

HEAVY DUTY MOTOR STARTERS WITH AMBIENT COMPENSATED BIMETAL OVERLOAD



Features:

- Rugged Industrial Design
- Half Sizes For Cost and Space Savings
- Dual Voltage, Dual Frequency Coils
- Ambient Compensated Bimetal Overload Protection
- Wide Range Of Accessories
- Easy Coil Access
- Overload Test Feature
- Straight Thru Wiring
- Gravity Dropout
- Large Silver Cadmium Contacts

Application:

Heavy Duty Starters Are Designed For Across The Line Starting Of Single Phase and Polyphase Motors.

These Controls Are Available In NEMA Sizes 00 Through 4. In Addition To The Usual NEMA Starter Sizes, We Offer Three Exclusive Half Sizes; 1-3/4, 2-1/2 and 3-1/2. These Integral Sizes Offer The Same Rugged, Industrial Construction As Our NEMA Sizes and Ensure Efficient Operating Performance. Half Sizes Provide A Real Cost Savings By Cutting Down On Over Capacity When NEMA Sizes Exceed The Motor Ratings. All Heavy Duty Controls, Including Our Popular Half Sizes, Comply With Applicable NEMA and UL Tests.

All Starters Are Supplied With A NO Holding Interlock That In Conjunction With An Appropriate Pilot Device Will Provide Low Voltage Protection Or Release

Starters Are Available As An Open Type Or In NEMA 1, 12/3R, 4 (Painted), 4/4X (Stainless), 4X (Fiberglass) and 7 & 9 Enclosures.

* Coil Table	60 Hz Voltage	Letter
	24 Separate Control	J
	120 Separate Control	F
	110-120/220-240	A
	200-208	D
	220-240	G
	277	L
	220-240/440-480	C
	440-480	H
	550-600	E

Open Type & Standard Width Enclosure - Three-Phase - 3-Pole

Max. HP				NEMA Size	Contactor Amp Rating	Enclosure					
200 Volts	230 Volts	460 Volts	575 Volts			OPEN		NEMA 1		NEMA 12 NEMA 3/3R	
						Model Number	List Price	Model Number	List Price	Model Number	List Price
1-1/2	1-1/2	2	2	00	9	WSBP32A*81	\$420.21	WSBP32B*81	\$449.00	Use Size 0	
3	3	5	5	0	18	WSCP32A*81	\$529.89	WSCP32B*81	\$560.39	WSCP320*81	\$747.76
7-1/2	7-1/2	10	10	1	27	WSDP32A*81	\$607.49	WSDP32B*81	\$639.70	WSDP320*81	\$825.36
10	10	15	15	1-3/4	40	WSEP32A*81	\$840.38	WSEP32B*81	\$862.53	WSEP320*81	\$1,048.18
10	15	25	25	2	45	WSFP32A*81	\$1,105.35	WSFP32B*81	\$1,260.86	WSFP320*81	\$1,603.47
15	20	30	30	2-1/2	60	WSGP32A*81	\$1,446.20	WSGP32B*81	\$1,664.25	WSGP320*81	\$2,033.88
25	30	50	50	3	90	WSHP32A*81	\$1,788.77	WSHP32B*81	\$2,099.75	WSHP320*81	\$2,504.80
30	40	75	75	3-1/2	115	WSIP32A*81	\$3,471.24	WSIP32B*81	\$4,086.35	WSIP320*81	\$5,409.65
40	50	100	100	4	135	WSJG32A*81	\$4,092.26	WSJG32B*81	\$4,746.36	WSJG320*81	\$6,083.15

