M.G.M.
ELECTRIC MOTORS
MOTEURS ÉLECTRIQUES

IEC General Purpose 3-phase Motors

SMX Series: TEFC Motors 1/4HP to 5HP

Features

- 230/460 Voltage
- Rated Output: 1/4 - 5 hp (0.18 - 3.7kW)
- Frame Sizes: IEC 63 to 112
- 1800 or 3600 rpm
- Continuous Duty (S1)
- Premium Efficiency (IE3) Frames 80-112, High efficiency (IE2) Frame 63/71
- IP55
- Class F insulation
- Inverter speed ratings: Constant torque 5:1, Variable torque 1000:1
- Mounting options: Footless B5 & B14, Rigid base B3 & B34 (with removable base)
- Enclosure: TEFC
- Aluminum construction
- F3(top) Junction Box Orientation
- Ring Lug Terminal connections
- Agency approvals: CE and CSA
- Mounting orientation:
  - C-face – horizontal or vertical
  - Rigid base – horizontal or vertical

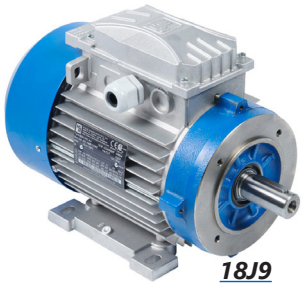
The IEC and MGM advantage:

- Motors built to the IEC standard provide the same power output as NEMA, but in a smaller footprint and robust design
- Top mount junction box design, with threaded entries, provides great terminal access
- Ring Lug Terminals makes wiring easy
- Aluminum construction: 25% weight savings
- MGM quality: produced in Italy with state of the art, high quality manufacturing processes

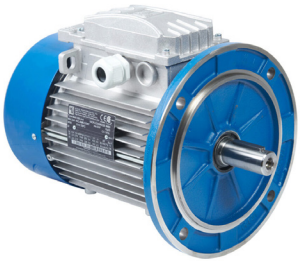
Applications

Typical uses in many commercial and industrial environments such as:

- Pumps
- Fans
- Packaging Machinery
- Conveyors
- Machine tools
- Gear reducers



18J9
C-face/ removable rigid base (B34)

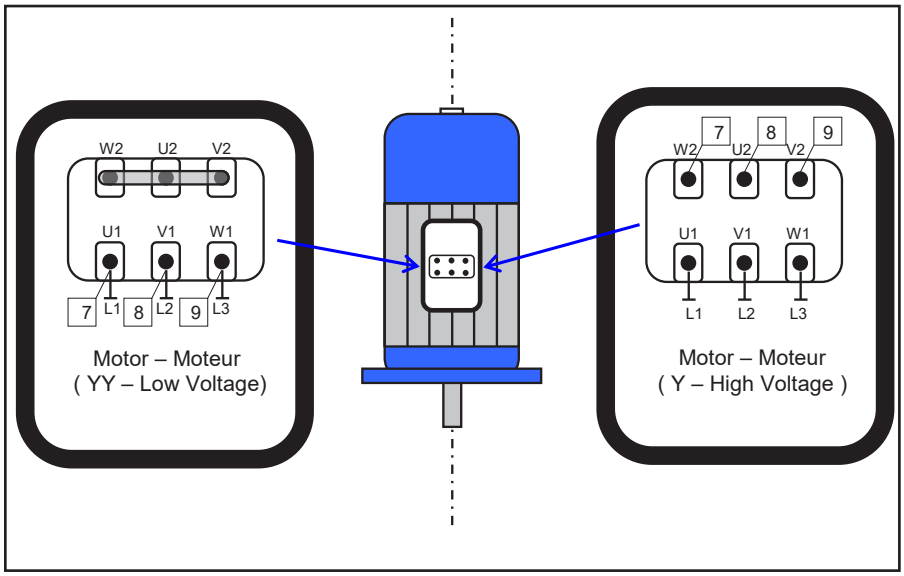


18OR
D-flange (B5)



0NUL
Rigid Base (B3)

