

# Enclosed Starters

## Operation and Protection of Motors up to 600Hp at 460Vac (800A)

WEG enclosed starters series were designed to meet the requirements and flexibility frequently demanded in industrial applications. Featuring components that meet IEC design standards and UL horsepower ratings, WEG enclosed starters are UL508A approved and cULus certified. This means your panels will fulfill the rigorous requirements of UL508A and will have the quality and performance as for all WEG products

### Standard or Custom

By having most of the processes in WEG facilities we can manufacture not only the enclosed starters listed on this catalog, but also any other custom panel your application may require. Our Engineers will work together with you to provide the perfect solution for your application.



### Perfect Solution

WEG offers options for both: Full Voltage Non-Reversing Non-Combination Starters and Full Voltage Non-Reversing Combination Starters up to 250Hp at 460Vac.

WEG's UL508A panel shops can manufacture any configuration of Non-Combination or Combination Starters for any low voltage horsepower ratings. Some examples are listed below:

- Enclosed Contactors
- Full Voltage Reversing Starters
- Reduced Voltage Magnetic Starters (Part-Winding, Wye-Delta)
- Reduced Voltage Solid-State Starters
- Multi-Speed Starters
- Explosion Proof Starters

Whenever you need a reliable product to control & protect your application, WEG field specialists can help you find the best solution.

### New Concepts

Smaller size components allow selection of smaller enclosures which translates to cost savings. A wide range of ratings and frames allow the components to be more closely matched to your application. Our overload relays provide phase loss sensitivity, ambient temperature compensated for -4F to +140F (eliminating the need for additional heaters), and automatic reset for remote applications.










A wide range of industrial applications are covered: Pumps, Industrial Washing Machines, Compressors, Blowers, Cutting Machines, Conveyors, Lumber Processing and many others.

# Enclosed Starters

## Non-Combination Starters

### Product Line Overview

#### NON-COMBINATION STARTERS

Type		ESW	PESW	ESWX-M	ESWX-M	ESWX
						
Maximum Horsepower Rating at 460Vac 60Hz	[Hp]	75	75	10	75	75
Maximum Rated Current I <sub>max</sub> (I <sub>u</sub> )	[A]	105	105	16	105	105
Rated Operational Voltage	[V]	600	600	600	600	600
Enclosure Type		Metallic Type 1	Non-Metallic Type 4X	Cast Aluminum NEMA 7/9 NEMA 4X	Cast Aluminum Type 7/9	Cast Aluminum Type 7/9
Protections provided						
Motor Disconnect				✓	✓	
Motor Branch Short Circuit				✓	✓	
Motor Controller		✓	✓	✓	✓	✓
Motor Overload		✓	✓	✓	✓	✓
Accessories						
Pushbuttons		N/A	N/A	N/A	N/A	
Pilot light		N/A	N/A	N/A	N/A	
Emergency Stop		N/A	N/A	N/A	N/A	
Selector Switch		N/A	N/A	N/A	N/A	
Control Transformer		N/A	N/A	N/A	N/A	(available as an option)
Timing Relays (RTW Series)		N/A	N/A	N/A	N/A	(available as an option)
Protector Relay (RPW Series)		N/A	N/A	N/A	N/A	(available as an option)
Level Relay (RNW Series)		N/A	N/A	N/A	N/A	(available as an option)

General Information

Circuit Protection

Disconnect Switches

Motor Protectors

Contactors

Overloads

Enclosed Starters

Relays

Pushbuttons and Pilot Lights

Terminal Blocks

Power Factor Correction




Appendix A

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### Product Line Overview

#### COMBINATION STARTERS

Type	ESWC	ESWE	ESWF
			
Maximum Horsepower Rating at 460Vac 60Hz [Hp]	250	20	75
Maximum Rated Current $I_{max}$ ( $I_u$ ) [A]	300	32	105
Rated Operational Voltage [V]	600	600	600
Enclosure Type	Metallic Type 1 Type 3R Type 4 / 12 Non-Metallic Type 4X	Non-Metallic Type 4X	Metallic Type 1 Type 3R Type 4 / 12 Non-Metallic Type 4X
<b>Protections provided</b>			
Motor Disconnect	✓	✓	✓
Motor Branch Short Circuit	✓	✓	✓
Motor Controller	✓	✓	✓
Motor Overload	✓	✓	✓

#### Accessories

Pushbuttons		
Pilot light		
Emergency Stop		
Selector Switch		
Control Transformer	(available as an option)	(available as an option)
Timing Relays (RTW Series)	(available as an option)	
Protector Relay (RPW Series)	(available as an option)	
Level Relay (RNW Series)	(available as an option)	

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- Motor Protectors
- Contactors
- Overloads
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- Terminal Blocks
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**Enclosed Starter Series Catalog Numbers**



**Enclosed Starter**  
ESW  
PESW

**Construction Type**

Blank: Non-Combination 3-Phase  
S: Non-Combination 1-Phase  
C: Combination with Circuit Breaker  
E: Self-Protected Type E (MPW Series)  
F: Self-Protected Type F (MPW Series)  
X: Explosion Proof

**on-Combo, Type C, Explosion Prot  
Contactor Series**

9: 9 Amps  
12: 12 Amps  
18: 18 Amps  
25: 25 Amps  
32: 32 Amps  
40: 40 Amps  
50: 50 Amps  
65: 65 Amps  
80: 80 Amps  
95: 95 Amps

**Type E & Type F Starters  
MPW Series**

M18: 18A MPW  
M40: 40A MPW  
M65: 65A MPW  
M100: 100A MPW

**Without CPT**  
V04: 24V AC  
V18: 120V AC  
V24: 208-240V AC  
V47: 480V AC  
V56: 600V AC

**Control Voltage**

**Enclosed MMP Only**  
Blank: No Control Voltage (Manual Switch)

**With CPT (Prim / sec)**

T01: 208V / 120V  
T02: 240V / 120V  
T03: 277V / 120V  
T04: 480V / 120V  
T05: 600V / 120V  
T06: 208V / 24V  
T08: 240V / 24V  
T09: 277V / 24V  
T0A: 480V / 24V  
T0B: 600V / 24V

**Enclosure Type**

Blank: Type 1  
3: Type 3R  
4: Type 4  
0: Type 4X Stainless  
2: Type 12  
79: Type 7&9  
X: Type 4X Plastic

**Overload Protection**

**1-Phase Starters**

RM20: 0.28 - 0.40A  
RM21: 0.40 - 0.63A  
RM22: 0.56 - 0.80A  
RM23: 0.80 - 1.20A  
RM24: 1.20 - 1.80A  
RM25: 1.80 - 2.80A  
RM26: 2.80 - 4.00A  
RM27: 4.00 - 6.30A  
RM28: 5.60 - 8.00A  
RM29: 7.00 - 10A  
RM30: 8.00 - 12A  
RM31: 10 - 15A  
RM32: 11 - 17A  
RM33: 15 - 23A  
RM34: 22 - 32A  
RM35: 25 - 40A  
RM37: 32 - 50A  
RM39: 40 - 57A  
RM40: 50 - 63A  
RM41: 57 - 70A  
RM42: 63 - 80A  
RM44: 75 - 97A  
RM45: 90 - 112A  
RM48: 100 - 150A  
RM49: 140 - 215A  
RM50: 200 - 310A  
RM51: 275 - 420A  
RM54: 400 - 600A  
RM55: 560 - 840A

**3-Phase Starters**

R20: 0.28 - 0.40A  
R21: 0.40 - 0.63A  
R22: 0.56 - 0.80A  
R23: 0.80 - 1.20A  
R24: 1.20 - 1.80A  
R25: 1.80 - 2.80A  
R26: 2.80 - 4.00A  
R27: 4.00 - 6.30A  
R28: 5.60 - 8.00A  
R29: 7.00 - 10A  
R30: 8.00 - 12A  
R31: 10 - 15A  
R32: 11 - 17A  
R33: 15 - 23A  
R34: 22 - 32A  
R35: 25 - 40A  
R37: 32 - 50A  
R39: 40 - 57A  
R40: 50 - 63A  
R41: 57 - 70A  
R42: 63 - 80A  
R44: 75 - 97A  
R45: 90 - 112A  
R48: 100 - 150A  
R49: 140 - 215A  
R50: 200 - 310A  
R51: 275 - 420A  
R54: 400 - 600A  
R55: 560 - 840A

