



VACON NXP AND NXC SUPERLATIVE PERFORMANCE

VACON
DRIVEN BY DRIVES

THE DYNAMIC CHOICE

The Vacon NXP is a state-of-art AC drive for use in all applications where reliability, dynamic performance, precision and power are required.

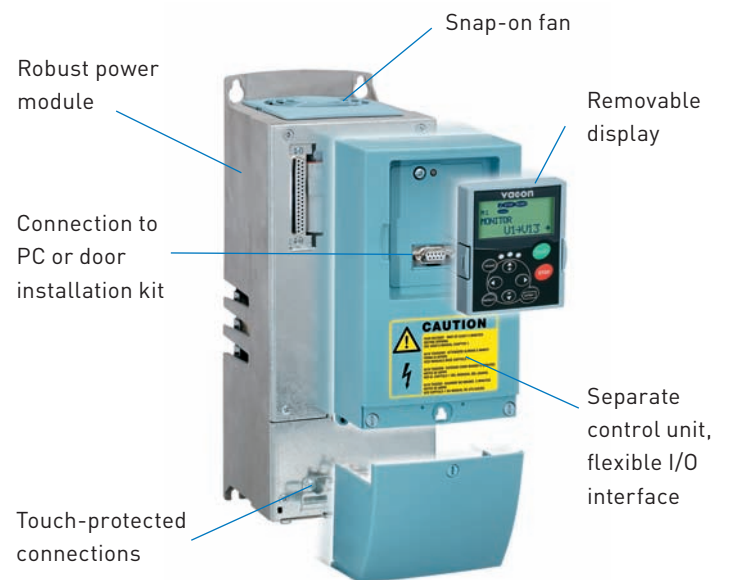
The quality and reliability of a machine or process is in most cases the result of the precise, dynamic control of AC motors. The Vacon NXP has been designed to provide the best possible control under all circumstances, ensuring high operational quality and availability for the entire lifetime of a system.

A forerunner in designing and manufacturing AC drives, Vacon has developed innovative solutions and leading-edge technology for demanding applications and high power ranges.

By bringing these solutions to customers, the Vacon NXP opens up new opportunities and helps them create the best and highly innovative products and achieve the most challenging targets.

Features

- Full power and voltage range
- High number of options
- Wide set of applications adapts the Vacon NXP to virtually any need
- Controls induction and permanent magnet motors
- Dynamic open and closed loop vector control
- Complete range of communications and I/O options
- Fast drive-to-drive communication



FR4—FR9



OUTSTANDING FLEXIBILITY

The Vacon NXP offers, in addition to its control characteristics, a wide choice of products and cabinets for the varying needs in the high-power range.

Three models are available to meet various customer needs as follows:

- Vacon NXP IP21/IP54 wall-mounted or standalone drives for installation wherever there is space available
- Vacon NXP high-power IP00 drive modules for installation in the customer's cabinet
- Vacon NXC robust cabinet drive with maximum flexibility and a wide range of options



**VACON NXP
DRIVE MODULES**



**VACON NXP
STANDALONE DRIVES**



**VACON NXC
CABINET DRIVES**

WALL-MOUNTED VACON NXP

For the lower power range, Vacon NXP drives are available in a compact IP21 or IP54 enclosure. One of the most compact and complete drives on the market, it has all necessary components integrated a single enclosure.

The 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 option.