Wiring Diagram



NOTE: Interchange any 2 line wires to reverse rotation

IEC General Purpose 3-phase Motors

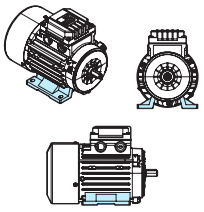
Motor Specifications – 3-phase

Part Number	Price	Rated Power (Pn)		Base rpm	Volts	Encl.	Frame	Service Factor*	Mounting	Efficiency Group	Weight (lb)	Drawing Links
		hp	kW									
Footless												
0NX7	$194.00	1/4	.018	1800	230/460 VAC	TEFC	IEC 63B	1.15	D-flange (B5)	IE2 high efficiency	12	PDF
0NXA	$194.00								C-face (B14)			PDF
0NUN	$293.00	1/2	0.37				IEC 71B		D-flange (B5)		17	PDF
0NUP	$293.00								C-face (B14)			PDF
0YGA	$370.00	1	0.75				IEC 80B		D-flange (B5)	IE3 premium efficiency	28	PDF
0YGB	$370.00								C-face (B14)		27	PDF
18PU	$529.00	2	1.5				IEC 90L		D-flange (B5)		43	PDF
18OR	$692.00	3	2.2				IEC 100L				64	PDF
18PL	$894.00	5	3.7				IEC 112M				84	PDF
0VNF	$226.00	1/4	.018	3600	230/460 VAC	TEFC	IEC 63A	1.15	D-flange (B5)	IE2 high efficiency	10	PDF
0RC2	$317.00	1/2	0.37				IEC 71A				15	PDF
0ZYZ	$335.00	1	0.75				IEC 80A			IE3 premium efficiency	21	PDF
With Rigid Base												
0NX5	$196.00	1/4	.018	1800	230/460 VAC	TEFC	IEC 63B	1.15	rigid base (B3)	IE2 high efficiency	12	PDF
0NUL	$294.00	1/2	0.37				IEC 71B				17	PDF
131C	$370.00	1	0.75				IEC 80B			IE3 premium efficiency	27	PDF
18J8	$544.00	2	1.5				IEC 90L		C-face/removable rigid base (B34)		43	PDF
18J9	$706.00	3	2.2				IEC 100L				61	PDF
18OT	$910.00	5	3.7				IEC 112M				82	PDF
0UQR	$240.00	1/4	.018	3600	230/460 VAC	TEFC	IEC 63A	1.15	C-face/removable rigid base (B34)	IE2 high efficiency	10	PDF
16SV	$333.00	1/2	0.37				IEC 71A				15	PDF
18J7	$348.00	1	0.75				IEC 80A			IE3 premium efficiency	21	PDF

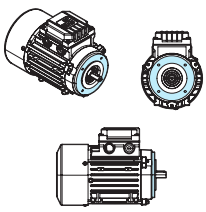
*Note: 1.15 SF (1.0 SF with VFD)

IEC Motor Mounting Types

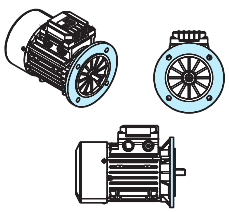
B3
Foot mounted



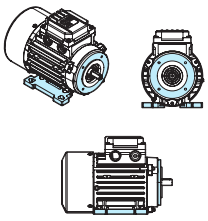
B14
"C" type face at drive end, no feet.



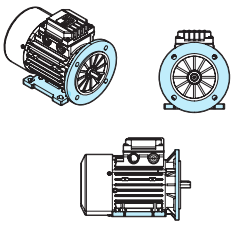
B5
"D" type flange at drive end, no feet.



B34
"C" type face at drive end, with feet.



B35
"D" type flange at drive end, with feet.



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IEC General Purpose 3-phase Motors

Performance Data – 3-phase

Part Number	Rated Power		Service Factor	Duty Service	Full Load Speed (rpm)	Full Load Current (In)		Starting Current Ratio (Is/In)	Full Load Torque (Tn)		Starting Torque Ratio (Ts/Tn)	Power Factor	Efficency (%)	Torque Speed Rating		Moment of Inertia (joules)
	hp	kW				230V	460V		Nm	Lb·in				Constant	Variable	
Footless																
0NX7	1/4	.018	1.15	S1	1670	1.24	0.62	3.71	1.03	9.12	3.88	0.56	68.0	5:1	1000:1	3.4
0NXA																
0NUN	1/2	0.37			1690	1.82	0.91	4.4	2.09	18.50	2.58	0.71	72.0			6.42
0NUP																
0YGA	1	0.75			1730	3.2	1.6	6.6	4.14	36.64	3.6	0.70	85.5			15
0YGB																
18PU	2	1.5			1739	6.2	3.1	7.1	8.2	72.58	4.1		86.5			29
18OR	3	2.2			1750	8.6	4.3	7.4	12	106.21		0.73	89.5			50
18PL	5	3.7			1757	14	7	8.8	20.1	177.90	4					130
0VNF	1/4	.018	1.15	S1	3400	1.04	0.52	4.8	0.51	4.51	3.75	0.68	64.0	5:1	1000:1	1.78
0RC2	1/2	0.37			3440	1.92	0.96	5	1.03	9.12	3.3		72.0			3.2
0ZYZ	1	0.75			3465	3.3	1.65	5.8	2.08	18.41	3.6	0.77	77.0			6.9
With Rigid Base																
0NX5	1/4	.018	1.15	S1	1670	1.24	0.62	3.71	1.03	9.12	3.88	0.56	68.0	5:1	1000:1	3.4
0NUL	1/2	0.37			1690	1.82	0.91	4.4	2.09	18.50	2.58	0.71	72.0			6.42
131C	1	0.75			1730	3.2	1.6	6.6	4.14	36.64	3.6	0.70	85.5			15
18J8	2	1.5			1739	6.2	3.1	7.1	8.2	72.58	4.1		86.5			29
18J9	3	2.2			1750	8.6	4.3	7.4	12	106.21		0.73	89.5			50
18OT	5	3.7			1757	14	7	8.8	20.1	177.90	4					130
0UQR	1/4	.018	1.15	S1	3400	1.04	0.52	4.8	0.51	4.51	3.75	0.68	64.0	5:1	1000:1	1.78
16SV	1/2	0.37			3440	1.92	0.96	5	1.03	9.12	3.3		72.0			3.2
18J7	1	0.75			3465	3.3	1.65	5.8	2.08	18.41	3.6	0.77	77.0			6.9

