



WEG Rolled Steel General Purpose 3-phase Motors

56/140 Frame TEFC Motors – 1/4HP to 3HP

Standard Features

- 208-230/460 Voltage, as noted
- Rated Output: 1/4 - 3 HP
- 1800, 3600, 1200 RPM
- Class F insulation
- IP55
- Constant and variable torque speed ratings for inverter duty, as noted
- Frame Sizes: NEMA 56 to 143/145
- Rigid base, C-face footed or footless mount
- Enclosure: TEFC or TENV
- Aluminum endshields
- Certified Class I, Div 2, Groups A,B,C,D
- Internal bolts, giving a clean surface to the motor
- Double shielded ball bearings on frames 56 to 143/145
- Mounting orientation:
 - Cface – horizontal or vertical
 - Rigid base – horizontal only

Advanced Features

- New ventilation system improves thermal performance
- Robust foot design suitable for tougher applications
- Oversized diagonally split aluminum terminal box exceeds IP55 requirements
- Terminal box rotatable in 90° increments for flexibility during installation
- Color coded leads as standard for easy wiring
- Bearing cap as standard on flanged motors,
- Motor frame painting system 500 hours salt spray resistant

Applications

Typical uses in many commercial and industrial environments such as HVAC, Conveyors, Pumping, and Cooling Towers

