

GENERAL PURPOSE AC MOTORS

56C FLANGE, SINGLE PHASE
FRACTIONAL AND INTEGRAL HP



Wide Range
of Motors
Sizes!



OMT Series
Starts at
£65



OMT13-18-56CB, £65,
shown smaller than
actual size.

- Rolled Steel 56C Frame Motors: 0.33 to 2 HP
- 115/208 to 230 Volt
- Single-Phase
- Class F Insulation
- Premium-Grade Quality

Omegamation™ general purpose AC motors are made by one of the leading motor manufacturers for over 45 years, a world-class accredited supplier with a long history of quality testing procedures and standards performed by the finest independent testing laboratories in the world. Our motors are

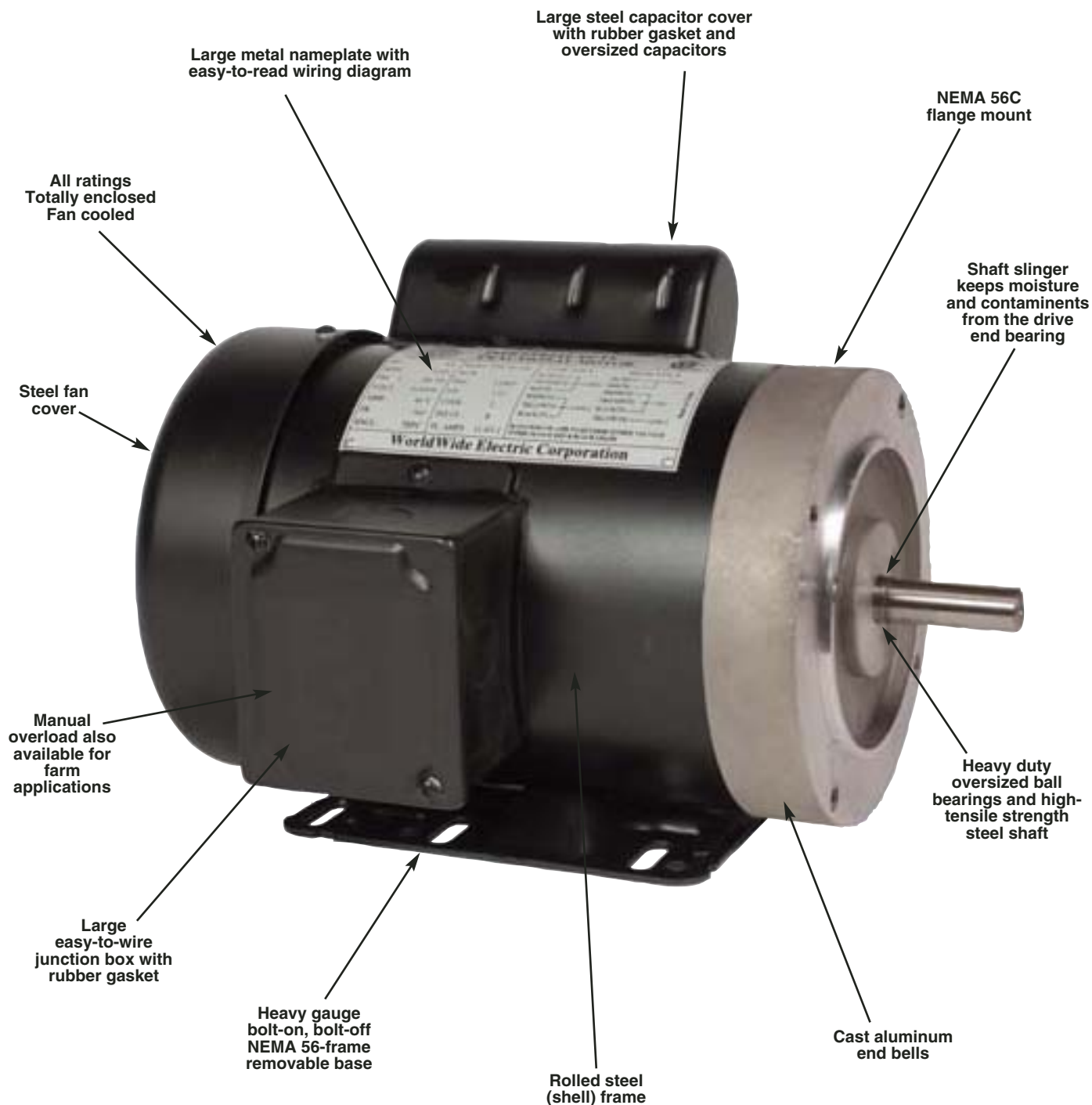
made in high quality ISO9001-certified facilities using only the highest quality material and manufacturing processes. All motors are electrically tested in sub-assembly production and again after final assembly, and come with a 2-year warranty.



