Chapter 8 TECHNICAL SPECIFICATIONS

Understanding the Product Code

Manufacturing Product Codes

The unit is fully identified using an alphanumeric code which records how the Drive was calibrated, it's various settings when despatched from the factory, and the country of origin.

For conformal coated PCB's add a "C" in front of the product code e.g., C690-21.....

The Product Code appears as the "Model No". Each block of the Product Code is identified as below.

AC690+ Series (230V) Integrator Series Drive

				Block 1 690 - Example: 690 -	Block 2	Block 3	Block4
nily	690 inverter range			Example: 090 -	21 1400 8 0		AUUC
	Supply Voltage	Constan kW	t Torque 230v ratings Output Current	Frame Size			
rent/Power ing	230v 1ph	0.75	4.0	В	21 1400 B		
-		1.5 2.2	7.0 10.5	B	1700 B 2105 B		
	230v 3ph	2.2	10.5		23		
		0.75 1.5	4.0 7.0	B B	1400 B 1700 B		
		2.2	10.5	B	2105 B		
		4.0	16.5	В	2165 B		
		5.5	22	С	2220 C		
		7.5 11	28 42	C D	2280 C 2420 D		
		15	54	D	2540 D		
		18.5	68	D	2680 D		
		22	80	E	2800 E		
		30 37	104 130	F	3104 F 3130 F		
		45	154	F	3154 F		
iliary supply	Not required (frames B- 115v 1ph (Frame F-J or 230v 1ph (Frame F-J or	nly)			0 1 2		
ke Switch	Not Fitted (optional on	Frame D-J)	frames B & C, optional on frame:	s D-J)		0 B	
er	Not fitted (Optional on f	frame B, mandate				0 F	
tem Board	Not fitted <u>S</u> ystem Board fitted					0 S	
chanical Style	<u>P</u> anel Mount (Option or <u>W</u> all Mount (Option on <u>T</u> hrough Panel Mount (Frames B-E only				P W T	
cial Option	None Documented special op	ptions (01-99)				00	
tination	English (50Hz) English (60Hz) German Spanish French Portuguese Italian Polish Swedish						A B D F G I L S
rpad	None (Option on Frame 6901 Keypad fitted (opt		-F, mandatory on frames G-J)				0 4
ed Feedback	None HTTL Encoder						0 3
nms	None ControlNet DeviceNet Ethernet Johnson Metasys Link ModBus + CanOpen Profibus RS485 (El Bisynch) Siemens Apogee						0 C J L M N P R S
1ms	<u>C</u> ontrolNet DeviceNet Ethernet Johnson Metasys Link ModBus + CanOpen Profibus						