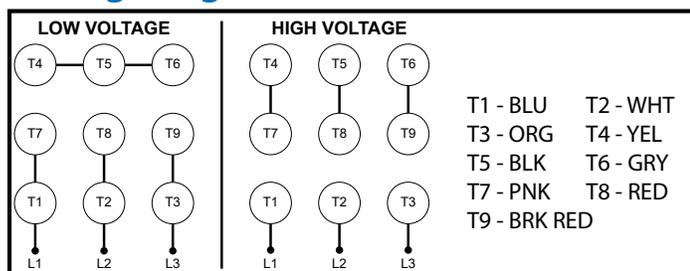


00118ET3E56CFL-S



00118ET3E56C-S

Wiring Diagram



NOTE: Interchange any 2 line wires to reverse rotation



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Motor Specifications – 3-phase																									
Part Number	Price	HP	Base RPM	Volts	Encl.	NEMA Frame	Service Factor*	NEMA Design	Weight (lb)	Drawing Links															
C-face With Rigid Base																									
.2518ES3E56C-S	\$202.00	1/4	1800	208–230/460 VAC	TEFC	56C	1.15	-	21.03	PDF															
.2536ES3E56C-S	\$193.00		3600						20.5	PDF															
.3318ES3E56C-S	\$205.00	1/3	1800						22.55	PDF															
.3336ES3E56C-S	\$202.00		3600						20.36	PDF															
.5018ES3E56C-S	\$233.00	1/2	1800						230/460 VAC	TENV	56CZ	1.0	-	24.03	PDF										
.5018NT3FVD56C-S	\$449.00													3600	31.1	PDF									
.7518ES3E56C-S	\$249.00	3/4												1800	208–230/460 VAC	TEFC	56C	1.15	-	25.6	PDF				
.7518NT3FVD56C-S	\$477.00																			230/460 VAC	TENV	56CZ	1.0	32.58	PDF
.7536ES3E56C-S	\$233.00																			3600	23.16	PDF			
00112ET3E56C-S	\$393.00																			1200	40.18	PDF			
00118ET3E56C-S	\$305.00	1	1800						230/460 VAC	TENV	56CZ	-	38.57	PDF											
00118NT3FVD56C-S	\$510.00												39.46	PDF											
00136ET3EW56C-S	\$315.00			3600	23.03	PDF																			
00158ET3E145TC-S	\$378.00			1 1/2	1800	208–230/460 VAC	TEFC	56C					1.15	B	40.16	PDF									
00158ET3E56C-S	\$347.00	3600	39.33						PDF																
00156ET3E56C-S	\$345.00	3600	34.71						PDF																
00218ET3E145TC-S	\$418.00	2	1800						143/5TC	56HC	143/5TC	B			45.41	PDF									
00218ET3E56C-S	\$379.00														3600	43.82	PDF								
00236ET3E56C-S	\$387.00	3	3600						56HC	143/5TC	56HC	B			41.51	PDF									
00336ET3E145TC-S	\$454.00			50.67	PDF																				
00336ET3E56C-S	\$454.00			47.9	PDF																				
Rigid Base Only																									
.5018ES3E56-S	\$215.00	1/2	1800	208–230/460 VAC	TEFC	56	1.15	-	24	PDF															
.5036ES3E56-S	\$193.00		3600						21.85	PDF															
00118ET3E56-S	\$284.00	1	1800						B	37.87	PDF														
00218ET3E56-S	\$358.00	2	3600							43.96	PDF														
00236ET3E145T-S	\$385.00									41.69	PDF														
C-face Only																									
.3318ES3E56CFL-S	\$205.00	1/3	1800						208–230/460 VAC	TEFC	56C	1.15	-	21.78	PDF										
.3336ES3E56CFL-S	\$202.00		3600											20.11	PDF										
.5018ES3E56CFL-S	\$233.00	1/2	1800											B	22.91	PDF									
.5036ES3E56CFL-S	\$211.00		3600												20.91	PDF									
.7518ES3E56CFL-S	\$249.00	3/4	1800	-	24.83	PDF																			
.7536ES3E56CFL-S	\$233.00		3600		22.22	PDF																			
00118ET3E56CFL-S	\$305.00	1	1800	B	38.33	PDF																			
00136ET3EW56CFL-S	\$315.00		3600		22.46	PDF																			
00158ET3E56CFL-S	\$347.00	1 1/2	1800	B	37.59	PDF																			
00156ET3E56CFL-S	\$345.00		3600		33.76	PDF																			
00218ET3E56CFL-S	\$379.00	2	1800		-	42.21	PDF																		
00236ET3E56CFL-S	\$387.00		3600			41.63	PDF																		
00336ET3E56CFL-S	\$454.00	3	3600		46.49	PDF																			

Frame 143/5C: Motor dimensions will match either 143C or 145C frame
 *Note: 1.15 SF (1.0 SF with VFD)