Open Type & Standard Width Enclosure - Single-Phase - 2-Pole

Max. HP		NEMA Size	Contactor Amp Rating	Enclosure					
115 Volts	208/230 Volts			OPEN		NEMA 1		NEMA 12 NEMA 3/3R	
				Model Number	List Price	Model Number	List Price	Model Number	List Price
1/3	1	00	9	WSBP12A*81	\$366.21	WSBP12B*81	\$394.95	Use Size 0	
1	2	0	18	WSCP12A*81	\$474.22	WSCP12B*81	\$504.67	WSCP120*81	\$692.04
2	3	1	27	WSDP12A*81	\$551.82	WSDP12B*81	\$584.03	WSDP120*81	\$769.68
3	5	1P	35	WSEP12A*81	\$722.26	WSEP12B*81	\$747.76	WSEP120*81	\$931.69
3	7-1/2	2	45	WSFP12A*81	\$1,002.39	WSFP12B*81	\$1,159.58	WSFP120*81	\$1,500.52
5	10	2-1/2	60	WSGP12A*81	\$1,361.83	WSGP12B*81	\$1,566.34	WSGP120*81	\$1,949.51

Please Refer To Heater Tables On [PAGE 1-13](#) For Heater Selection

Three-Phase Starters Require 3 Heater Elements

Single-Phase Starters Require 1 Heater Element

Heaters = List Price \$21.74 Each

Please Refer To [PAGE 1-14](#) For Replacement Coils

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All Starters Are Supplied With A NO Holding Interlock That In Conjunction With An Appropriate Pilot Device Will Provide Low Voltage Protection Or Release

Starters Are Available As An Open Type Or In NEMA 1, 12/3R, 4 (Painted), 4/4X (Stainless), 4X (Fiberglass) and 7 & 9 Enclosures.

* Coil Table	60 Hz Voltage	Letter
	24 Separate Control	J
	120 Separate Control	F
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	220-240	G
	277	L
	220-240/440-480	C
	440-480	H
	550-600	E

Open Type & Standard Width Enclosure - Three-Phase - 3-Pole

Max. HP				NEMA Size	Contactor Amp Rating	Enclosure					
200 Volts	230 Volts	460 Volts	575 Volts			NEMA 4/4X Stainless Steel		NEMA 4X Fiberglass		NEMA 7 & 9 NEMA 3 & 4	
						Model Number	List Price	Model Number	List Price	Model Number	List Price
1-1/2	1-1/2	2	2	00	9	Use Size 0		Use Size 0		Use Size 0	
3	3	5	5	0	18	WSCP32W*81	\$1,105.57	WSCP32F*81	\$1,215.29	WSCP32H*81	\$1,610.33
7-1/2	7-1/2	10	10	1	27	WSDP32W*81	\$1,198.42	WSDP32F*81	\$1,316.54	WSDP32H*81	\$1,661.49
10	10	15	15	1-3/4	40	WSEP32W*81	\$1,419.49	WSEP32F*81	\$1,568.00	WSEP32H*81	\$1,809.56
10	15	25	25	2	45	WSFP32W*81	\$2,381.59	WSFP32F*81	\$2,619.58	WSFP32H*81	\$2,297.36
15	20	30	30	2-1/2	60	WSGP32W*81	\$3,016.64	WSGP32F*81	\$3,304.90	WSGP32H*81	\$2,873.31
25	30	50	50	3	90	WSHP32W*81	\$3,688.02	WSHP32F*81	\$4,078.00	WSHP32H*81	\$4,141.76
30	40	75	75	3-1/2	115	WSIP32W*81	\$6,766.75	WSIP32F*81	\$7,550.00	WSIP32H*81	\$8,192.00
40	50	100	100	4	135	WSJG32W*81	\$7,453.69	WSJG32F*81	\$8,236.00	WSJG32H*81	\$8,755.00