8-2 Technical Specifications

AC690+ Series (400/460V) Integrator Series Drive

							Block 1 690 -	Block	. 2	Bloc	ж З	Block	4۸
						Example	: 690 -	43 1250	В 0	- 0 0 0	W 00	- A 0 0	b
amily	690 inverter range	Constant Torqu	e 400v rating: Con	stant Torque 4	60v ratings		690						
		oonotant rorqu	Output	ount ronquo	Output	Frame							
	Supply Voltage	kW	Current	HP	Current	Size							
urrent/Power	400/460v 3ph	0.75	25	1.0	0.5			43					
ating		0.75 1.5	2.5 4.5	1.0 2.0	2.5 4.5	B B		1250 1450	B B				
		2.2	5.5	3.0	5.5	В		1550	в				
		4.0	9.5	5.0	9.5	В		1950	в				
		5.5	12.0	7.5	11.0	В		2120	В				
		5.5	12.0	7.5	12.0	С		2120	C				
		7.5	14.0 16.0	10 10	14.0 14.0	B C		2140 2160	B C				
		11	23.0	15	21.0	c		2230	č				
		15	30.0	20	27.0	С		2300	С				
		15	31.0	20	31.0	D		2310	D				
		18.5	38.0	25	38.0	D		2380	D				
		22 30	45.0 59.0	30 40	45.0 52.0	D D		2450 2590	D D				
		30	59.0	40	59.0	E		2590	E				
		37	73.0	50	73.0	Е		2730	Е				
		45	87.0	60	87.0	E		2870	E				
		55	105	75	100	F		3105	F				
		75 90	145 180	100 125	130 156	F F		3145 3156	F				
		90	180	150	180	F		3180	F				
uxiliary supply	Not required (frames 115v 1ph (Frame F-J 230v 1ph (Frame F-J	only)							0 1 2				
ake Switch	Not Fitted (optional of <u>B</u> rake switch fittedFit		i frames B & C, opti	onal on frames	D-J)					0 B			
lter	Not fitted (Optional or <u>F</u> ilter fitted (Optional		ory on frames C-F)							0 F			
ystem Board	Not fitted <u>S</u> ystem Board fitted									0 S			
lechanical Style	<u>Panel Mount</u> (Option <u>W</u> all Mount (Option o <u>T</u> hrough Panel Mount	n Frames B-E onl	y)	s F-J)							P W T		
pecial Option	None										. 00		
peolar option	Documented special	options (01-99)											
estination	English (50Hz) English (60Hz)											A B	
	German											D	
	Spanish French											E F	
	Portuguese											G	
	Italian											Î.	
	Polish											L	
	Swedish											S	
eypad	None (Option on Fran 6901 Keypad fitted (o		3-F, mandatory on fi	rames G-J)								0 4	
peed Feedback	None HTTL Encoder											(3	
omms	None												
	<u>C</u> ontrolNet <u>D</u> eviceNet												
	<u>E</u> thernet												
	Johnson Metasys												
	Link												
	<u>M</u> odBus + Ca n Open												
	Ca <u>n</u> Open <u>P</u> rofibus												
	<u>R</u> S485 (El Bisynch)												
	Siemens Apogee												
	Lon <u>W</u> orks												

