

Description

5-500HP

P7/Configured

NEMA 1/12 FVFF

P7C



The P7/Configured package provides a P7 in a NEMA 1 or NEMA 12 FVFF enclosure, with space for several commonly used options, such as reactors, RFI filters, circuit breakers, etc. The P7 and P7/Configured have been designed for flexibility in providing the features and options commonly demanded by facility designers.

The P7 Drive is a variable torque AC drive, designed specifically for industrial applications. A new benchmark for size, cost, performance, benefits and quality, the P7 includes numerous built-in features such as Network Communications, PI control and energy-savings functions.

The P7 has embedded communications for Modbus. An optional interface card is also available for DeviceNet, Profibus, EtherNet, and LonWorks.

Performance Features

- VT Ratings: 5-150 HP, 208 VAC
5-150 HP, 230/240 VAC
5- 500 HP, 480 VAC
- Overload capacity: 110% for 60 sec. (150% peak)
- Starting torque: 100% at 3 Hz
- DC injection braking: at start or stop, adjustable, current limited (anti-windmilling)
- Motor preheat function
- Adjustable accel/decel: 0.1 to 6000 sec.
- Controlled speed range: 40:1
- Critical frequency rejection: 3 selectable, adjustable bands
- Torque limiting: 30-180%
- Energy Saving control
- Torque boost: full range, auto
- Power loss ride-thru: 2 sec.
- Inertia ride-thru
- Auto restart after power loss or resettable fault, selectable, programmable
- Feedback signal loss detection
- Serial communications loss detection
- "Up/Down" floating point control capability
- Stationary motor auto-tuning
- Customizable monitor display
- Sleep function
- Run permissive input
- Ramp-to-stop or coast-to-stop selection
- Runtime changes in control and display
- Project-specific parameter reinitialization

Service Conditions

- Ambient Temperature: -10°C to 40°C (14°F to 104°F)
- Humidity: 95% RH, non-condensing
- Altitude: 3300 ft; higher by derate
- Input voltage: +10%/-15%
- Input frequency: 50/60 Hz \pm 5%
- 3-phase, 3-wire, phase sequence insensitive

Protective Features

- Current limited stall prevention
- Heat sink over-temperature, speed fold-back
- Cooling fan operating hours recorded
- Bi-directional start into rotating motor at synchronized speed
- DC bus charge indicator
- Current limiting DC bus fuse
- Optically-Isolated controls
- Short circuit protection: Phase-phase and phase-neutral
- Ground fault protection
- Electronic motor overload: UL
- Current and torque limit
- Fault display: last 10 faults
- Fault circuit: OC, OV, OT
- Over torque and under torque protection
- Program security code
- "Hunting" prevention logic
- Reverse prohibit selectability

Configured Options

- Circuit breaker / Motor circuit protector
- RFI/EMI filter
- Input fuses
- Input reactor
- Output reactor
- Engraved nameplates
- Speed potentiometer
- Pressure/electrical transducer
- Analog outputs: 2 programmable, 4-20 mA
- HOA Selector Switch
- 200VA Control Transformer (fused)
- Communication Interface: DeviceNet, Profibus, EtherNet, LonWorks, Johnson Controls METASYS N2, and Siemens APOGEE FLN
- DriveWizard™ upload/download and monitoring/graphing software

