



WEG Rolled Steel General Purpose 3-phase Brake Motors

56/140 Frame TEFC Brake Motors – 1/4HP to 2HP

Standard Features

- 208-230/460 Voltage, as noted
- Spring set, solenoid actuated AC Brake – 208-230/460V
- Rated Output: 1/4 - 2 HP
- 1800 RPM
- Manual release brake lever
- Class F insulation
- Constant and variable torque speed ratings for inverter duty, as noted
- Frame Sizes: NEMA 56 to 143/145
- C-face footed, rigid, or footless mount
- Enclosure: TEFC, IP55
- 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

- Conveyors
- Door Operators
- Packaging Equipment
- Unit Handling



00118ET3EBM56CFL-S



00158ET3EBM145TC-S

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											
00118ET3EBM56C-S	\$1,156.00	1	1800	208-230/460 VAC	TEFC	56C	1.15	B	49.63	PDF	
00158ET3EBM145TC-S	\$1,428.00	1 1/2				143/5TC			51.46	PDF	
00218ET3EBM145TC-S	\$1,469.00	2				53.91			PDF		
Rigid Base Only											
.3318ES3EBMW56-S	\$732.00	1/3	1800	208-230/460 VAC	TEFC	56	1.15	-	25.54	PDF	
.5018ES3EBMW56-S	\$828.00	1/2							25.98	PDF	
.7518ES3EBMW56-S	\$975.00	3/4							29.6	PDF	
00118ET3EBM56-S	\$1,128.00	1							B	48.41	PDF
C-face Only											
.2518ES3EBMW56CFL-S	\$724.00	1/4	1800	208-230/460 VAC	TEFC	56C	1.15	-	23.7	PDF	
.3318ES3EBMW56CFL-S	\$761.00	1/3							24.5	PDF	
.5018ES3EBMW56CFL-S	\$857.00	1/2							27.92	PDF	
.7518ES3EBMW56CFL-S	\$1,004.00	3/4							29.7	PDF	
00118ET3EBM56CFL-S	\$1,156.00	1							B	46.28	PDF
00158ET3EBM56CFL-S	\$1,392.00	1 1/2								49.07	PDF

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

*Note: 1.15 SF (1.0 SF with VFD)



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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 % of F.L. Torque	Constant	Variable				
C-face With Rigid Base														
00118ET3EBM56C-S	1	1765	208-230/460 VAC	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
00158ET3EBM145TC-S	1 1/2	1750		1.87-2.17/1.08	4.47-4.04/2.02	8.2	6.11	270		4:1		86.5	0.79	0.00431
00218ET3EBM145TC-S	2	1745		2.41-2.8/1.4	6.02-5.44/2.72		8.16					0.80	0.00539	
Rigid Base Only														
.3318ES3EBMW56-S	1/3	1730	208-230/460 VAC	0.919-1.07/0.533	1.46-1.32/0.659	5.4	1.36	230	270	10:1	1000:1	68.0	0.70	0.00134
.5018ES3EBMW56-S	1/2			1.2-1.4/0.698	1.98-1.79/0.896	6	2.06	260	280			72.0	0.72	0.00168
.7518ES3EBMW56-S	3/4			1.54-1.78/0.892	2.7-2.44/1.22	6.5	3.09	270	290			75.5	0.75	0.00202
00118ET3EBM56-S	1			1765	1.53-1.78/0.89	3.25-2.94/1.47	8.6	4.04	280			300		5:1
C-face Only														
.2518ES3EBMW56CFL-S	1/4	1735	208-230/460 VAC	0.716-0.83/0.415	1.11-1.01/0.503	5.3	1.03	240	290	10:1	1000:1	66.0	0.68	0.00118
.3318ES3EBMW56CFL-S	1/3	1730		0.919-1.07/0.533	1.46-1.32/0.659	5.4	1.36	230	270			68.0	0.70	0.00134
.5018ES3EBMW56CFL-S	1/2			1.2-1.4/0.698	1.98-1.79/0.896	6	2.06	260	280			72.0	0.72	0.00168
.7518ES3EBMW56CFL-S	3/4			1.54-1.78/0.892	2.7-2.44/1.22	6.5	3.09	270	290			75.5	0.75	0.00202
00118ET3EBM56CFL-S	1			1765	1.53-1.78/0.89	3.25-2.94/1.47	8.6	4.04	280			300		5:1
00158ET3EBM56CFL-S	1 1/2	1750		1.87-2.17/1.08	4.47-4.04/2.02	8.2	6.11	270	300			4:1	85.5	0.79