Technical Specifications 8-3

AC690+ Series (400/500V) Integrator Series Drive

				E	xample 🕨	Block 1 690	53 1	ock 2	10	- B	1000	ck 3	00		Bloc	0
					campic r		0011	10011		-	00					-
Product Family	AC690+ Series A	C Drive				690										
		Contan	t Torque	Ouadrati	ic Torque											
		kW	Current	kW	Current											
	Supply Voltage	@500Vac	(A)	@500Vac	(A)	Size										
C	400/500V 3ph	2.2	5.0		1100	В	53	500 E								
Current / Power Rating		4.0	5.0 8.0			B	100	300 E								
		5.5	11			B		10 E								
		5.5	11	7.5	14	Ĉ		110 (
		7.5	14	11	21	С		140 (
		11	21	15	27	С	22	210 (
		15	27	18.5	34	С	1.000	270 (
		15	28	18.5	36	D	+ 20.5	280 I								
		18.5	36	22	42	D		360 I	8							
		22	42	30	52	D		120 I 520 I								
		30 30	52 54	37 37	65 67	D E		540 E								
		37	67	45	79	E	1.000	730 E	2.0							
		45	79	55	98	E		370 H								
		55	100	75	125	F		105 H	3							
		75	125	90	156	F		145 H								
		90	156	110	180	F	3	156 I	2							
Auxiliary Supply	Not Required (Fr	ames B-E)							0							
5 11 5	115V 1ph (Frame								1							
	230V 1ph (Frame								2							
								_								
Brake Switch	Not Fitted (option									0						
				DOO		-	D D)									
Filton				nes B & C, c		n Frames	D-F)		_	B	0					
Filter	Not fitted (option	al on Fran	ne B, mand	atory on Fra		n Frames	D-F)		_		0					
	Not fitted (option Filter fitted (option	al on Fran	ne B, mand	atory on Fra		n Frames	D-F)				F					
	Not fitted (option <u>F</u> ilter fitted (option Not Fitted	al on Fran onal on Fra	ne B, mand	atory on Fra		n Frames	D-F)									
Filter System Board Mechanical Style	Not fitted (option Filter fitted (option	al on Fran onal on Fra ted	ne B, mand ime B only)	atory on Fra	imes C-F)		D-F)				F 0					
System Board	Not fitted (option Filter fitted (option Not Fitted System Board Fit Panel Mount (opti Wall Mount (opti	ted tion on Fran ted tion on Fra on on Fran	ne B, mand ume B only) ames B-E, n nes B-E onl	atory on Fra nandatory o ly)	n Frame I		D-F)				F 0	P W				
System Board Mechanical Style	Not fitted (option <u>F</u> ilter fitted (option Not Fitted System Board Fitt <u>P</u> anel Mount (opti <u>W</u> all Mount (opti Through Panel M	ted tion on Fran ted tion on Fra on on Fran	ne B, mand ume B only) ames B-E, n nes B-E onl	atory on Fra nandatory o ly)	n Frame I		D-F)				F 0	P W T				
System Board Mechanical Style	Not fitted (option Filter fitted (option Not Fitted System Board Fit Panel Mount (opt Wall Mount (opti Through Panel M None	ted tion on Fran ted tion on Fra on on Fran Iount (opti	ne B, manda ume B only) ames B-E, n nes B-E onl on on Fran	atory on Fra nandatory o ly) nes C-E only	n Frame I	2)	D-F)				F 0	P W T	00			
System Board Mechanical Style	Not fitted (option <u>F</u> ilter fitted (option Not Fitted System Board Fitt <u>P</u> anel Mount (opti <u>W</u> all Mount (opti Through Panel M	ted tion on Fran ted tion on Fra on on Fran Iount (opti	ne B, manda ume B only) ames B-E, n nes B-E onl on on Fran	atory on Fra nandatory o ly) nes C-E only	n Frame I	2)	D-F)				F 0	P W T	00			
System Board Mechanical Style Special Option	Not fitted (option Filter fitted (option Not Fitted System Board Fit Panel Mount (opti Through Panel M None Documented spe	ted tion on Fran ted tion on Fra on on Fran Iount (opti	ne B, manda ume B only) ames B-E, n nes B-E onl on on Fran	atory on Fra nandatory o ly) nes C-E only	n Frame I	2)	D-F)				F 0	P W T	00	A		
System Board Mechanical Style	Not fitted (option Filter fitted (option Not Fitted System Board Fit Panel Mount (opti Through Panel M None Documented spe English (50Hz)	ted tion on Fran ted tion on Fra on on Fran Iount (opti	ne B, manda ume B only) ames B-E, n nes B-E onl on on Fran	atory on Fra nandatory o ly) nes C-E only	n Frame I	2)	D-F)				F 0	P W T	00	AB		
