

# PowerFlex 400 Packaged Product Overview

## Description

The Configured Drives program allows users to create Disconnect and Contactor Bypass packages based on their specific needs and requirements. A limited factory installed option set is offered to optimize package configurations while providing a versatile and cost-effective solution. Configurations feature wall mount construction and are available in different NEMA/UL ratings.

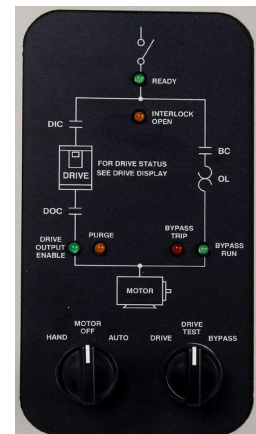
## Main Input Disconnect/Circuit Breaker

- Door interlocked main input device
  - Disconnect switch with Class J fuses
  - Thermal magnetic molded case circuit breaker
- High AIC Rating for direct connection to high capacity power distribution lines
  - 100,000 AIC rating with fused disconnect
  - 65,000 AIC rating with circuit breaker



## 3 Contactor Full Feature Bypass with Disconnect/Circuit Breaker

- Door interlocked main input device
  - Disconnect switch with Class J fuses
  - Thermal magnetic molded case circuit breaker
- 3 contactor manual bypass with Drive/Drive Test/Bypass modes
- Bypass control and status display with indicating LEDs
- Class 20 motor overload protection in bypass circuit
- Selector switch for Hand/Off/Auto
- Remote start capability when in bypass mode

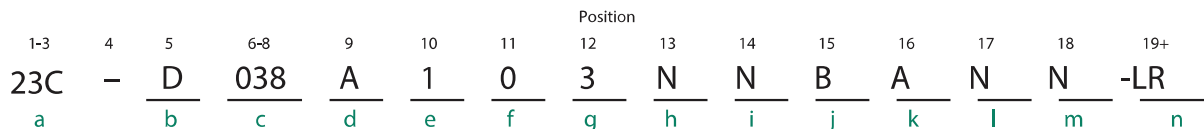


## 3 Contactor Basic Bypass with Disconnect

- Door interlocked main input disconnect
- 3 contactor manual bypass with Drive/Off/Drive Test/Bypass modes
- User-powered (24V AC) "Drive/Bypass" enable relay is provided for remote shut down



# Catalog Number Explanation



**a**

Drive	
Code	Type
23C	PowerFlex 400

**b**

Voltage Rating		
Code	Voltage	Ph.
X	208V AC	3
D	480V AC	3

**c1**

Rating			
208V, 60Hz Input			
Code	Amps <sup>(1)</sup>	kW (Hp)	Frame
012	12	2.2 (3.0)	C
017	16.8	3.7 (5.0)	C
024	24	5.5 (7.5)	C
033	30.8	7.5 (10)	C
049	46.2	11 (15)	D
065	64	15 (20)	D
075	75	18.5 (25)	D
090	88	22 (30)	D
120	114	30 (40)	E
145	143	37 (50)	E

<sup>(1)</sup> Configured drive amp ratings may differ from stand-alone drive ratings. Configured drives sized per NEC motor amps.

**c2**

Rating			
460V, 60Hz Input			
Code	Amps <sup>(1)</sup>	kW (Hp)	Frame
6P0	4.8	2.2 (3.0)	C
010	7.6	4.0 (5.0)	C
012	11	5.5 (7.5)	C
017	14	7.5 (10)	C
022	21	11 (15)	C
030	27	15 (20)	C
038	34	18.5 (25)	D
045	40	22 (30)	D
060	52	30 (40)	D
072	65	37 (50)	E
088	77	45 (60)	E
105	96	55 (75)	E
142	124	75 (100)	E
170	156	90 (125)	F
208	180	110 (150)	F
260	240	132 (200)	G
310	302	160 (250)	G
370	361	200 (300)	H
460	414	250 (350)	H

<sup>(1)</sup> Configured amp ratings may differ from stand-alone drive ratings. Configured drives sized per NEC motor amps.