56C FLANGE MOTORS

SINGLE PHASE—115/208 TO 230 VOLT

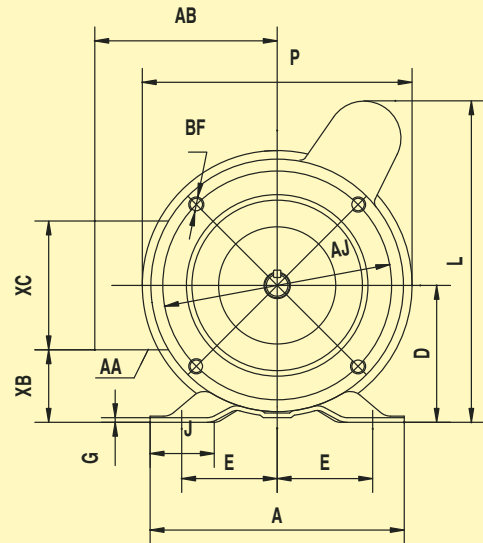
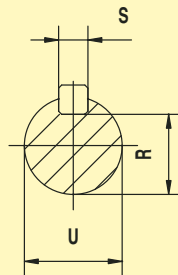
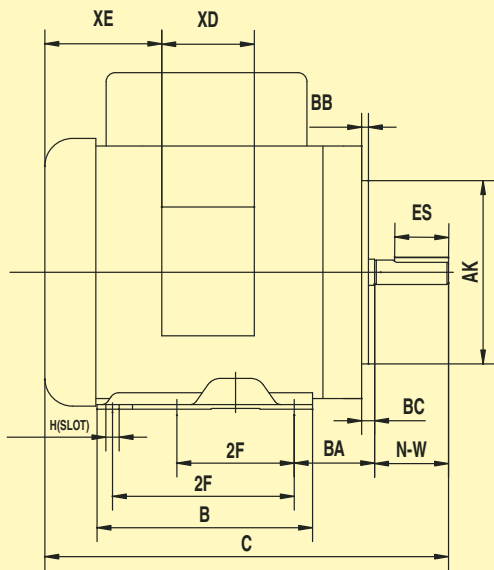
INVERTER DUTY WITH CLASS “F” INSULATION



OMT13-18-56CB, £65, shown smaller than actual size.