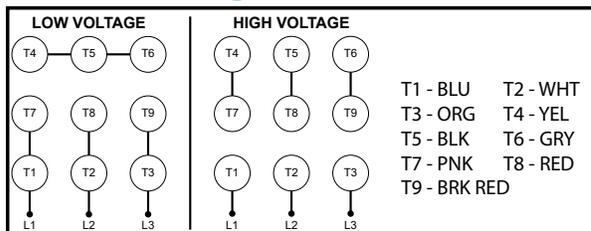
Brake Performance Data – 3-phase					
Part Number	HP	Brake Voltage	Brake Torque (lb-ft)	Brake Max Cycle Rate	Brake Manual Release
C-face With Rigid Base					
00118ET3EBM56C-S	1	208-230/460 VAC	5.9	36 cyc/min	Yes
00158ET3EBM145TC-S	1 1/2		10.3		
00218ET3EBM145TC-S	2				
Rigid Base Only					
.3318ES3EBMW56-S	1/3	208-230/460 VAC	2.95	36 cyc/min	Yes
.5018ES3EBMW56-S	1/2				
.7518ES3EBMW56-S	3/4		5.9		
00118ET3EBM56-S	1				
C-face Only					
.2518ES3EBMW56CFL-S	1/4	208-230/460 VAC	2.95	36 cyc/min	Yes
.3318ES3EBMW56CFL-S	1/3				
.5018ES3EBMW56CFL-S	1/2				
.7518ES3EBMW56CFL-S	3/4		5.9		
00118ET3EBM56CFL-S	1				
00158ET3EBM56CFL-S	1 1/2				



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Alternate Performance Data (50Hz) – 3-phase							
Part Number	FL RPM (380-415)	Volts	Current			FL Power Factor	
			No Load Current	Full Load Amps	Locked Rotor Amps (380-415)		
C-face Only							
.2518ES3EBMW56CFL-S	1410-1430	190-220/380-415	0.812-0.907/0.406-0.481	1.11-1.07/0.554-0.567	4.4-4.7	0.76-0.69	
.3318ES3EBMW56CFL-S	1400-1420		1.04-1.18/0.519-0.625	1.46-1.4/0.73-0.744	4.1-4.4	0.8-0.73	
.5018ES3EBMW56CFL-S			1.36-1.57/0.682-0.83	2.04-1.98/1.02-1.05	4.7-5.1	0.81-0.73	
.7518ES3EBMW56CFL-S	1395-1415		1.73-2.09/0.866-1.11	2.84-2.68/1.42-1.42	5.0-5.5	0.83-0.76	
00118ET3EBM56CFL-S	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	
00158ET3EBM56CFL-S	1420-1435		2.13-2.37/1.07-1.26	4.82-4.28/2.41-2.27	6.1-7.2	0.84-0.80	
Rigid Base Only							
.3318ES3EBMW56-S	1400-1420	190-220/380-415	1.04-1.18/0.519-0.625	1.46-1.4/0.73-0.744	4.1-4.4	0.8-0.73	
.5018ES3EBMW56-S			1.36-1.57/0.682-0.83	2.04-1.98/1.02-1.05	4.7-5.1	0.81-0.73	
.7518ES3EBMW56-S	1395-1415		1.73-2.09/0.866-1.11	2.84-2.68/1.42-1.42	5.0-5.5	0.83-0.76	
00118ET3EBM56-S	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	
C-face With Rigid Base							
00118ET3EBM56C-S	1450-1460		190-220/380-415	1.76-1.86/0.879-0.988	3.4-3.06/1.7-1.62	6.5-7.5	0.81-0.77
00158ET3EBM145TC-S	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	
00218ET3EBM145TC-S	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	

Motor Wiring



NOTE: Interchange any 2 line wires to reverse rotation

Brake Wiring

Low Voltage (208-230V)

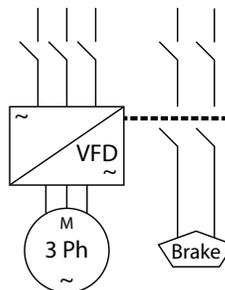
- Join B1 & B3 to Line1
- Join B2 & B4 to Line2

High Voltage (460V)

- B1 to Line1
- B2 to Line2
- B3 & B4: Wire nut together



NOTE: Brake must be wired separately when the motor is VFD operated. Brake requires full line voltage, 208-230 or 460V



Motor and brake connection for VFD