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IEC General Purpose 3-phase Motors

Alternate Performance Data (50Hz) – 3-phase								
Part Number	Rated Power		F.L. rpm (380-415)	Volts	Current		Efficiency (%)	F.L. Power Factor
	hp	kW			No Load Current	Full Load Amps		
Footless								
0NX7	1/4	.018	1361	200/400 VAC	1.3/0.65	1.42/0.71	64.7	0.55
0NXA						1.42/0.71		
0NUN	1/2	0.37	1415		2.0/1.0	2.1/1.05	72.7	0.70
0NUP						2.1/1.05		
0YGA	1	0.75	1420		3.0/1.5	3.94/1.97	82.5	0.67
0YGB						3.94/1.97		
18PU	2	1.5	1428		5.0/2.5	7.0/3.5	85.3	0.74
18OR	3	2.2	1440		6.0/3.0	9.6/4.8	86.7	0.76
18PL	5	3.7	1448		10.0/5.0	16.2/8.1	88.4	0.75
0VNF	1/4	.018	2820	200/400 VAC	1.1/0.55	1.2/0.6	60.44	0.64
0RC2	1/2	0.37	2790		0.8	2.1/1.05	69.5	0.73
0ZYZ	1	0.75	2849		2.6/1.3	3.48/1.74	80.7	0.77
With Rigid Base								
0NX5	1/4	.018	1361	200/400 VAC	1.3/0.65	1.42/0.71	64.7	0.55
0NUL	1/2	0.37	1415		2.0/1.0	2.1/1.05	72.7	0.70
131C	1	0.75	1420		3.0/1.5	3.94/1.97	82.5	0.67
18J8	2	1.5	1428		5.0/2.5	7.0/3.5	85.3	0.74
18J9	3	2.2	1440		6.0/3.0	9.6/4.8	86.7	0.76
18OT	5	3.7	1448		10.0/5.0	16.2/8.1	88.4	0.75
0UQR	1/4	.018	2820	200/400 VAC	1.1/0.55	1.2/0.6	60.44	0.64
16SV	1/2	0.37	2790		0.8	2.1/1.05	69.5	0.73
18J7	1	0.75	2849		2.6/1.3	3.48/1.74	80.7	0.77

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ELECTRIC MOTORS
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General Purpose 3-phase Brake Motors

IEC & NEMA Compatible Brake motors with 3-phase brake

BMX Series - 1/4HP, BAX Series 1/2 to 5HP

Features

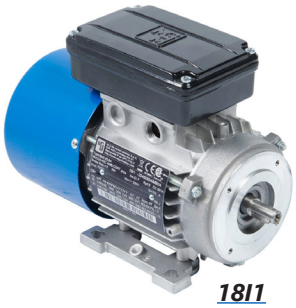
- 230/460 Voltage
- Rated Output: 1/4 - 5 hp (0.18 - 3.7kW)
- IEC & NEMA compatible mounting options. IEC mounts B5 & B34. NEMA mounts 56C - 182TC
- 3 phase brake provides high braking torque, faster response time and better reliability
- 1800 rpm
- Continuous Duty (S1)
- Premium Efficiency (IE3) Frames 80-112, High efficiency (IE2) Frame 63/71
- IP54
- Class F insulation
- Inverter speed ratings: Constant torque 5:1, Variable torque 1000:1
- Enclosure: TEFC
- Aluminum construction
- Manual brake release (BAX Only)
- Mounting orientation:
  - C-face – horizontal or vertical
  - Rigid base – horizontal or vertical
- Note: BMX series 1/4HP is 1-phase 230V brake with rectifier
- Agency approvals: CE and CSA

The MGM Brake Motor advantage:

- Designed & built as dedicated brake motors. The perfect engineering and assembly combined with a strong and safe 3-phase brake, make these motors very reliable
- BAX series brakes are direct 3-phase AC coils (no DC rectifier)
- Superior braking performance vs standard brake motors: 3x faster response time, 2x holding torque, better cooling
- Motors built to the IEC standard provide the same power output as NEMA, but in a smaller footprint and robust design
- Top mount junction box design, with threaded entries provides ready terminal access
- Ring Lug Terminals makes wiring easy
- Aluminum construction: 25% weight savings
- MGM quality: produced in Italy with state of the art high quality manufacturing processes

Applications

MGM brake motors are particularly suitable for hoist and traverse machines, tooling machinery, automatic and transfer machinery in textile, ceramic and packing fields and in all applications where precision and quickness in braking are required.



