 000 4 5 A 2 H 1 S S S	4,3	4,7	3,3	5	6,2	1,5	1,1			
NXP 000 5 5 A 2 H 1 S S S	5,6	6,2	4,3	6,5	8,6	2,2	1,5			
NXP 000 7 5 A 2 H 1 S S S	7,6	8,4	5,6	8,4	10, 8	3	2,2			
NXP 000 9 5 A 2 H 1 S S S	9	9,9	7,6	11, 4	14	4	3			
NXP 001 2 5 A 2 H 1 S S S	12	13, 2	9	13, 5	18	5,5	4			
NXP 001 6 5 A 2 H 1 S S S	16	17, 6	12	18	24	7,5	5,5			

38 0-5 00 V5 0/6 0 H z 3 ~	NXP 002 2 5 A 2 H 1 S S S	23	25, 3	16	24	32	11	7,5	F R 5	144 x 3 91 x 21 4/8.1	
	NXP 003 1 5 A 2 H 1 S S S	31	34	23	35	46	15	11			
	NXP 003 8 5 A 2 H 1 S S S	38	42	31	47	62	18, 5	15	F R 6	195 x 5 19 x 23 7/18.5	
	NXP 004 5 5 A 2 H 1 S S S	46	51	38	57	76	22	18, 5			
	NXP 006 1 5 A 2 H 1 S S S	61	67	46	69	92	30	22			
	NXP 007 2 5 A 2 H 0 S S S	72	79	61	92	12 2	37	30	F R 7	237 x 5 91 x 25 7/35	
	NXP 008 7 5 A 2 H 0 S S S	87	96	72	10 8	14 4	45	37			

	NXP 010 5 5 A 2 H 0 S S S	10 5	11 6	87	13 1	17 4	55	45			
	NXP 014 0 5 A 2 H 0 S S S	14 0	15 4	10 5	15 8	21 0	75	55	F R 8	291 x 7 58 x 34 4/58	
	NXP 016 8 5 A 2 H 0 S S S	17 0	18 7	14 0	21 0	28 0	90	75			
	NXP 020 5 5 A 2 H 0 S S S	20 5	22 6	17 0	25 5	33 6	11 0	90			
	NXP 026 1 5 A 2 H 0 S S F	26 1	28 7	20 5	30 8	34 9	13 2	11 0	F R 9	480 x 1 150 x 3 62/146	
	NXP 030 0 5 A 2 H 0 S S F	30 0	33 0	24 5	36 8	44 4	16 0	13 2			
	NXP 000 4 6 A 2 L 0 S S S	4,5	5	3,2	4,8	6,4	3	2,2			

52 5-6 90 V5 0/6 0 H z 3 ~	NXP 000 5 6 A 2 L 0 S S S	5,5	6,1	4,5	6,8	9	4	3	F R 6	195 x 5 19 x 23 7/18.5	
	NXP 000 7 6 A 2 L 0 S S S	7,5	8,3	5,5	8,3	11	5,5	4			
	NXP 001 0 6 A 2 L 0 S S S	10	11	7,5	11, 3	15	7,5	5,5			
	NXP 001 3 6 A 2 L 0 S S S	13, 5	14, 9	10	15	20	11	7,5			
	NXP 001 8 6 A 2 L 0 S S S	18	19, 8	13, 5	20, 3	27	15	11			
	NXP 002 2 6 A 2 L 0 S S S	22	24, 2	18	27	36	18, 5	15			
	NXP 002 7 6 A 2 L 0 S S S	27	29, 7	22	33	44	22	18, 5			
	NXP 003 4 6 A 2 L 0 S S S	34	37	27	41	54	30	22			
	NXP 004 1 6 A 2 L 0 S S S	41	45	34	51	68	37, 5	30	F R	237 x 5 91 x 25	

NXP 005 2 6 A 2 L 0 S S S	52	57	41	62	82	45	37, 5	7	7/35	
NXP 006 2 6 A 2 L 0 S S S	62	68	52	78	10 4	55	45	F R 8	291 x 7 58 x 34 4/58	
NXP 008 0 6 A 2 L 0 S S S	80	88	62	93	12 4	75	55			
NXP 010 0 6 A 2 L 0 S S S	10 0	11 0	80	12 0	16 0	90	75			
NXP 012 5 6 A 2 L 0 S S F	12 5	13 8	10 0	15 0	20 0	11 0	90			
NXP 014 4 6 A 2 L 0 S S F	14 4	15 8	12 5	18 8	21 3	13 2	11 0	F R 9	480 x 1 150 x 3 62/146	
NXP 017 0 6 A 2 L 0 S S F	17 0	18 7	14 4	21 6	24 5	16 0	13 2			
NXP 020 8 6 A 2 L 0 S S F	20 8	22 9	17 0	25 5	28 9	20 0	16 0			



VACON® NXP drive module

VACON® NXP high-power IP00 drive modules are intended for installation into a cabinet, switchgear or any separate enclosure. Module installation in standard enclosures is easy given the compact design.

Designed to fit

VACON® NXP drive modules of frame size FR10 – FR12 embody one (FR10 and FR11) or two (FR12) power modules. VACON® NXP frame sizes FR13 – FR14 comprise two to four non-regenerative front-end (NFE) units and one (FR13) or two (FR14) inverter units. External AC chokes are also included in the delivery. The VACON® NXP modules are available as both 6-pulse and 12-pulse supply versions.

Typical applications

- Conveyors
- Cranes and lifts
- High-speed compressors
- Ski lifts
- Main propulsion and bow thrusters
- Extruders
- Winches & cargo pumps
- Oil pumps
- Test benches
- Static power supply
- Grinders and mixers

- Winders and unwinders
- Chippers
- Tunneling Machines

Features

- Easy cabinet integration with additional assembly kits
- One of the smallest on the market
- Extensive marine type approvals
- VACON® DriveSynch features

Benefits

- With optimized module design, less engineering is needed saving time and money
- Compact module size require less cabinet space, while reducing the overall costs
- Improved redundancy and higher powers up to 5 MW



Hardware configurations

Function	Availability
----------	--------------

Integrated control	Standard
External control	Optional
Integrated brake chopper	Optional (FR 10-12)
6-Pulse Supply	Standard
12-Pulse Supply	Optional
EMC filtering N	Standard
EMC filtering T (for IT -networks) AC choke Output filters dU/dt, Sine and com mon mode	Optional Standard Optional



Ratings and dimensions

		Loadability		Motor s haft po wer			
		Low (+ 40°C)	High (+ 40°C)		400 V / 690 V		

Main s vol tag e	AC drive type	R at ed co nti -n uo us cu rr en t I L [A]	10 % ov er- lo ad cu rr en t [A]	R at ed co nti -n uo us cu rr en t I H [A]	50 % ov er- lo ad cu rr en t [A]	M ax i- m u m cu rre nt I _S [A] 540	10 % ov er- loa dP [kW]	50 % ov er- loa dP [kW]	Fr a m e s ize	Module W x H x D (mm)/ kg	Chokes W x H x D (mm)/ kg
	NXP 0385 5 A 0 N 0 SS A	38 5	42 4	30 0	45 0		20 0	16 0			350 x 383 x 262/84 ¹⁾
	NXP 0460 5 A 0 N 0 SS A	46 0	50 6	38 5	57 8	69 3	25 0	20 0	FR 10	500 x 1165 x 506/120	497 x 399 x 244/115 ¹⁾
	NXP 0520 5 A 0 N 0 SS A*	52 0	57 2	46 0	69 0	82 8	25 0	25 0			497 x 399 x 244/115 ¹⁾
	NXP 0590 5 A 0 N 0 SS A	59 0	64 9	52 0	78 0	93 6	31 5	25 0			

[illegible]