56C FRAME MOTORS—1 PHASE

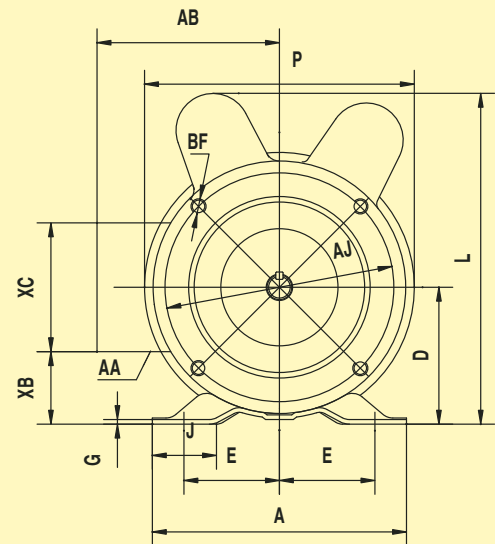
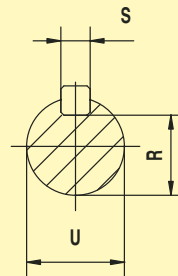
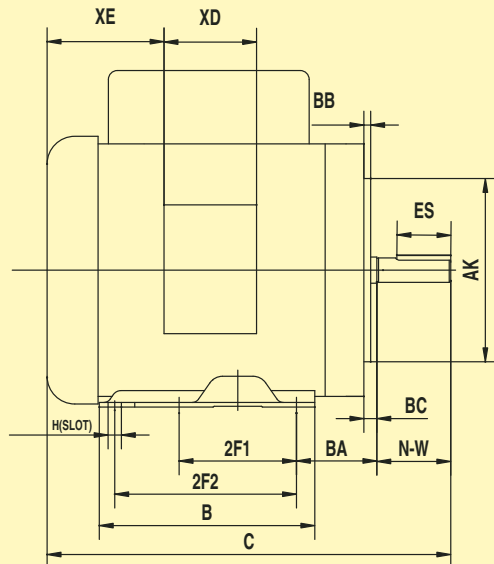
OMT1-18-56CB



Dimensions: mm (in)

A	B	C	D	E	2F1	2F2	G	H	J	L	P	R	S	U
165 (6.5)	165 (6.5)	330 (13)	89 (3.5)	62 (2.44)	76 (3)	127 (5)	3 (0.12)	9 (0.34)	44 (1.73)	208 (8.19)	175 (6.9)	13 (0.517)	5 (0.188)	16 (0.625)
ES	AA	AB	AH	AJ	AK	BA	BB	BC	BF	XB	XC	XD	XE	
36 (1.41)	1/2" NPT	136 (5.35)	49 (1.91)	149 (5.875)	114 (4.5)	70 (2.75)	4 (0.16)	5 (0.19)	10 (3/16)	42 (1.65)	94 (3.7)	82 (3.23)	72 (2.85)	

OMT1.5-18-56CB

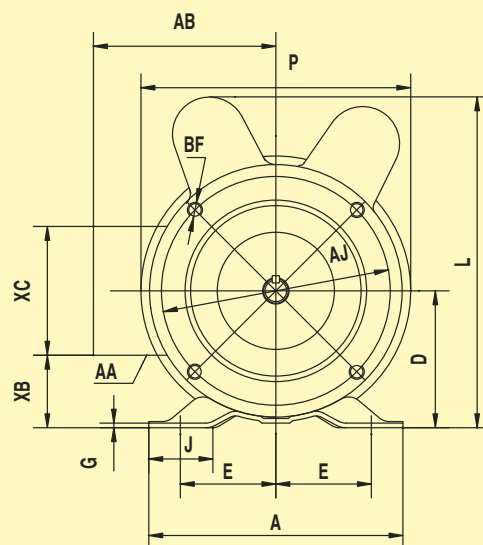
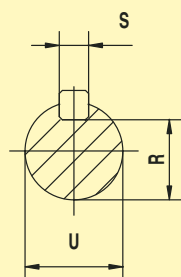
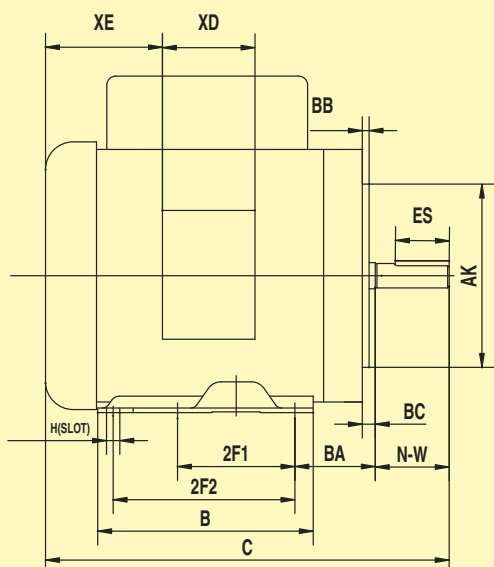