**Control Devices**

A: Start + Stop + Reset  
B: H-O-A Switch + On + Off + Reset  
C: On-Off Selector Switch + Reset  
D: Off + Reset  
E: Reset  
G: On-Off Selector Switch + On + Off  
H: H-O-A Selector Switch  
I: None  
J: On + Off + Rotary Handle + Pilot Light  
K: H-O-A Selector Switch + On + Off + Rotary Handle + Pilot Lights  
L: On-Off Key Switch  
M: H-O-A Selector Switch + On + Off + Reset  
N: H-O-A Selector Switch + On + Off + Rotary Handle + Reset  
P: On + Off + Rotary Handle + Reset  
R: Rotary Handle

**Manual Motor Protector's**

D01: 0.10 - 0.16A  
D02: 0.16 - 0.25A  
D03: 0.25 - 0.40A  
D04: 0.40 - 0.63A  
D05: 0.63 - 1.00A  
D06: 1.00 - 1.60A  
D07: 1.60 - 2.50A  
D08: 2.50 - 4.00A  
D09: 4.00 - 6.30A  
D10: 6.30 - 10A  
D11: 10 - 16A  
D12: 16 - 20A  
D13: 20 - 25A  
D14: 25 - 32A  
D19: 32 - 40A  
D20: 40 - 50A  
D21: 50 - 65A  
D22: 55 - 75A  
D23: 70 - 90A  
D24: 80 - 100A

Table intended as reference only and not to create part numbers.

# ESW/PESW



WEG offers non-reversing and non-combination magnetic starters up to 75HP at 460Vac (105A). Featuring components that meet IEC design standards and UL horsepower ratings, incorporating WEG contactors and overload relays, the magnetic starters are ideal to protect and operate motors, ensuring smooth operation year-after year.

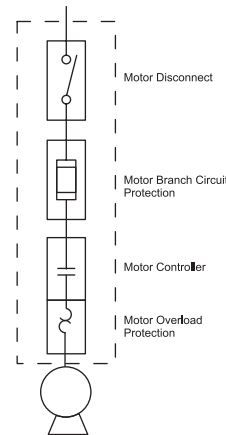
Three series are available:

- Metallic Type 1 – ESW Series
- Non-Metallic Type 4X – PESW Series
- Metallic Type NEMA 7/9 - ESWX Series

WEG ESW and PESW starters are pre-wired from the factory and recommended for all single and three phase applications where magnetic starters can be applied.

### Standard Features

- High horsepower ratings in four compact sizes
- Fast acceleration and high initial torque
- Bimetallic Overload Relays – class 10
- Adjustable trip current
- Ambient temperature compensated
- Phase-loss sensitivity protection
- Selectable Manual or Automatic RESET
- Electrically isolated NO-NC auxiliary contacts
- Easy to install and setup



Types A through D combination starters

General Information

Circuit Protection

Disconnect Switches

Motor Protectors

Contactors

Overloads

Enclosed Starters

Relays

Pushbuttons and Pilot Lights

Terminal Blocks

Power Factor Correction

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## ESW

### NEMA 1 Enclosure – Three Phase



### ESW Series - Non-combination Across The Line Starter Three -Phase - Enclosure Type-1

	Max. UL Horsepower				Box	Setting Range	Coil Voltage	RESET only		START/STOP + RESET		Multiplier
	200V	230V	460V	575V				Catalog Number	List Price	Catalog Number	List Price	
Disconnect Switches	-	1/3	1/2	-	M04	0.8 - 1.2	120	ESW-9V18E-R23	\$157	ESW-9V18A-R23	\$210	Z3
							208-240	ESW-9V24E-R23		ESW-9V24A-R23		
							480	ESW-9V47E-R23		ESW-9V47A-R23		
Motor Protectors	-	-	1	1	M04	1.2 - 1.8	120	ESW-9V18E-R24	\$157	ESW-9V18A-R24	\$210	
							480	ESW-9V47E-R24		ESW-9V47A-R24		
							120	ESW-9V18E-R25		ESW-9V18A-R25		
Contactors	1/2	3/4	1-1/2	2	M04	1.8 - 2.8	208-240	ESW-9V24E-R25	\$157	ESW-9V24A-R25	\$210	
							480	ESW-9V47E-R25		ESW-9V47A-R25		
							120	ESW-9V18E-R26		ESW-9V18A-R26		
Overloads	1	1	2	3	M04	2.8 - 4.0	208-240	ESW-9V24E-R26	\$157	ESW-9V24A-R26	\$210	
							480	ESW-9V47E-R26		ESW-9V47A-R26		
							120	ESW-9V18E-R27		ESW-9V18A-R27		
Enclosed Starters	1-1/2	1-1/2	3	5	M04	4.0 - 6.3	208-240	ESW-9V24E-R27	\$157	ESW-9V24A-R27	\$210	
							480	ESW-9V47E-R27		ESW-9V47A-R27		
							120	ESW-9V18E-R28		ESW-9V18A-R28		
Relays	2	2	5	-	M04	5.6 - 8.0	208-240	ESW-9V24E-R28	\$157	ESW-9V24A-R28	\$210	
							480	ESW-9V47E-R28		ESW-9V47A-R28		
							120	ESW-9V18E-R29		ESW-9V18A-R29		
Terminal Blocks	3	3	-	7-1/2	M04	7.0 - 10	208-240	ESW-9V24E-R29	\$157	ESW-9V24A-R29	\$210	
							480	ESW-9V47E-R29		ESW-9V47A-R29		
							120	ESW-12V18E-R30		ESW-12V18A-R30		
Pushbuttons and Pilot Lights	-	-	7-1/2	10	M04	8.0 - 12.5	480	ESW-12V47E-R30	\$174	ESW-12V47A-R30	\$227	
							120	ESW-18V18E-R32		ESW-18V18A-R32		
							208-240	ESW-18V24E-R32		ESW-18V24A-R32		
Power Factor Correction	5	5	10	15	M04	11 - 17	480	ESW-18V47E-R32	\$188	ESW-18V47A-R32	\$241	
							120	ESW-25V18E-R33		ESW-25V18A-R33		
							208-240	ESW-25V24E-R33		ESW-25V24A-R33		
Appendix A	7-1/2	7-1/2	15	-	M04	15 - 23	480	ESW-25V47E-R33	\$223	ESW-25V47A-R33	\$276	
							120	ESW-32V18E-R34		ESW-32V18A-R34		
							208-240	ESW-32V24E-R34		ESW-32V24A-R34		
Appendix B	10	10	20	25	M04	22 - 32	480	ESW-32V47E-R34	\$245	ESW-32V47A-R34	\$298	
							120	ESW-40V18E-R35		ESW-40V18A-R35		
							208-240	ESW-40V24E-R35		ESW-40V24A-R35		
Power Factor Correction	10	15	30	-	M06	25 - 40	480	ESW-40V47E-R35	\$292	ESW-40V47A-R35	\$345	
							120	ESW-50V18E-R38		ESW-50V18A-R38		
							208-240	ESW-50V24E-R38		ESW-50V24A-R38		
Power Factor Correction	15	15	30	40	M06	32 - 50	480	ESW-50V47E-R38	\$350	ESW-50V47A-R38	\$403	
							120	ESW-65V18E-R39		ESW-65V18A-R39		
							208-240	ESW-65V24E-R39		ESW-65V24A-R39		
Power Factor Correction	20	20	40	50	M06	40 - 57	480	ESW-65V47E-R39	\$375	ESW-65V47A-R39	\$428	
							120	ESW-80V18E-R41		ESW-80V18A-R41		
							208-240	ESW-80V24E-R41		ESW-80V24A-R41		
Power Factor Correction	-	25	50	60	M06	57 - 70	480	ESW-80V47E-R41	\$421	ESW-80V47A-R41	\$474	
							120	ESW-95V18E-R43		ESW-95V18A-R43		
							208-240	ESW-95V24E-R43		ESW-95V24A-R43		
Power Factor Correction	25	30	60	75	M08	63 - 80	480	ESW-95V47E-R43	\$876	ESW-95V47A-R43	\$929	
							120	ESW-105V18E-R44		ESW-105V18A-R44		
							208-240	ESW-105V24E-R44		ESW-105V24A-R44		
Power Factor Correction	30	-	75	-	M08	75 - 97	480	ESW-105V47E-R44	\$975	ESW-105V47A-R44	\$1,028	
							120	ESW-105V18E-R45		ESW-105V18A-R45		
							208-240	ESW-105V24E-R45		ESW-105V24A-R45		