	NXP 1300 5 A 0 N 0 SS F	13 00	14 30	11 50	17 25	20 70	71 0	63 0	FR 13	3 x (239 x 1030 x 372 /67) +1 x (7 08 x 1030 x 553/302) 2)	3 x (497 x 449 x 249/ 130) 2)
	NXP 1450 5 A 0 N 0 SS F	14 50	15 95	13 00	19 50	23 40	80 0	71 0		3 x (239 x 1030 x 372 /67) +	3 x (497 x 449 x 249/ 130) 2)
										1 x (708 x 1030 x 553 /302) 2)	
	NXP 1770 5 A 0 N 0 SS F	17 70	19 47	16 00	24 00	28 80	10 00	90 0		4 x (239 x 1030 x 372 /67) +	4 x (497 x 449 x 249/ 130)
									FR 14	2 x (708 x 1032 x 553 /302)	
	NXP 2150 5 A 0 N 0 SS F	21 50	23 65	19 40	29 10	34 92	12 00	11 00		4 x (239 x 1030 x 372 /67) +	4 x (497 x 449 x 249/ 130)
										2 x (708 x 1032 x 553 /302)	
	NXP 0261 6 A 0 N 0 SS A	26 1	28 7	20 8	31 2	37 5	25 0	20 0		500 x 1165 x 506/120	354 x 319 x 230/53 3)

	NXP 0325 6 A 0 N 0 SS A	32 5	35 8	26 1	39 2	47 0	31 5	25 0	FR 10	500 x 1165 x 506/120	350 x 383 x 262/84 ³⁾
	NXP 0385 6 A 0 N 0 SS A	38 5	42 4	32 5	48 8	58 5	35 5	31 5		500 x 1165 x 506/120	350 x 383 x 262/84 ³⁾
	NXP 0416 6 A 0 N 0 SS A*	41 6	45 8	32 5	48 8	58 5	40 0	31 5		500 x 1165 x 506/120	350 x 383 x 262/84 ³⁾
	NXP 0460 6 A 0 N 0 SS A	46 0	50 6	38 5	57 8	69 3	45 0	35 5	FR 11	709 x 1206 x 506/210	497 x 399 x 244/115 4)
	NXP 0502 6 A 0 N 0 SS A	50 2	55 2	46 0	69 0	82 8	50 0	45 0		709 x 1206 x 506/210	497 x 399 x 244/115 4)
	NXP 0590 6 A 0 N 0 SS A*	59 0	64 9	50 2	75 3	90 4	56 0	50 0		709 x 1206 x 506/210	2 x (350 x 383 x 262/ 84)
	NXP 0650 6 A 0 N 0 SS A	65 0	71 5	59 0	88 5	10 62	63 0	56 0		2 x (500 x 1165 x 506 /120)	2 x (350 x 383 x 262/ 84)

	NXP 0750 6 A 0 N 0 SS A	75 0	82 5	65 0	97 5	11 70	71 0	63 0	FR 12	2 x (500 x 1165 x 506 /120)	2 x (350 x 383 x 262/ 84)
525 -69 0 V 50/ 60 Hz 3~	NXP 0820 6 A 0 N 0 SS A*	82 0	90 2	65 0	97 5	11 70	80 0	63 0		2 x (500 x 1165 x 506 /120)	2 x (350 x 383 x 262/ 84)
	NXP 0920 6 A 0 N 0 SS F	92 0	10 12	82 0	12 30	14 10	90 0	80 0	FR 13	2 x (239 x 1030 x 372 /67) +1 x (7 08 x 1030 x 553/302)	2 x (497 x 449 x 249/ 130)
	NXP 1030 6 A 0 N 0 SS F	10 30	11 33	92 0	13 80	17 55	10 00	90 0		2 x (239 x 1030 x 372 /67) +1 x (7 08 x 1030 x 553/302)	2 x (497 x 449 x 249/ 130)
	NXP 1180 6 A 0 N 0 SS F*	11 80	12 98	10 30	14 63	17 55	11 50	10 00		2 x (239 x 1030 x 372 /67) + 1 x (708 x 1030 x 553 /302)	2 x (497 x 449 x 249/ 130)
	NXP 1500 6 A 0 N 0 SS	15 00	16 50	13 00	19 50	23 40	15 00	13 00		3 x (239 x 1030 x 372 /67) +	3 x (497 x 449 x 249/

	F									2 x (708 x 103 x 553/302) ³⁾	130) ³⁾
	NXP 1900 6 A 0 N 0 SS F	19 00	20 90	15 00	22 50	27 00	18 00	15 00	FR 14	4 x(239 x 1030 x 372/67) +2 x (708 x 1030 x 553/302)	4 x (497 x 449 x 249/130)
	NXP 2250 6 A 0 N 0 SS F*	22 50	24 75	19 00	27 82	33 35	20 00	18 00		4 x (239 x 1030 x 372 /67) + 2 x (708 x 1030 x 553 /302)	4 x (497 x 449 x 249/130)

*Max. ambient temperature of +35°C.

1. 12-pulse units, 2 x (354 x 319 x 230/53 kg)
2. 12-pulse units, 4 x (497 x 449 x 249/130 kg)
3. 12-pulse units, 2 x (354 x 319 x 230/53 kg)
4. 12-pulse units, 4 x (239 x 1030 x 372/67) + 2 x (708 x 1030 x 372/302 kg)
5. 12-pulse units, 4 x (497 x 449 x 249/130 kg)



VACON® NXP standalone

Premium VACON® NXP drives are also available in standalone IP21 or IP54 enclosures. These units are delivered in a compact enclosure, making them perfect for areas with limited space, while still providing full VACON® NXP control flexibility.

Robust and reliable

VACON® NXP standalone drives are fully enclosed at the factory and ready for immediate installation. The drive is ideal for pumps, fans and other single drive applications. The drive has integrated fuses as standard and no extra protection components are required. It is also possible to equip the drive with an optional integrated load switch, which further simplifies handling in the field.

Typical applications

- Auxiliary equipment
- Pump and fans
- Main propulsion and bow thrusters
- Compressors
- Cranes and lifts

Features

- Extremely compact cabinet enclosure
- Delivered with ultra rapid AC fuses
- Optional built-in brake chopper and
- DC-link connectors

Benefits

- Maximize the utilization of available space while reducing the overall costs
- No need to consider any additional protection components



Hardware configurations

Function	Availability
IP21	Standard
IP54 (FR10 only)	Optional (H: +20mm)
Integrated ultra rapid fuses	Standard
Load switch (IEC or UL version)	Optional
EMC filtering L (EN 61800-3, category C3)	Standard
EMC filtering T (for IT -networks)	Optional
Brake chopper (cabling top entry)	Optional(H: +122 mm)



Ratings and dimensions

Main voltage	AC drive type	Loadability					Motor shaft power		Frame size	Dimensions and weight W x H x D (mm) / kg	
		Low (+40°C)		High (+40°C)		Maximum current Is [A]	400 V / 690 V				
		Rated continuous current IL [A]	10% overload current [A]	Rated continuous current IH [A]	50% overload current [A]		10% overload P [kW]	50% overload P [kW]			
380-500	NXP 03855A2L0 SSA	385	424	300	450	540	200	160	FR1	595 x 2020 x 602/340	