System Board Mechanical Style Special Option	Not fitted (option Filter fitted (option Not Fitted System Board Fit Panel Mount (opti Through Panel M None Documented spe	ted tion on Fran ted tion on Fra on on Fran Iount (opti	ne B, manda ume B only) ames B-E, n nes B-E onl on on Fran	atory on Fra nandatory o ly) nes C-E only	n Frame I	2)	D-F)				F 0	P W T	00			
System Board Mechanical Style Special Option	Not fitted (option Filter fitted (option Not Fitted System Board Fit Panel Mount (opti Through Panel M None Documented spe English (50Hz) English (60Hz)	ted tion on Fran ted tion on Fra on on Fran Iount (opti	ne B, manda ume B only) ames B-E, n nes B-E onl on on Fran	atory on Fra nandatory o ly) nes C-E only	n Frame I	2)	D-F)				F 0	P W T	00	B D E		
System Board Mechanical Style Special Option	Not fitted (option <u>Filter fitted</u> (option <u>Filter fitted</u> System Board Fit <u>Panel Mount (opt</u> <u>Wall Mount (opt</u> <u>Through Panel M</u> None Documented spee English (50Hz) German Spanish French	ted tion on Fran ted tion on Fra on on Fran Iount (opti	ne B, manda ume B only) ames B-E, n nes B-E onl on on Fran	atory on Fra nandatory o ly) nes C-E only	n Frame I	2)	D-F)				F 0	P W T	00	B D E F		
System Board Mechanical Style Special Option	Not fitted (option Filter fitted (option Not Fitted System Board Fit Panel Mount (opti Mall Mount (opti Through Panel M None Documented spee English (50Hz) English (60Hz) German Spanish French Portuguese	ted tion on Fran ted tion on Fra on on Fran Iount (opti	ne B, manda ume B only) ames B-E, n nes B-E onl on on Fran	atory on Fra nandatory o ly) nes C-E only	n Frame I	2)	D-F)				F 0	P W T	00	B D E		
System Board Mechanical Style Special Option	Not fitted (option Filter fitted (option Not Fitted System Board Fit Panel Mount (opti Through Panel M None Documented spee English (50Hz) English (60Hz) German Spanish French Portuguese Italian	ted tion on Fran ted tion on Fra on on Fran Iount (opti	ne B, manda ume B only) ames B-E, n nes B-E onl on on Fran	atory on Fra nandatory o ly) nes C-E only	n Frame I	2)	D-F)				F 0	P W T	00	B D E F G I		
System Board Mechanical Style Special Option	Not fitted (option Filter fitted (option Not Fitted System Board Fit Panel Mount (opti Through Panel M None Documented spee English (50Hz) English (60Hz) German Spanish French Portuguese Italian Polish	ted tion on Fran ted tion on Fra on on Fran Iount (opti	ne B, manda ume B only) ames B-E, n nes B-E onl on on Fran	atory on Fra nandatory o ly) nes C-E only	n Frame I	2)	D-F)				F 0	P W T	00	B D E F G I L		
System Board Mechanical Style Special Option Destination	Not fitted (option Filter fitted (option Not Fitted System Board Fit Panel Mount (opti Through Panel M None Documented spee English (50Hz) English (50Hz) German Spanish French Portuguese Italian Polish Swedish	aal on Fran onal on Fra ted tion on Fra lount (opti cial option	ne B, manda ume B only) ames B-E, on on on Fram as (01-99) (1	atory on Fra nandatory o ly) nes C-E only	n Frame I	2)	D-F)				F 0	P W T	00	B D E F G I		
System Board Mechanical Style Special Option Destination	Not fitted (option Filter fitted (option Not Fitted System Board Fit Panel Mount (option Wall Mount (option Through Panel M None Documented speet English (50Hz) German Spanish French Portuguese Italian Polish Swedish None (option on	al on Fran onal on Fra ted tion on Fra on on Fra lount (opti cial option	ne B, manda ime B only) ames B-E, n nes B-E onl on on Fram as (01-99) (1	atory on Fra nandatory o ly) nes C-E only Refer to local	n Frame I	2)	D-F)				F 0	P W T	00	B D E F G I L		