WEG Rolled Steel General Purpose 3-phase Motors

Performance Data – 3-phase														
Part Number	HP	F.L. RPM	Volts	Current			Torque			Torque Speed Rating		F.L. Effic. %	F.L. Power Factor	Moment of Inertia (Joules)
				No Load Current	Full Load Amps	Locked Rotor Amps (460V)	Full Load (lb-ft)	Locked Rotor	Breakdown	Constant	Variable			
C-face With Rigid Base														
.2518ES3E56C-S	1/4	1765	208-230/460 VAC	0.776-0.9/0.45	1.15-1.04/0.521	6.3	1.01	240	300	10:1	1000:1	70.0	0.62	0.00191
.2536ES3E56C-S		3475		0.431-0.5/0.25	1.01-0.914/0.457	6.4	0.51	250				57.5	0.86	0.00164
.3318ES3E56C-S	1/3	1765		0.81-0.94/0.47	1.38-1.25/0.624	7.1	1.33	230				74.0	0.68	0.00218
.3336ES3E56C-S		3485		0.621-0.72/0.36	1.33-1.2/0.602	6.4	0.67	250				62.0	0.84	0.00164
.5018ES3E56C-S	1/2	1760	1.03-1.2/0.6	1.91-1.72/0.862	7	2.02	240	500	1000:1	1000:1	77.0	0.70	0.00246	
.5018NT3FVD56C-S		1775	1.52/0.76	1.97/0.986	8.7	2.01	330				0.60	0.00330		
.7518ES3E56C-S	3/4	1755	208-230/460 VAC	1.55-1.8/0.9	2.7-2.44/1.22	6.9	3.04	240	300	10:1	1000:1	78.5	0.72	0.00273
.7518NT3FVD56C-S		1770	230/460 VAC	1.82/0.91	2.61/1.30	9	3.02	350	450	1000:1		81.5	0.65	0.00380
.7536ES3E56C-S		3475	0.948-1.1/0.55	2.5-2.26/1.13	7	1.54	250	290	10:1	72.0		0.85	0.00218	
00112ET3E56C-S	1	1145	208-230/460 VAC	1.75-2.03/1.01	3.5-3.16/1.58	5.8	6.22	230	280	5:1	1000:1	82.5	0.72	0.00673
00118ET3E56C-S		1765	230/460 VAC	1.53-1.78/0.89	3.25-2.94/1.47	8.6	4.04	280	300	1000:1		85.5	0.75	0.00519
00118NT3FVD56C-S			1765	230/460 VAC	1.78/0.89							2.94/1.47	0.00520	
00136ET3EW56C-S		3435	1.38-1.6/0.798	3.32-3.0/1.5	8.8	2.07	360	380	78.5	0.80		0.00107		
00158ET3E145TC-S	1	1750	208-230/460 VAC	1.87-2.17/1.08	4.47-4.04/2.02	8.2	6.11	270	300	5:1	1000:1	86.5	0.79	0.00431
00158ET3E56C-S					4.47-4.04/2.02									0.00464
00156ET3E56C-S	1/2	3520		1.48-1.72/0.859	4.14-3.74/1.87	9.1	3.04	230				84.0	0.88	0.00431
00218ET3E145TC-S		2		1745	2.41-2.8/1.4	6.02-5.44/2.72	8.2	8.16				270	86.5	0.80
00218ET3E56C-S	1745		6.02-5.44/2.72	0.00546										