V 50/ 60 Hz 3~	NXP 046 0 5 A 2 L 0 SSA	46 0	50 6	38 5	57 8	69 3	25 0	20 0	0		
	NXP 052 0 5 A 2 L 0 SSA*	52 0	57 2	46 0	69 0	82 8	25 0	25 0			
	NXP 059 0 5 A 2 L 0 SSA	59 0	64 9	52 0	78 0	93 6	31 5	25 0	F R 1 1	794 x 2 020 x 6 02/470	
	NXP 065 0 5 A 2 L 0 SSA	65 0	71 5	59 0	88 5	10 62	35 5	31 5			
	NXP 073 0 5 A 2 L 0 SSA	73 0	80 3	65 0	97 5	11 70	40 0	35 5			
52 5-6 90 V 50/	NXP 026 1 6 A 2 L 0 SSA	26 1	28 7	20 8	31 2	37 5	25 0	20 0	F R 1 0	595 x 2 020 x 6 02/340	
		32 5	35 8	26 1	39 2	47 0	31 5	25 0			
	NXP 032 5 6 A 2 L 0 SSA	38 5	42 4	32 5	48 8	58 5	35 5	31 5			
	NXP 038 5 6 A 2 L 0 SSA	41 6	45 8	32 5	48 8	58 5	40 0	31 5			
	NXP 041 6 6 A 2 L 0 SSA*										

60 Hz 3~	NXP 046 0 6 A 2 L 0 SSA	46 0	50 6	38 5	57 8	69 3	45 0	35 5	F R 1 1	794 x 2 020 x 6 02/400	
	NXP 050 2 6 A 2 L 0 SSA	50 2	55 2	46 0	69 0	82 8	50 0	45 0		794 x 2 020 x 6 02/400	
	NXP 059 0 6 A 2 L 0 SSA*	59 0	64 9	50 2	75 3	90 4	56 0	50 0		794 x 2 020 x 6 02/470	

*Max. ambient temperature of +35°C.



VACON® NXC

Our VACON® NXC is designed to meet the most demanding requirements for flexibility, robustness, compactness and service-friendliness. It is a safe choice for any application and available in the 160 to 2000 kW power range and 380-500 V, 525-690 V voltage range.

• Exceptional performance

Our enclosed VACON® NXC variable speed AC drives are compact and well tested to meet harsh operating conditions. They are typically put to work in segments, such as mining, oil and gas, water and wastewater. The reliable thermal handling of the enclosure guarantees extended lifetime of the frequency converter and trouble-free operation in tough environments. Approved EMC solutions ensure reliable operation of the converter without disturbing other electrical equipment.



- **User-friendly**

VACON® NXC features an easily accessible control compartment for relays, auxiliary terminals and other equipment and ample space around the power terminals allows for easy installation and connection of power cables. Our handy keypad is located on the door with additional door options including indicators, meters and switches. Bottom plates and earthing claps for 360 degree earthing of motor cables are provided as standard.

- **Service-friendly**

VACON® NXC enclosures are easy to install with lifting lugs for easy handling and can be wall-mounted or free-standing. VACON® NXP power units are rail-mounted for easy pull-out, and the optional pull-out jig enables hassle-free servicing of the power unit. No additional cooling fans are required in the enclosure IP21/IP54 and the fans can be easily replaced without having to remove the power unit.

Typical applications

- Pumps and fans
- Extruders
- Main propulsion and bow thrusters
- Wood handling machines
- Conveyors and crushers
- Feeders and mixers
- Test benches
- Water treatment
- Winches

- Compressors
- Static power supply
- Industrial elevators

Features

- Robust and type-tested design
- Wide range of standard options
- One of the most compact on the market
- Welded Rittal TS8 frame
- EMC approved (EN61800-3, 2nd env.)
- Service concept with pullout jig
- No additional fans in IP54 enclosure

Benefits

- Trouble free installation and operation
- Adapts to your needs w/o engineering
- Easy to fit into small spaces
- Global enclosure availability
- Easy to extend
- Fast service and easy maintenance



Ratings and dimensions

VACON® NXC, 6-pulse supply

		Loadability					Motor shaft power		F r a m e s i z e	Dimens ions an d weig ht W x H x D (mm) / kg	
		Low (+4 0°C)		High (+ 40°C)			400 V / 690 V				
Ma ins vol tag e	AC drive type	Ra te d co nti -n uo us cu rre nt I _L [A]	10 % ov erl oa d cu rre nt [A]	Ra te d co nti -n uo us cu rre nt I _H [A]	50 % ov erl oa d cu rre nt [A]	Ma xi m u m cu rre nt I _S [A]	10 % ov erl oa d P [k W]	50 % ov erl oa d P [k W]			
	NXC 026 1 5 A 2 H 0 SSF	26 1	28 7	20 5	30 8	34 9	13 2	11 0	F R 9	606 x 2 275 x 6 05/371	
	NXC 030 0 5 A 2 H 0 SSF	30 0	33 0	24 5	36 8	44 4	16 0	13 2			
	NXC 038 5 5 A 2 L 0 SSF	38 5	42 4	30 0	45 0	54 0	20 0	16 0	F		

	NXC 046 0 5 A 2 L 0 SSF	46 0	50 6	38 5	57 8	69 3	25 0	20 0	R 1 0	606 x 2 275 x 6 05/403	
	NXC 052 0 5 A 2 L 0 SSF*	52 0	57 2	46 0	69 0	82 8	25 0	25 0			
	NXC 059 0 5 A 2 L 0 SSF	59 0	64 9	52 0	78 0	93 6	31 5	25 0			
38 0-5 00 V	NXC 065 0 5 A 2 L 0 SSF	65 0	71 5	59 0	88 5	10 62	35 5	31 5	F R 1 1	806 x 2 275 x 6 05/577	
	NXC 073 0 5 A 2 L 0 SSF	73 0	80 3	65 0	97 5	11 70	40 0	35 5			
50/ 60 Hz 3~	NXC 082 0 5 A 2 L 0 SSF	82 0	90 2	73 0	10 95	13 14	45 0	40 0	F R 1 2	1206 x 2275 x 605/810	
	NXC 092 0 5 A 2 L 0 SSF	92 0	10 12	82 0	12 30	14 76	50 0	45 0			
	NXC 103 0 5 A 2 L 0 SSF	10 30	11 33	92 0	13 80	16 56	56 0	50 0			

	NXC 115 0 5 A 2 L 0 SSF	11 50	12 65	10 30	15 45	18 54	63 0	56 0		1406 x 2275 x 605/100 0	
	NXC 130 0 5 A 2 L 0 SSF	13 00	14 30	11 50	17 25	20 70	71 0	63 0	F R 1 3	1606 x 2275 x 605/115 0	
	NXC 145 0 5 A 2 L 0 SSF	14 50	15 95	13 00	19 50	23 40	80 0	71 0		1606 x 2275 x 605/115 0	
	NXC 177 0 5 A 2 L 0 SSF	17 70	19 47	16 00	24 00	28 80	10 00	90 0	F R 1 4	2806 x 2275 x 605/244 0	
	NXC 215 0 5 A 2 L 0 SSF	21 50	23 65	19 40	29 10	34 92	12 00	11 00			
	NXC 012 5 6 A 2 L 0 SSF	12 5	13 8	10 0	15 0	20 0	11 0	90	F R 9	606 x 2 275 x 6 05/371	
	NXC 014 4 6 A 2 L 0 SSF	14 4	15 8	12 5	18 8	21 3	13 2	11 0			
	NXC 017 0 6 A 2 L 0 SSF	17 0	18 7	14 4	21 6	24 5	16 0	13 2			

	NXC 020 8 6 A 2 L 0 SSF	20 8	22 9	17 0	25 5	28 9	20 0	16 0			
	NXC 026 1 6 A 2 L 0 SSF	26 1	28 7	20 8	31 2	37 5	25 0	20 0			
	NXC 032 5 6 A 2 L 0 SSF	32 5	35 8	26 1	39 2	47 0	31 5	25 0	F R 1 0	606 x 2 275 x 6 05/371	
	NXC 038 5 6 A 2 L 0 SSF	38 5	42 4	32 5	48 8	58 5	35 5	31 5			
	NXC 041 6 6 A 2 L 0 SSF*	41 6	45 8	32 5	48 8	58 5	40 0	31 5			
52 5-6 90 V 50/ 60 Hz	NXC 046 0 6 A 2 L 0 SSF	46 0	50 6	38 5	57 8	69 3	45 0	35 5	F R 1 1	806 x 2 275 x 6 05/524	
	NXC 050 2 6 A 2 L 0 SSF	50 2	55 2	46 0	69 0	82 8	50 0	45 0			
	NXC 059 0 6 A 2 L 0 SSF*	59 0	64 9	50 2	75 3	90 4	56 0	50 0			806 x 2 275 x 6 05/577
3~	NXC 065 0 6 A 2 L 0 SSF	65 0	71 5	59 0	88 5	10 62	63 0	56 0			