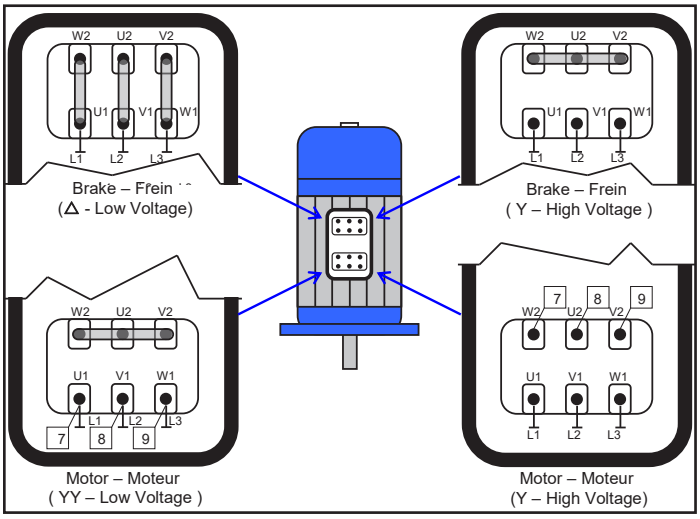
18I1
C-face/ Removable Rigid Base (B34)



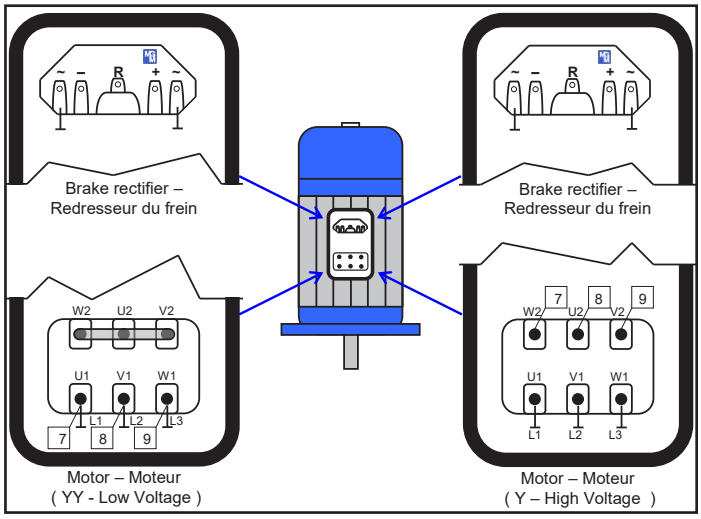
18Q4
D-flange (B5)

Wiring Diagrams

BAX Series



BMX Series



NOTE: Interchange any 2 line wires to reverse rotation

M.G.M. ELECTRIC MOTORS
MOTEURS ÉLECTRIQUES

General Purpose 3-phase Brake Motors

Motor Specifications – 3-phase

Part Number	Price	Rated Power hp	Rated Power kW	Base rpm	Volts	Encl.	Frame	Service Factor*	Mounting	Efficiency Group	Weight (lb)	Drawing Links
Footless												
18HZ	$614.00	1/4	.018	1800	230/460 VAC	TEFC	IEC 63B	1.15	D-flange (B5)	IE2 high efficiency	18	PDF
14JQ	$713.00	1/2	0.37				IEC 71B				29	PDF
18I8	$730.00						IEC 71B (56C flange)		C-face		33	PDF
13HB	$917.00	1	0.75				IEC 80B		D-flange (B5)	IE3 premium efficiency	45	PDF
18IC	$942.00						IEC 80B (56C flange)		C-face		46	PDF
18Q4	$1,173.00	2	1.5				IEC 90L		D-flange (B5)		62	PDF
18Q5	$1,207.00						IEC 90L (145TC flange)		C-face		63	PDF
18IY	$1,466.00	3	2.2				IEC 100L (182TC flange)		C-face		93	PDF
18J4	$2,008.00	5	3.7				IEC 112M (182TC flange)				123	PDF
With Rigid Base												
18I1	$629.00	1/4	.018	1800	230/460 VAC	TEFC	IEC 63B	1.15	C-face/removable rigid base (B34)	IE2 high efficiency	17	PDF
18I6	$725.00	1/2	0.37				IEC 71B				28	PDF
18IA	$934.00	1	0.75				IEC 80B			IE3 premium efficiency	45	PDF
18Q3	$1,195.00	2	1.5				IEC 90L				62	PDF
18Q6	$1,453.00	3	2.2				IEC 100L				82	PDF
18Q7	$1,453.00								D-flange/removable rigid base (B35)		86	PDF
18OM	$1,988.00	5	3.7				IEC 112M		C-face/removable rigid base (B34)		113	PDF
18ON	$1,988.00								D-flange/removable rigid base (B35)		116	PDF

*Note: 1.15 SF (1.0 SF with VFD)