Mains voltage 208—240 V, 50/60 Hz, 3~

AC drive type	Loadability					Motor shaft power		Frame size	Dimensions and weight W*H*D (mm)/ kg
	Low (+40°C)		High (+50°C)		Maximum current I _s	230 V supply			
	Rated continuous current I _L (A)	10% overload current (A)	Rated continuous current I _H (A)	50% overload current (A)		10% overload P (kW)	50% overload P (kW)		
NXP 0003 2 A 2 H 1 SSS	3.7	4.1	2.4	3.6	4.8	0.55	0.37	FR4	128*292*190/ 5
NXP 0004 2 A 2 H 1 SSS	4.8	5.3	3.7	5.6	7.4	0.75	0.55	FR4	128*292*190/ 5
NXP 0007 2 A 2 H 1 SSS	6.6	7.3	4.8	7.2	9.6	1.1	0.75	FR4	128*292*190/ 5
NXP 0008 2 A 2 H 1 SSS	7.8	8.6	6.6	9.9	13.2	1.5	1.1	FR4	128*292*190/ 5
NXP 0011 2 A 2 H 1 SSS	11	12.1	7.8	11.7	15.6	2.2	1.5	FR4	128*292*190/ 5
NXP 0012 2 A 2 H 1 SSS	12.5	13.8	11	16.5	22	3	2.2	FR4	128*292*190/ 5
NXP 0017 2 A 2 H 1 SSS	17.5	19.3	12.5	18.8	25	4	3	FR5	144*391*214/ 8.1
NXP 0025 2 A 2 H 1 SSS	25	27.5	17.5	26.3	35	5.5	4	FR5	144*391*214/ 8.1
NXP 0031 2 A 2 H 1 SSS	31	34.1	25	37.5	50	7.5	5.5	FR5	144*391*214/ 8.1
NXP 0048 2 A 2 H 1 SSS	48	52.8	31	46.5	62	11	7.5	FR6	195*519*237/ 18.5
NXP 0061 2 A 2 H 1 SSS	61	67.1	48	72	96	15	11	FR6	195*519*237/ 18.5
NXP 0075 2 A 2 H 0 SSS	75	83	61	92	122	22	15	FR7	237*591*257/ 35
NXP 0088 2 A 2 H 0 SSS	88	97	75	113	150	22	22	FR7	237*591*257/ 35
NXP 0114 2 A 2 H 0 SSS	114	125	88	132	176	30	22	FR7	237*591*257/ 35
NXP 0140 2 A 2 H 0 SSS	140	154	105	158	210	37	30	FR8	291*758*344 / 58
NXP 0170 2 A 2 H 0 SSS	170	187	140	210	280	45	37	FR8	291*758*344 / 58
NXP 0205 2 A 2 H 0 SSS	205	226	170	255	336	55	45	FR8	291*758*344 / 58
NXP 0261 2 A 2 H 0 SSF	261	287	205	308	349	75	55	FR9	480*1150*362/ 146
NXP 0300 2 A 2 H 0 SSF	300	330	245	368	444	90	75	FR9	480*1150*362/ 146

Mains voltage 380—500 V, 50/60 Hz, 3~

AC drive type	Loadability					Motor shaft power		Frame size	Dimensions and weight W*H*D (mm)/ kg
	Low (+40°C)		High (+50°C)		Maximum current I _s	400 V supply			
	Rated continuous current I _L (A)	10% overload current (A)	Rated continuous current I _H (A)	50% overload current (A)		10% overload P (kW)	50% overload P (kW)		
NXP 0003 5 A 2 H 1 SSS	3.3	3.6	2.2	3.3	4.4	1.1	0.75	FR4	128*292*190/ 5
NXP 0004 5 A 2 H 1 SSS	4.3	4.7	3.3	5	6.2	1.5	1.1	FR4	128*292*190/ 5
NXP 0005 5 A 2 H 1 SSS	5.6	6.2	4.3	6.5	8.6	2.2	1.5	FR4	128*292*190/ 5
NXP 0007 5 A 2 H 1 SSS	7.6	8.4	5.6	8.4	10.8	3	2.2	FR4	128*292*190/ 5
NXP 0009 5 A 2 H 1 SSS	9	9.9	7.6	11.4	14	4	3	FR4	128*292*190/ 5
NXP 0012 5 A 2 H 1 SSS	12	13.2	9	13.5	18	5.5	4	FR4	128*292*190/ 5
NXP 0016 5 A 2 H 1 SSS	16	17.6	12	18	24	7.5	5.5	FR5	144*391*214/ 8.1
NXP 0022 5 A 2 H 1 SSS	23	25.3	16	24	32	11	7.5	FR5	144*391*214/ 8.1
NXP 0031 5 A 2 H 1 SSS	31	34	23	35	46	15	11	FR5	144*391*214/ 8.1
NXP 0038 5 A 2 H 1 SSS	38	42	31	47	62	18.5	15	FR6	195*519*237/ 18.5
NXP 0045 5 A 2 H 1 SSS	46	51	38	57	76	22	18.5	FR6	195*519*237/ 18.5
NXP 0061 5 A 2 H 1 SSS	61	67	46	69	92	30	22	FR6	195*519*237/ 18.5
NXP 0072 5 A 2 H 0 SSS	72	79	61	92	122	37	30	FR7	237*591*257/ 35
NXP 0087 5 A 2 H 0 SSS	87	96	72	108	144	45	37	FR7	237*591*257/ 35
NXP 0105 5 A 2 H 0 SSS	105	116	87	131	174	55	45	FR7	237*591*257/ 35
NXP 0140 5 A 2 H 0 SSS	140	154	105	158	210	75	55	FR8	291*758*344 / 58
NXP 0168 5 A 2 H 0 SSS	170	187	140	210	280	90	75	FR8	291*758*344 / 58
NXP 0205 5 A 2 H 0 SSS	205	226	170	255	336	110	90	FR8	291*758*344 / 58
NXP 0261 5 A 2 H 0 SSF	261	287	205	308	349	132	110	FR9	480*1150*362/ 146
NXP 0300 5 A 2 H 0 SSF	300	330	245	368	444	160	132	FR9	480*1150*362/ 146