System Board Mechanical Style Special Option Destination	Not fitted (option F ilter fitted (option F ilter fitted (option Not Fitted System Board Fitt P anel Mount (opti T hrough Panel M None Documented spe English (50Hz) English (60Hz) German Spanish French Portuguese Italian Polish Swedish None (option on 6901 Keypad Fitte None	al on Fran onal on Fra ted tion on Fra on on Fra lount (opti cial option	ne B, manda ime B only) ames B-E, n nes B-E onl on on Fram as (01-99) (1	atory on Fra nandatory o ly) nes C-E only Refer to local	n Frame I	2)	D-F)				F 0	P W T	00	B D E F G I L	04	
System Board Mechanical Style Special Option Destination Keypad Speed Feedback	Not fitted (option F ilter fitted (option F ilter fitted (option Not Fitted System Board Fitt P anel Mount (opti T hrough Panel M None Documented spe English (50Hz) English (60Hz) German Spanish French Portuguese Italian Polish Swedish None (option on 6901 Keypad Fitte None HTTL Encoder	al on Fran onal on Fra ted tion on Fra on on Fra lount (opti cial option	ne B, manda ime B only) ames B-E, n nes B-E onl on on Fram as (01-99) (1	atory on Fra nandatory o ly) nes C-E only Refer to local	n Frame I	2)	D-F)				F 0	P W T	00	B D E F G I L	04	03
System Board Mechanical Style Special Option Destination Keypad Speed Feedback	Not fitted (option Filter fitted (option Not Fitted System Board Fit Panel Mount (option Mall Mount (option Through Panel Mount None Documented spee English (50Hz) English (60Hz) German Spanish French Portuguese Italian Polish Swedish None (option on 6901 Keypad Fitte None HTTL Encoder None	al on Fran onal on Fra ted tion on Fra on on Fra lount (opti cial option	ne B, manda ime B only) ames B-E, n nes B-E onl on on Fram as (01-99) (1	atory on Fra nandatory o ly) nes C-E only Refer to local	n Frame I	2)	D-F)				F 0	P W T	00	B D E F G I L	04	
System Board Mechanical Style Special Option Destination Keypad Speed Feedback	Not fitted (option Filter fitted (option Not Fitted System Board Fit Panel Mount (opti Through Panel M None Documented spee English (50Hz) English (60Hz) German Spanish French Portuguese Italian Polish Swedish None (option on 6901 Keypad Fitte None HTTL Encoder None ControlNet	al on Fran onal on Fra ted tion on Fra on on Fra lount (opti cial option	ne B, manda ime B only) ames B-E, n nes B-E onl on on Fram as (01-99) (1	atory on Fra nandatory o ly) nes C-E only Refer to local	n Frame I	2)	D-F)				F 0	P W T	00	B D E F G I L	04	
System Board Mechanical Style Special Option Destination Keypad Speed Feedback	Not fitted (option Filter fitted (option Not Fitted System Board Fit Panel Mount (option Through Panel M None Documented spee English (50Hz) English (60Hz) German Spanish French Portuguese Italian Polish Swedish None (option on 6901 Keypad Fitte None HTTL Encoder None ControlNet DeviceNet	al on Fran onal on Fra ted tion on Fra on on Fra lount (opti cial option	ne B, manda ime B only) ames B-E, n nes B-E onl on on Fram as (01-99) (1	atory on Fra nandatory o ly) nes C-E only Refer to local	n Frame I	2)	D-F)				F 0	P W T	00	B D E F G I L	04	
System Board Mechanical Style Special Option Destination Keypad Speed Feedback	Not fitted (option Filter fitted (option Mot Fitted System Board Fit Panel Mount (option Mall Mount (option Through Panel M None Documented speet English (50Hz) German Spanish French Portuguese Italian Polish Swedish None (option on 6901 Keypad Fitte None HTTL Encoder None ControlNet DeviceNet Ethernet	al on Fran onal on Fra ted tion on Fra on on Fra fount (opti cial option Frames B- ed (option	ne B, manda ime B only) ames B-E, n nes B-E onl on on Fram as (01-99) (1	atory on Fra nandatory o ly) nes C-E only Refer to local	n Frame I	2)	D-F)				F 0	P W T	00	B D E F G I L	04	