**Notes:**

- 1) Please contact your local WEG representative for starters with other control voltage.
- 2) 3-phase starters can be wired for single-phase applications (see page 238 for single phase conversion diagram)



### NEMA 1 Enclosure – Single Phase

### ESW Series - Non-combination Across The Line Starter - Non Reversing Single Phase - Enclosure Type-1

Max. UL Horsepower		Box	Setting Range	Coil Voltage	RESET only		Multiplier
115V	230V				Catalog Number	List Price	
-	1/2	M04	2.8 - 4.0	208-240	ESWS-9V24E-RM26	\$135	Z3
-	3/4	M04	4.0 - 6.3	208-240	ESWS-9V24E-RM27	\$135	
1/3	1	M04	5.6 - 8.0	120	ESWS-9V18E-RM28	\$135	
				208-240	ESWS-9V24E-RM28		
1/2	-	M04	7.0 - 10	120	ESWS-9V18E-RM29	\$135	
-	1-1/2	M04	8.0 - 12.5	208-240	ESWS-9V24E-RM30	\$135	
3/4	2	M04	10 - 15	120	ESWS-12V18E-RM31	\$161	
				208-240	ESWS-12V24E-RM31		
1	3	M04	11 - 17	120	ESWS-18V18E-RM32	\$170	
				208-240	ESWS-18V24E-RM32		
1-1/2	5	M04	15 - 23	120	ESWS-25V18E-RM33	\$180	
				208-240	ESWS-25V24E-RM33		
2	5	M04	22 - 32	120	ESWS-25V18E-RM34	\$180	
				208-240	ESWS-25V24E-RM34		
3	-	M06	25 - 40	120	ESWS-40V18E-RM35	\$274	
-	7-1/2	M06	25 - 40	208-240	ESWS-50V24E-RM36	\$330	
-	7-1/2	M06	32 - 50	208-240	ESWS-50V24E-RM38	\$330	
-	10	M06	32 - 50	208-240	ESWS-65V24E-RM38	\$350	

Notes: 1) OLR must be set at 115% of motor FLA

ESWS - Single-phase version - assembled with 2 pole contactor and 2 pole overload relays

### Field Mod Kits for ESW/ESWS Series

Description	Accessories		Field Kit Modifications		
	Structure		Catalog Number	List Price	Multiplier
	Top	Bottom			
No Pilot Device Metal Brackets - 2 x 22mm holes w/ plugs	PLUG	PLUG	KESWPP	\$25	Z3
Start / Stop Pushbutton	PLUG	START - STOP	KESWPS	\$80	
Hand-Off-Auto Selector Switch	HAND - OFF - AUTO	PLUG	KESWHP	\$80	
Off-On Selector Switch	OFF - ON	PLUG	KESWFP	\$80	
Hand-Off-Auto Selector Switch and Start / Stop Pushbuttons	HAND - OFF - AUTO	START - STOP	KESWHS	\$130	
E-stop	PLUG	E-STOP	KESWPE	\$80	



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- Contactors
- Overloads
- Enclosed Starters
- Relays
- Pushbuttons and Pilot Lights
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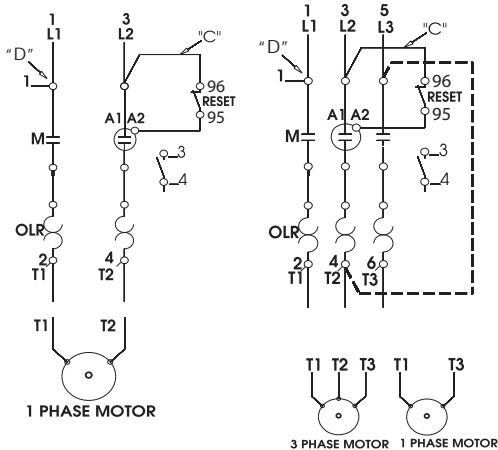
Power Factor Correction

Appendix A

Appendix B

## WIRING DIAGRAM

### Single-phase Starter    Three-phase Starter



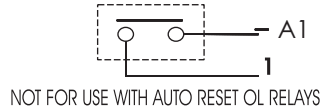
Conversion to single-phase, add jumper wire from L3 to T2 (follow dotted line connection above)

## Separate Control

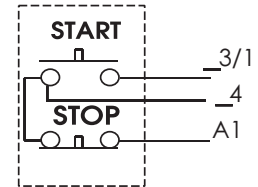
FOR SEPARATE CONTROL, REMOVE WIRES "C" AND "D" IF SUPPLIED AND CONNECT SEPARATE CONTROL LINES TO TERMINAL N° 96 ON THE OVERLOAD RELAY AND TO TERMINAL N° \_3 ON THE AUX. CONTACT BLOCK (FOR 3 WIRE CONTROL) OR TO THE CONTACTOR COIL N° A1 (FOR 2 WIRE CONTROL).

## Pilot Devices

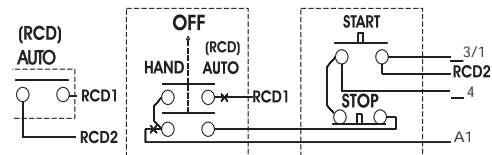
### 2 Wire Control



### 3 Wire Control



### Hand-Off Auto Wire Control (For ESW Series Only)



## DIMENSIONS

Provision for cable gland fitting	Standard			
	Top	Bottom	Side	Back
Box M04	2x (1/2" or 3/4")	2x (1/2" or 3/4")	4x (1/2" or 3/4")	2x (1/2" or 3/4")
	1x (3/4" or 1")	1x (3/4" or 1")	-	-
Box M06	1x (1/2" or 3/4")	1x (1/2" or 3/4")	3x (1/2" or 3/4")	-
	2x (1" or 1-1/4")	2x (1" or 1-1/4")	4x (1" or 1-1/4")	-
Box M08	1x (1")	1x (1")	1x (1")	1x (1")
	1x (1-1/2")	1x (1-1/2")	4x (3/4")	-

Dimensions (approx. inches)				
Enclosed Starters	Enclosure Size			
	BOX	H	W	D
ESW(S) 9, 12, 18, 25, 32	M04	9.5	5.5	5.0
ESW(S) 40, 50, 65, 80	M06	13.0	7.5	5.6
ESW 95, 105	M08	17.8	9.5	6.7