WALL-MOUNTED VACON NXP

Mains voltage 500—690 V, 50/60 Hz, 3~

AC drive type	Loadability					Motor shaft power		Frame size	Dimensions and weight W*H*D (mm)/ kg	
	Low (+40°C)		High (+50°C)		Maximum current I _S	690 V supply				
	Rated continuous current I _L (A)	10% overload current (A)	Rated continuous current I _H (A)	50% overload current (A)		10% overload P (kW)	50% overload P (kW)			
NXP 0004	6 A 2 L 0 SSS	4.5	5	3.2	4.8	6.4	3	2.2	FR6	195*519*237/ 18.5
NXP 0005	6 A 2 L 0 SSS	5.5	6.1	4.5	6.8	9.0	4	3	FR6	195*519*237/ 18.5
NXP 0007	6 A 2 L 0 SSS	7.5	8.3	5.5	8.3	11	5.5	4	FR6	195*519*237/ 18.5
NXP 0010	6 A 2 L 0 SSS	10	11	7.5	11.3	15	7.5	5.5	FR6	195*519*237/ 18.5
NXP 0013	6 A 2 L 0 SSS	13.5	14.9	10	15	20	11	7.5	FR6	195*519*237/ 18.5
NXP 0018	6 A 2 L 0 SSS	18	19.8	13.5	20.3	27	15	11	FR6	195*519*237/ 18.5
NXP 0022	6 A 2 L 0 SSS	22	24.2	18	27	36	18.5	15	FR6	195*519*237/ 18.5
NXP 0027	6 A 2 L 0 SSS	27	29.7	22	33	44	22	18.5	FR6	195*519*237/ 18.5
NXP 0034	6 A 2 L 0 SSS	34	37	27	41	54	30	22	FR6	195*519*237/ 18.5
NXP 0041	6 A 2 L 0 SSS	41	45	34	51	68	37.5	30	FR7	237*591*257/ 35
NXP 0052	6 A 2 L 0 SSS	52	57	41	62	82	45	37.5	FR7	237*591*257/ 35
NXP 0062	6 A 2 L 0 SSS	62	68	52	78	104	55	45	FR8	291*758*344 / 58
NXP 0080	6 A 2 L 0 SSS	80	88	62	93	124	75	55	FR8	291*758*344 / 58
NXP 0100	6 A 2 L 0 SSS	100	110	80	120	160	90	75	FR8	291*758*344 / 58
NXP 0125	6 A 2 L 0 SSF	125	138	100	150	200	110	90	FR9	480*1150*362/ 146
NXP 0144	6 A 2 L 0 SSF	144	158	125	188	213	132	110	FR9	480*1150*362/ 146
NXP 0170	6 A 2 L 0 SSF	170	187	144	216	245	160	132	FR9	480*1150*362/ 146
NXP 0208	6 A 2 L 0 SSF	208	229	170	255	289	200	160	FR9	480*1150*362/ 146



STANDALONE VACON NXP

High-power Vacon NXP drives are also available in a compact standalone IP21 or IP54 enclosure. These units are designed for use in applications where the drive has to be compact and easy to install.