Performance Data – 3-phase

Part Number	Rated Power hp	Rated Power kW	Service Factor	Duty Service	Full Load Speed (rpm)	Full Load Current (In) 230V	Full Load Current (In) 460V	Starting Current Ratio (Is/In)	Full Load Torque (Tn) Nm	Full Load Torque (Tn) Lb·in	Starting Torque Ratio (Ts/Tn)	Power Factor	Efficency (%)	Torque Speed Rating Constant	Torque Speed Rating Variable	Moment of Inertia (joules)
Footless																
18HZ	1/4	.018	1.15	S1	1670	1.24	0.62	3.71	1.03	9.12	3.88	0.56	68.0	5:1	1000:1	3.55
14JQ	1/2	0.37			1690	1.82	0.91	4.4	2.09	18.50	2.58	0.71	72.0			8.1
18I8																
13HB	1	0.75			1730	3.2	1.6	6.6	4.14	36.64	3.6	0.70	85.5			19.4
18IC																
18Q4	2	1.5			1739	6.2	3.1	7.1	8.2	72.58	4.1		86.5			34.6
18Q5																
18IY	3	2.2			1750	8.6	4.3	7.4	12	106.21		0.73	89.5			60.1
18J4	5	3.7			1757	14	7	8.8	20.1	177.90	4					145
With Rigid Base																
18I1	1/4	.018	1.15	S1	1670	1.24	0.62	3.71	1.03	9.12	3.88	0.56	68.0	5:1	1000:1	3.55
18I6	1/2	0.37			1690	1.82	0.91	4.4	2.09	18.50	2.58	0.71	72.0			8.1
18IA	1	0.75			1730	3.2	1.6	6.6	4.14	36.64	3.6	0.70	85.5			19.4
18Q3	2	1.5			1739	6.2	3.1	7.1	8.2	72.58	4.1		86.5			34.6
18Q6	3	2.2			1750	8.6	4.3	7.4	12	106.21		0.73	89.5			60.1
18Q7																
18OM	5	3.7			1757	14	7	8.8	20.1	177.90	4					145
18ON																

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General Purpose 3-phase Brake Motors

Brake Performance Data

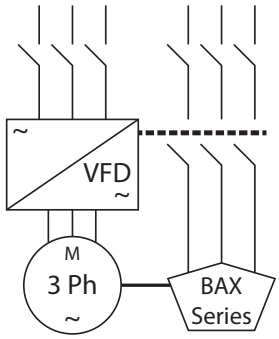
Part Number	hp	Series	Brake Voltage	Brake Current	Brake Torque		Brake Manual Release
					Nm	lb·ft	
Footless							
18HZ	1/4	BMX	230VAC 1-phase	0.2	5	3.7	No
14JQ	1/2	BAX	230/460VAC 3-phase	0.1/0.09	14	10.3	Yes - Brake Release Tool
18I8							
13HB	1			0.18/0.12	18	13.2	
18IC							
18Q4	2			0.30/0.35	38	28.0	
18Q5							
18IY	3				50	36.8	
18J4	5			0.40/0.35	80	59.0	
With Rigid Base							
18I1	1/4	BMX	230VAC 1-phase	0.2	5	3.7	No
18I6	1/2	BAX	230/460VAC 3-phase	0.1/0.09	14	10.3	Yes - Brake Release Tool
18IA	1			0.18/0.12	18	13.2	
18Q3	2			0.30/0.35	38	28.0	
18Q6	3				50	36.8	
18Q7							
18OM	5			0.40/0.35	80	59.0	
18ON							

Alternate Performance Data (50Hz) – 3-phase

Part Number	Rated Power		F.L. rpm (380-415)	Volts	Current		Efficiency (%)	F.L. Power Factor
	hp	kW			No Load Current	Full Load Amps		
Footless								
18HZ	1/4	.018	1361	200/400 VAC	1.3/0.65	1.42/0.71	64.7	0.55
14JQ	1/2	0.37	1415		2.0/1.0	2.1/1.05	72.7	0.70
18I8						2.1/1.05		
13HB	1	0.75	1420		3.0/1.5	3.94/1.97	82.5	0.67
18IC						3.94/1.97		
18Q4	2	1.5	1428		5.0/2.5	7.0/3.5	85.3	0.74
18Q5						7.0/3.5		
18IY	3	2.2	1440		6.0/3.0	9.6/4.8	86.7	0.76
18J4	5	3.7	1448		10.0/5.0	16.2/8.1	88.4	0.75
With Rigid Base								
18I1	1/4	.018	1361	200/400 VAC	1.3/0.65	1.42/0.71	64.7	0.55
18I6	1/2	0.37	1415		2.0/1.0	2.1/1.05	72.7	0.70
18IA	1	0.75	1420		3.0/1.5	3.94/1.97	82.5	0.67
18Q3	2	1.5	1428		5.0/2.5	7.0/3.5	85.3	0.74
18Q6	3	2.2	1440	200/400 VAC	6.0/3.0	9.6/4.8	86.7	0.76
18Q7						9.6/4.8		
18OM	5	3.7	1448	200/400 VAC	10.0/5.0	16.2/8.1	88.4	0.75
18ON						16.2/8.1		

Brake Wiring

NOTE: Brake must be wired separately when the motor is VFD operated. BAX series brake requires full 3-phase line voltage, 230 or 460V. BMX series (1/4HP) is 1-phase 230V only.