Dimensions: mm (in)

A	B	C	D	E	2F1	2F2	G	H	J	L	P	R	S	U
165 (6.5)	165 (6.5)	351 (13.8)	89 (3.5)	62 (2.44)	76 (3)	127 (5)	3 (0.12)	9 (0.34)	44 (1.73)	216 (8.5)	175 (6.9)	13 (0.517)	5 (0.188)	16 (0.625)
ES	AA	AB	AH	AJ	AK	BA	BB	BC	BF	XB	XC	XD	XE	
36 (1.41)	1/2" NPT	136 (5.35)	49 (1.91)	149 (5.875)	114 (4.5)	70 (2.75)	4 (0.16)	5 (0.19)	10 (3/16)	42 (1.65)	94 (3.7)	82 (3.23)	72 (2.85)	



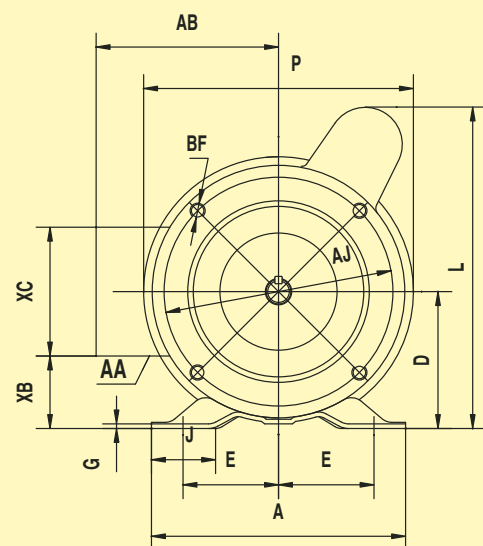
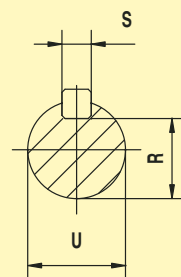
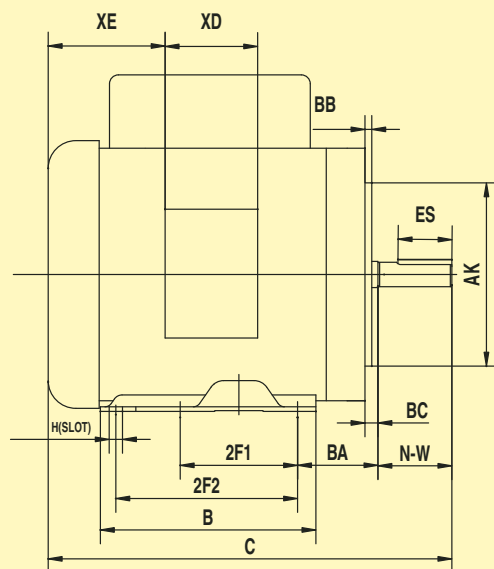
OMT2-18-56CB



Dimensions: mm (in)

A	B	C	D	E	2F1	2F2	G	H	J	L	P	R	S	U
165 (6.5)	165 (6.5)	371 (14.6)	89 (3.5)	62 (2.44)	76 (3)	127 (5)	3 (0.12)	9 (0.34)	44 (1.73)	216 (8.5)	175 (6.9)	13 (0.517)	5 (0.188)	16 (0.625)
ES	AA	AB	AH	AJ	AK	BA	BB	BC	BF	XB	XC	XD	XE	
36 (1.41)	1/2" NPT	136 (5.35)	49 (1.91)	149 (5.875)	114 (4.5)	70 (2.75)	4 (0.16)	5 (0.19)	10 (3/16)	42 (1.65)	94 (3.7)	82 (3.23)	72 (2.85)	