NXC 075 0 6 A 2 L 0 SSF	75 0	82 5	65 0	97 5	11 70	71 0	63 0	F R 1 2	1206 x 2275 x 605/745	
NXC 082 0 6 A 2 L 0 SSF*	82 0	90 2	65 0	97 5	11 70	80 0	63 0			
NXC 092 0 6 A 2 L 0 SSF	92 0	10 12	82 0	12 30	14 10	90 0	80 0	F R 1 3	1406 x 2275 x 605/100 0	
NXC 103 0 6 A 2 L 0 SSF	10 30	11 33	92 0	13 80	17 55	10 00	90 0			
NXC 118 0 6 A 2 L 0 SSF*	11 80	12 98	10 30	14 63	17 55	11 50	10 00			
NXC 150 0 6 A 2 L 0 SSF	15 00	16 50	13 00	19 50	23 40	15 00	13 00	F R 1 4	2406 x 2275 x 605/235 0	
NXC 190 0 6 A 2 L 0 SSF	19 00	20 90	15 00	22 50	27 00	18 00	15 00			
NXC 225 0 6 A 2 L 0 SSF*	22 50	24 75	19 00	27 82	33 35	20 00	18 00			

*Max. ambient temperature of +35°C.

Ratings and dimensions

VACON® NXC, 12 -pulse supply

		Loadability					Motor shaft power				
		Low (+40°C)		High (+40°C)			400 V / 690 V				
Main voltage	AC drive type	Rated continuous current I_L [A]	10% overload current [A]	Rated continuous current I_H [A]	50% overload current [A]	Maximum current I_S [A]	10% overload P [kW]	50% overload P [kW]	Frame size	Dimensions and weight W x H x D (mm)/ kg	
	NXC 038 5.5 A 2 L 0 TSF	38.5	42.4	30.0	45.0	54.0	20.0	16.0		606 x 275 x 605/371	
	NXC 046 0.5 A 2 L 0 TSF	46.0	50.6	38.5	57.8	69.3	25.0	20.0	FR 10	606 x 275 x 605/403	

	NXC 052 0 5 A 2 L 0 TSF*	52 0	57 2	46 0	69 0	82 8	25 0	25 0		606 x 2 275 x 6 05/403	
	NXC 059 0 5 A 2 L 0 TSF	59 0	64 9	52 0	78 0	93 6	31 5	25 0		806 x 2 275 x 6 05/ 577	
	NXC 065 0 5 A 2 L 0 TSF	65 0	71 5	59 0	88 5	10 62	35 5	31 5	F R 1 1	806 x 2 275 x 6 05/577	
38 0-5 00 V	NXC 073 0 5 A 2 L 0 TSF	73 0	80 3	65 0	97 5	11 70	40 0	35 5		806 x 2 275 x 6 05/577	
	NXC 082 0 5 A 2 L 0 TSF	82 0	90 2	73 0	10 95	13 14	45 0	40 0		1206 x 2275 x 605/810	
	NXC 092 0 5 A 2 L 0 TSF	92 0	10 12	82 0	12 30	14 76	50 0	45 0	F R 1 2	1206 x 2275 x 605/810	
	NXC 103 0 5 A 2 L 0 TSF	10 30	11 33	92 0	13 80	16 56	56 0	50 0		1206 x 2275 x 605/810	
	NXC 115 0 5 A 2 L 0 TSF	11 50	12 65	10 30	15 45	18 54	63 0	56 0		1406 x 2275 x 605/100 0	

[illegible]

52 5-6 90 V5 0/6 0 H z3~	NXC 046 0 6 A 2 L 0 TSF	46 0	50 6	38 5	57 8	69 3	45 0	35 5	F R 1 1	806 x 2 275 x 6 05/524	
	NXC 050 2 6 A 2 L 0 TSF	50 2	55 2	46 0	69 0	82 8	50 0	45 0		806 x 2 275 x 6 05/524	
	NXC 059 0 6 A 2 L 0 TSF*	59 0	64 9	50 2	75 3	90 4	56 0	50 0		806 x 2 275 x 6 05/577	
	NXC 065 0 6 A 2 L 0 TSF	65 0	71 5	59 0	88 5	10 62	63 0	56 0	F R 1 2	1206 x 2275 x 605/745	
	NXC 075 0 6 A 2 L 0 TSF	75 0	82 5	65 0	97 5	11 70	71 0	63 0		1206 x 2275 x 605/745	
	NXC 082 0 6 A 2 L 0 TSF*	82 0	90 2	65 0	97 5	11 70	80 0	63 0		1206 x 2275 x 605/745	
	NXC 092 0 6 A 2 L 0 TSF	92 0	10 12	82 0	12 30	14 10	90 0	80 0	F R 1 3	1406 x 2275 x 605/100 0	
	NXC 103 0 6 A 2 L 0 TSF	10 30	11 33	92 0	13 80	17 55	10 00	90 0		1406 x 2275 x 605/100 0	

	NXC 118 0 6 A 2 L 0 TSF*	11 80	12 98	10 30	14 63	17 55	11 50	10 00		1406 x 2275 x 605/100 0	
	NXC 150 0 6 A 2 L 0 TSF	15 00	16 50	13 00	19 50	23 40	15 00	13 00		2806 x 2275 x 605/244 0	
	NXC 190 0 6 A 2 L 0 TSF	19 00	20 90	15 00	22 50	27 00	18 00	15 00	F R 1 4	2806 x 2275 x 605/244 0	
	NXC 225 0 6 A 2 L 0 TSF*	22 50	24 75	19 00	27 82	33 35	20 00	18 00		2806 x 2275 x 605/250 0	

*Max. ambient temperature of +35°C.

Hardware configurations, 6-pulse supply

6- pu lse	Enclos ure	EMC	Br ak e ch op pe r	Cabling	Input device	Output filters
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380-500V	IP21	IP54	L	T	H		Bottom	Top +Cl T/+ CO T	+I F U	+I L S	+I F D	+I C O	+I C B	+O C M/ +O C H	+O DU	+OSI
FR9	S	O (H: +130)	S	O	–	O	S	O (W: +400)	O	O	O	O	O	O	O	O (W: +600)
FR10	S	O (H: +130)	S	O	–	O	S	O (W: +400)	O	O	O	O	O	O	O (W: +400)	O (W: +600)
FR11	S	O (H: +130)*	S	O	–	O	S	O (W: +400)	O	O	O	O	O	O	O (W: +400)	O (W: +600-800)
FR12	S	O (H: +130)	S	O	–	O	S	O (W: +400)	O	O	O	O	O	O	O (W: +400)	O (W: +1200)
FR13	S	O (H: +170)	S	O	–	1	S	O (W: +400)	–	–	S	–	O	O	O	O (W: +800)

FR 14	S	O (H: +170)	S	O	-	1	S	O (W: +600)	-	-	-	-	S	O	S	O (W: +1600)
500-690 V																
FR 9	S	O (H: +130)	S	O	-	O	S	O (W: +400)	O	O	O	O	O	O	O	O (W: +600)
FR 10	S	O (H: +130)	S	O	-	O	S	O (W: +400)	O	O	O	O	O	O	O (W: +400)	O (W: +600)
FR 11	S	O (H: +130)*	S	O	-	O	S	O (W: +400)	O	O	O	O	O	O	O (W: +400)	O (W: +600-800)
FR 12	S	O (H: +130)	S	O	-	O	S	O (W: +400)	O	O	O	O	O	O	O (W: +400)	O (W: +1200)
FR 13	S	O (H: +170)	S	O	-	1	S	O (W: +400)	-	-	S	-	O	O	O	O (W: +800)
FR 14	S	O (H: +170)	S	O	-	1	S	O (W: +600)	-	-	-	-	S	O	S	O (W: +1600)