Design Features

- 32-bit microprocessor logic
- Flash upgradeable firmware
- Non-volatile memory, program retention
- Surface-mount devices
- Displacement power factor: 0.98
- Output frequency: 0.1 to 120 Hz
- Frequency resolution: 0.06 Hz
- Frequency regulation: 0.1%
- Control Terminal Board: Quick disconnect, removable
- Carrier frequency: selectable to 15 kHz
- 3% DC bus reactor: 30-150 HP, 208 VAC; 30-150 HP, 240 VAC; 40-500 HP, 480 VAC; optional on lower ratings
- Keypad Operator: built-in copy feature, 6 languages
- LCD display: 5 lines, 16 characters each
- 24 VDC control logic
- Transmitter/Option power supply
- Output contacts: One form C and two programmable form A
- Input/output terminal status
- Input terminals: 5 programmable multi-function input terminals
- Fault input: Programmable
- Diagnostic fault indication in selected language
- Timer function: Elapsed time, Delay on start, Delay on stop
- RS-422/485 port: Modbus
- Volts/hertz ratio: Preset and programmable V/Hz patterns
- Multi-speed settings: 5 available
- Remote speed command: 0-10 VDC or 4-20 mA, direct or reverse-acting
- Setpoint (PI) control with inverse or square root input, differential control via two feedback capability
- Feedback signal: low pass filter
- Speed command: bias and gain
- Analog outputs: Programmable, two, 0-10 VDC
- Meter Functions: Volt, amp, kilowatt, elapsed run time, speed command
- Output Current Transformers, qty 3
- NEMA 1 or NEMA 12 FVFF enclosure
- UL, cUL listed; CE marked; IEC 146
- MTBF: exceeds 28 years



Description
5-500HP
P7/Configured
NEMA 1/12 FVFF

Model Number Configuration & Pricing:

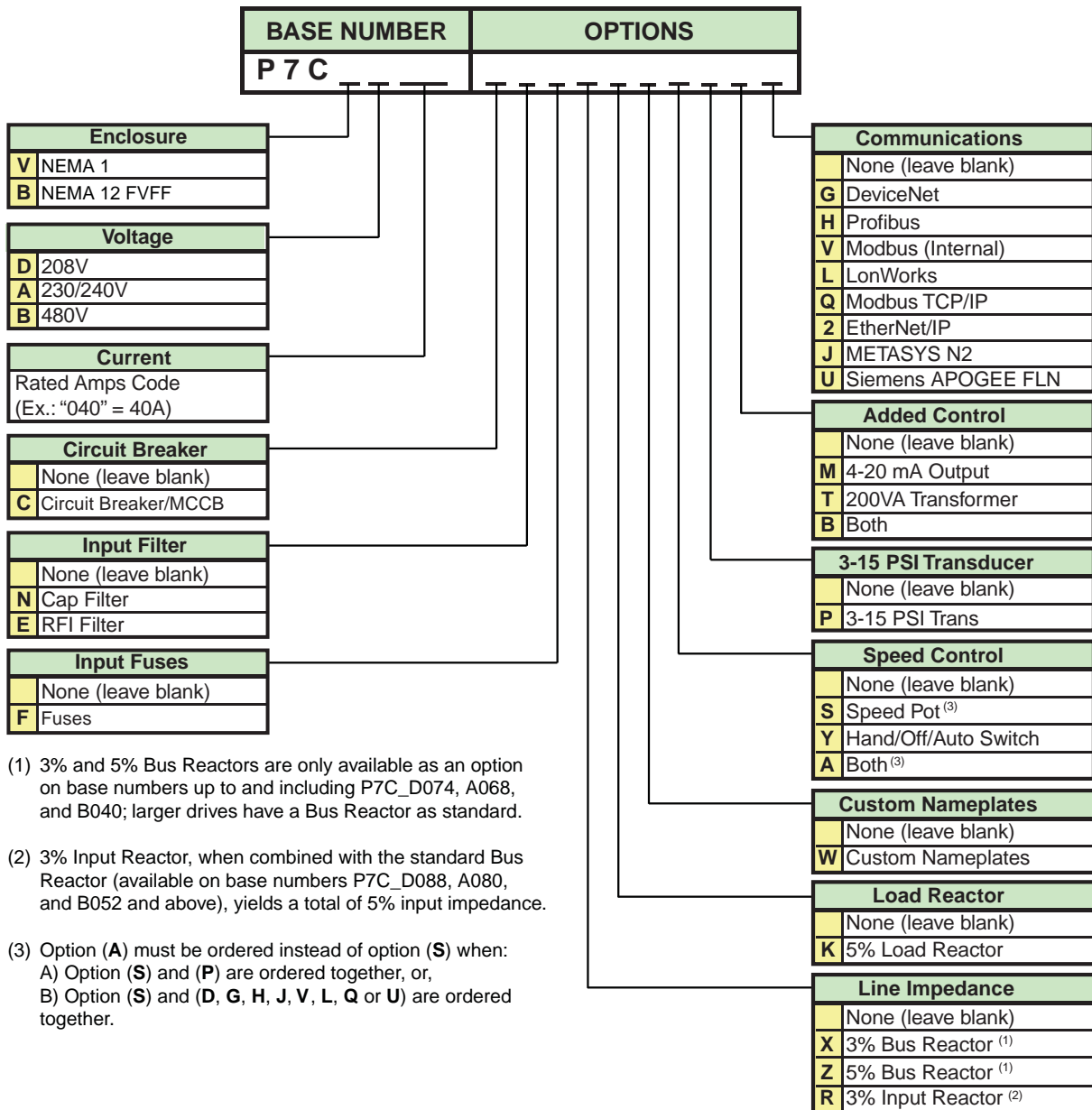
Step 1. First complete the Base Number for the required enclosure type, voltage and current rating.