**PESW Series - Non-combination Across the line starter  
Three-Phase Enclosure Type - 4X**

Max. UL Horsepower				Box	Setting Range	Coil Voltage	RESET only <sup>5</sup>		START/STOP + RESET		Multiplier
200V	230V	460V	575V				Catalog Number	List Price	Catalog Number	List Price	
-	1/3	1/2	-	04	0.8 - 1.2	120	PESW-9V18EX-R23	\$157	PESW-9V18AX-R23	\$210	Z3
						208-240	PESW-9V24EX-R23		PESW-9V24AX-R23		
						480	PESW-9V47EX-R23		PESW-9V47AX-R23		
-	-	1	1	04	1.2 - 1.8	120	PESW-9V18EX-R24	\$157	PESW-9V18AX-R24	\$210	
						208-240	PESW-9V24EX-R24		PESW-9V24AX-R24		
						480	PESW-9V47EX-R24		PESW-9V47AX-R24		
1/2	3/4	1-1/2	2	04	1.8 - 2.8	120	PESW-9V18EX-R25	\$157	PESW-9V18AX-R25	\$210	
						208-240	PESW-9V24EX-R25		PESW-9V24AX-R25		
						480	PESW-9V47EX-R25		PESW-9V47AX-R25		
1	1	2	3	04	2.8 - 4.0	120	PESW-9V18EX-R26	\$157	PESW-9V18AX-R26	\$210	
						208-240	PESW-9V24EX-R26		PESW-9V24AX-R26		
						480	PESW-9V47EX-R26		PESW-9V47AX-R26		
1-1/2	1-1/2	3	5	04	4.0 - 6.3	120	PESW-9V18EX-R27	\$157	PESW-9V18AX-R27	\$210	
						208-240	PESW-9V24EX-R27		PESW-9V24AX-R27		
						480	PESW-9V47EX-R27		PESW-9V47AX-R27		
2	2	5	-	04	5.6 - 8.0	120	PESW-9V18EX-R28	\$157	PESW-9V18AX-R28	\$210	
						208-240	PESW-9V24EX-R28		PESW-9V24AX-R28		
						480	PESW-9V47EX-R28		PESW-9V47AX-R28		
3	3	-	7-1/2	04	7.0 - 10	120	PESW-9V18EX-R29	\$157	PESW-9V18AX-R29	\$210	
						208-240	PESW-9V24EX-R29		PESW-9V24AX-R29		
-	-	7-1/2	10	04	8.0 - 12.5	120	PESW-12V18EX-R30	\$174	PESW-12V18AX-R30	\$227	
						480	PESW-12V47EX-R30		PESW-12V47AX-R30		
5	5	10	15	04	11 - 17	120	PESW-18V18EX-R32	\$188	PESW-18V18AX-R32	\$241	
						208-240	PESW-18V24EX-R32		PESW-18V24AX-R32		
						480	PESW-18V47EX-R32		PESW-18V47AX-R32		
7-1/2	7-1/2	15	-	04	15 - 23	120	PESW-25V18EX-R33	\$223	PESW-25V18AX-R33	\$276	
						208-240	PESW-25V24EX-R33		PESW-25V24AX-R33		
						480	PESW-25V47EX-R33		PESW-25V47AX-R33		
10	10	20	25	06	22 - 32	120	PESW-32V18EX-R34	\$262	PESW-32V18AX-R34	\$298	
						208-240	PESW-32V24EX-R34		PESW-32V24AX-R34		
						480	PESW-32V47EX-R34		PESW-32V47AX-R34		
10	15	30	-	06	25 - 40	120	PESW-40V18EX-R35	\$321	PESW-40V18AX-R35	\$345	
						208-240	PESW-40V24EX-R35		PESW-40V24AX-R35		
						480	PESW-40V47EX-R35		PESW-40V47AX-R35		
15	15	30	40	08	32 - 50	120	PESW-50V18EX-R38	\$564	PESW-50V18AX-R38	\$579	
						208-240	PESW-50V24EX-R38		PESW-50V24AX-R38		
						480	PESW-50V47EX-R38		PESW-50V47AX-R38		
20	20	40	50	08	40 - 57	120	PESW-65V18EX-R39	\$589	PESW-65V18AX-R39	\$604	
						208-240	PESW-65V24EX-R39		PESW-65V24AX-R39		
						480	PESW-65V47EX-R39		PESW-65V47AX-R39		
-	25	50	60	08	57 - 70	120	PESW-80V18EX-R41	\$635	PESW-80V18AX-R41	\$650	
						208-240	PESW-80V24EX-R41		PESW-80V24AX-R41		
						480	PESW-80V47EX-R41		PESW-80V47AX-R41		
25	30	60	75	10	63 - 80	120	PESW-95V18EX-R43	\$1,085	PESW-95V18AX-R43	\$1,100	
						208-240	PESW-95V24EX-R43		PESW-95V24AX-R43		
						480	PESW-95V47EX-R43		PESW-95V47AX-R43		
30	-	75	-	10	75 - 97	120	PESW-105V18EX-R44	\$1,184	PESW-105V18AX-R44	\$1,199	
						480	PESW-105V47EX-R44		PESW-105V47AX-R44		
-	40	-	-	10	90 - 112	120	PESW-105V18EX-R45	\$1,184	PESW-105V18AX-R45	\$1,199	
						208-240	PESW-105V24EX-R45		PESW-105V24AX-R45		

**Notes:**

- 1) OLR must be set @115% of FLA
- 2) 3-phase starters with 120V coil are wired for separate control
- 3) 3-phase starters can be wired for single-phase applications (see diagram)

- General Information
- Circuit Protection
- Disconnect Switches
- Motor Protectors
- Contactors
- Overloads
- Enclosed Starters
- Relays
- Pushbuttons and Pilot Lights
- Terminal Blocks
- Power Factor Correction
- Appendix A
- Appendix B

PESW



**PESW Series - Non-combination Across the line starter**  
**Single Phase- Enclosure Type-4X**

Max. UL Horsepower	Box	Setting Range	Coil Voltage	RESET only <sup>4</sup>		START/STOP + RESET		Multiplier	
				115V	230V	Catalog Number	List Price		Catalog Number
-	1/2	04	2.8 - 4.0	208-240	PESWS-9V24EX-RM26	\$140	PESWS-9V24AX-RM26	\$155	Z3
-	3/4	04	4.0 - 6.3	208-240	PESWS-9V24EX-RM27	\$140	PESWS-9V24AX-RM27	\$155	
1/3	1	04	5.6 - 8.0	120	PESWS-9V18EX-RM28	\$140	PESWS-9V18AX-RM28	\$155	
				208-240	PESWS-9V24EX-RM28		PESWS-9V24AX-RM28		
1/2	-	04	7.0 - 10	120	PESWS-9V18EX-RM29	\$140	PESWS-9V18AX-RM29	\$155	
-	1-1/2	04	8.0 - 12.5	208-240	PESWS-9V24EX-RM30	\$140	PESWS-9V24AX-RM30	\$155	
3/4	2	04	10 - 15	120	PESWS-12V18EX-RM31	\$161	PESWS-12V18AX-RM31	\$170	
				208-240	PESWS-12V24EX-RM31		PESWS-12V24AX-RM31		
1	3	04	11 - 17	120	PESWS-18V18EX-RM32	\$170	PESWS-18V18AX-RM32	\$182	
				208-240	PESWS-18V24EX-RM32		PESWS-18V24AX-RM32		
1-1/2	5	04	15 - 23	120	PESWS-25V18EX-RM33	\$180	PESWS-25V18AX-RM33	\$195	
				208-240	PESWS-25V24EX-RM33		PESWS-25V24AX-RM33		
2	5	04	22 - 32	120	PESWS-25V18EX-RM34	\$180	PESWS-25V18AX-RM34	\$195	
				208-240	PESWS-25V24EX-RM34		PESWS-25V24AX-RM34		
3	-	06	25 - 40	120	PESWS-40V18EX-RM35	\$274	PESWS-40V18AX-RM35	\$300	
-	7-1/2	08	25 - 40	208-240	PESWS-50V24EX-RM36	\$430	PESWS-50V24AX-RM36	\$440	
-	7-1/2	08	32 - 50	208-240	PESWS-50V24EX-RM38	\$430	PESWS-50V24AX-RM38	\$440	
-	10	08	32 - 50	208-240	PESWS-65V24EX-RM38	\$460	PESWS-65V24AX-RM38	\$480	

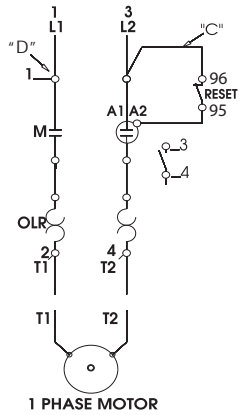
**Notes:**

- 1) OLR must be set at 115% of motor FLA
- 2) Single-phase starters are assembled with special 2-pole contactors and 2 pole OL relays
- 3) Starters are pre-wired for common control, ie coil voltage matched power voltage
- 4) Items not stocked. Availability under request.

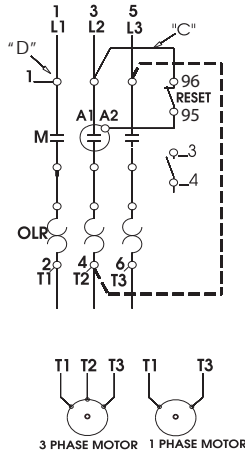
- General Information
- Circuit Protection
- Disconnect Switches
- Motor Protectors
- Contactors
- Overloads
- Enclosed Starters
- Relays
- Pushbuttons and Pilot Lights
- Terminal Blocks
- Power Factor Correction
- Appendix A
- Appendix B

WIRING DIAGRAM

Single-phase Starter



Three-phase Starter

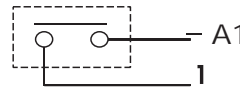


Separate Control

FOR SEPARATE CONTROL, REMOVE WIRES "C" AND "D" IF SUPPLIED AND CONNECT SEPARATE CONTROL LINES TO TERMINAL N° 96 ON THE OVERLOAD RELAY AND TO TERMINAL N° \_3 ON THE AUX. CONTACT BLOCK (FOR 3 WIRE CONTROL) OR TO THE CONTACTOR COIL N° A1 (FOR 2 WIRE CONTROL).