**d**

Enclosure	
Code	Enclosure
A	NEMA/UL Type 1
H	NEMA/UL Type 12 with Fan and Filter
X	NEMA/UL Type 3R <sup>(1)</sup>
E	NEMA/UL Type 4 <sup>(1)</sup>

<sup>(1)</sup> Designed for maximum ambient temperature of 40° C with no direct sunlight exposure.

**e**

HIM	
Code	Interface Module
1	Fixed Keypad

**f**

Emission Class	
Code	Rating
0	Not Filtered

**g**

Version	
Code	Version
3	RS485
B	BACnet Adapter
C	ControlNet Adapter
D	DeviceNet Adapter
E	EtherNet/IP Adapter
L	LonWorks Adapter
P	PROFIBUS DP Adapter

**h**

Code	Rating
N	Reserved

**i**

Code	Rating
N	Reserved

**j**

Package	
Code	Description
A	Main Input Disconnect
B	3 Contactor Full Feature Bypass with Disconnect
C	3 Contactor Basic Bypass with Disconnect <sup>(1)</sup>
M	Main Input Circuit Breaker <sup>(2)</sup>
N	3 Contactor Full Feature Bypass with Circuit Breaker

<sup>(1)</sup> Available only with NEMA/UL Type 1 enclosure (Position d = A).

<sup>(2)</sup> Available with all ratings in NEMA/UL Type 12, 3R, or 4 enclosures (Position d = H, X, or E) and 160-250 kW (250-350 Hp) ratings in NEMA/UL Type 1 enclosures (Position d = A).

**k**

Control	
Code	Description
A	Single Motor

**l**

Code	Rating
N	Reserved

**m**

Code	Rating
N	Reserved

**n**

Options	
Code	Description
-LR	3% Input Line Reactor <sup>(1)</sup>
-E5	Space Heater - Local Power <sup>(2)</sup>

<sup>(1)</sup> 3% Input Line Reactor not available for all package styles. Consult product selection tables for additional detail.

<sup>(2)</sup> Available with NEMA/UL Type 3R and 4 enclosures only.

## PowerFlex 400 NEMA/UL Type 1 Enclosure (Position d = A)

### 208V AC, Main Input Disconnect

Drive Ratings			Frame Size	Fused Disconnect (Position j = A)	
kW	HP	Output Current Amps (40°C)		Catalog No.	
2.2	3.0	12	C	23C-X012A103NNAANN	
3.7	5.0	16.8	C	23C-X017A103NNAANN	
5.5	7.5	24	C	23C-X024A103NNAANN	
7.5	10	30.8	C	23C-X033A103NNAANN	
11	15	46.2	D	23C-X049A103NNAANN	
15	20	64	D	23C-X065A103NNAANN	
18.5	25	75	D	23C-X075A103NNAANN	
22	30	88	D	23C-X090A103NNAANN	
30	40	114	E	23C-X120A103NNAANN	
37	50	143	E	23C-X145A103NNAANN	

### 208V AC, 3 Contactor Full Feature Bypass with Disconnect

Drive Ratings			Frame Size	Fused Disconnect (Position j = B)	
kW	HP	Output Current Amps (40°C)		Catalog No.	
2.2	3.0	12	C	23C-X012A103NNBANN	
3.7	5.0	16.8	C	23C-X017A103NNBANN	
5.5	7.5	24	C	23C-X024A103NNBANN	
7.5	10	30.8	C	23C-X033A103NNBANN	
11	15	46.2	D	23C-X049A103NNBANN	
15	20	64	D	23C-X065A103NNBANN	
18.5	25	75	D	23C-X075A103NNBANN	
22	30	88	D	23C-X090A103NNBANN	
30	40	114	E	23C-X120A103NNBANN	
37	50	143	E	23C-X145A103NNBANN	