System Board Mechanical Style Special Option Destination Keypad Speed Feedback	Not fitted (option Filter fitted (option Filter fitted (option Not Fitted System Board Fit Panel Mount (option Mone Documented speet English (50Hz) English (60Hz) German Spanish French Portuguese Italian Polish Swedish None (option on 6901 Keypad Fitto None HTTL Encoder None ControlNet DeviceNet Ethermet Johnson Metasys	al on Fran onal on Fra ted tion on Fra on on Fra fount (opti cial option Frames B- ed (option	ne B, manda ime B only) ames B-E, n nes B-E onl on on Fram as (01-99) (1	atory on Fra nandatory o ly) nes C-E only Refer to local	n Frame I	2)	D-F)				F 0	P W T	00	B D E F G I L	04	
System Board Mechanical Style Special Option Destination Keypad Speed Feedback	Not fitted (option Filter fitted (option Not Fitted System Board Fit Panel Mount (option Mall Mount (option Mone Documented speet English (50Hz) English (50Hz) English (50Hz) German Spanish French Portuguese Italian Polish Swedish None (option on 6901 Keypad Fitter None HTTL Encoder None ControlNet DeviceNet Ethernet Johnson Metasys Link	al on Fran onal on Fra ted tion on Fra on on Fra fount (opti cial option Frames B- ed (option	ne B, manda ime B only) ames B-E, n nes B-E onl on on Fram as (01-99) (1	atory on Fra nandatory o ly) nes C-E only Refer to local	n Frame I	2)	D-F)				F 0	P W T	00	B D E F G I L	04	
System Board Mechanical Style Special Option	Not fitted (option Filter fitted (option Not Fitted System Board Fit Panel Mount (option Mall Mount (option Through Panel Mount None Documented spee English (50Hz) English (60Hz) German Spanish French Portuguese Italian Polish Swedish None (option on 6901 Keypad Fitte None HTTL Encoder None ControlNet DeviceNet Ethernet Johnson Metasys Link Modbus +	al on Fran onal on Fra ted tion on Fra on on Fra fount (opti cial option Frames B- ed (option	ne B, manda ime B only) ames B-E, n nes B-E onl on on Fram as (01-99) (1	atory on Fra nandatory o ly) nes C-E only Refer to local	n Frame I	2)	D-F)				F 0	P W T	00	B D E F G I L	04	
System Board Mechanical Style Special Option Destination Keypad Speed Feedback	Not fitted (option Filter fitted (option Not Fitted System Board Fit Panel Mount (option Mall Mount (option Mone Documented speet English (50Hz) English (50Hz) English (50Hz) German Spanish French Portuguese Italian Polish Swedish None (option on 6901 Keypad Fitter None HTTL Encoder None ControlNet DeviceNet Ethernet Johnson Metasys Link	al on Fran onal on Fra ted tion on Fra on on Fra fount (opti cial option Frames B- ed (option	ne B, manda ime B only) ames B-E, n nes B-E onl on on Fram as (01-99) (1	atory on Fra nandatory o ly) nes C-E only Refer to local	n Frame I	2)	D-F)				F 0	P W T	00	B D E F G I L	04	
System Board Mechanical Style Special Option Destination Keypad Speed Feedback	Not fitted (option Filter fitted (option Not Fitted System Board Fit Panel Mount (option Mone Documented spee English (50Hz) English (60Hz) German Spanish French Portuguese Italian Polish Swedish None (option on 6901 Keypad Fitte None HTTL Encoder None ControlNet DeviceNet Ethernet Johnson Metasys Link Modbus + CaNOpen	al on Fran onal on Fran ted tion on Fran lount (opti cial option	ne B, manda ime B only) ames B-E, n nes B-E onl on on Fram as (01-99) (1	atory on Fra nandatory o ly) nes C-E only Refer to local	n Frame I	2)	D-F)				F 0	P W T	00	B D E F G I L	04	
System Board Mechanical Style Special Option Destination Keypad Speed Feedback	Not fitted (option Filter fitted (option Not Fitted System Board Fit Panel Mount (option Mall Mount (option Through Panel Mount None Documented spee English (50Hz) English (60Hz) German Spanish French Portuguese Italian Polish Swedish None (option on 6901 Keypad Fitte None HTTL Encoder None ControlNet DeviceNet Ethernet Johnson Metasys Link Modbus + CaNOpen Profibus	al on Fran onal on Fran ted tion on Fran lount (opti cial option	ne B, manda ime B only) ames B-E, n nes B-E onl on on Fram as (01-99) (1	atory on Fra nandatory o ly) nes C-E only Refer to local	n Frame I	2)	D-F)				F 0	P W T	00	B D E F G I L	04	