S = Standard O = Optional

1)(W: +400) = Contact factory*NXC07305 and NXC05906, H: +170 mm

Hardware configurations, 12-pulse supply

12-pulse	Enclosure		EMC			Brake chopper	Cabling		Input device					Output filters		
380-500V	IP21	IP54	L	T	H		Bottom	Top +CLT/+COT	+IFU	+IFLS	+IFD	+IFCO	+IFCB	+OCM/+OCH	+ODU	+OSI
FR10	S	O (H: +130)	S	O	-	-	S	O (W: +400)	O	-	-	-	O	O	O (W: +400)	O (W: +600)
FR11	S	O (H: +130)*	S	O	-	O	S	O (W: +400)	O	O	O	O	O	O	O (W: +400)	O (W: +600)

FR 12	S	O (H: +130)	S	O	–	O	S	O (W: +400)	O	O	O	O	O	O	O (W: +400)	O (W: +1200)
FR 13	S	O (H: +170)	S	O	–	1	S	O (W: +400)	–	–	–	–	S	O	O	O (W: +800)
FR 14	S	O (H: +170)	S	O	–	1	S	O (W: +800)	–	–	–	–	S	O	S	O (W: +1600)

500-690 V

FR 10	S	O (H: +130)	S	O	–	–	S	O (W: +400)	O	–	–	–	O	O	O (W: +400)	O (W: +600)
FR 11	S	O (H: +130)*	S	O	–	O	S	O (W: +400)	O	O	O	O	O	O	O (W: +400)	O (W: +600-800)
FR 12	S	O (H: +130)	S	O	–	O	S	O (W: +400)	O	O	O	O	O	O	O (W: +400)	O (W: +1200)
FR 13	S	O (H: +170)	S	O	–	1	S	O (W: +400)	–	–	–	–	S	O	O	O (W: +800)

S = Standard O = Optional

1)(W: +400) = Contact factory

*NXC07305 and NXC05906, H: +170 mm

Pure performance

Rising energy prices, environmental legislation and process improvement are key issues when designing water handling systems. Use of VACON® AC drives for flow and pressure control instead of dampers or valves gives substantial energy savings resulting in quick ROI.



VACON® NXC Low Harmonic

The VACON® NXC Low Harmonic drive is the perfect choice for applications where low harmonics are required. This drive not only meets the most demanding requirements for clean power but also provides other important benefits such as regenerative braking and voltage boost for maximum output power.

Clean power saves money

The low harmonic cabinet drive offers an excellent total solution to meet even the most demanding power quality requirements. The drive also complies with the IEEE-519, G5/4 harmonic standards. The low THDi reduces supply currents and allows supply transformers, protection devices and power cables to be dimensioned according to the actual active power. It creates savings for both new and retrofit projects as there's no need to invest in expensive 12- or 18-pulse transformers.

Typical applications

- Pumps and fans
- Water treatment
- Thrusters and main propulsion
- Crushers and conveyors and mills
- Industrial elevators
- Test benches
- Sugar refineries

Features

- Clean power with total current harmonics THDi < 5 %
- Over-dimensioning of power transformer or input cables is not required
- Regenerative function available
- Reducing system complexity
- No need for special 12-pulse transformers
- Well-suited for retrofit projects
- Increased flexibility with a wide range of standard options



VACON® NXC LowHarmonic (AF10)

Benefits

- Over-dimensioning of input components is not needed, reducing the total costs
- Voltage boost function for maximum output power
- Braking energy can be fed back to network saving energy costs
- Reduces overall investment costs and optimizes the use of available space



Ratings and dimensions

Main ins vol tag e		Loadability					Motor s haft po wer				
		Low (+4 0°C)		High (+ 40°C)			400 V / 690 V				
		Ra te d co nti -n uo us cu rre nt I _L [A]	10 % ov erl oad cu rre nt [A]	Ra te d co nti -n uo us cu rre nt I _H [A]	50 % ov erl oad cu rre nt [A]	Ma xi m u m cu rre nt I _s [A]	10 % ov erl oad P [kW]	50 % ov erl oad P [kW]			
	Low har monic d rive type NXC 026 1 5 A 2 L 0 RSF	26 1	28 7	20 5	30 8	34 9	13 2	11 0	F r a m e s i z e A F 9	Dimens ions an d weig htW x H x D (mm)/ kg 1006 x 2275 x 605/680	

38 0-5 00 V5 0/6 0 H z	NXC 030 0 5 A 2 L 0 RSF	30 0	33 0	24 5	36 8	44 4	16 0	13 2	A F 1 0	1006 x 2275 x 605/700		
	NXC 038 5 5 A 2 L 0 RSF	38 5	42 4	30 0	45 0	54 0	20 0	16 0				
	NXC 046 0 5 A 2 L 0 RSF	46 0	50 6	38 5	57 8	69 3	25 0	20 0				
	NXC 052 0 5 A 2 L 0 RSF*	52 0	57 2	46 0	69 0	82 8	25 0	25 0				
	NXC 065 0 5 A 2 L 0 RSF	65 0	71 5	59 0	88 5	10 62	35 5	31 5	A F 1 2	2006 x 2275 x 605/140 0		
	NXC 073 0 5 A 2 L 0 RSF	73 0	80 3	65 0	97 5	11 70	40 0	35 5				
	NXC 082 0 5 A 2 L 0 RSF	82 0	90 2	73 0	10 95	13 14	45 0	40 0				
	NXC 092 0 5 A 2 L 0 RSF	92 0	10 12	82 0	12 30	14 76	50 0	45 0				

NXC 103 0 5 A 2 L 0 RSFN	10	11	92	13	16					
XC 1150	30	33	01	80	56	56	50			
5 A 2 L 0	11	12	03	15	18	06	05			
RSFNXC	50	65	01	45	54	30	60	A	2206 x	
1300 5 A	13	14	15	17	20	71	63	F	2275 x	
2 L 0 RS	00	30	01	25	70	08	07	1	605/195	
FNXC 14	14	15	30	19	23	00	10	3	0	
50 5 A 2	50	95	01	50	40	10	90			
L 0 RSF	17	19	60	24	28	00	0			
NXC 177	70	47	0	00	80					
0 5 A 2 L 0 RSF										
NXC 215 0 5 A 2 L 0 RSF	21 50	23 65	19 40	29 10	34 92	12 00	11 00	A F 1 4	4406 x 2275 x 605/390 0	
NXC 270 0 5 A 2 L 0 RSFN										
XC 0125	27	29	23	32	39	15	12			
6 A 2 L 0	00	70	00	78	33	00	00			
RSFNXC	12	13	10	15	20	11	90			
0144 6 A	51	81	01	01	02	01	11	A	1006 x	

	2 L 0 RS FNXC 01 70 6 A 2 L 0 RSF NXC 020 8 6 A 2 L 0 RSF*	44 17 02 08	58 18 72 29	25 14 41 70	88 21 62 55	13 24 52 89	32 16 02 00	01 32 16 0	F 9	2275 x 605/680	
	NXC 026 1 6 A 2 L 0 RSF	26 1	28 7	20 8	31 2	37 5	25 0	20 0	A F 1 0	1006 x 2275 x 605/700	
	NXC 032 5 6 A 2 L 0 RSF	32 5	35 8	26 1	39 2	47 0	31 5	25 0			
	NXC 038 5 6 A 2 L 0 RSF	38 5	42 4	32 5	48 8	58 5	35 5	31 5			