The Vacon NXP standalone drives are fully enclosed at the factory and are ready for immediate installation. The drive has integrated fuses as standard and no extra protections are required by the drive. It is also possible to equip the drive with an optional integrated load switch, which further simplifies handling in the field.

Mains voltage 380—500 V, 50/60 Hz, 3~

AC drive type	Loadability					Motor shaft power			Frame size	Dimensions and weight W*H*D (mm)/ kg
	Low (+40°C)		High (+40°C)		Maximum current I _S	400 V supply				
	Rated continuous current I _L (A)	10% overload current (A)	Rated continuous current I _H (A)	50% overload current (A)		10% overload P (kW)	50% overload P (kW)			
NXP 0385 5 A 2 L 0 SSA	385	424	300	450	540	200	160	FR10	595*2020*602/ 340	
NXP 0460 5 A 2 L 0 SSA	460	506	385	578	693	250	200	FR10	595*2020*602/ 340	
NXP 0520 5 A 2 L 0 SSA	520	572	460	690	828	250	250	FR10	595*2020*602/ 340	
NXP 0590 5 A 2 L 0 SSA	590	649	520	780	936	315	250	FR11	794*2020*602/ 470	
NXP 0650 5 A 2 L 0 SSA	650	715	590	885	1062	355	315	FR11	794*2020*602/ 470	
NXP 0730 5 A 2 L 0 SSA	730	803	650	975	1170	400	355	FR11	794*2020*602/ 470	

Mains voltage 500—690 V, 50/60 Hz, 3~

AC drive type	Loadability					Motor shaft power			Frame size	Dimensions and weight W*H*D (mm)/ kg
	Low (+40°C)		High (+40°C)		Maximum current I _S	690 V supply				
	Rated continuous current I _L (A)	10% overload current (A)	Rated continuous current I _H (A)	50% overload current (A)		10% overload P (kW)	50% overload P (kW)			
NXP 0261 6 A 2 L 0 SSA	261	287	208	312	375	250	200	FR10	595*2020*602/ 340	
NXP 0325 6 A 2 L 0 SSA	325	358	261	392	470	315	250	FR10	595*2020*602/ 340	
NXP 0385 6 A 2 L 0 SSA	385	424	325	488	585	355	315	FR10	595*2020*602/ 340	
NXP 0416 6 A 2 L 0 SSA [#]	416	458	325	488	585	400	315	FR10	595*2020*602/ 340	
NXP 0460 6 A 2 L 0 SSA	460	506	385	578	693	450	355	FR11	794*2020*602/ 400	
NXP 0502 6 A 2 L 0 SSA	502	552	460	690	828	500	450	FR11	794*2020*602/ 400	
NXP 0590 6 A 2 L 0 SSA [#]	590	649	502	753	904	560	500	FR11	794*2020*602/ 470	

[#] max. ambient temperature of +35°C

HARDWARE CONFIGURATIONS

FUNCTION	AVAILABILITY
IP21	Standard
IP54 (FR10 only)	Optional
Integrated fuses	Standard
Load switch	Optional
EMC filtering L	Standard
EMC filtering T	Optional
Brake chopper (cabling top entry)	Optional (H: +122 mm)



IPOO VACON NXP MODULES

The Vacon NXP high-power IP00 drive modules are intended for installation in a separate enclosure. Thanks to the robust, square-shaped design of the module, enclosure design is easy and straightforward.