### 460V AC, Main Input Disconnect/Circuit Breaker

Drive Ratings			Frame Size	Fused Disconnect (Position j = A)	Circuit Breaker (Position j = M)
kW	HP	Output Current Amps (40°C)		Catalog No.	Catalog No.
2.2	3.0	4.8	C	23C-D6P0A103NNAANN	-
4.0	5.0	7.6	C	23C-D010A103NNAANN	-
5.5	7.5	11	C	23C-D012A103NNAANN	-
7.5	10	14	C	23C-D017A103NNAANN	-
11	15	21	C	23C-D022A103NNAANN	-
15	20	27	C	23C-D030A103NNAANN	-
18.5	25	34	D	23C-D038A103NNAANN	-
22	30	40	D	23C-D045A103NNAANN	-
30	40	52	D	23C-D060A103NNAANN	-
37	50	65	E	23C-D072A103NNAANN	-
45	60	77	E	23C-D088A103NNAANN	-
55	75	96	E	23C-D105A103NNAANN	-
75	100	124	E	23C-D142A103NNAANN	-
90	125	156	F	23C-D170A103NNAANN	-
110	150	180	F	23C-D208A103NNAANN	-
132	200	240	G	23C-D260A103NNAANN	-
160	250	302	G	-	23C-D310A103NMMANN
200	300	361	H	-	23C-D370A103NMMANN
250	350	414	H	-	23C-D460A103NMMANN

## 460V AC, 3 Contactor Full Feature Bypass with Disconnect/Circuit Breaker

Drive Ratings			Frame Size	Fused Disconnect (Position j = B)	Circuit Breaker (Position j = N)
kW	HP	Output Current Amps (40°C)		Catalog No.	Catalog No.
2.2	3.0	4.8	C	23C-D6P0A103NNBANN	-
4.0	5.0	7.6	C	23C-D010A103NNBANN	-
5.5	7.5	11	C	23C-D012A103NNBANN	-
7.5	10	14	C	23C-D017A103NNBANN	-
11	15	21	C	23C-D022A103NNBANN	-
15	20	27	C	23C-D030A103NNBANN	-
18.5	25	34	D	23C-D038A103NNBANN	-
22	30	40	D	23C-D045A103NNBANN	-
30	40	52	D	23C-D060A103NNBANN	-
37	50	65	E	23C-D072A103NNBANN	-
45	60	77	E	23C-D088A103NNBANN	-
55	75	96	E	23C-D105A103NNBANN	-
75	100	124	E	23C-D142A103NNBANN	-
90	125	156	F	23C-D170A103NNBANN	-
110	150	180	F	23C-D208A103NNBANN	-
132	200	240	G	23C-D260A103NNBANN	-
160	250	302	G	-	23C-D310A103NNNANN
200	300	361	H	-	23C-D370A103NNNANN
250	350	414	H	-	23C-D460A103NNNANN

## 460V AC, 3 Contactor Basic Bypass with Disconnect

Drive Ratings			Frame Size	Fused Disconnect (Position j = C)
kW	HP	Output Current Amps (40°C)		Catalog No.
2.2	3.0	4.8	C	23C-D6P0A103NNCANN
4.0	5.0	7.6	C	23C-D010A103NNCANN
5.5	7.5	11	C	23C-D012A103NNCANN
7.5	10	14	C	23C-D017A103NNCANN
11	15	21	C	23C-D022A103NNCANN
15	20	27	C	23C-D030A103NNCANN
18.5	25	34	D	23C-D038A103NNCANN
22	30	40	D	23C-D045A103NNCANN
30	40	52	D	23C-D060A103NNCANN
37	50	65	E	23C-D072A103NNCANN
45	60	77	E	23C-D088A103NNCANN
55	75	96	E	23C-D105A103NNCANN
75	100	124	E	23C-D142A103NNCANN