Step 2. Add the Option code letter for each required option. If an option is not wanted, no character is inserted.

Step 3. Find the list price for the Base Number selected from the following pages. Add the list price of each selected option to this base price.

Example: P7 Configured package (**P7CV**) with a 40 Amp, 480V drive (**B040**), with Circuit Breaker (**C**), 3% Bus reactor (**X**), door-mounted speed pot (**S**) and Profibus communication capability (**H**). Model number is:

P7CVB040CXSH



(1) 3% and 5% Bus Reactors are only available as an option on base numbers up to and including P7C_D074, A068, and B040; larger drives have a Bus Reactor as standard.

(2) 3% Input Reactor, when combined with the standard Bus Reactor (available on base numbers P7C_D088, A080, and B052 and above), yields a total of 5% input impedance.

(3) Option (**A**) must be ordered instead of option (**S**) when:
 A) Option (**S**) and (**P**) are ordered together, or,
 B) Option (**S**) and (**D, G, H, J, V, L, Q** or **U**) are ordered together.

Configured Option Descriptions:

- (V, B) Enclosure:** The drive and options are provided in either a NEMA Type 1 (V) ventilated or NEMA 12 FVFF (force ventilated fan filter) (B) enclosure, large enough to accommodate any or all of the package options. Enclosures for Base Numbers up to, and including, D114 (40HP, 208V), A104 (40HP, 240V), and B124 (100HP, 480V) are wall-mounted; larger drives are in floor-mount enclosures.

Options (Power)

- (C) Circuit Breaker:** The standard configuration provides no branch short circuit protection or input disconnecting means. This option provides a thermal-magnetic circuit breaker that meets NEC branch circuit protection requirements, with a flange-mounted operating handle.
- (N, E) Input Filter:** The standard configuration does not include a filter. The cap filter, option (N), is a delta-wye capacitive network, while the RFI filter (E) provides noise attenuation to help meet CE requirements. This option requires the addition of the add-on box - see Dimensions and Data.
- (F) Input Fuses:** The standard configuration does not include Drive Input Fuses. This option provides high-speed semi-conductor drive input fuses, rated for 200,000 amp RMS symmetrical interrupting capacity, that provides both drive input I²T protection and NEC approved branch circuit and short circuit protection.
- (X, Z, R) Line Impedance:** Drives above Base Numbers D074 (25HP, 208V), A068 (25HP, 240V) and B040 (30HP, 480V) include a 3% DC bus reactor in the standard package and do not provide any additional impedance. Option (X), 3% impedance, and option (Z), 5% impedance, are not available for ratings larger than these. To achieve a 5% total input impedance, select option (R) - this 3% input reactor is available only for the HP ratings greater than the HP's listed above, and combines with the drive's standard DC bus reactor. If this option is combined with a drive that includes a bus reactor, the add-on box is required - see Dimensions and Data.
- (K) Load Reactor:** No form of output impedance is normally required. A 5% load reactor, option (K), is available if additional output impedance is desired (usually for long lead-lengths or noise reduction). This option may require the add-on box for wall-mount enclosures - see Dimensions and Data.