Mains voltage 380—500 V, 50/60 Hz, 3~

AC drive type	Loadability					Motor shaft power		Frame size	Module W*H*D (mm)/ kg	Chokes W*H*D (mm)/ kg
	Low (+40°C)		High (+40°C)		Maximum current I _S	400 V supply				
	Rated continuous current I _L (A)	10% overload current (A)	Rated continuous current I _H (A)	50% overload current (A)		10% overload P (kW)	50% overload P (kW)			
NXP 0385 5A0N0SSA	385	424	300	450	540	200	160	FR10	500*1165*506/ 120	350*383*262/ 84 ¹⁾
NXP 0460 5A0N0SSA	460	506	385	578	693	250	200	FR10	500*1165*506/ 120	497*399*244/ 115 ¹⁾
NXP 0520 5A0N0SSA	520	572	460	690	828	250	250	FR10	500*1165*506/ 120	497*399*244/ 115 ¹⁾
NXP 0590 5A0N0SSA	590	649	520	780	936	315	250	FR11	709*1206*506/ 210	2x(350*383*262/84)
NXP 0650 5A0N0SSA	650	715	590	885	1062	355	315	FR11	709*1206*506/ 210	2x(350*383*262/84)
NXP 0730 5A0N0SSA	730	803	650	975	1170	400	355	FR11	709*1206*506/ 210	2x(350*383*262/84)
NXP 0820 5A0N0SSA	820	902	730	1095	1314	450	400	FR12	2x(500*1165*506/120)	2x(497*399*244/115)
NXP 0920 5A0N0SSA	920	1012	820	1230	1476	500	450	FR12	2x(500*1165*506/120)	2x(497*399*244/115)
NXP 1030 5A0N0SSA	1030	1133	920	1380	1656	560	500	FR12	2x(500*1165*506/120)	2x(497*399*244/115)

1) 12-pulse units, 2x(354*319*230/ 53 kg)

Mains voltage 500—690 V, 50/60 Hz, 3~

AC drive type	Loadability					Motor shaft power		Frame size	Module W*H*D (mm)/ kg	Chokes W*H*D (mm)/ kg
	Low (+40°C)		High (+40°C)		Maximum current I _S	690 V supply				
	Rated continuous current I _L (A)	10% overload current (A)	Rated continuous current I _H (A)	50% overload current (A)		10% overload P (kW)	50% overload P (kW)			
NXP 0261 6A0N0SSA	261	287	208	312	375	250	200	FR10	500*1165*506/ 120	354*319*230/ 53 ¹⁾
NXP 0325 6A0N0SSA	325	358	261	392	470	315	250	FR10	500*1165*506/ 120	350*383*262/ 84 ¹⁾
NXP 0385 6A0N0SSA	385	424	325	488	585	355	315	FR10	500*1165*506/ 120	350*383*262/ 84 ¹⁾
NXP 0416 6A0N0SSA [#]	416	458	325	488	585	400	315	FR10	500*1165*506/ 120	350*383*262/ 84 ¹⁾
NXP 0460 6A0N0SSA	460	506	385	578	693	450	355	FR11	709*1206*506/ 210	497*399*244/ 115 ²⁾
NXP 0502 6A0N0SSA	502	552	460	690	828	500	450	FR11	709*1206*506/ 210	497*399*244/ 115 ²⁾
NXP 0590 6A0N0SSA [#]	590	649	502	753	904	560	500	FR11	709*1206*506/ 210	2x(350*383*262/84)
NXP 0650 6A0N0SSA	650	715	590	885	1062	630	560	FR12	2x(500*1165*506/120)	2x(350*383*262/84)
NXP 0750 6A0N0SSA	750	825	650	975	1170	710	630	FR12	2x(500*1165*506/120)	2x(350*383*262/84)
NXP 0820 6A0N0SSA [#]	820	902	650	975	1170	800	630	FR12	2x(500*1165*506/120)	2x(350*383*262/84)

[#] max. ambient temperature of +35°C

1) 12-pulse units, 2x(354*319*230/ 53 kg)

2) 12-pulse units, 2x(350*383*262/ 84 kg)

Bigger units are available on request.

HARDWARE CONFIGURATIONS

FUNCTION	AVAILABILITY
Integrated control unit	Standard
External control unit	Optional
Integrated brake chopper	Optional
6-pulse supply	Standard
12-pulse supply	Optional
EMC filtering N	Standard
EMC filtering T	Optional