8-4 Technical Specifications

US Model Number & Legacy Product Codes

The unit is fully identified using a twelve block alphanumeric code which records how the drive was calibrated, and its various settings when dispatched from the factory.

The Product Code appears as the "Model No.". Each block of the Product Code is identified as below:

Typical example:

690PD/0110/400/0011/GR/0/PROF/BO/0/0

This is a Frame D 690+, 11kW, rated at 400V supply, standard livery, IP20, with Keypad fitted displaying German language, no encoder feedback option, Profibus Option card fitted and braking option fitted.

Block	Variable	Number (Europe) Description	
No.			
1	690PB	Generic product	(C690PB = Conformal Coated PCB's)
2	XXXX	Four numbers sp	ecifying the power output:
		0007 = 0.75kW	0015 = 1.5kW $0022 = 2.2$ kW $0040 = 4.0$ kW
		0055 = 5.5kW	0075 = 7.5kW
3	XXX	400 380 to	240V (±10%) 50/60Hz 460V (±10%) 50/60Hz 502V (±10%) 50/60Hz
	N/		500V (±10%) 50/60Hz
4	Х	,	ring the supply phases
		1 = Single 3 = Three	
5	Х	One character sp	pecifying the use of the Internal RFI Filter:
		F = Internal Sup 0 = Not fitted	ply Filter fitted
6	XXXX		fying mechanical package including livery and mechanical nd any keypad (see Note):
		First two digits	Livery
		00 05 01-04,06-99	Standard Parker Hannifin Manufacturing livery Distributor livery Defined customer liveries
		Third digit	Mechanical packaging style
		1	Standard (IP20), protected panel mounting with gland
		2	plate IP20 and falling dirt protection (UL Type 1)
		Fourth digit	Keypad
		0	No Keypad 6901 Keypad fitted
7	XX		specifying the user interface language including operating characters are the same as used for computer keyboard
			FRFrench (50Hz)GRGerman (50Hz)ITItalian (50Hz)PLPolish (50Hz)POPortuguese (50Hz)SPSpanish (50Hz)SWSwedish (50Hz)UKEnglish (50Hz)USEnglish (60Hz)

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Frame	B – Model N	lumber (Europe)
Block No.	Variable	Description
8	Х	Characters specifying any feedback option installed over and above the standard features of the product.
		0 No option fitted HTTL 605B encoder card fitted behind the Keypad/Tech Box Option site
9	Х	Characters specifying the communications option (see Note):
		0 No technology option fitted EI00 RS485 Comms option PROF Profibus protocol LINK LINK protocol DNET DeviceNet
10	Х	Characters specifying the comms board fitted internally.
		0 Not fitted
11	Х	Characters specifying the system board fitted internally. 0 Not fitted SHTTL Fitted – Dual Encoder Option
12	Х	Digits specifying engineering special options. 0 No special option
Note: 7	The Keypad a	and the Comms Technology Box occupy the same physical position in the

product and are therefore mutually exclusive.

		Model Number (E	urope)		
Block No.	Variable	Description			
1	690PC	Characters speci	fying the generic pro	duct:	
	690PD	(C690PC = Con	formal Coated PCB's	s)	
	690PE 690PF		690PD = Frame D		
2	XXXX	Four numbers sp	ecifying the power o	utput:	
		Frame C	Frame D	Frame E	Frame F
		0075 = 7.5 kW 0110 = 11 kW	0110 = 11kW 0150 = 15kW 0180 = 18.5kW 0220 = 22kW 0300 = 30kW	0300 = 30kW 0370 = 37kW	0370 = 37kW 0450 = 45kW
3	XXX	Three numbers s	pecifying the nomino	al input voltage ra	ting:
		230 400 500	220 to 240V (±109 380 to 460V (±109 380 to 500V (±109	6) 50/60Hz	