Options (Control and Communications)

- (W) Custom Nameplates:** Custom engraved nameplates with white lettering on black lamincoid are available with option (W), for special tagging purposes (Example: "AHU #1"). Note that this option requires the text to be specified by the customer. Leave this field blank if no special nameplates are required.
- (S, Y, A) Speed Control:** The drive's digital operator is always brought out to the front of the Configured panel, so it is available for speed control - this is the standard configuration. A door-mounted 2.5K ohm speed potentiometer is available for manual speed control with option (S). This also includes a 2.5K ohm trim pot and is suitable for NEMA 1 and NEMA 12 installations. A door-mounted Hand/Off/Auto Switch is available when option (Y) is specified, and both a speed pot and HOA switch are provided with option (A).
- (P) 3-15 PSI Transducer:** No transducer is provided with the standard configuration. To add an optional transducer that accepts a 3-15 PSI pneumatic signal and converts it to a 4-20mA signal that is sent to the drive, specify option (P).
- (M, T, B) Added Control:** The standard Configured package provides two programmable 0-10VDC outputs. To convert these outputs to 4-20mA output signals, specify option (M). Option (T) adds a 200VA control transformer, to provide more control circuit capacity. Option (B) can be selected if both options are desired.
- (G, H, L, Q, 2, V, J, U) Communications:** All configurations provide the hardware and software required for network communications, but these are not enabled in the standard configuration. Option (V) provides the programming and jumpers necessary to enable Modbus communications at no additional cost. DeviceNet option (G), Profibus option (H), Lonworks option (L), Modbus TCP/IP option (Q), and EtherNet/IP option (2) all require the addition of an optional board. Option (J) Johnson Controls METASYS N2 and option (U) Siemens APOGEE FLN require a software change, but no hardware change.



Configured Drives and Options

NEMA 1

P7 Configured Drives - 5-500HP, 208-230/240 and 480V, 3-phase input, NEMA 1 enclosure, with factory-installed and wired options

Rated Input Voltage	Rated Output Current (Amps)	Nominal HP ⁽¹⁾	NEMA 1 Configured		Circuit Breaker	Input Filter		Input Fuses	Line Impedance			Load Reactor
					C=MCP	N=Cap E=RFI		F=Fuses	X=3% Bus Reactor Z=5% Bus Reactor R=3% Input Reactor			K=5%
			P7CV	Base List \$	C List \$	N List \$	E List \$ ⁽²⁾	F List \$	X List \$	Z List \$	R List \$	K List \$ ⁽²⁾
208V	16.7	5	D016									
	24.2	7.5	D024								N/A	
	30.8	10	D030									
	46.2	15	D046									
	59.4	20	D059									
	74.8	25	D074									
	88	30	D088									
	114	40	D114									
	143	50	D143									
	169	60	D169							3% DC Bus Reactor is included as standard		
	211	75	D211									
273	100	D273										
343	125	D343										
396	150	D396										
240V	15.2	5	A015									
	22	7.5	A022								N/A	
	28	10	A028									
	42	15	A042									
	54	20	A054									
	68	25	A068									
230V	80	30	A080									
	104	40	A104									
	130	50	A130									
	154	60	A154								3% DC Bus Reactor is included as standard	
	192	75	A192									
248	100	A248										
312	125	A312										
360	150	A360										

(1) Horsepower rating is based on standard NEMA B 4-pole motor design as represented in NEC table 430.150 Full-Load Current, Three-Phase Alternating Current Motors

(2) This price includes the add-on box, when required. If more than one of the following: RFI Filter, 3% Input Reactor, and 5% Load Reactor is selected, DEDUCT \$100 list from all but one of these options

Configured Drives and Options

NEMA 1



P7 Configured Drives (Continued)