52 5-6 90 V5 0/6 0 H z	NXC 041 6 6 A 2 L 0 RSF*N XC 0460 6 A 2 L 0 RSFNXC 0502 6 A 2 L 0 RS FNXC 05 90 6 A 2 L 0 RSF NXC 065 0 6 A 2 L 0 RSFN XC 0750 6 A 2 L 0 RSFNXC 0820 6 A 2 L 0 RS F*	41 64 60 50 25 90 65 07 50 82 0	41 65 06 55 26 49 71 58 25 90 2	32 53 85 46 05 02 59 06 50 65 0	48 85 78 69 07 53 88 59 75 97 5	58 56 93 82 89 04 10 62 11 70 11 70	40 31 04 53 50 55 45 05 05 60 63 56 07 10 30 75 65 0	A F 1 2	2006 x 2275 x 605/140 0		
	NXC 092 0 6 A 2 L 0 RSF	92 0	10 12	82 0	12 30	14 76	90 0	80 0	A F 1 3	2206 x 2275 x 605/195 0	
	NXC 103 0 6 A 2 L 0 RSF	10 30	11 33	92 0	13 80	16 56	10 00	90 0			
	NXC 118 0 6 A 2 L 0 RSF*	11 80	12 98	10 30	14 63	17 55	11 50	10 00			

NXC 150 0 6 A 2 L 0 RSF	15 00	16 50	13 00	19 50	23 40	15 00	13 00	A F 1 4	4406 x 2275 x 605/390 0	
NXC 190 0 6 A 2 L 0 RSF	19 00	20 90	15 00	22 50	27 00	18 00	15 00			
NXC 225 0 6 A 2 L 0 RSF*	22 50	24 75	19 00	27 82	33 35	20 00	18 00			

*Max. ambient temperature of +35°C.

Hardware configurations

Active front-end	Enclosure		EMC		Brake chopper	Cabling		Input device	Output filters		
	IP21	IP54	L	T			Bottom		Top+CIT/+COT	+ILS & +ICB	+OCM/+OCH
AF9	S	O (H: +130)	S	O	* (W: +400)	S	O (W: +400)	S	O	O (W: +400)	O (W: +600)
AF10	S	O (H: +130)	S	O	* (W: +400)	S	O (W: +400)	S	O	O (W: +400)	O (W: +600)
AF12	S	O (H: +130)	S	O	* (W: +400)	S	O (W: +400)	S	O	O (W: +400)	O (W: +1200)
AF13	S	O (H: +170)	S	O	* (W: +400)	S	O (W: +400)	S	O	O	O (W: +800)

AF1 4	S	O (H: +170)	S	O	* (W: +400)	S	O (W: +600)	S	O	S	O (W: +1600)
525-690 V											
AF9	S	O (H: +130)	S	O	* (W: +400)	S	O (W: +400)	S	O	O (W: +400)	O (W: +600)
AF1 0	S	O (H: +130)	S	O	* (W: +400)	S	O (W: +400)	S	O	O (W: +400)	O (W: +600)
AF1 2	S	O (H: +130)	S	O	* (W: +400)	S	O (W: +400)	S	O	O (W: +400)	O (W: +1200)
AF1 3	S	O (H: +170)	S	O	* z(W : +40 0)	S	O (W: +400)	S	O	O	O (W: +800)
AF1 4	S	O (H: +170)	S	O	* (W: +400)	S	O (W: +600)	S	O	S	O (W: +1600)

S = Standard O = Optional *Contact factory

Technical data

Mains connection	Input voltage U_n	208...240 V; 380...500 V; 525...690 V; -10%...+10%
	Input frequency	45...66 Hz
	Connection to mains	Once per minute or less (normal case)
Motor connection	Output voltage	$0 - U_n$
	Continuous output current	High overloadability: I_H , ambient temperature max. +50 °C ($\geq FR10 + 40$ °C) Low overloadability: I_L , ambient temperature max. +40 °C
	Overloadability	High: 1.5 x I_H (1 min/10 min), Low: 1.1 x I_L (1 min/10 min)
	Max. starting current	Is for 2 s every 20 s
	Output frequency	0...320 Hz
Control characteristics	Control performance	Open loop vector control (5-150% of base speed): speed control 0.5%, dynamic 0.3%/sec, torque lin. <2%, torque rise time ~5 ms Closed loop vector control (entire speed range): speed control 0.01%, dynamic 0.2% sec, torque lin. <2%, torque rise time ~2 ms
	Switching frequency	NX_2/ NX_5: Up to and including NX_0061: 1...16 kHz; Factory default 10 kHz NX_6: From NX_0072: 1...6 kHz; Factory default 3.6 kHz 1...6 kHz; Factory default 1.5 kHz
	Field weakening point	8...320 Hz
	Acceleration time	0...3000 sec
	Deceleration time	0...3000 sec
	Braking	DC brake: 30% of TN (without brake resistor), flux braking
	Ambient operating temperature	-10 °C (no frost)...+50 °C: I_H ($\geq FR10 + 40$ °C) -10 °C (no frost)...+40 °C: I_L
	Storage temperature	-40 °C...+70 °C
	Relative humidity	0 to 95% RH, non-condensing, non-corrosive, no dripping water
	Air quality: - chemical vapours - mechanical particles	IEC 60721-3-3, unit in operation, class 3C2 (tested in accordance with IEC60068-2-60, Method 1 C CH ₂ and SO ₂) IEC 60721-3-3, unit in operation, class 3S2
Ambient conditions	Altitude	100% load capacity (no derating) up to 1000 m 1% derating for each 100 m above 1000 m; max. 3000 m (690 V max. 2000 m)
	Vibration EN 50178/EN 60068-2-6	5...150 Hz: Displacement amplitude 1 mm (peak) at 5...15.8 Hz ($\geq FR10$: 0.25 mm (peak) at 5...31 Hz) Max acceleration amplitude 1 G at 15.8...150 Hz ($\geq FR10$: 1 G at 31...150 Hz)
	Shock EN 50178, EN 60068-2-27	UPS Drop Test (for applicable UPS weights) Storage and shipping: max 15 G, 11 ms (in package)
	Immunity	Fulfils all EMC immunity requirements
	Emissions	EMC level C: EN 61800-3, category C1 EMC level H: EN 61800-3, category C2 EMC level L: EN 61800-3, category C3 EMC level T: Low earth-current solution is suitable for IT networks, (can be modified from L/H-level units)
EMC		
Safety		EN 50178, EN 60204-1, IEC 61800-5-1, CE, UL, CUL; (see unit nameplate for more details)
Functional safety *	STO	EN/IEC 61800-5-2 Safe Torque Off (STO) SIL2, EN ISO 13849-1 PL'd Category 3, EN 62061: SILCL2, IEC 61508: SIL2
	SS1	EN/IEC 61800-5-2 Safe Stop 1 (SS1) SIL2, EN ISO 13849-1 PL'd Category 3, EN/IEC62061: SILCL2, IEC 61508: SIL2.
	ATEX Thermistor input	94/9/EC, CE 0537 Ex 11 (2) GD
	Advance safety option	STO (+SBC), SS1, SS2, SOS, SLS, SMS, SSM, SSR
Control connections (OPT-A1, -A2 or OPT-A1, -A3)	Analogue input voltage	0...+10 V (-10 V...+10 V joystick control), $R_i = 200$ k Ω , resolution 0.1%, accuracy $\pm 1\%$
	Analogue input current	0(4)...20 mA, $R_i = 250$ Ω differential, resolution 0.1%, accuracy $\pm 1\%$
	Digital inputs	6, positive or negative logic; 18...30 VDC
	Auxiliary voltage	+24 V, $\pm 15\%$, max. 250 mA
	Output reference voltage	+10 V, +3%, max. load 10 mA
	Analogue output	0 (4)...20 mA; R_L max. 500 Ω , resolution 10 bit, accuracy $\pm 2\%$
	Digital output	Open collector output, 50 mA/48 V
	Relay outputs	2 programmable change-over (NO/NC) relay outputs (OPT-A3: NO/NC+NO) Switching capacity: 24 VDC/8 A, 250 VAC/8 A, 125 VDC/0.4 A. Min. switching load: 5 V/10 mA
Protections	Thermistor input (OPT-A3)	Galvanically isolated, $R_{trip} = 4.7$ k Ω
		Overvoltage, undervoltage, earth fault, mains supervision, motor phase supervision, overcurrent, unit overtemperature, motor overload, motor stall, motor underload, short-circuit of +24 V and +10 V reference voltages