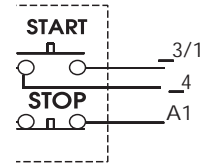
Pilot Devices

2 Wire Control



NOT FOR USE WITH AUTO RESET OL RELAYS.

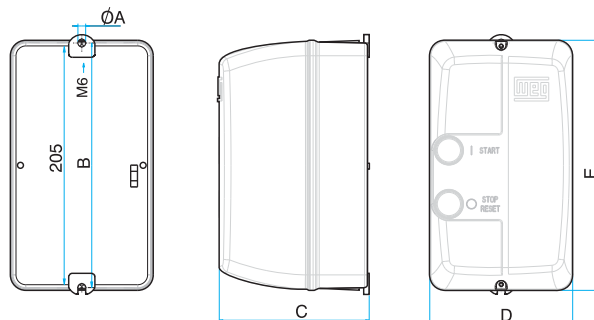
3 Wire Control



DIMENSIONS

SIZE 04 mm(in)	SIZE 06 mm (in)	SIZE 08 mm (in)	SIZE 10 mm (in)
øA = 4.5 (0.2)	øA = 6.5 (0.3)	øA = 6.0 (0.2)	øA = 7.0 (0.3)
B = 180 (7.1)	B = 205 (8.1)	B = 275 (10.8)	B = 355 (14.0)
C = 111 (4.4)	C = 126 (5.0)	C = 143 (5.6)	C = 167 (6.6)
D = 105 (4.1)	D = 120 (4.7)	D = 180 (7.1)	D = 250 (9.9)
E = 185 (7.3)	E = 210 (8.3)	E = 280 (11.0)	E = 360 (14.2)

Provision for cable gland fitting	Standard		
	Top	Bottom	Back
Size 04	2 x 1/2"	2 x 1/2"	ø18mm (0.7in)
Size 06	2 x 1/2" and 3/4"	2 x 1/2" and 3/4"	ø22mm (0.9in)
Size 08	2 x 3/4" and 1"	2 x 3/4" and 1"	-
Size 10	2 x 3/4" and 1"	2 x 3/4" and 1"	-
	1 x 1" and 1 1/4"	1 x 1" and 1 1/4"	-



For wall mounting on starters size 08 and 10, four screws with the following characteristics should be used:

- Pan, dome or rounded shaped head;
- Starter size 08:
  - Screws size 1/4 (or M6 – ISO Standard);
  - Dimensions: diameter thread shall be maximum 1/4 in and diameter head shall be maximum 15/64 in.
- Starter size 10:
  - Screws size 1/2 (or M5 – ISO Standard);
  - Dimensions: diameter thread shall be maximum 0.236 in and diameter head shall be maximum 0.394 in.

General Information

Circuit Protection

Disconnect Switches

Motor Protectors

Contactors

Overloads

Enclosed Starters

Relays

Pushbuttons and Pilot Lights

Terminal Blocks

Power Factor Correction

Appendix A

Appendix B

PESW

Part Number Composition

Overload Selection Table

Bimetallic Overload Relay								Manual Motor Protector			
Single-Phase		Setting Range (A)		Three-Phase		Setting Range (A)		Three-Phase		Setting Range (A)	
Code	Product	Min.	Max.	Code	Product	Min.	Max.	Code	Product	Min.	Max.
RM01 <sup>1</sup>	RW17-1D2-D004	0.28	0.40	R01 <sup>1</sup>	RW17-1D3-D004	0.28	0.40	D01	MPW25-3-C016	0.10	0.16
RM02 <sup>1</sup>	RW17-1D2-C063	0.40	0.63	R02 <sup>1</sup>	RW17-1D3-C063	0.40	0.63	D02	MPW25-3-C025	0.16	0.25
RM03 <sup>1</sup>	RW17-1D2-D008	0.56	0.80	R03 <sup>1</sup>	RW17-1D3-D008	0.56	0.80	D03	MPW25-3-C040	0.25	0.40
RM04 <sup>1</sup>	RW17-1D2-D012	0.80	1.20	R04 <sup>1</sup>	RW17-1D3-D012	0.80	1.20	D04	MPW25-3-C063	0.40	0.63
RM05 <sup>1</sup>	RW17-1D2-D018	1.20	1.80	R05 <sup>1</sup>	RW17-1D3-D018	1.20	1.80	D05	MPW25-3-U001	0.63	1.00
RM06 <sup>1</sup>	RW17-1D2-D028	1.80	2.80	R06 <sup>1</sup>	RW17-1D3-D028	1.80	2.80	D06	MPW25-3-D016	1.00	1.60
RM07 <sup>1</sup>	RW17-1D2-U004	2.80	4.00	R07 <sup>1</sup>	RW17-1D3-U004	2.80	4.00	D07	MPW25-3-D025	1.60	25.0
RM08 <sup>1</sup>	RW17-1D2-D063	4.00	6.30	R08 <sup>1</sup>	RW17-1D3-D063	4.00	6.00	D08	MPW25-3-U004	2.50	4.00
RM09 <sup>1</sup>	RW17-1D2-U008	5.60	8.00	R09 <sup>1</sup>	RW17-1D3-U008	5.60	8.00	D09	MPW25-3-D063	4.00	6.30
RM10 <sup>1</sup>	RW17-1D2-U010	7.00	10	R10 <sup>1</sup>	RW17-1D3-U010	7.00	10	D10	MPW25-3-U010	6.30	10
RM11 <sup>1</sup>	RW17-1D2-D125	8.00	12	R11 <sup>1</sup>	RW17-1D3-D125	8.00	12	D11	MPW25-3-U016	10	16
RM12 <sup>1</sup>	RW17-1D2-U015	10.0	15	R12 <sup>1</sup>	RW17-1D3-U015	10	15	D12	MPW25-3-U020	16	20
RM13 <sup>1</sup>	RW17-1D2-U017	11.0	17	R13 <sup>1</sup>	RW17-1D3-U017	11	17	D13	MPW25-3-U025	20	25
RM14 <sup>1</sup>	RW17-2D2-U010	7.00	10	R14 <sup>1</sup>	RW17-2D3-U010	7.00	10	D14	MPW25-3-U032	25	32
RM15 <sup>1</sup>	RW17-2D2-D125	8.00	12	R15 <sup>1</sup>	RW17-2D3-D125	8.00	12	D15	MPW65-3-U016	10	16
RM16 <sup>1</sup>	RW17-2D2-U015	10	15	R16 <sup>1</sup>	RW17-2D3-U015	10	15	D16	MPW65-3-U020	16	20
RM17 <sup>1</sup>	RW17-2D2-U017	11	17	R17 <sup>1</sup>	RW17-2D3-U017	11	17	D17	MPW65-3-U025	20	25
RM18 <sup>1</sup>	RW17-2D2-U023	15	23	R18 <sup>1</sup>	RW17-2D3-U023	15	23	D18	MPW65-3-U032	25	32
RM19 <sup>1</sup>	RW17-2D2-U032	22	32	R19 <sup>1</sup>	RW17-2D3-U032	22	32	D19	MPW65-3-U040	32	40
RM20	RW27-1D2-D004	0.28	0.40	R20	RW27-1D3-D004	0.28	0.40	D20	MPW65-3-U050	40	50
RM21	RW27-1D2-C063	0.40	0.63	R21	RW27-1D3-C063	0.40	0.63	D21	MPW65-3-U065	50	65
RM22	RW27-1D2-D008	0.56	0.80	R22	RW27-1D3-D008	0.56	0.80	D22	MPW100-3-U075	55	75
RM23	RW27-1D2-D012	0.80	1.20	R23	RW27-1D3-D012	0.80	1.20	D23	MPW100-3-U090	70	90
RM24	RW27-1D2-D018	1.20	1.80	R24	RW27-1D3-D018	1.20	1.80	D24	MPW100-3-U100	80	100
RM25	RW27-1D2-D028	1.80	2.80	R25	RW27-1D3-D028	1.80	2.80				
RM26	RW27-1D2-U004	2.80	4.00	R26	RW27-1D3-U004	2.80	4.00				
RM27	RW27-1D2-D063	4.00	6.30	R27	RW27-1D3-D063	4.00	6.30				
RM28	RW27-1D2-U008	5.60	8.00	R28	RW27-1D3-U008	5.60	8.00				
RM29	RW27-1D2-U010	7.00	10	R29	RW27-1D3-U010	7.00	10				
RM30	RW27-1D2-D125	8.00	12	R30	RW27-1D3-D125	8.00	12				
RM31	RW27-1D2-U015	10	15	R31	RW27-1D3-U015	10	15				
RM32	RW27-1D2-U017	11	17	R32	RW27-1D3-U017	11	17				
RM33	RW27-1D2-U023	15	23	R33	RW27-1D3-U023	15	23				
RM34	RW27-1D2-U032	22	32	R34	RW27-1D3-U032	22	32				
RM35	RW67-1D2-U040	25	40	R35	RW67-1D3-U040	25	40				
RM36	RW67-2D2-U040	25	40	R37	RW67-1D3-U050	32	50				
RM38	RW67-2D2-U050	32	50	R38	RW67-2D3-U050	32	50				
RM39	RW67-2D2-U057	40	57	R39	RW67-2D3-U057	40	57				
RM40	RW67-2D2-U063	50	63	R40	RW67-2D3-U063	50	63				
RM41	RW67-2D2-U070	57	70	R41	RW67-2D3-U070	57	70				
RM42	RW67-2D2-U080	63	80	R42	RW67-2D3-U080	63	80				
				R43	RW117-1D3-U080	63	80				
				R44	RW117-1D3-U097	75	97				
				R45	RW117-1D3-U112	90	112				
				R46	RW117-2D3-U097	75	97				
				R47	RW117-2D3-U112	90	112				
				R48	RW317-1D3-U150	100	150				
				R49	RW317-1D3-U215	140	215				
				R50	RW317-1D3-U310	200	310				
				R51	RW317-1D3-U420	275	420				
				R54	RW407-1D3-U600	400	600				
				R55	RW407-1D3-U840	560	840				