Rated Input Voltage	Rated Output Current (Amps)	Nom. HP ⁽¹⁾	Custom Name-plates	Speed Control				Transducer	Added Control				Communications							Uses Drive Model Number CIMR-P7U
			W=NP	S=Speed Pot Y=HOA Switch A=Both				P=3-15 PSI	M=4-20mA T=200VA B=Both				G=DeviceNet, H=Profibus V=Modbus, L=LonWorks Q=Modbus TCP/IP, 2=EtherNet/IP, J=METASYS N2 U=APOGEE FLN							
			List \$	List \$	List \$	List \$	List \$	List \$	List \$	List \$	List \$	List \$	List \$	List \$	List \$	List \$	List \$	List \$	List \$	
208V	16.7	5																	23P71	
	24.2	7.5																	27P51	
	30.8	10																	27P51	
	46.2	15																	20111	
	59.4	20																	20151	
	74.8	25																	20181	
	88	30																	20221	
	114	40																	20301	
	143	50																	20370	
	169	60																	20450	
211	75																	20550		
273	100																	20750		
343	125																	20900		
396	150																	21100		
240V	15.2	5																	23P71	
	22	7.5																	25P51	
	28	10																	27P51	
	42	15																	20111	
	54	20																	20151	
	68	25																	20181	
	80	30																	20221	
104	40																	20301		
230V	130	50																	20370	
	154	60																	20370	
	192	75																	20450	
	248	100																	20750	
	312	125																	20750	
360	150																	20900		

- (1) Horsepower rating is based on standard NEMA B 4-pole motor design as represented in NEC table 430.150 Full-Load Current, Three-Phase Alternating Current Motors
- (2) This price includes the add-on box, when required. If more than one of the following: RFI Filter, 3% Input Reactor, and 5% Load Reactor is selected, DEDUCT \$100 list from all but one of these options
- (3) Included in the Base Price



Configured Drives and Options

NEMA 1

P7 Configured Drives (Continued)

Rated Input Voltage	Rated Output Current (Amps)	Nominal HP ⁽¹⁾	NEMA 1 Configured		Circuit Breaker	Input Filter		Input Fuses	Line Impedance			Load Reactor
					C=MCP	N=Cap E=RFI		F=Fuses	X=3% Bus Reactor Z=5% Bus Reactor R=3% Input Reactor			K=5%
			P7CV	Base List \$	C List \$	N List \$	E List \$ ⁽²⁾	F List \$	X List \$	Z List \$	R List \$	K List \$ ⁽²⁾
480V	7.6	5	B007									
	11	7.5	B011								N/A	
	14	10	B014									
	21	15	B021									
	27	20	B027									
	34	25	B034									
	40	30	B040									
	52	40	B052								3% DC Bus Reactor is included as standard	
	65	50	B065									
	77	60	B077									
	96	75	B096									
	124	100	B124									
	156	125	B156									
	180	150	B180									
	240	200	B240									
	302	250	B302									
361	300	B361										
414	350	B414										
477	400	B477										
515	450	B515										
590	500	B590										

(1) Horsepower rating is based on standard NEMA B 4-pole motor design as represented in NEC table 430.150 Full-Load Current, Three-Phase Alternating Current Motors

(2) This price includes the add-on box, when required. If more than one of the following: RFI Filter, 3% Input Reactor, and 5% Load Reactor is selected, DEDUCT \$100 list from all but one of these options

Configured Drives and Options

NEMA 1



P7 Configured Drives (Continued)

Rated Input Voltage	Rated Output Current (Amps)	Nom. HP ⁽¹⁾	Custom Name-plates	Speed Control				Transducer	Added Control				Communications							Uses Drive Model Number CIMR-P7U
			W=NP	S=Speed Pot Y=HOA Switch A=Both				P=3-15 PSI	M=4-20mA T=200VA B=Both				G=DeviceNet, H=Profibus V=Modbus, L=LonWorks Q=Modbus TCP/IP, 2=EtherNet/IP, J=METASYS N2 U=APOGEE FLN							
			W List \$	S List \$	Y List \$	A List \$	P List \$	M List \$	T List \$	B List \$	G List \$	H List \$	V ⁽³⁾ List \$	L List \$	Q List \$	2 List \$	J List \$	U List \$		
480V	7.6	5																	43P71	
	11	7.5																	45P51	
	14	10																	47P51	
	21	15																	40111	
	27	20																	40151	
	34	25																	40181	
	40	30																	40301	
	52	40																	40371	
	65	50																	40451	
	77	60																	40551	
	96	75																	40750	
	124	100																	40900	
	156	125																	41100	
	180	150																	41600	
	240	200																	41850	
	302	250																	42200	
361	300																	42200		
414	350																	43000		
477	400																			
515	450																			
590	500																			