00236ET3E56C-S	2	3520	1.83-2.13/1.06	5.46-4.94/2.47	9.9	4.05	250	85.5	0.89	0.00539				
00336ET3E145TC-S		3	3500	2.83-2.56/1.28	7.76-7.02/3.51	9.5	6.11	300	86.5	0.91	0.00701			
00336ET3E56C-S	3505		2.33-2.7/1.35	7.76-7.34/3.67	9.3							6.10	280	0.87
Rigid Base Only														
.5018ES3E56-S	1/2	1760	208-230/460 VAC	1.03-1.2/0.6	1.91-1.72/0.862	7	2.02	240	300	10:1	1000:1	77.0	0.70	0.00246
.5036ES3E56-S		3500		0.776-0.9/0.45	1.86-1.69/0.843		1.02	260				68.0	0.81	0.00191
00118ET3E56-S	1	1765		1.53-1.78/0.89	3.25-2.94/1.47	8.6	4.04	280				85.5	0.75	0.00519
00218ET3E56-S	2	1745		2.41-2.8/1.4	6.02-5.44/2.72	8.2	8.16	270				86.5	0.80	0.00546
00236ET3E145T-S		3520	1.83-2.13/1.06	5.46-4.94/2.47	9.9				4.05	250	85.5			
C-face Only														
.3318ES3E56CFL-S	1/3	1765	208-230/460 VAC	0.81-0.94/0.47	1.38-1.25/0.624	7.1	1.33	230	300	10:1	1000:1	74.0	0.68	0.00218
.3336ES3E56CFL-S		3485		0.621-0.72/0.36	1.33-1.2/0.602	6.4	0.67	250				62.0	0.84	0.00164
.5018ES3E56CFL-S	1/2	1760		1.03-1.2/0.6	1.91-1.72/0.862	7	2.02	240				77.0	0.70	0.00246
.5036ES3E56CFL-S		3500		0.776-0.9/0.45	1.86-1.69/0.843		1.02	260				68.0	0.81	0.00191
.7518ES3E56CFL-S	3/4	1755	1.55-1.8/0.9	2.7-2.44/1.22	6.9	3.04	240	290	10:1	1000:1	78.5	0.72	0.00273	
.7536ES3E56CFL-S		3475	0.948-1.1/0.55	2.5-2.26/1.13	7	1.54	250				72.0	0.85	0.00218	
00118ET3E56CFL-S	1	1765	1.53-1.78/0.89	3.25-2.94/1.47	8.6	4.04	280	300	5:1	1000:1	85.5	0.75	0.00519	
00136ET3EW56CFL-S		3435	1.38-1.6/0.798	3.32-3.0/1.5	8.8	2.07	360	380			78.5	0.80	0.00107	
00158ET3E56CFL-S	1	1750	1.87-2.17/1.08	4.47-4.04/2.02	8.2	6.11	270	300	5:1	1000:1	86.5	0.79	0.00464	
00156ET3E56CFL-S	1/2	3520	1.48-1.72/0.859	4.14-3.74/1.87	9.1	3.04	230				84.0	0.88	0.00431	
00218ET3E56CFL-S	2	1745	2.41-2.8/1.4	6.02-5.44/2.72	8.2	8.16	270	86.5	0.80	0.00546				
00236ET3E56CFL-S		3520	1.83-2.13/1.06	5.46-4.94/2.47							9.9	4.05	250	85.5
00336ET3E56CFL-S	3	3505	2.33-2.7/1.35	7.76-7.34/3.67	9.3	6.10	280	380	86.5	0.87	0.00701			