Notes: 1) Non-stocked item



WEG's full voltage non-reversing combination starters represent a competitive alternative to the traditional NEMA starters by offering:

- reduced overall dimensions, yet providing reasonable internal wiring space
- rotary through-the-door disconnect instead of the traditional flange operator
- UL/CSA approved performance in more compact components.

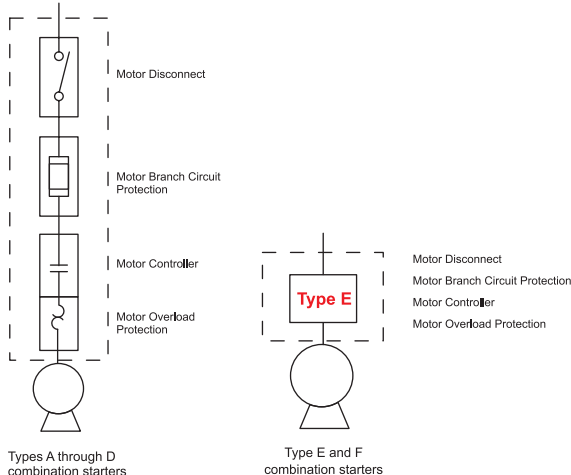
Two series are available off the shelf:

- MCCB disconnect – ESWC Series
- Motor protector – ESWE & ESWF Series

### Combination Starter Basics

Combination starters are the most common type of packaged motor controllers. They are called combination because of their construction and combined functions required by the US National Electric Code (NEC): Motor Disconnect, Motor Branch Circuit Protection, Motor Controller and Motor Overload Protection. UL & CSA currently recognizes six different constructions of combination starters that meet the requirements of a motor branch circuit.

Constructions Types A through D are traditional starters that use either a listed disconnect switch and fuses or a listed circuit breaker as the disconnect means and for short circuit protection. Each type uses a separate UL508 listed motor controller and overload relay. Recently revisions on UL508 introduced the Type E and Type F starters.



UL Combination Starter Type	Device Used for Component Function			
	Disconnected	Branch Circuit Protection	Motor Controller	Motor OL Relay
A	UL 98 Manual Disconnect	UL 248 Fuses	UL 508 Magnetic or Solid State Controller	UL 508 Motor Overload Relay
B		UL 508 Motor Short Circuit Protector		
C	UL 489 Inverse Time Circuit Breaker			
D	UL 489 Instantaneous Trip Circuit Breaker			
E	UL 508 Self-Protected Combination Controller			
F	UL 508 Manual Self-Protected Combination Controller	UL 508 Magnetic or Solid State Controller	UL 508 Manual Self-Protected Combination Controller	

Type E starter is a self-protected combination motor controller that combines in a single device all the required functions of a combination starter eliminating any additional requirements for upstream fuses or circuit breaker. Type F starter consists of a listed manual Type E combined with a UL508 listed contactor.

## ESWC

### Combination Type-C Across The Line Starter

#### THREE-PHASE without Control Power Transformer

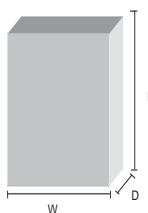
- Branch Disconnect: Rotary through-the-door Handle
- Short-Circuit Protection: Molded Case Circuit Breaker
- Motor Control: Magnetic Contactor
- Overload Protection: Thermal Overload Relay
- Control Devices: Hand-Off-Auto switch, Start- Stop and reset pushbutton
- Other enclosure options available on request

#### ESWC Series - Combination Type-C Across The Line Starter with no CPT

	Max. 3-ph Hp Motors				Overload Setting Range (A)	Control Voltage (1) (Vac)	Metallic Enclosure Type 4/12			Multiplier
	200V	230V	460V	575V			Catalog Number	List Price	Box Size	
Motor Protectors	1-1/2	1 1/2	3	5	4 - 6.3	120	ESWC-25V18N4-R27	\$1,635	C-1	Z3
						208-240	ESWC-25V24N4-R27			
						480	ESWC-25V47N4-R27			
Contactors	2	2	5	5	5.6 - 8	120	ESWC-25V18N4-R28	\$1,635	C-1	
						208-240	ESWC-25V24N4-R28			
						480	ESWC-25V47N4-R28			
Overloads	3	3	7 1/2	7.5	8 - 12.5	120	ESWC-25V18N4-R30	\$1,635	C-1	
						208-240	ESWC-25V24N4-R30			
						480	ESWC-25V47N4-R30			
Enclosed Starters	5	5	10	10	11 - 17	120	ESWC-25V18N4-R32	\$1,680	C-1	
						208-240	ESWC-25V24N4-R32			
						480	ESWC-25V47N4-R32			
Relays	7 1/2	7 1/2	15	15	15 - 23	120	ESWC-25V18N4-R33	\$1,680	C-1	
						208-240	ESWC-25V24N4-R33			
						480	ESWC-25V47N4-R33			
Pushbuttons and Pilot Lights	10	10	20	25	22 - 32	120	ESWC-40V18N4-R34	\$1,765	C-1	
						208-240	ESWC-40V24N4-R34			
						480	ESWC-40V47N4-R34			
Terminal Blocks	10	15	25	25	25 - 40	120	ESWC-40V18N4-R35	\$1,850	C-1	
						208-240	ESWC-40V24N4-R35			
						480	ESWC-40V47N4-R35			
Power Factor Correction	10	15	30	-	32 - 50	120	ESWC-40V18N4-R37	\$1,980	C-1	
						208-240	ESWC-40V24N4-R37			
						480	ESWC-40V47N4-R37			
Appendix A	20	20	40	50	40 - 57	120	ESWC-65V18N4-R39	\$2,070	C-1	
						208-240	ESWC-65V24N4-R39			
						480	ESWC-65V47N4-R39			
Appendix B	20	20	50	-	57 - 70	120	ESWC-65V18N4-R41	\$2,160	C-1	
						208-240	ESWC-65V24N4-R41			
						480	ESWC-65V47N4-R41			
Motor Protectors	25	30	60	60	63 - 80	120	ESWC-105V18N4-R43	\$2,765	C-1	
						208-240	ESWC-105V24N4-R43			
						480	ESWC-105V47N4-R43			
Contactors	30	40	75	75	75 - 97	120	ESWC-105V18N4-R44	\$2,800	C-1	
						208-240	ESWC-105V24N4-R44			
						480	ESWC-105V47N4-R44			
Overloads	40	60	100	125	100 - 150	120	ESWC-150V18N4-R48	\$5,210	C-2	
						208-240	ESWC-150V24N4-R48			
						480	ESWC-150V47N4-R48			
Enclosed Starters	50	60	125	150	140 - 215	120	ESWC-150V18N4-R49	\$5,290	C-2	
						208-240	ESWC-150V24N4-R49			
						480	ESWC-150V47N4-R49			
Relays	60	75	150	200	140 - 215	120	ESWC-180V18N4-R49	\$5,530	C-2	
						208-240	ESWC-180V24N4-R49			
						480	ESWC-180V47N4-R49			
Terminal Blocks	75	100	200	250	200 - 310	120	ESWC-300V18N4-R50	\$8,670	C-3	
						208-240	ESWC-300V24N4-R50			
						480	ESWC-300V47N4-R50			
Power Factor Correction	100	125	250	300	275 - 420	120	ESWC-300V18N4-R51	\$9,250	C-3	
						208-240	ESWC-300V24N4-R51			
						480	ESWC-300V47N4-R51			

