



WEG Rolled Steel General Purpose 1-phase Motors

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

Standard Features

- 120/230 Voltage, as noted
- Rated Output: 1/4 - 3 HP
- 1800, 3600 RPM
- Class F insulation
- IP55
- Frame Sizes: NEMA 56 to 143/145
- C-face footed or footless mount
- Enclosure: TEFC
- Aluminum endshields
- Internal bolts, giving a clean surface to the motor
- Double shielded ball bearings on frames 56 to 143/145
- Mounting orientation: horizontal or vertical

Advanced Features

- High starting torque – well suited for heavy starting loads
- 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
- Cooling Towers



.7518ES1B56CFL-S



.7518ES1B56C-S

Motor Specifications – 1-phase										
Part Number	Price	HP	Base RPM	Volts	Encl.	NEMA Frame	Service Factor	NEMA Design	Weight (lb)	Drawing Links
Rigid Base with C-face										
.2518ES1BW56C-S	\$216.00	1/4	1800	115/208–230 VAC	TEFC	56C	1.15	N	19	PDF
.2536ES1BW56C-S	\$210.00		3600						18	PDF
.3318ES1BW56C-S	\$228.00	1/3	1800						21	PDF
.3336ES1BW56C-S	\$216.00		3600						21	PDF
.5018ES1BW56C-S	\$250.00	1/2	1800						24	PDF
.5036ES1BW56C-S	\$235.00		3600						24	PDF
.7518ES1B56C-S	\$278.00	3/4	1800						30	PDF
.7536ES1B56C-S	\$265.00		3600						28	PDF
00118ES1B56C-S	\$318.00	1	1800					L	36	PDF
00136ES1B56C-S	\$284.00		3600					N	31	PDF
00158ES1B56C-S	\$359.00	1 1/2	1800			56HC		L	47	PDF
00156ES1B56C-S	\$341.00		3600			56C			35	PDF
00218ES1B145TC-S	\$483.00	2	1800			143/5TC			53	PDF
00236ES1B56C-S	\$442.00		3600			56HC			41	PDF
00336ES1E145TC-S	\$644.00	3	208–230/460 VAC			143/5TC			52	PDF
C-face										
.3318ES1BW56CFL-S	\$228.00	1/3	1800	115/208–230 VAC	TEFC	56C	1.15	N	20	PDF
.3336ES1BW56CFL-S	\$216.00		3600						19	PDF
.5018ES1BW56CFL-S	\$250.00	1/2	1800						23	PDF
.5036ES1BW56CFL-S	\$235.00		3600						22	PDF
.7518ES1B56CFL-S	\$278.00	3/4	1800						29	PDF
.7536ES1B56CFL-S	\$265.00		3600						27	PDF
00118ES1B56CFL-S	\$318.00	1	1800					L	36	PDF
00136ES1B56CFL-S	\$284.00		3600					N	31	PDF
00158ES1B56CFL-S	\$359.00	1 1/2	1800					L	47	PDF
00156ES1B56CFL-S	\$341.00		3600						36	PDF
00236ES1B56CFL-S	\$442.00	2							41	PDF