Open Type & Standard Width Enclosure - Single-Phase - 2-Pole

Max. HP		NEMA Size	Contactor Amp Rating	Enclosure					
115 Volts	208/230 Volts			NEMA 4/4X Stainless Steel		NEMA 4X Fiberglass		NEMA 7 & 9 NEMA 3 & 4	
				Model Number	List Price	Model Number	List Price	Model Number	List Price
1/3	1	00	9	Use Size 0		Use Size 0		Use Size 0	
1	2	0	18	WSCP12W*81	\$1,051.57	WSCP12F*81	\$1,160.00	WSCP12H*81	\$1,500.34
2	3	1	27	WSDP12W*81	\$1,149.00	WSDP12F*81	\$1,264.00	WSDP12H*81	\$1,626.66
3	5	1P	35	WSEP12W*81	\$1,303.05	WSEP12F*81	\$1,454.00	WSEP12H*81	\$1,734.45
3	7-1/2	2	45	WSFP12W*81	\$2,291.00	WSFP12F*81	\$2,521.00	WSFP12H*81	\$3,510.00
5	10	2-1/2	60	WSGP12W*81	\$2,945.48	WSGP12F*81	\$3,242.00	WSGP12H*81	\$4,432.00

Please Refer To Heater Tables On [PAGE 1-13](#) For Heater Selection

Three-Phase Starters Require 3 Heater Elements

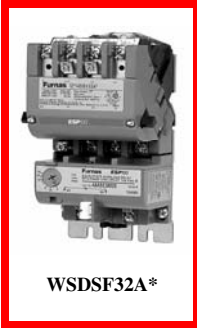
Single-Phase Starters Require 1 Heater Element

Heaters = List Price \$21.74 Each

Please Refer To [PAGE 1-14](#) For Replacement Coils



HEAVY DUTY MOTOR STARTERS WITH ESP100 SOLID STATE OVERLOAD



ESP100 Starters Combine The Rugged Characteristics Of A NEMA Rated Contactor With A Solid State Overload Which Provides Phase Loss Protection. It Offers The Industrial User Greater Protection and Added Life For Motors In Heavy Duty Applications. The Inherent Benefits Of The ESP100 Result In Cost Savings As Well.

ESP100 Solid State Overload Relays:

- These Standard Features Of The ESP100 Provide Extra Starter Performance.
- True Phase Loss Protection - Trips Within 3 Seconds
 - High Accuracy Trip Curves
± 2% Repeat Trip Accuracy
 - Ease Of Use - Mount, Wire and Set FLA
 - Overload Is Self Protected Against Short Circuits
 - Overload Is Self Powered and Requires No Hard Wiring Or Separate Power Source
 - Simple, Versatile Adjustment
Minimum Of 2:1 FLA Adjustment Range
(4:1 In Lower FLA Ranges)
 - Heaterless Construction Minimizes Energy Costs and The Costs Of Cabinet Ventilation or Cooling
 - Class 20 Protection Is Standard
Class 10 and 30 Protection Are Available
 - Provides Motor Protection For 50/60 Hz

* Coil Table	60 Hz Voltage	Letter
	24 Separate Control	J
	120 Separate Control	F
	110-120/220-240	A
	200-208	D
	220-240	G
	277	L
	220-240/440-480	C
	440-480	H
	550-600	E