**Notes:**

- (1) Please contact your local WEG representative for starters with 575V control voltage.
- (2) 3-phase starters with 120V coil are pre-wired for separate control
- (3) 3-phase starters can be wired for single-phase applications



Box Size	Dimensions (inches)		
	H	W	D
C-1	24	16	8
C-2	32	24	12
C-3	40	32	12

## ESWC Series - Combination Type-C Across The Line Starter

ESWC

### THREE-PHASE with Control Power Transformer

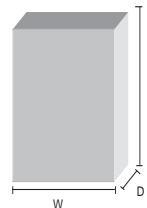
- Branch Disconnect: Rotary through-the-door Handle
- Short-Circuit Protection: Molded Case Circuit Breaker
- Motor Control: Magnetic Contactor
- Overload Protection: Thermal Overload Relay
- Control Devices: Hand-Off-Auto switch, Start-Stop and reset pushbutton
- Other enclosure options available on request

### ESWC Series - Combination Type-C Across The Line Starter with CPT

Max. 3-ph Hp Motors				Overload Setting Range (A)	Control Voltage (prim. / sec.) (Vac)	Metallic Enclosure Type 4/12			Multiplier
200V	230V	460V	575V			Catalog Number	List Price	Box Size	
1-1/2	1 1/2	3	5	4 - 6.3	240 / 120	ESWC-25T02N4-R27	\$1,835	C-1	Z3
					480 / 120	ESWC-25T04N4-R27			
					575 / 120	ESWC-25T05N4-R27			
2	2	5	5	5.6 - 8	240 / 120	ESWC-25T02N4-R28	\$1,835	C-1	
					480 / 120	ESWC-25T04N4-R28			
					575 / 120	ESWC-25T05N4-R28			
3	3	7 1/2	7.5	8 - 12.5	240 / 120	ESWC-25T02N4-R30	\$1,835	C-1	
					480 / 120	ESWC-25T04N4-R30			
					575 / 120	ESWC-25T05N4-R30			
5	5	10	10	11 - 17	240 / 120	ESWC-25T02N4-R32	\$1,880	C-1	
					480 / 120	ESWC-25T04N4-R32			
					575 / 120	ESWC-25T05N4-R32			
7 1/2	7 1/2	15	15	15 - 23	240 / 120	ESWC-25T02N4-R33	\$1,880	C-1	
					480 / 120	ESWC-25T04N4-R33			
					575 / 120	ESWC-25T05N4-R33			
10	10	20	25	22 - 32	240 / 120	ESWC-40T02N4-R34	\$1,965	C-1	
					480 / 120	ESWC-40T04N4-R34			
					575 / 120	ESWC-40T05N4-R34			
10	15	25	25	25 - 40	240 / 120	ESWC-40T02N4-R35	\$2,050	C-1	
					480 / 120	ESWC-40T04N4-R35			
					575 / 120	ESWC-40T05N4-R35			
10	15	30	-	32 - 50	240 / 120	ESWC-40T02N4-R37	\$2,180	C-1	
					480 / 120	ESWC-40T04N4-R37			
					575 / 120	ESWC-40T05N4-R37			
20	20	40	50	40 - 57	240 / 120	ESWC-65T02N4-R39	\$2,320	C-1	
					480 / 120	ESWC-65T04N4-R39			
					575 / 120	ESWC-65T05N4-R39			
20	20	50	-	57 - 70	240 / 120	ESWC-65T02N4-R41	\$2,410	C-1	
					480 / 120	ESWC-65T04N4-R41			
					575 / 120	ESWC-65T05N4-R41			
25	30	60	60	63 - 80	240 / 120	ESWC-105T02N4-R43	\$3,015	C-1	
					480 / 120	ESWC-105T04N4-R43			
					575 / 120	ESWC-105T05N4-R43			
30	-	75	75	75 - 97	240 / 120	ESWC-105T02N4-R44	\$3,050	C-1	
					480 / 120	ESWC-105T04N4-R44			
					575 / 120	ESWC-105T05N4-R44			
40	60	100	125	100 - 150	240 / 120	ESWC-150T02N4-R48	\$5,610	C-2	
					480 / 120	ESWC-150T04N4-R48			
					575 / 120	ESWC-150T05N4-R48			
50	60	125	150	140 - 215	240 / 120	ESWC-150T02N4-R49	\$5,690	C-2	
					480 / 120	ESWC-150T04N4-R49			
					575 / 120	ESWC-150T05N4-R49			
60	75	150	200	140 - 215	240 / 120	ESWC-180T02N4-R49	\$5,930	C-2	
					480 / 120	ESWC-180T04N4-R49			
					575 / 120	ESWC-180T05N4-R49			
75	100	200	250	200 - 310	240 / 120	ESWC-300T02N4-R50	\$9,070	C-3	
					480 / 120	ESWC-300T04N4-R50			
					575 / 120	ESWC-300T05N4-R50			
100	125	250	300	275 - 420	240 / 120	ESWC-300T02N4-R51	\$9,650	C-3	
					480 / 120	ESWC-300T04N4-R51			
					575 / 120	ESWC-300T05N4-R51			

**Notes:**

- (1) Please contact your local WEG representative for starters with other control voltage.
- (2) 3-phase starters can be wired for single-phase applications



Dimensions (inches)			
Box Size	Enclosure Size		
	H	W	D
C-1	24	16	8
C-2	32	24	12
C-3	40	32	12

General Information

Circuit Protection

Disconnect Switches

Motor Protectors

Contactors

Overloads

Enclosed Starters

Relays

Pushbuttons and Pilot Lights

Terminal Blocks

Power Factor Correction

Appendix A

Appendix B

## ESWE

### Combination Type-E Across The Line Starter

- Branch Disconnect: Rotary through-the-door Handle
- Short-Circuit Protection: Manual Motor Protection
- Motor Control: Magnetic Contactor
- Overload Protection: Manual Motor Protection
- Control Devices: Hand-Off-Auto switch, Start-Stop pushbutton, pilot lights
- Other enclosure options available upon request