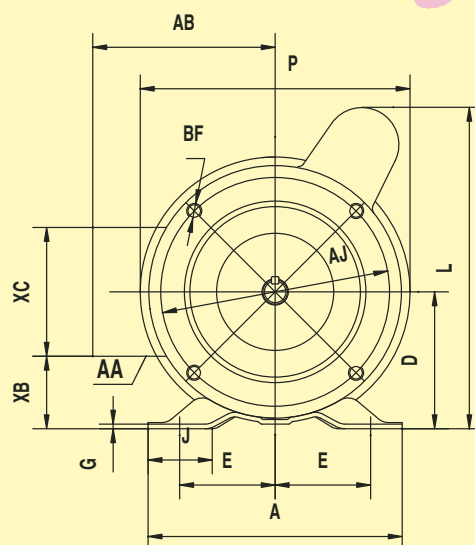
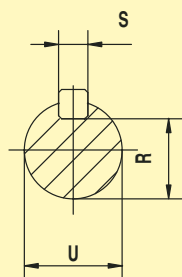
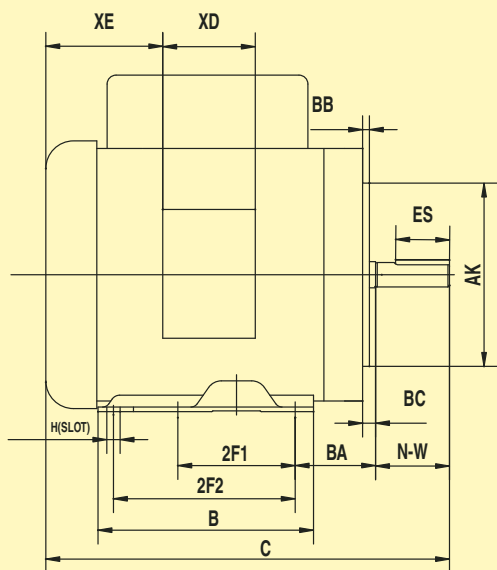
OMT12-18-56CB



Dimensions: mm (in)

A	B	C	D	E	2F1	2F2	G	H	J	L	P	R	S	U
165 (6.5)	165 (6.5)	315 (12.4)	89 (3.5)	62 (2.44)	76 (3)	127 (5)	3 (0.12)	9 (0.34)	44 (1.73)	208 (8.19)	175 (6.9)	13 (0.517)	5 (0.188)	16 (0.625)
ES	AA	AB	AH	AJ	AK	BA	BB	BC	BF	XB	XC	XD	XE	
36 (1.41)	1/2" NPT	136 (5.35)	49 (1.91)	149 (5.875)	114 (4.5)	70 (2.75)	4 (0.16)	5 (0.19)	10 (3/16)	42 (1.65)	94 (3.7)	82 (3.23)	72 (2.85)	

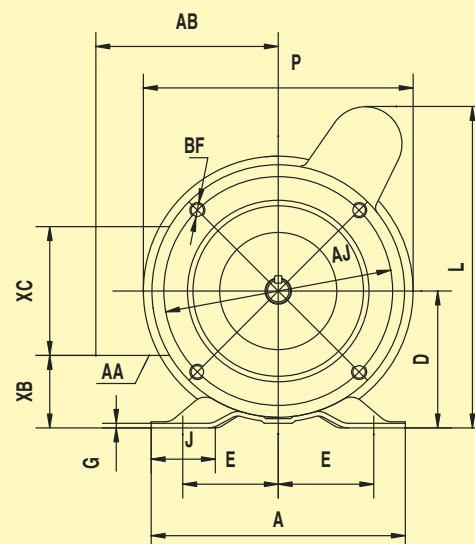
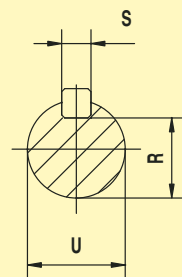
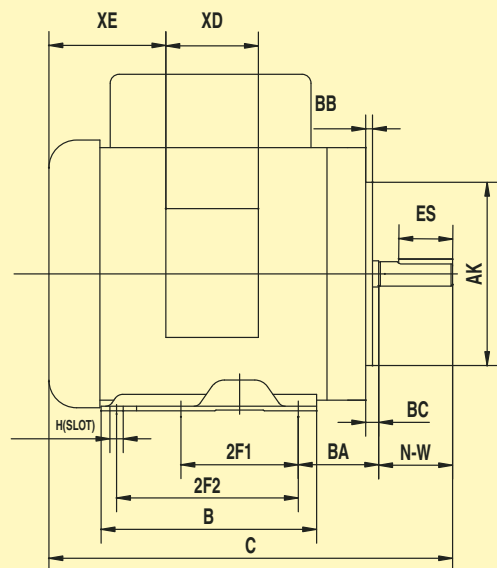
OMT13-18-56CB