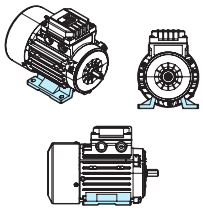
Motor and brake connection for VFD

IEC Motor Accessories

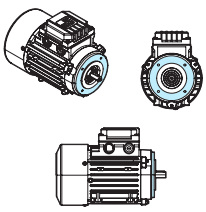
MGM IEC Motor Accessories			
Part Number	*Price*	*Description*	*Image*
6401000170000	$616.00	M.G.M. Electric Motors BAX brake, replacement. For use with M.G.M. Electric Motors BAX series IEC 71 frame AC motors with brake.	
6403000410P00	$671.00	M.G.M. Electric Motors BAX brake, replacement. For use with M.G.M. Electric Motors BAX series IEC 80 frame AC motors with brake.	
6405000410P00	$822.00	M.G.M. Electric Motors BAX brake, replacement. For use with M.G.M. Electric Motors BAX series IEC 90 frame AC motors with brake.	
6409000410P00	$964.00	M.G.M. Electric Motors BAX brake, replacement. For use with M.G.M. Electric Motors BAX series IEC 100 frame AC motors with brake.	
6414000170P00	$1,147.00	M.G.M. Electric Motors BAX brake, replacement. For use with M.G.M. Electric Motors BAX series IEC 112 frame AC motors with brake.	
6460000000000	$430.00	M.G.M. Electric Motors BMX brake, replacement. For use with M.G.M. Electric Motors BMX series IEC 63 frame AC motors with brake.	
6201000000000	$57.00	M.G.M. Electric Motors BAX brake release tool, replacement. For use with all M.G.M. Electric Motors BAX series AC motors with brake.	

IEC Motor Mounting Types

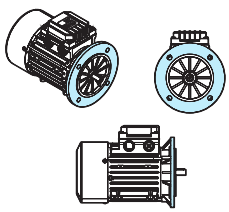
B3
Foot mounted



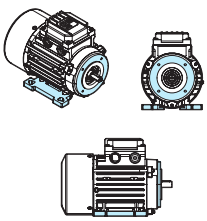
B14
"C" type face at drive end, no feet.



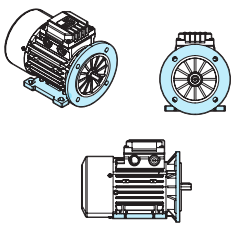
B5
"D" type flange at drive end, no feet.



B34
"C" type face at drive end, with feet.



B35
"D" type flange at drive end, with feet.



Rolled Steel General Purpose 3-phase Brake Motors

56/256 Frame TEFC Brake Motors – 1/4HP to 20HP

Standard Features

- 208-230/460 Voltage, as noted
- Spring set, solenoid actuated AC Brake – 208-230/460V
- Rated Output: 1/4 - 20 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 256
- C-face footed, rigid, or footless mount
- Enclosure: TEFC, IP55
- Aluminum endshields
- Internal bolts, giving a clean surface to the motor
- Double shielded ball bearings on frames 56 to 215
- Mounting orientation:
  - C-face – 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
Rigid Base with C-face										
00118ET3EBM56C-S	$1,398.00	1	1800	208–230/460 VAC	TEFC	56C	1.15	B	50	PDF
00158ET3EBM145TC-S	$1,726.00	1 1/2				143/5TC			51	PDF
00218ET3EBM145TC-S	$1,775.00	2							54	PDF
00318ET3EBM182TC-S	$1,984.00	3				182TC	1.15 1.15-1.15		104	PDF
00518ET3EBM184TC-S	$2,323.00	5				184TC			101	PDF
00718ET3EBM213TC-S	$4,260.00	7 1/2				213TC			157	PDF
01018ET3EBM215TC-S	$4,646.00	10				215TC			171	PDF
Rigid Base										
.3318ES3EBMW56-S	$886.00	1/3	1800	208–230/460 VAC	TEFC	56	1.15	-	26	PDF
.5018ES3EBMW56-S	$1,002.00	1/2							26	PDF
.7518ES3EBMW56-S	$1,179.00	3/4							30	PDF
00118ET3EBM56-S	$1,363.00	1						B	48	PDF
01518ET3EBM254T-S	$6,329.00	15				254T	1.15 1.00-1.00		259	PDF
02018ET3EBM256T-S	$8,227.00	20				256T			289	PDF
C-face										
.2518ES3EBMW56CFL-S	$875.00	1/4	1800	208–230/460 VAC	TEFC	56C	1.15	-	24	PDF
.3318ES3EBMW56CFL-S	$920.00	1/3							25	PDF
.5018ES3EBMW56CFL-S	$1,036.00	1/2							28	PDF
.7518ES3EBMW56CFL-S	$1,213.00	3/4							30	PDF
00118ET3EBM56CFL-S	$1,398.00	1						B	46	PDF
00158ET3EBM56CFL-S	$1,682.00	1 1/2							49	PDF
00218ET3EBM56CFL-S	$1,745.00	2							53	PDF
00518ET3EBMR184TC-S	$2,323.00	5				184TC	1.15 1.15-1.15		99	PDF
01018ET3EBMR215TC-S	$4,646.00	10				215TC			168	PDF