8-6 Technical Specifications

Frame	C, D, E, F –	Model Number (Europe)
Block No.	Variable	Description
4	XXXX	Four digits specifying the mechanical package including livery and mechanical package style:
		First two digits Livery
		00 Standard Parker Hannifin Manufacturing livery 05 Distributor livery (01-04, 06-99 - Defined customer liveries)
		Third digit Mechanical packaging style
		 Standard (IP20), protected panel mounting with gland plate (IP00 or IP20 only for Frame F)
		 IP20 and falling dirt protection (UL Type 1) Enclosed (IP20), with through-panel mounting kit
		Fourth digit Keypad
		0 No Keypad 1 6901 Keypad option fitted
5	XX	Two characters specifying the user interface language including operating frequency. These characters are the same as used for computer keyboard specifications:
		FRFrench (50Hz)GRGerman (50Hz)ITItalian (50Hz)PLPolish (50Hz)POPortuguese (50Hz)SPSpanish (50Hz)SWSwedish (50Hz)UKEnglish (50Hz)USEnglish (60Hz)
6	Х	Characters specifying the speed feedback option (Technology Box 1) installed over and above the standard features of the product:
		0 No additional option fitted HTTL Wire ended encoder feedback HTTL
7	Х	Characters specifying the communications option (Technology Box 2):
		0 No technology option fitted EI00 RS485 Comms option PROF Profibus protocol LINK LINK protocol DNET DeviceNet
8	Х	Characters specifying the Comms board fitted internally: 0 Not fitted
9	Х	Characters specifying the system board fitted internally:
		0 Not fitted SHTTL Fitted – Dual Encoder Option
10	Х	Characters specifying the braking option:
		0 Brake power switch not fitted (Frames D, E & F only) BO Brake power switch fitted - no braking resistors supplied Note: External braking resistors should be specified and ordered separately.
11	Х	Characters specifying the auxiliary mains power supply.
		0 No auxiliary supply required (Frame C – E) 115 110 to 120V (±10%), 50/60Hz (Frame F) 230 220 to 240V (±10%), 50/60Hz (Frame F)
12	Х	Digits specifying engineering special options: 0 No special option

Technical Specifications 8-7

Catalog Number (North America)

The unit is identified using a 6 block alphanumeric code which records how the drive was calibrated, and its various settings when dispatched from the factory.

The Product Code appears as the "Cat No.". Each block of the Product Code is identified as below:

Typical example:

690+0010/460/1BN

This is a 10Hp 690+ Frame C, rated at 460 Volts supply, NEMA 1, Braking option fitted, No System board.

Frame	B, C, D, E, I	F – Catalog Number (North America)
Block No.	Variable	Description
1	690+	Generic product (C690+ = Conformal Coated PCB's)
2	Х	Characters specifying the power output in Hp:
		Frame B Frame D Frame F
		$\begin{array}{llllllllllllllllllllllllllllllllllll$
		Frame C $0040 = 40 Hp$ $0007 = 7.5 Hp$ $0050 = 50 Hp$ $0010 = 10 Hp$ $0060 = 60 Hp$
		0015 = 15Hp 0020C = 20Hp
3	XXX	Three numbers specifying the nominal input voltage rating:
		230 230 (±10%) 50/60Hz 460 380 to 460V (±10%) 50/60Hz
4	XXX	Enclosure options:
		1 - Nema 1 (IP20 and falling dirt protection (UL Type 1) C - Chassis (IP20 only)
5	XX	Characters specifying the braking option:
		N Brake power switch not fitted (Frames D & E only) B Brake power switch fitted - no braking resistors supplied Note: External braking resistors should be specified and ordered separately.
6	XX	Characters specifying the systems board:
		N Not fitted
		S System board fitted