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Alternate Performance Data (50Hz) – 3-phase						
Part Number	F.L. RPM (380-415)	Volts	Current			F.L. Power Factor
			No Load Current	Full Load Amps	Locked Rotor Amps (380-415)	
C-face With Rigid Base						
<u>.2518ES3E56C-S</u>	1455-1465	190-220/380-415	0.844-0.919/0.422-0.487	1.13-1.1/0.564-0.585	5.3-5.7	0.7-0.63
<u>.2536ES3E56C-S</u>	2860-2885		0.42-0.441/0.21-0.234	0.938-0.832/0.469-0.441	5.4-6.3	0.9-0.87
<u>.3318ES3E56C-S</u>	1455-1465		0.924-1.01/0.462-0.534	1.36-1.3/0.678-0.69	5.6-6.1	0.76-0.69
<u>.3336ES3E56C-S</u>	2850-2880		0.586-0.658/0.293-0.349	1.27-1.14/0.635-0.604	5.3-6.1	0.89-0.85
<u>.5018ES3E56C-S</u>	1445-1460		1.24-1.39/0.618-0.737	1.9-1.81/0.95-0.962	5.8-6.3	0.78-0.71
<u>.7518ES3E56C-S</u>	1440-1450	190-220/380-415	1.71-2.06/0.856-1.09	2.74-2.6/1.37-1.38	5.6-6.2	0.8-0.73
<u>.7536ES3E56C-S</u>	2825-2860	190-220/380-415	1.05-1.25/0.526-0.665	2.52-2.26/1.26-1.2	5.5-6.3	0.91-0.86
<u>00112ET3E56C-S</u>	915-935		2.0-2.14/1.0-1.13	3.74-3.36/1.87-1.78	4.4-5.2	0.79-0.74
<u>00118ET3E56C-S</u>	1450-1460		1.76-1.86/0.879-0.988	3.4-3.06/1.7-1.62	6.5-7.5	0.81-0.77
<u>00136ET3EW56C-S</u>	2770-2815		1.56-1.79/0.781-0.949	3.4-3.11/1.7-1.65	6.5-7.5	0.86-0.8
<u>00158ET3E145TC-S</u>	1420-1435		2.13-2.37/1.07-1.26	4.82-4.28/2.41-2.27	6.1-7.2	0.84-0.8
<u>00158ET3E56C-S</u>		4.82-4.28/2.41-2.27				
<u>00156ET3E56C-S</u>	2895-2915	190-220/380-415	1.69-1.83/0.845-0.971	4.44-3.9/2.22-2.07	7.2-8.5	0.91-0.88
<u>00218ET3E145TC-S</u>	1415-1435	2.75-3.09/1.37-1.64	6.5-5.79/3.25-3.07	6.0-7.1	0.85-0.81	
<u>00218ET3E56C-S</u>		6.5-5.79/3.25-3.07				
<u>00236ET3E56C-S</u>	2875-2900	2.1-2.27/1.05-1.2	5.94-5.23/2.97-2.77	7.4-8.8	0.92-0.89	
<u>00336ET3E145TC-S</u>	2870-2895	2.52-2.72/1.26-1.44	8.5-7.38/4.25-3.91	7.4-8.9	0.93-0.91	
<u>00336ET3E56C-S</u>		2.66-2.91/1.33-1.54	8.88-7.72/4.44-4.09	7.7-9.0	0.89-0.87	
Rigid Base Only						
<u>.5018ES3E56-S</u>	1445-1460	190-220/380-415	1.24-1.39/0.618-0.737	1.9-1.81/0.95-0.962	5.8-6.3	0.78-0.71
<u>.5036ES3E56-S</u>	2865-2890		0.874-1.05/0.437-0.558	1.78-1.66/0.89-0.878	6.0-6.7	0.88-0.82
<u>00118ET3E56-S</u>	1450-1460		1.76-1.86/0.879-0.988	3.4-3.06/1.7-1.62	6.5-7.5	0.81-0.77
<u>00218ET3E56-S</u>	1415-1435		2.75-3.09/1.37-1.64	6.5-5.79/3.25-3.07	6.0-7.1	0.85-0.81
<u>00236ET3E145T-S</u>	2875-2900		2.1-2.27/1.05-1.2	5.94-5.23/2.97-2.77	7.4-8.8	0.92-0.89
C-face Only						
<u>.3318ES3E56CFL-S</u>	1455-1465	190-220/380-415	0.924-1.01/0.462-0.534	1.36-1.3/0.678-0.69	5.6-6.1	0.76-0.69
<u>.3336ES3E56CFL-S</u>	2850-2880		0.586-0.658/0.293-0.349	1.27-1.14/0.635-0.604	5.3-6.1	0.89-0.85
<u>.5018ES3E56CFL-S</u>	1445-1460		1.24-1.39/0.618-0.737	1.9-1.81/0.95-0.962	5.8-6.3	0.78-0.71
<u>.5036ES3E56CFL-S</u>	2865-2890		0.874-1.05/0.437-0.558	1.78-1.66/0.89-0.878	6.0-6.7	0.88-0.82
<u>.7518ES3E56CFL-S</u>	1440-1450		1.71-2.06/0.856-1.09	2.74-2.6/1.37-1.38	5.6-6.2	0.8-0.73
<u>.7536ES3E56CFL-S</u>	2825-2860		1.05-1.25/0.526-0.665	2.52-2.26/1.26-1.2	5.5-6.3	0.91-0.86
<u>00118ET3E56CFL-S</u>	1450-1460		1.76-1.86/0.879-0.988	3.4-3.06/1.7-1.62	6.5-7.5	0.81-0.77
<u>00136ET3EW56CFL-S</u>	2770-2815		1.56-1.79/0.781-0.949	3.4-3.11/1.7-1.65		0.86-0.8
<u>00158ET3E56CFL-S</u>	1420-1435		2.13-2.37/1.07-1.26	4.82-4.28/2.41-2.27	6.1-7.2	0.84-0.8
<u>00156ET3E56CFL-S</u>	2895-2915		1.69-1.83/0.845-0.971	4.44-3.9/2.22-2.07	7.2-8.5	0.91-0.88
<u>00218ET3E56CFL-S</u>	1415-1435		2.75-3.09/1.37-1.64	6.5-5.79/3.25-3.07	6.0-7.1	0.85-0.81
<u>00236ET3E56CFL-S</u>	2875-2900		2.1-2.27/1.05-1.2	5.94-5.23/2.97-2.77	7.4-8.8	0.92-0.89
<u>00336ET3E56CFL-S</u>	2870-2895		2.66-2.91/1.33-1.54	8.88-7.72/4.44-4.09	7.7-9.0	0.89-0.87