Frame 143/5C: Motor dimensions will match either 143C or 145C frame



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Performance Data – 1-phase												
Part Number	HP	F.L. RPM	Volts	Current			Torque			F.L. Effic. %	F.L. Power Factor	Moment of Inertia (joules)
				No Load Current (120/230)	Full Load Amps (115/208-230)	Locked Rotor Amps (230)	Full Load (lb-ft)	Locked Rotor	Breakdown			
								% of F.L. Torque				
Rigid Base with C-face												
<u>.2518ES1BW56C-S</u>	1/4	1735	115/208-230 VAC	4.0/2.0	4.6/2.54-2.3	5.3	1.03	310	280	57.0	0.60	0.00134
<u>.2536ES1BW56C-S</u>		3485		3.2/1.6	4.2/2.32-2.1	6.6	0.51	290	300	50.0	0.74	0.00062
<u>.3318ES1BW56C-S</u>	1/3	1735		5.4/2.7	6.0/3.32-3.0	5.6	1.35	320	280	61.0	0.59	0.00168
<u>.3336ES1BW56C-S</u>		3490		3.6/1.8	5.2/2.88-2.6	7	0.67	290	290	56.5	0.74	0.0008
<u>.5018ES1BW56C-S</u>	1/2	1730		6.6/3.3	8.0/4.42-4.0	5.7	2.06	320	270	64.0	0.63	0.00202
<u>.5036ES1BW56C-S</u>		3500		4.8/2.4	7.0/3.87-3.5	8	1.02	290	300	60.0	0.76	0.00098
<u>.7518ES1B56C-S</u>	3/4	1745		8.0/4.0	10.6/5.86-5.3	6.4	3.06	300	270	68.5	0.67	0.00328
<u>.7536ES1B56C-S</u>		3500		4.0/2.0	8.0/4.42-4.0	8	1.53	280	370	66.0	0.91	0.00166
<u>00118ES1B56C-S</u>	1	1745		9.6/4.8	13.6/7.52-6.8	6.7	4.08		270	71.0	0.68	0.00328
<u>00136ES1B56C-S</u>		3500		5.5/2.75	10.1/5.64-5.06	8.4	2.04		400	70.0	0.92	0.00199
<u>00158ES1B56C-S</u>	1 1/2	1745		7.8/3.9	15.0/8.27-7.48	8	6.12	250	270	77.0	0.83	0.00601
<u>00156ES1B56C-S</u>		3500		4.6/2.3	13.2/7.3-6.6		3.05	240	250	75.0	0.97	0.00248
<u>00218ES1B145TC-S</u>	2	1745		12.2/6.1	20.0/11.1-10.0	7.8	8.16	260	260	78.5	0.82	0.0068
<u>00236ES1B56C-S</u>		3495		5.0/2.5	17.5/9.62-8.73		4.08	220	250	77.0	0.97	0.00298
<u>00336ES1E145TC-S</u>	3	3490	208-230/460 VAC	4.0/2.0	14.0-12.7/6.35	8	6.12	210			80.0	0.94
C-face												
<u>.3318ES1BW56CFL-S</u>	1/3	1735	115/208-230 VAC	5.4/2.7	6.0/3.32-3.0	5.6	1.35	320	280	61.0	0.59	0.00168
<u>.3336ES1BW56CFL-S</u>		3490		3.6/1.8	5.2/2.88-2.6	7	0.67	290	290	56.5	0.74	0.0008
<u>.5018ES1BW56CFL-S</u>	1/2	1730		6.6/3.3	8.0/4.42-4.0	5.7	2.06	320	270	64.0	0.63	0.00202
<u>.5036ES1BW56CFL-S</u>		3500		4.8/2.4	7.0/3.87-3.5	8	1.02	290	300	60.0	0.76	0.00098
<u>.7518ES1B56CFL-S</u>	3/4	1745		8.0/4.0	10.6/5.86-5.3	6.4	3.06	300	270	68.5	0.67	0.00328
<u>.7536ES1B56CFL-S</u>		3500		4.0/2.0	8.0/4.42-4.0	8	1.53	280	370	66.0	0.91	0.00166
<u>00118ES1B56CFL-S</u>	1	1745		9.6/4.8	13.6/7.52-6.8	6.7	4.08		270	71.0	0.68	0.00437
<u>00136ES1B56CFL-S</u>		3500		5.5/2.75	10.1/5.64-5.06	8.4	2.04		400	70.0	0.92	0.00199
<u>00158ES1B56CFL-S</u>	1 1/2	1745		7.8/3.9	15.0/8.27-7.48	8	6.12	250	270	77.0	0.83	0.00601
<u>00156ES1B56CFL-S</u>		3500		4.6/2.3	13.2/7.3-6.6		3.05	240	250	75.0	0.97	0.00248
<u>00236ES1B56CFL-S</u>	2	3495		5.0/2.5	17.5/9.62-8.73	7.8	4.08	220				77.0

Wiring Diagram