- (1) Horsepower rating is based on standard NEMA B 4-pole motor design as represented in NEC table 430.150 Full-Load Current, Three-Phase Alternating Current Motors
- (2) This price includes the add-on box, when required. If more than one of the following: RFI Filter, 3% Input Reactor, and 5% Load Reactor is selected, DEDUCT \$100 list from all but one of these options
- (3) Included in the Base Price



Configured Drives and Options

NEMA 12 FVFF

P7 Configured Drives - 5-500HP, 208-230/240 or 480V, 3-phase input, NEMA 12 enclosure, with factory-installed and wired options

Rated Input Voltage	Rated Output Current (Amps)	Nominal HP ⁽¹⁾	NEMA 12 FVFF Configured		Circuit Breaker	Input Filter		Input Fuses	Line Impedance			Load Reactor
					C=MCP	N=Cap E=RFI		F=Fuses	X=3% Bus Reactor Z=5% Bus Reactor R=3% Input Reactor			K=5%
					P7CB	Base List \$	C List \$	N List \$	E List \$ ⁽²⁾	F List \$	X List \$	Z List \$
208V	16.7	5	D016									
	24.2	7.5	D024								N/A	
	30.8	10	D030									
	46.2	15	D046									
	59.4	20	D059									
	74.8	25	D074									
	88	30	D088									
	114	40	D114								3% DC Bus Reactor is included as standard	
	143	50	D143									
	169	60	D169									
	211	75	D211									
273	100	D273										
343	125	D343										
396	150	D396										
240V	15.2	5	A015									
	22	7.5	A022								N/A	
	28	10	A028									
	42	15	A042									
	54	20	A054									
	68	25	A068									
230V	80	30	A080									
	104	40	A104									
	130	50	A130								3% DC Bus Reactor is included as standard	
	154	60	A154									
	192	75	A192									
248	100	A248										
312	125	A312										
360	150	A360										

(1) Horsepower rating is based on standard NEMA B 4-pole motor design as represented in NEC table 430.150 Full-Load Current, Three-Phase Alternating Current Motors

(2) This price includes the add-on box, when required. If more than one of the following: RFI Filter, 3% Input Reactor, and 5% Load Reactor is selected, DEDUCT \$100 list from all but one of these options

Configured Drives and Options

NEMA 12 FVFF



P7 Configured Drives (Continued)

Rated Input Voltage	Rated Output Current (Amps)	Nom. HP ⁽¹⁾	Custom Name-plates	Speed Control				Transducer	Added Control				Communications							Uses Drive Model Number CIMR-P7U	
			W=NP	S=Speed Pot Y=HOA Switch A=Both			P=3-15 PSI	M=4-20mA T=200VA B=Both			G=DeviceNet, H=Profibus V=Modbus, L=LonWorks Q=Modbus TCP/IP, 2=EtherNet/IP, J=METASYS N2 U=APOGEE FLN										
			W List \$	S List \$	Y List \$	A List \$	P List \$	M List \$	T List \$	B List \$	G List \$	H List \$	V ⁽³⁾ List \$	L List \$	Q List \$	2 List \$	J List \$	U List \$			
208V	16.7	5																		23P71	
	24.2	7.5																			27P51
	30.8	10																			
	46.2	15																			20111
	59.4	20																			20151
	74.8	25																			20181
	88	30																			20221
	114	40																			20301
	143	50																			20370
	169	60																			20450
211	75																			20550	
273	100																			20750	
343	125																			20900	
396	150																			21100	
240V	15.2	5																			23P71
	22	7.5																			25P51
	28	10																			27P51
	42	15																			20111
	54	20																			20151
	68	25																			20181
	80	30																			20221
104	40																			20301	
230V	130	50																			20370
	154	60																			20450
	192	75																			20750
	248	100																			20750
	312	125																			20750
360	150																			20900	