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

Rolled Steel General Purpose 3-phase Brake 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 % of F.L. Torque	Breakdown % of F.L. Torque	Constant	Variable			
Rigid Base with C-face														
00118ET3EBM56C-S	1	1765	208–230/460 VAC	1.53-1.78/0.89	3.25-2.94/1.47	8.6	2.98	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	4.50	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		6.02						0.80	0.00539
00318ET3EBM182TC-S	3	1765		3.45-4.00/2.00	8.43-7.62/3.81	8.8	8.93	220				89.5	0.81	0.0169
00518ET3EBM184TC-S	5	1750		5.94-6.89/3.44	14.4-13.0/6.49	7	15.01						0.80	0.013
00718ET3EBM213TC-S	7 1/2	1770		7.60-8.81/4.41	20.1-18.4/9.18	7.3	22.25	260				91.7	0.82	0.0395
01018ET3EBM215TC-S	10	1760		9.56-11.1/5.54	27.0-24.4/12.2	7	29.84	250					0.84	0.04505
Rigid Base														
.3318ES3EBMW56-S	1/3	1730	208–230/460 VAC	0.919-1.07/0.533	1.46-1.32/0.659	5.4	1.01	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	1.52	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	2.28	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	2.98	280	300	5:1		85.5		0.00519
01518ET3EBM254T-S	15	1770		14.9-17.3/8.65	40.3-36.4/18.2	6.5	44.51	250		4:1		92.4	0.82	0.0904
02018ET3EBM256T-S	20	1765		19.2-22.2/11.1	54.6-49.4/24.7	6.7	59.51	270				93.0		0.1113
C-face														
.2518ES3EBMW56CFL-S	1/4	1735	208–230/460 VAC	0.716-0.83/0.415	1.11-1.01/0.503	5.3	0.76	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	1.01	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	1.52	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	2.28	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	2.98	280	300	5:1		85.5		0.00519
00158ET3EBM56CFL-S	1 1/2	1750		1.87-2.17/1.08	4.47-4.04/2.02	8.2	4.50	270		4:1			0.79	0.00464
00218ET3EBM56CFL-S	2	1745		2.41-2.80/1.40	6.02-5.44/2.72		6.02					86.5	0.80	0.0055
00518ET3EBMR184TC-S	5	1750		5.94-6.89/3.44	14.4-13.0/6.49	7	15.01	220				89.5		0.013
01018ET3EBMR215TC-S	10	1760		9.56-11.1/5.54	27.0-24.4/12.2		29.84	250				91.7	0.84	0.04505