Option boards

Type	Description	Card slot					I / O signal																
		A	B	C	D	E	DI	DO	DIDO	AI (mA / V \pm V)	AI (mA) isolated	AO (mA / V)	AO (mA) isolated	RO (NO / NC)	RO (NO)	+ 10 V ref	Therm	+ 24 V / EXT + 24 V	pt 100	KTY 84	42 - 240 V AC input		
Basic I/O cards (OPTA)																							

O P T A 1	D I/ D O /A I/ A O / 1 0 V/ 2 4 V																			
					6	1		2		1					1		2			
O P T A 2	R el a y o ut p ut (N O / N C)											2								

O P T A 3	R e l a y o u t + T h e r m i s t o r i n p u t																	
	E n c o d e r T T L t y p e			2							1	1		1				

O P T A 5		E n c o d e r H T L t y p e
O P T A 7		D o u b l e e n c o d e r H T L t y p e
“ O P		

[illegible]

	u p”																			
OPTA 1 + 2, 5 mm 2 connectors	OPTA 9					6	1		2		1				1		2			

[illegible]

O P T A F	S T O , A T E X t h e r m
	2
	1
	1
	1

O P T A N	D I/ AI /A O					6		2		2										
-----------------------	--------------------------	--	--	--	--	---	--	---	--	---	--	--	--	--	--	--	--	--	--	--

I/O expander cards (OPTB)

O P T B 1	P ro gr a m m a bl e I/ O							6									1			
-----------------------	---	--	--	--	--	--	--	---	--	--	--	--	--	--	--	--	---	--	--	--

O P T B 2	R e l a y o u t p u t + T h e r m i s t o r i n p u t																	
	“A n a l o g i n p u t /o u t p u t A n									1	1		1					

OPTB 4

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[illegible]

[illegible]

[illegible]

O P T B L + H T L/ T T L e n c o d er
4
2
1

O P T E 2	R S 4 8 5 w i t h s c r e w t e r m i n a l								
								RS485 with screw terminal	

OPT E 3	PROFIBUS DP with screw terminal
---------	---------------------------------

OPT E 3	PROFIBUS DP with screw terminal
---------	---------------------------------

PROFIBUS DP with screw terminal

O P T E 5	P R O F I B U S D P w i t h D 9- c o n n e c t o r						PROFIBUS DP with D9-connector
	C A N o p e n						CANopen

O P T E 7	D e v i c e N e t						DeviceNet
O P T E 8	R S 4 8 5 w i t h D 9- c o n n e c t o r						RS485 with D9-connector

O P T E 9	D u a l -p o r t E t h e r n e t						Dual-port Ethernet
O P T E A	A d v a n c e d D u a l -p o r t E t h e r n e t						Advanced Dual-port Ethernet

OPTC2	RS485 with screw terminal
-------	---------------------------

OPTC2	RS485 with screw terminal
-------	---------------------------

RS485 with screw terminal

O P T C 3	P R O F I B U S D P w i t h s c r e w t e r m i n a l						PROFIBUS DP with screw terminal
	L o n W o r k s						LonWorks

OP TC 5	PROFIBUS DP with D9-connector
OP TC 6	CANopen

O P T C 7	D e v i c e N e t						DeviceNet
O P T C 8	R S 4 8 5 w i t h D 9- c o n n e c t o r						RS485 with D9-connector

O P T I C I	M o d b u s/ T C P							Modbus TCP
O P T C J	B A C n et M S/ T P							BACnet MS/TP
O P T C P	P R O F I N E T I O							PROFINET IO

O P T C Q	Et h er N et /I P						EtherNet/IP
-----------------------	-------------------------------------	--	--	--	--	--	-------------

Communication cards (OPTD)

O P T - D 1	S y s t e m B u s a d a p t , 2 x f i b e r - o p t i c						System Bus adapter (2 x fiber optic pairs)
----------------------------	--	--	--	--	--	--	--

[illegible]

O P T - D 3	R S 2 3 2 a d a p t e r (n o g a l v. i s o l .)					RS232 adapter card (galvanically decoupled), used mainly for connect another keypad

O P T - D 6	C A N - B u s (g a l v. d e c o u p l e d)					CAN-bus adapter (galvanically decoupled)

O P T - D 7	Line voltage measurement						

*) OPTE series fieldbus cards provide most recent features on market and they are recommended for new installation

1. Analogue signals galvanically isolated as a group
2. Analogue signals galvanically isolated separately

VACON® NXC options

Control terminal options (T group)	
+TIO	Basic I/O wired to external single-tier terminals
+TID	Basic I/O wired to external two-tier terminals + additional terminals

+TUP*	Terminals for 230 VAC control voltage
Input device options (I group)	
+ILS*	Load switch
+IFD	Switch fuse and fuses
+ICB*	Circuit breaker
+ICO	Input contactor
+IFU	Input fuses
Main circuit options (M group)	
+MDC	Terminals in cabinet for DC / brake chopper
Output filter options (O group)	
+OCM	Common mode filters
+OCH	Common mode filters with output terminals
+ODU	du/dt filter
+OSI	Sine wave filter
Protection devices (P group)	
+PTR	External thermistor relay
+PES	Emergency stop (cat 0)
+PED	Emergency stop (cat 1)
+PAP	Arc protection
+PIF	Insulation fault sensor
General options	

+G40	400 mm empty cabinet
+G60	600 mm empty cabinet
+G80	800 mm empty cabinet
+GPL	100 mm base
+GPH	200 mm base
+FAT	Factory acceptance tests
+MAR	Marine construction
+SWP	Seaworthy packing

Cabling options (C group)	
+CIT	Input (mains) cabling from top
+COT	Output (motor) cabling from top
Auxiliary equipment (A group)	
+AMF	Motor fan control
+AMH	Motor heater feeder
+AMB	Mechanical brake control
+AMO*	Motor operator for +ICB
+ACH	Cabinet heater
+ACL	Cabinet light
+ACR	Control relay
+AAI	Analogue signal isolator

+AAA	Auxiliary contact (control voltage devices)
+AAC	Auxiliary contact (input device)
+AT1	Auxiliary voltage transformer 200 VA
+AT2*	Auxiliary voltage transformer 750 VA
+AT3	Auxiliary voltage transformer 2500 VA
+AT4	Auxiliary voltage transformer 4000 VA
+ADC*	Power supply 24 VDC 2.5 A
+ACS	230 VAC customer socket
Door-mounted options (D group)	
+DLV	Pilot light (Control voltage on)
+DLD	Pilot light (DO1)
+DLF	Pilot light (FLT)
+DLR	Pilot light (RUN)
+DCO*	Main contactor operation switch
+DRO*	Local / Remote operation switch
+DEP	Emergency stop push-button
+DRP	Reset push-button
+DAM	Analogue meter (AO1)
+DAR	Potentiometer for reference
+DCM	Analogue meter & current transformer
+DVM	Analogue voltage meter with selection switch

EMC selection table

VACON® NXP EMC	 Hospital	 Residential Area	 Commercial	 Light Industry Area	 Heavy Industry	 Marine
C (Category C1)	O					
H (Category C2)	R	R	R	O	O	
L (Category C3)				R	R	
T (Category C4)					R (IT)	R (IT)

The product family standard

EN 61800-3 sets limits for both emissions and immunity to radio frequency disturbances. The environment has been divided into the first and second environments; in practice, public and industrial networks, respectively. Radio Frequency Interference (RFI) filters are typically required to meet the EN 61800-3 standard. These filters are integrated in the VACON® NXP as standard. The 208-240 V and 380 500 V ranges of the VACON® NXP (FR4-FR9) meet the requirements of the first and second environments (H level: EN 61800-3 (2004), category C2). No additional RFI filters or cabinets are required. The FR10-FR14 and the 500-690 V ranges of the VACON® NXP meet the requirements of the second environment (L-level: EN 61800-3(2004), category C3). The units in the frame sizes FR4, FR5 and FR6 (with a voltage range from 380 to 500 V) are also available with extremely low-emission integrated EMC filters (C level: EN 61800-3 (2004), category C1). This is sometimes required in very sensitive locations, such as hospitals.