- (1) Horsepower rating is based on standard NEMA B 4-pole motor design as represented in NEC table 430.150 Full-Load Current, Three-Phase Alternating Current Motors
- (2) This price includes the add-on box, when required. If more than one of the following: RFI Filter, 3% Input Reactor, and 5% Load Reactor is selected, DEDUCT \$100 list from all but one of these options
- (3) Included in the Base Price



Configured Drives and Options

NEMA 12 FVFF

P7 Configured Drives (Continued)

Rated Input Voltage	Rated Output Current (Amps)	Nominal HP ⁽¹⁾	NEMA 12 FVFF Configured		Circuit Breaker	Input Filter		Input Fuses	Line Impedance			Load Reactor
					C=MCP	N=Cap E=RFI		F=Fuses	X=3% Bus Reactor Z=5% Bus Reactor R=3% Input Reactor			K=5%
					P7CB	Base List \$	C List \$	N List \$	E List \$ ⁽²⁾	F List \$	X List \$	Z List \$
480V	7.6	5	B007									
	11	7.5	B011								N/A	
	14	10	B014									
	21	15	B021									
	27	20	B027									
	34	25	B034									
	40	30	B040									
	52	40	B052								3% DC Bus Reactor is included as standard	
	65	50	B065									
	77	60	B077									
	96	75	B096									
	124	100	B124									
	156	125	B156									
	180	150	B180									
	240	200	B240									
	302	250	B302									
361	300	B361										
414	350	B414										
477	400	B477										
515	450	B515										
590	500	B590										

(1) Horsepower rating is based on standard NEMA B 4-pole motor design as represented in NEC table 430.150 Full-Load Current, Three-Phase Alternating Current Motors

(2) This price includes the add-on box, when required. If more than one of the following: RFI Filter, 3% Input Reactor, and 5% Load Reactor is selected, DEDUCT \$100 list from all but one of these options

Configured Drives and Options

NEMA 12 FVFF



P7 Configured Drives (Continued)

Rated Input Voltage	Rated Output Current (Amps)	Nom. HP ⁽¹⁾	Custom Name-plates	Speed Control				Transducer	Added Control				Communications							Uses Drive Model Number CIMR-P7U
			W=NP	S=Speed Pot Y=HOA Switch A=Both				P=3-15 PSI	M=4-20mA T=200VA B=Both				G=DeviceNet, H=Profibus V=Modbus, L=LonWorks Q=Modbus TCP/IP, 2=EtherNet/IP, J=METASYS N2 U=APOGEE FLN							
			List \$	S List \$	Y List \$	A List \$	P List \$	M List \$	T List \$	B List \$	G List \$	H List \$	V ⁽³⁾ List \$	L List \$	Q List \$	2 List \$	J List \$	U List \$		
480V	7.6	5																	43P71	
	11	7.5																	45P51	
	14	10																	47P51	
	21	15																	40111	
	27	20																	40151	
	34	25																	40181	
	40	30																	40301	
	52	40																	40371	
	65	50																	40451	
	77	60																	40551	
	96	75																	40750	
	124	100																	40900	
	156	125																	41100	
	180	150																	41600	
	240	200																	41850	
	302	250																	41850	
361	300																	42200		
414	350																	42200		
477	400																	43000		
515	450																			
590	500																			

- (1) Horsepower rating is based on standard NEMA B 4-pole motor design as represented in NEC table 430.150 Full-Load Current, Three-Phase Alternating Current Motors
- (2) This price includes the add-on box, when required. If more than one of the following: RFI Filter, 3% Input Reactor, and 5% Load Reactor is selected, DEDUCT \$100 list from all but one of these options
- (3) Included in the Base Price



