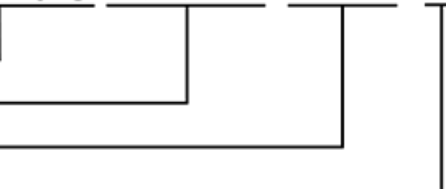


# CAST-X 3000 Circulation Heater Part Numbering System

**BX17E6G AAAA-BBB-D**

BASE CIRCULATION HEATER  
 HEATER POWER  
 ENCLOSURES & SENSORS  
 METRIC MOUNTINGS



Building a CAST-X 3000 Part Number:

Use the tables below to build each section of your CAST-X 3000. After assigning letters/numbers for each applicable section, you will have a complete part number, ready to quote.

For assistance, contact CAS directly.

VOLTAGE, POWER, CIRCUIT TYPE				
<i>Volts refers to line volts (V<sub>L</sub>). Amps refers to line current (I<sub>L</sub>).</i>				
Designation "AAA"	Circuit Type	Volts (V)	Watts (kW)	Amps (A) (per circuit)
012	THREE-PHASE WYE	480	N/A	
		415	14.8	20.7
		400	13.8	19.9
		380	12.4	18.9
		240	5.0	12.0
		208	3.7	10.4
021	THREE-PHASE DELTA	480	15.0	18.0
		415	11.2	15.6
		400	10.4	15.0
		380	9.4	14.3
		240	3.7	9.0
		208	2.8	7.8
022	THREE-PHASE WYE	480	5.0	6.0
		415	3.7	5.2
		400	3.4	5.0
		380	3.1	4.8
023	SINGLE PHASE	480	N/A	
		415	11.2	27.0
		400	10.4	26.0
		380	9.4	24.7
		240	3.7	15.6
		208	2.8	13.5
031	THREE-PHASE DELTA	380V TO 480V NOT AVAILABLE		
		240	7.2	17.3
		208	5.4	15.0
		480	9.6	11.6

ENCLOSURE AND THERMOSTAT		
<i>The first digit corresponds to the following: 1. Standoff mounting required 2. Pipe nipple mounting required</i>		
Designation "BB"	Thermostat	Enclosure
11	NO THERMOSTAT	NEMA 1
12	NO THERMOSTAT	NEMA 4
21	NO THERMOSTAT	NEMA 7
22	32° - 250°F (0° - 121°C) THERMOSTAT	NEMA 7
23	0° - 100°F (-17° - 38°C) THERMOSTAT	NEMA 7
24	NO THERMOSTAT	ATEX
25	DOUBLE POLE SINGLE THROW (DPST) THERMOSTAT	ATEX

SNAP ACTION HIGH LIMITS SWITCHES	
<i>Only heaters with NEMA 7 or ATEX enclosures can accommodate high limit switches</i>	
Designation "C"	Switch
0	NONE
1	AUTO RESET, 200°F (93°C)
2	AUTO RESET, 250°F (121°C)
3	AUTO RESET, 425°F (218°C)
4	AUTO RESET, 500°F (260°C)
5	MANUAL RESET, 280°F (126°C)
6	MANUAL RESET, 185°F (85°C)
7	MANUAL RESET, 150°F (65°C)
8	MANUAL RESET, 280°F (126°C) WITH TEFLON LEADS

032	THREE-PHASE WYE	415	7.2	10.0
		400	6.7	9.6
		380	6.0	9.1
		240	2.4	5.8
033	SINGLE PHASE	380V TO 480V NOT AVAILABLE		
		240	7.2	30.0
		208	5.4	26.0
041	THREE-PHASE DELTA	380V TO 480V NOT AVAILABLE		
		240	10.7	25.7
		208	8.0	22.2
042	THREE-PHASE WYE	480	14.2	17.1
		415	10.6	14.8
		400	9.9	14.3
		380	8.9	13.5
		240	3.6	8.6
		208	2.7	7.4
051	THREE-PHASE DELTA	480	N/A	
		415	12.0	16.6
		400	11.1	16.0
		380	10.0	15.2
		240	4.0	9.6
		208	3	8.3
		480	5.3	6.4
052	THREE-PHASE WYE	415	4.0	5.6
		400	3.7	5.4
		380	3.3	5.1
		480	N/A	
053	SINGLE PHASE	415	12.0	28.8
		400	11.1	27.8
		380	10.0	26.4
		240	4.0	16.7
		208	3.0	14.4
061	THREE-PHASE DELTA	480	4.0	4.8
		415	3.0	4.2
		400	2.8	4.0
		380	2.5	3.8
063	SINGLE PHASE	480	4.0	8.3
		415	3.0	7.2
		400	2.8	6.9
		380	2.5	6.6

THERMOCOUPLES	
<i>All thermocouples are ungrounded, for optimal performance</i>	
Designation "DD"	Description
0	NONE
1	SINGLE J-TYPE THERMOCOUPLE IN THERMOWELL
2	DUAL J-TYPE THERMOCOUPLES IN THERMOWELL
3	SINGLE K-TYPE THERMOCOUPLE IN THERMOWELL
4	DUAL K-TYPE THERMOCOUPLES IN THERMOWELL
NOTE: The part number has two "D" designations because the unit has two thermowells. Always put the lowest designation number first in the part number to avoid duplicate configurations. e.g. BX25-xxx-xx-x 1 2 x instead of BX25-xxx-xx-x 2 1 x	

TUBING		
<i>All tubes are 316L Stainless Steel, 5/8" (15.9 mm) OD X .065" (1.65 mm) WALL. Option 1 is the standard option.</i>		
Designation "E"	Tube Description	Number of Tubes
1	DUAL TUBE (STANDARD OPTION)	2
2	DUAL TUBE ELECTROPOLISHED	2
3	DUAL TUBE PASSIVATED	2
4	SINGLE TUBE	1
5	SINGLE TUBE ELECTROPOLISHED	1
6	SINGLE TUBE PASSIVATED	1

MACHINING	
Designation "F"	Mounting Hole Description
1	STANDARD 3/8"-16 MOUNTING HOLES
2	STANDARD M10 X 1.5 MOUNTING HOLES

CUSTOM DESIGNS & COMPONENTS	
<i>CAS offers several options for special tubes, sensors, and finishes. For these options, please call a CAS Representative for a quote.</i>	
Options	
SPECIAL ALLOY TUBES	SPECIAL HIGH-LIMIT SWITCHES OR RTDs
THICK WALL TUBES	NPT FITTINGS

ACCESSORIES	
Part Number	Description
274-55-6-8	TUBE UNION COMPRESSION FITTING (5/8" / .625 INCH) / PAIR (SHIPPED LOOSE)
307-0-22-1	INSULATING JACKET: TEMP. LIMIT: 986°F / 530°C