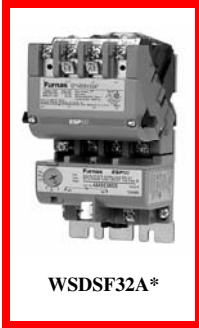
Max. HP				NEMA Size	Overload Amp Range	Enclosure					
200 Volts	230 Volts	460 Volts	575 Volts			OPEN		NEMA 1		NEMA 12 NEMA 3/3R	
						Model Number	List Price	Model Number	List Price	Model Number	List Price
1/6	1/6	1/3	1/2	00	0.25-1	WSBSA32A*	\$491.28	---	---	Use Size 0	
1/2	3/4	1-1/2	2	00	0.75-3	WSBSB32A*	\$491.28	WSBSB32B*	\$521.61	Use Size 0	
1-1/2	1-1/2	2	---	00	2.5-10	WSBSD32A*	\$491.28	WSBSD32B*	\$521.61	Use Size 0	
1/6	1/6	1/3	1/2	0	0.25-1	WSCSA32A*	\$600.46	WSCSA32B*	\$630.78	WSCSA320*	\$816.78
1/2	3/4	1-1/2	2	0	0.75-3	WCSB32A*	\$600.46	WCSB32B*	\$630.78	WCSB320*	\$816.78
2	2	5	5	0	2.5-10	WCSD32A*	\$600.46	WCSD32B*	\$630.78	WCSD320*	\$816.78
3	3	---	---	0	9-18	WCSE32A*	\$600.46	WCSE32B*	\$630.78	WCSE320*	\$816.78
1/6	1/6	1/3	1/2	1	0.25-1	WSDSA32A*	\$677.28	WSDSA32B*	\$709.63	WSDSA320*	\$895.63
1/2	3/4	1-1/2	2	1	0.75-3	WDSB32A*	\$677.28	WDSB32B*	\$709.63	WDSB320*	\$895.63
2	2	5	5	1	2.5-10	WSDSD32A*	\$677.28	WSDSD32B*	\$709.63	WSDSD320*	\$895.63
3	3	10	10	1	9-18	WSDSE32A*	\$677.28	WSDSE32B*	\$709.63	WSDSE320*	\$895.63
7.5	7.5	---	---	1	13-27	WSDSF32A*	\$677.28	WSDSF32B*	\$709.63	WSDSF320*	\$895.63
---	---	15	15	1-3/4	13-27	WSESF32A*	\$911.80	WSESF32B*	\$942.13	WSESF320*	\$1,130.15
10	10	---	---	1-3/4	20-40	WSESG32A*	\$911.80	WSESG32B*	\$942.13	WSESG320*	\$1,130.15
---	---	15	20	2	13-27	WFSF32A*	\$1,176.65	WFSF32B*	\$1,332.33	WFSF320*	\$1,674.00
10	15	25	25	2	22-45	WFSFH32A*	\$1,176.65	WFSFH32B*	\$1,332.33	WFSFH320*	\$1,674.00
---	---	30	30	2-1/2	22-45	WGSFH32A*	\$1,518.33	WGSFH32B*	\$1,752.85	WGSFH320*	\$2,126.87
15	20	---	---	2-1/2	30-60	WGSJ32A*	\$1,518.33	WGSJ32B*	\$1,752.85	WGSJ320*	\$2,126.87
---	---	30	40	3	30-60	WHSJ32A*	\$1,862.02	WHSJ32B*	\$2,173.37	WHSJ320*	\$2,577.72
25	30	50	50	3	45-90	WHSK32A*	\$1,862.02	WHSK32B*	\$2,173.37	WHSK320*	\$2,577.72
30	40	75	75	3-1/2	57-115	WSISL32A*	\$3,544.11	WSISL32B*	\$4,197.13	WSISL320*	\$5,537.54
40	50	100	100	4	67-135	WSJTM32A*	\$4,166.80	WSJTM32B*	\$4,819.83	WSJTM320*	\$6,160.24
75	100	200	200	5	100-270	WSLPU32A*	\$10,076.35	WSLPU32B*	\$11,277.26	WSLPU320*	\$14,704.11
150	200	400	400	6	200-540	WSMPX32A*	\$23,862.59	WSMPX32B*	\$31,650.33	WSMPX320*	\$35,855.54
---	300	600	600	7	420-820	Please Contact Sales Office		Please Contact Sales Office		Please Contact Sales Office	
---	450	900	900	8	420-1220	Please Contact Sales Office		Please Contact Sales Office		Please Contact Sales Office	

Options	List Price
Hand-Off-Auto Switch:	\$341.67
Pilot Light	\$365.93
Start/Stop Pushbutton:	\$341.67

