

# NEMA Full Voltage Power Devices

## NEMA Rated Full Voltage Starters - Magnetic

### CR306 Magnetic Starters

Nonreversing, Non-combination, Open, NEMA Type 1, 3R, 12, 4/4X

NEMA Sizes 1-6 with Solid State Overload Relay

600 Volts Maximum 50/60 Hertz

#### CR306, Three-Phase Magnetic Starters

NEMA Size	Continuous Ampere Rating <sup>1</sup>	Voltage	Horsepower	Open Type	NEMA Type 1	NEMA Type 3R	NEMA Type 12 <sup>2</sup>	NEMA Type 4/4X
				Product Number CR306	Product Number CR306	Product Number CR306	Product Number CR306	Product Number CR306
1	27	Separate Control — 115-120V		CX*002	CX*102	CX*602	CX*202 <sup>1</sup>	CX*402
1	27	200-208	7 1/2	CX*023	CX*123	CX*623	CX*223 <sup>1</sup>	CX*423
1	27	230-240	7 1/2	CX*003	CX*103 <sup>2</sup>	CX*603	CX*203 <sup>1</sup>	CX*403
1	27	460-480	10	CX*004	CX*104	CX*604	CX*204 <sup>1</sup>	CX*404
1	27	575-600	10	CX*005	CX*105	CX*605	CX*205 <sup>1</sup>	CX*405
2	45	Separate Control — 115-120V		DX*002	DX*102	DX*602	DX*202 <sup>1</sup>	DX*402
2	45	200-208	10	DX*023	DX*123	DX*623	DX*223 <sup>1</sup>	DX*423
2	45	230-240	15	DX*003	DX*103	DX*603	DX*203 <sup>1</sup>	DX*403
2	45	460-480	25	DX*004	DX*104	DX*604	DX*204 <sup>1</sup>	DX*404
2	45	575-600	25	DX*005	DX*105	DX*605	DX*205 <sup>1</sup>	DX*405
3	90	Separate Control — 115-120V		EX*002	EX*102	EX*602	EX*202 <sup>1</sup>	EX*402
3	90	200-208	25	EX*023	EX*123	EX*623	EX*223 <sup>1</sup>	EX*423
3	90	230-240	30	EX*003	EX*103	EX*603	EX*203 <sup>1</sup>	EX*403
3	90	460-480	50	EX*004	EX*104	EX*604	EX*204 <sup>1</sup>	EX*404
3	90	575-600	50	EX*005	EX*105	EX*605	EX*205 <sup>1</sup>	EX*405
4	135	Separate Control — 115-120V		FX*002	FX*102	FX*602	FX*202 <sup>1</sup>	FX*402
4	135	200-208	40	FX*023	FX*123	FX*623	FX*223 <sup>1</sup>	FX*423
4	135	230-240	50	FX*003	FX*103	FX*603	FX*203 <sup>1</sup>	FX*403
4	135	460-480	100	FX*004	FX*104	FX*604	FX*204 <sup>1</sup>	FX*404
4	135	575-600	100	FX*005	FX*105	FX*605	FX*205 <sup>1</sup>	FX*405
5	270	Separate Control — 115-120V		GX*002	GX*102	GX*602	GX*202 <sup>1</sup>	GX*402
5	270	200-208	75	GX*023	GX*123	GX*623	GX*223 <sup>1</sup>	GX*423
5	270	230-240	100	GX*003	GX*103	GX*603	GX*203 <sup>1</sup>	GX*403
5	270	460-480	200	GX*004	GX*104	GX*604	GX*204 <sup>1</sup>	GX*404
5	270	575-600	200	GX*005	GX*105	GX*605	GX*205 <sup>1</sup>	GX*405
6	540	Separate Control — 115-120V		HX*002	HX*102	HX*602	HX*202 <sup>1</sup>	HX*402
6	540	200-208	150	HX*023	HX*123	HX*623	HX*223 <sup>1</sup>	HX*423
6	540	230-240	200	HX*003	HX*103	HX*603	HX*203 <sup>1</sup>	HX*403
6	540	460-480	400	HX*004	HX*104	HX*604	HX*204 <sup>1</sup>	HX*404
6	540	575-600	400	HX*005	HX*105	HX*605	HX*205 <sup>1</sup>	HX*405

<sup>1</sup>Motor full load current should not exceed continuous ampere rating of the starter.

<sup>2</sup>External reset not included on standard listed forms.

#### Full Load Current Selection Table

For continuous rated motors, with a service factor of 1.15 to 1.25, select the heater with maximum motor Amperes equal to or immediately greater than the motor full-load current (provides a maximum of 125 percent protection). For continuous rated motors with no service factor, multiply the full-load current of the motor by 0.90 and use this value to select the heater.

Overload Range for Solid State Starters	NEMA Size	Fuse Max.	Breaker Max.	Insert Digit in Product Number
0.4-0.85	00-1	3	15	C
0.8-1.7	00-1	6	15	D
1.6-3.4	00-1	12	15	E
3.2-6.8	00-1	25	25	F
6.5-13.5	00-1	50	50	G
13-27	00-1	100	100	H
6.5-13.5	2	50	50	G
13-27	2	100	100	H
25-50	2	200	200	J
17-35	3 & 4	125	125	K
35-70	3 & 4	250	250	L
65-135	3 & 4	500	400	M
35-70	5			N
65-135	5	500	400	P
130-270	5	600	800	Q
130-270	6	1200	800	S
260-540	6	1200	800	T