Rolled Steel General Purpose 3-phase Brake Motors

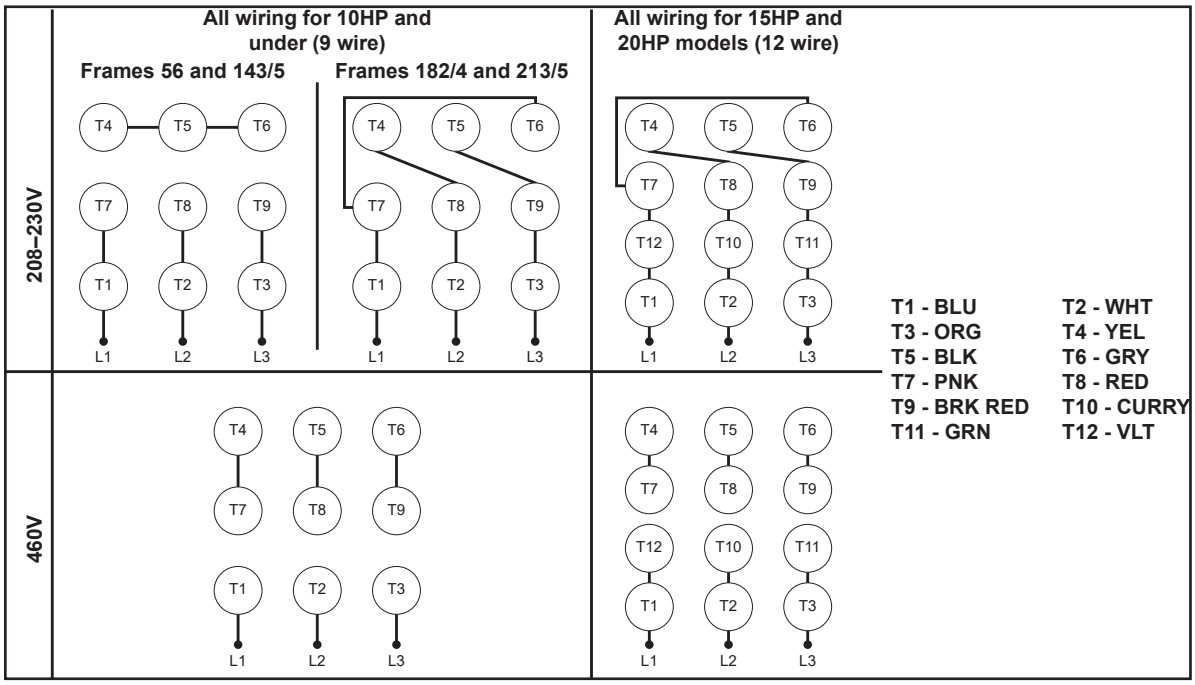
Brake Performance Data – 3-phase				
Part Number	*hp*	*Brake Voltage*	*Brake Torque (lb·ft)*	*Brake Manual Release*
Rigid Base with C-face				
00118ET3EBM56C-S	1	208-230/460 VAC	5.9	Yes
00158ET3EBM145TC-S	1 1/2		10.3	
00218ET3EBM145TC-S	2			
00318ET3EBM182TC-S	3		15.0	
00518ET3EBM184TC-S	5		25.0	
00718ET3EBM213TC-S	7 1/2		35.0	
01018ET3EBM215TC-S	10		50.0	
Rigid Base				
.3318ES3EBMW56-S	1/3	208-230/460 VAC	3.0	Yes
.5018ES3EBMW56-S	1/2			
.7518ES3EBMW56-S	3/4		5.9	
00118ET3EBM56-S	1			
01518ET3EBM254T-S	15		75.0	
02018ET3EBM256T-S	20		105.0	
C-face				
.2518ES3EBMW56CFL-S	1/4	208-230/460 VAC	3.0	Yes
.3318ES3EBMW56CFL-S	1/3			
.5018ES3EBMW56CFL-S	1/2			
.7518ES3EBMW56CFL-S	3/4		5.9	
00118ET3EBM56CFL-S	1			
00158ET3EBM56CFL-S	1 1/2		10.3	
00218ET3EBM56CFL-S	2		10.0	
00518ET3EBMR184TC-S	5		25.0	
01018ET3EBMR215TC-S	10		50.0	

Rolled Steel General Purpose 3-phase Brake Motors

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						
.2518ES3EBMW56CFL-S	1410-1430	190-220/380-415 VAC	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
00218ET3EBM56CFL-S	1415-1435		2.75-3.09/1.37-1.64	6.50-5.79/3.25-3.07	6.0-7.1	0.85-0.81
00518ET3EBMR184TC-S	1425-1440		6.74-7.85/3.37-4.16	15.8-14.1/7.88-7.47	5.8-6.8	0.84-0.80
01018ET3EBMR215TC-S	1465-1470		10.9-12.1/5.46-6.43	22.4-20.6/11.2-10.9	7.6-8.7	0.83-0.78
Rigid Base with C-face						
00118ET3EBM56C-S	1450-1460	190-220/380-415 VAC	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
00318ET3EBM182TC-S	1455-1465		3.95-4.22/1.97-2.24	9.08-8.15/4.54-4.32	6.7-8.0	
00518ET3EBM184TC-S	1425-1440		6.74-7.85/3.37-4.16	15.8-14.1/7.88-7.47	5.8-6.8	0.84-0.80
00718ET3EBM213TC-S	1455-1465		8.65-9.60/4.33-5.09	22.0-19.4/11.0-10.3	6.2-7.3	0.86-0.83
01018ET3EBM215TC-S	1465-1470		10.9-12.1/5.46-6.43	22.4-20.6/11.2-10.9	7.6-8.7	0.83-0.78
Rigid Base						
.3318ES3EBMW56-S	1400-1420	190-220/380-415 VAC	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
01518ET3EBM254T-S	1455-1465		17.1-18.6/8.53-9.86	43.8-38.9/21.9-20.6	5.5-6.5	0.85-0.82
02018ET3EBM256T-S	1470-1475		21.9-24.1/10.9-12.8	44.4-40.7/22.2-21.6	7.4-8.5	0.82-0.77

Rolled Steel General Purpose 3-phase Brake Motors

Motor Wiring



NOTE: Interchange any 2 line wires to reverse rotation

Brake Wiring

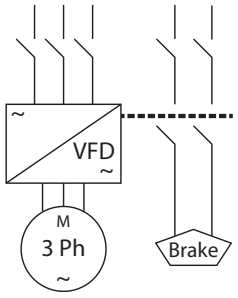
Low Voltage (208-230V)

- 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