Dimensions and Data

NEMA 1/12 FVFF

Rated Input Voltage	Configured P7CR	Rated Output Current (Amps)	Nominal HP ⁽¹⁾	Physical Dimensions (in.)			Weight (lbs.) ⁽²⁾	Dimension Drawing Number ⁽⁴⁾	Dimension Drawing Number (w/ Add-on Box) ^(3, 4)
				H	W	D			
208V	D016	16.7	5	29.00	19.00	13.66	115	DD.AFD.087.01	DD.AFD.087.01.A0
	D024	24.2	7.5				127		
	D030	30.8	10				208		
	D046	46.2	15	40.00	25.63	14.66	221	DD.AFD.088.01	DD.AFD.088.01.A0
	D059	59.4	20				847		
	D074	74.8	25	84.00	37.75	27.00	943	DD.AFD.183.06	N/A
	D088	88	30				1214		
	D114	114	40				1330		
	D143	143	50				1423		
	D169	169	60						
D211	211	75							
D273	273	100							
D343	343	125							
D396	396	150							
240V	A015	15.2	5	29.00	19.00	13.66	115	DD.AFD.087.01	DD.AFD.087.01.A0
	A022	22	7.5				127		
	A028	28	10				208		
	A042	42	15	40.00	25.63	14.66	221	DD.AFD.088.01	DD.AFD.088.01.A0
	A054	54	20				847		
	A068	68	25	84.00	37.75	27.00	943	DD.AFD.183.06	N/A
A080	80	30	1214						
A104	104	40	1330						
A130	130	50	1376						
230V	A154	154	60	84.00	37.75	27.00	943	DD.AFD.183.06	N/A
	A192	192	75				1214		
	A248	248	100				1330		
	A312	312	125				1376		
	A360	360	150						

(1) Horsepower rating is based on standard NEMA B 4-pole motor design as represented in NEC table 430.150 Full-Load Current, Three-Phase Alternating Current Motors

(2) Data represents the total approx. weight of the drive with all possible standard options, not shipping weight.

(3) Add-on box (required with specified options - see options description) adds up to 15" to 'H' dimension and 91 lbs. Max. to total drive weight.

(4) Please refer to Yaskawa's website at www.yaskawa.com for dimension drawings.

Dimensions and Data

NEMA 1/12 FVFF

P7C

Rated Input Voltage	Configured P7CV or P7CB	Rated Output Current (Amps)	Nominal HP ⁽¹⁾	Physical Dimensions (in.)			Weight (lbs.) ⁽²⁾	Dimension Drawing Number ⁽⁴⁾	Dimension Drawing Number (w/ Add-on Box) ^(3, 4)
				H	W	D			
480V	B007	7.6	5	29.00	19.00	13.66	115	DD.AFD.087.01	DD.AFD.087.01.A0
	B011	11	7.5				127		
	B014	14	10				142		
	B021	21	15						
	B027	27	20	40.00	25.63	14.66	203	DD.AFD.088.01	DD.AFD.088.01.A0
	B034	34	25				232		
	B040	40	30				241		
	B052	52	40						
	B065	65	50	84.00	37.75	27.00	943	DD.AFD.183.06	N/A
	B077	77	60						
	B096	96	75	84.00	37.75	27.00	1240	DD.AFD.183.06	N/A
	B124	124	100				1352	DD.AFD.183.06	
	B156	156	125		73.25		1740	DD.AFD.184.08	
	B180	180	150				1800	DD.AFD.184.08	
	B240	240	200	84.00	73.25	27.00	1800	DD.AFD.184.08	N/A
	B302	302	250				2125		
B361	361	300	84.00	73.25	27.00	2125	DD.AFD.184.08	N/A	
B414	414	350				2125			
B477	477	400							
B515	515	450							
B590	590	500							

- (1) Horsepower rating is based on standard NEMA B 4-pole motor design as represented in NEC table 430.150 Full-Load Current, Three-Phase Alternating Current Motors
- (2) Data represents the total approx. weight of the drive with all possible standard options, not shipping weight.
- (3) Add-on box (required with specified options - see options description) adds up to 15" to 'H' dimension and 91 lbs. Max. to total drive weight.
- (4) Please refer to Yaskawa's website at www.yaskawa.com for dimension drawings.