### Three-Phase without CPT - Enclosure Type-4X

### Combination Type-E Across The Line Starter

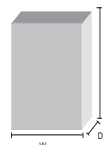
	Max. 3-ph Hp Motors				Overload Setting Range (A)	Control Voltage (1) (Vac)	Non-Metallic Enclosure Type 4X			Multiplier
	200V	230V	460V	575V			Catalog Number	List Price	Box Size	
-	-	1/2	1/2	0.63 - 1.0	120	ESWE-9V18KX-D05	\$855	E-1	Z3	
					480	ESWE-9V47KX-D05				
					120	ESWE-9V18KX-D06				
1/4	1/3	3/4	1	1.0 - 1.6	208-240	ESWE-9V24KX-D06	\$855	E-1	Z3	
					480	ESWE-9V47KX-D06				
					120	ESWE-9V18KX-D07				
1/2	1/2	1-1/2	1-1/2	1.6 - 2.5	208-240	ESWE-9V24KX-D07	\$855	E-1	Z3	
					480	ESWE-9V47KX-D07				
					120	ESWE-9V18KX-D08				
3/4	1	2	3	2.5 - 4.0	208-240	ESWE-9V24KX-D08	\$855	E-1	Z3	
					480	ESWE-9V47KX-D08				
					120	ESWE-9V18KX-D09				
1-1/2	1-1/2	3	5	4.0 - 6.3	208-240	ESWE-9V24KX-D09	\$855	E-1	Z3	
					480	ESWE-9V47KX-D09				
					120	ESWE-9V18KX-D10				
3	3	5	7-1/2	6.3 - 10	208-240	ESWE-9V24KX-D10	\$865	E-1	Z3	
					480	ESWE-9V47KX-D10				
					120	ESWE-18V18KX-D11				
5	5	10	15	10 - 16	208-240	ESWE-18V24KX-D11	\$875	E-1	Z3	
					480	ESWE-18V47KX-D11				
					120	ESWE-25V18KX-D12				
7-1/2	7-1/2	15	15	16 - 20	208-240	ESWE-25V24KX-D12	\$900	E-1	Z3	
					480	ESWE-25V47KX-D12				
					120	ESWE-40V18KX-D14				
10	10	20	25	25 - 32	208-240	ESWE-40V24KX-D14	\$990	E-1	Z3	
					480	ESWE-40V47KX-D14				
					120	ESWE-40V47KX-D14				

### Three-Phase with CPT - Enclosure Type-4X

	Max. 3-ph Hp Motors				Overload Setting Range (A)	Control Voltage (prim. / sec.) (Vac)	Non-Metallic Enclosure Type 4X			Multiplier
	200V	230V	460V	575V			Catalog Number	List Price	Box Size	
-	-	1/2	1/2	0.63 - 1.0	480 / 120	ESWE-9T04KX-D05	\$1,140	E-1	Z3	
					575 / 120	ESWE-9T05KX-D05				
					240 / 120	ESWE-9T02KX-D06				
1/4	1/3	3/4	1	1.0 - 1.6	480 / 120	ESWE-9T04KX-D06	\$1,140	E-1	Z3	
					575 / 120	ESWE-9T05KX-D06				
					240 / 120	ESWE-9T02KX-D07				
1/2	1/2	1-1/2	1-1/2	1.6 - 2.5	480 / 120	ESWE-9T04KX-D07	\$1,140	E-1	Z3	
					575 / 120	ESWE-9T05KX-D07				
					240 / 120	ESWE-9T02KX-D08				
3/4	1	2	3	2.5 - 4.0	480 / 120	ESWE-9T04KX-D08	\$1,140	E-1	Z3	
					575 / 120	ESWE-9T05KX-D08				
					240 / 120	ESWE-9T02KX-D09				
1-1/2	1-1/2	3	5	4.0 - 6.3	480 / 120	ESWE-9T04KX-D09	\$1,140	E-1	Z3	
					575 / 120	ESWE-9T05KX-D09				
					240 / 120	ESWE-9T02KX-D10				
3	3	5	7-1/2	6.3 - 10	480 / 120	ESWE-9T04KX-D10	\$1,140	E-1	Z3	
					575 / 120	ESWE-9T05KX-D10				
					240 / 120	ESWE-18T02KX-D11				
5	5	10	15	10 - 16	480 / 120	ESWE-18T04KX-D11	\$1,155	E-1	Z3	
					575 / 120	ESWE-18T05KX-D11				
					240 / 120	ESWE-25T02KX-D12				
7-1/2	7-1/2	15	15	16 - 20	480 / 120	ESWE-25T04KX-D12	\$1,175	E-1	Z3	
					575 / 120	ESWE-25T05KX-D12				
					240 / 120	ESWE-40T02KX-D14				
10	10	20	25	25 - 32	480 / 120	ESWE-40T04KX-D14	\$1,260	E-1	Z3	
					575 / 120	ESWE-40T05KX-D14				
					240 / 120	ESWE-40T05KX-D14				

**Notes:**

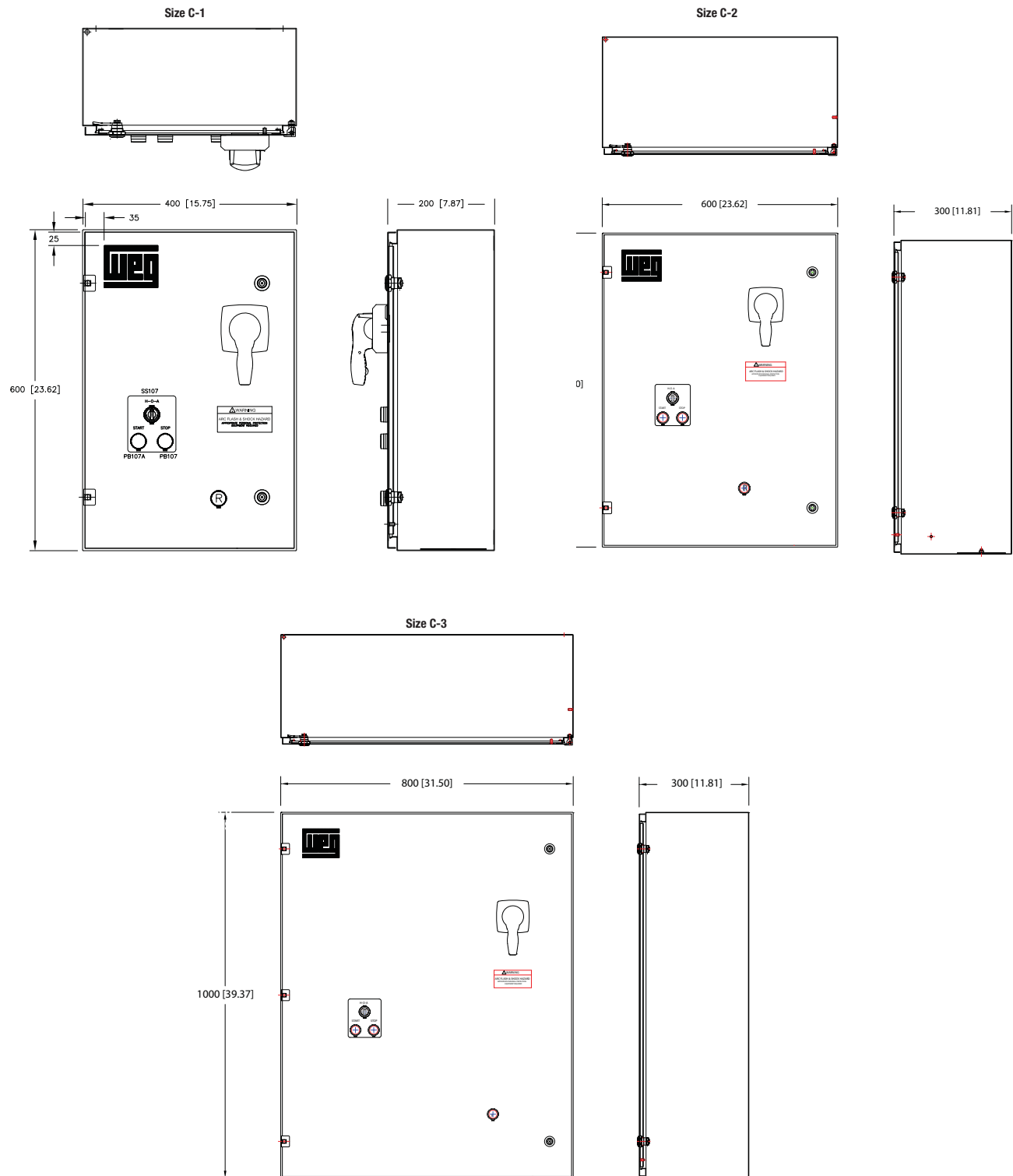
- (1) Please contact your local WEG representative for starters with 575V control voltage.
- (2) 3-phase starters with 120V coil are pre-wired for separate control
- (3) 3-phase starters can be wired for single-phase applications



Dimensions (inches)			
Box Size	Enclosure Size		
	H	W	D
E-1	14.2	9.9	6.6



### Dimensions (in) - ESWC Series Type 4 / 12 - Metallic Enclosure



General Information

Circuit Protection

Disconnect Switches

Motor Protectors

Contactors

Overloads

Enclosed Starters

Relays

Pushbuttons and Pilot Lights

Terminal Blocks

Power Factor Correction

Appendix A

Appendix B