Type code key

NXC 0520 5 A 2 L O S S F A1 A2 00 00 00 + IFD

- NXC Product Range
- NXP = Wall-mounted / standalone / module
- NXC = Cabinet
- 0520 Nominal current voltage

- 0520 = 520 A
- 5 Nominal mains voltage
- 2 = 208-240 V
- 5 = 380-500 V
- 6 = 525-690 V
- A Control keypad
- A = Standard alphanumeric
- B = No local keypad
- F = Dummy keypad
- G = Graphic display
- 2 Enclosure class
- 5 = IP54, FR4-10; NXC FR9-FR14; AF9-14
- 2 = IP21, FR4-11; NXC FR9-FR14; AF9-14
- 0 = IP00, NXP FR10-14
- L EMC emission levels
- C = Category C1, EN 61800-3
- H = Category C2, EN 61800-3
- L = Category C3, EN 61800-3
- T = For IT networks
- N = Enclosure required (FR10-FR14) 0 Brake chopper 0 = No brake chopper 1 = Integrated brake chopper S Supply S = 6-pulse
- T = 12-pulse
- O = 6-pulse + load switch (standalone)
- R = Low Harmonic S Cooling
- S = standard air-cooled
- T = through-hole mounting FR4-FR9
- F Control
- S = Standard FR4-FR8
- F = Standard FR9 and NXC
- A = Standard NXP FR10-FR12
- N = Standard IP00 FR10 & NXC with IP54 control unit enclosure
- V = As S, but varnished
- G = As F, but varnished boards
- O = As N, but varnished boards

- B = As A, but varnished boards
- A1 Option boards; each slot is represented by two characters:
- Ax = Basic I/O boards,
- Bx = Expander I/O boards
- Cx = Fieldbus boards,
- Dx = Special boards A2 00 00 00 + IFD NXC options, see tables page 22

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Delivering a customized service experience! We understand that every application is different. Having the ability to build a customized service package to suit your specific needs is essential. DrivePro® Life Cycle Services is a collection of tailor-made products designed around you. Each one engineered to support your business through the different stages of your AC drive's life cycle. From optimized spare-part packages to condition-monitoring solutions, our products can be customized to help you achieve your business goals. With the help of these products, we add value to your application by ensuring you get the most out of your AC drive. When you deal with us, we also offer you access to training, as well as the application knowledge to help you in planning and preparation. Our experts are at your service.



DrivePro® Life Cycle services
Delivering a customized service experience!

We understand that every application is different. Having the ability to build a customized service package to suit your specific needs is essential.

DrivePro® Life Cycle Services is a collection of tailor-made products designed around you. Each one engineered to support your business through the different stages of your AC drive's life cycle.

From optimized spare-part packages to condition-monitoring solutions, our products can be customized to help you achieve your business goals.

With the help of these products, we add value to your application by ensuring you get the most out of your AC drive.

When you deal with us, we also offer you access to training, as well as the application knowledge to help you in planning and preparation. Our experts are at your service.

ACTIVE
NEW
LIMITED
INACTIVE

3-4 Danfoss Drives - DRD0PB05A2.02

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with DrivePro® Life Cycle service products



DrivePro® Retrofit

Minimize the impact and
maximize the benefit

Manage the end of product lifecycle efficiently, with professional help to replace your legacy drives.

The DrivePro® Retrofit service ensures optimal uptime and productivity during the smooth replacement process.



DrivePro® Spare Parts

Plan ahead with your spare part package

In critical situations, you want no delays. With DrivePro® Spare Parts you always have the right parts on hand, on time. Keep your drives running at top efficiency, and optimize system performance.



DrivePro® Extended Warranty

Long-term peace of mind

Get the longest coverage available in the industry, for peace of mind, a strong business case and a stable, reliable budget. You know the annual cost of maintaining your drives, up to six years in advance.



DrivePro® Exchange

The fast, most cost-efficient alternative to repair

You obtain the fastest, most cost-efficient alternative to repair, when time is critical. You

increase uptime, thanks to quick and correct replacement of the drive.



DrivePro® Upgrade

Maximize your AC drive investment

Use an expert to replace parts or software in a running unit, so your drive is always up-to-date. You receive an on-site evaluation, an upgrade plan and recommendations for future improvements.



DrivePro® Start-up

Fine-tune your drive for optimal performance today

Save on installation and commissioning time and cost. Get help from professional drives experts during start-up, to optimize drives safety, availability and performance.



DrivePro® Preventive Maintenance

Take preventive action

You receive a maintenance plan and budget, based on an audit of the installation. Then our experts perform the maintenance tasks for you, according to the defined plan.



DrivePro® Remote Expert Support

You can rely on us every step of the way

DrivePro® Remote Expert Support offers speedy resolution of on-site issues thanks to timely access to accurate information. With the secure connection, our drives experts analyze issues remotely reducing the time and cost involved in unnecessary service visits.



DrivePro® Remote Monitoring

Fast resolution of issues DrivePro® Remote Monitoring offers you a system that provides online information available for monitoring in real time. It collects all the relevant data and analyzes it so that you can resolve issues before they affect your processes.

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Quick, simple, reliable. Giving you complete control.



From supplying individual drive components to planning and delivering complete drive

systems; our experts are ready to support you all the way.

We draw on decades of experience within industries that include:

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- Cranes and Hoists
- Food and Beverage
- HVAC
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- Material Handling
- Mining and Minerals
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- Refrigeration
- Water and Wastewater
- Wind

You will find it easy to do business with us. Online, and locally in more than 50 countries, our experts are never far away, reacting fast when you need them. Since 1968, we have been pioneers

in the drives business. In 2014, Vacon and Danfoss merged, forming one of the largest companies in the industry. Our AC drives can adapt to any motor technology and we supply products in a power range from 0.18 kW to 5.3 MW.

Frequently Asked Questions

• Q: What industries can benefit from this product?


A: This product is ideal for industries such as mining, compressors, marine, cranes, metals, chemical, water treatment, oil & gas, pulp & paper, cement, and general process industries.

• Q: How can I access support for this product?

A: Danfoss Drives provides global service solutions available 24/7 to assist original

equipment manufacturers (OEMs), system integrators, distributors, and end users throughout the product lifecycle.

Documents / Resources

	<p>Danfoss VACON NXP and VACON NXC AC Drives [pdf] User Guide 0.55 kW, 2 MW, VACON NXP and VACON NXC AC Drives, and VACON NXC AC Drives, NXC AC Drives, AC Drives</p>
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References

- [User Manual](#)

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Lifting Instructions 1.1 Safety...



[Danfoss VACON 20 X AC Drives User Guide](#)

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[Danfoss ECL Comfort 110 AC Drives and Controls Installation Guide](#)

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