Please Refer To [PAGE 1-14](#) For Replacement Coils



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						Model Number	List Price	Model Number	List Price	Model Number	List Price
1/6	1/6	1/3	1/2	00	0.25-1	Use Size 0		Use Size 0		Use Size 0	
1/2	3/4	1-1/2	2	00	0.75-3	Use Size 0		Use Size 0		Use Size 0	
1-1/2	1-1/2	2	---	00	2.5-10	Use Size 0		Use Size 0		Use Size 0	
1/6	1/6	1/3	1/2	0	0.25-1	WSCSA32W*	\$1,176.65	WSCSA32F*	\$1,293.91	WSCSA32H*	\$2,593.89
1/2	3/4	1-1/2	2	0	0.75-3	WSCSB32W*	\$1,176.65	WSCSB32F*	\$1,293.91	WSCSB32H*	\$2,593.89
2	2	5	5	0	2.5-10	WSCSD32W*	\$1,176.65	WSCSD32F*	\$1,293.91	WSCSD32H*	\$2,593.89
3	3	---	---	0	9-18	WSCSE32W*	\$1,176.65	WSCSE32F*	\$1,293.91	WSCSE32H*	\$2,593.89
1/6	1/6	1/3	1/2	1	0.25-1	WSDSA32W*	\$1,269.65	WSDSA32F*	\$1,397.02	WSDSA32H*	\$2,670.72
1/2	3/4	1-1/2	2	1	0.75-3	WSDSB32W*	\$1,269.65	WSDSB32F*	\$1,397.02	WSDSB32H*	\$2,670.72
2	2	5	5	1	2.5-10	WSDSD32W*	\$1,269.65	WSDSD32F*	\$1,397.02	WSDSD32H*	\$2,670.72
3	3	10	10	1	9-18	WSDSE32W*	\$1,269.65	WSDSE32F*	\$1,397.02	WSDSE32H*	\$2,670.72
7.5	7.5	---	---	1	13-27	WSDSF32W*	\$1,269.65	WSDSF32F*	\$1,397.02	WSDSF32H*	\$2,670.72
---	---	15	15	1-3/4	13-27	WSESF32W*	\$1,502.15	WSESF32F*	\$1,651.76	WSESF32H*	\$2,905.24
10	10	---	---	1-3/4	20-40	WSESG32W*	\$1,502.15	WSESG32F*	\$1,651.76	WSESG32H*	\$2,905.24
---	---	15	20	2	13-27	WFSF32W*	\$2,452.37	WFSF32F*	\$2,697.00	WFSF32H*	\$3,667.43
10	15	25	25	2	22-45	WFSFH32W*	\$2,452.37	WFSFH32F*	\$2,697.00	WFSFH32H*	\$3,667.43
---	---	30	30	2-1/2	22-45	WGSFH32W*	\$3,107.41	WGSFH32F*	\$3,418.76	WGSFH32H*	\$4,571.15
15	20	---	---	2-1/2	30-60	WGSJ32W*	\$3,107.41	WGSJ32F*	\$3,418.76	WGSJ32H*	\$4,571.15
---	---	30	40	3	30-60	WHSJ32W*	\$3,762.46	WHSJ32F*	\$4,138.50	WHSJ32H*	\$6,556.50
25	30	50	50	3	45-90	WHSK32W*	\$3,762.46	WHSK32F*	\$4,138.50	WHSK32H*	\$6,556.50
30	40	75	75	3-1/2	57-115	WSISL32W*	\$6,908.28	WSISL32F*	\$7,599.72	WSISL32H*	\$8,169.85
40	50	100	100	4	67-135	WSJTM32W*	\$7,530.98	WSJTM32F*	\$8,285.09	WSJTM32H*	\$8,792.54
75	100	200	200	5	100-270	WLSLPU32E*(1)	\$14,704.11	Please Contact Sales Office	Please Contact Sales Office	Please Contact Sales Office	Please Contact Sales Office
150	200	400	400	6	200-540	WSMPX32E*(1)	\$39,438.07				
---	300	600	600	7	420-820	Please Contact Sales Office					
---	450	900	900	8	420-1220						

(1) Enclosure Is Painted Steel

Options	List Price
Hand-Off-Auto Switch:	\$341.67
Pilot Light	\$365.93
Start/Stop Pushbutton:	\$341.67

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