Dimensions: mm (in)

A	B	C	D	E	2F1	2F2	G	H	J	L	P	R	S	U
165 (6.5)	165 (6.5)	315 (12.4)	89 (3.5)	62 (2.44)	76 (3)	127 (5)	3 (0.12)	9 (0.34)	44 (1.73)	208 (8.19)	175 (6.9)	13 (0.517)	5 (0.188)	16 (0.625)
ES	AA	AB	AH	AJ	AK	BA	BB	BC	BF	XB	XC	XD	XE	
36 (1.41)	$\frac{1}{2}$ " NPT	136 (5.35)	49 (1.91)	149 (5.875)	114 (4.5)	70 (2.75)	4 (0.16)	5 (0.19)	10 ($\frac{3}{16}$ -16)	42 (1.65)	94 (3.7)	82 (3.23)	72 (2.85)	

OMT34-18-56CB



Dimensions: mm (in)

A	B	C	D	E	2F1	2F2	G	H	J	L	P	R	S	U
165 (6.5)	165 (6.5)	315 (12.4)	89 (3.5)	62 (2.44)	76 (3)	127 (5)	3 (0.12)	9 (0.34)	44 (1.73)	208 (8.19)	175 (6.9)	13 (0.517)	5 (0.188)	16 (0.625)
ES	AA	AB	AH	AJ	AK	BA	BB	BC	BF	XB	XC	XD	XE	
36 (1.41)	$\frac{1}{2}$ " NPT	136 (5.35)	49 (1.91)	149 (5.875)	114 (4.5)	70 (2.75)	4 (0.16)	5 (0.19)	10 ($\frac{3}{16}$ -16)	42 (1.65)	94 (3.7)	82 (3.23)	72 (2.85)	



56C FRAME MOTORS—1 PHASE

	OMT13-18-56CB	OMT12-18-56CB	OMT34-18-56CB
HP	$\frac{1}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
RPM/POLES	1800/4	1800/4	1800/4
VOLTAGE/PHASE	115/208 to 230V 1	115/208 to 230V 1	115/208 to 230V 1
FRAME	56C	56C	56C
FREQUENCY	60 HZ	60 HZ	60 HZ
RATED SPEED	1725 RPM	1725 RPM	1725 RPM
DUTY CYCLE	Continuous	Continuous	Continuous
SERVICE FACTOR	1.15	1.15	1.15
AMBIENT TEMP	40°C	40°C	40°C
ALTITUDE	3300' ASL	3300' ASL	3300' ASL
INSULATION CLASS	F	F	F
FULL LOAD AMPS	6.6/3.3 A	8.8/4.4 A	11.0/5.5 A
TEMP RISE @ FULL LOAD	80K at SF 1.15	80K at SF 1.15	100K at SF 1.15
OVERLOAD	None	None	None
DESIGN	B	B	B
RATED TORQUE	1.02 ft-lb	1.52 ft-lb	2.29 ft-lb
LOCKED ROTOR TORQUE	300%	300%	275%
BREAKDOWN TORQUE	275%	275%	250%
LOCKED ROTOR AMPS (STARTING)	31/18 A	37/21 A	55/32 A
SLIP	4.17% at full load	4.17% at full load	4.17% at full load
NO LOAD CURRENT	4.82 A	7.23 A	8.67 A
BEARINGS	Ball	Ball	Ball
DE BEARING	6203-ZZ	6203-ZZ	6203-ZZ
ODE BEARING	6203-ZZ	6203-ZZ	6203-ZZ
ENCLOSURE	TEFC	TEFC	TEFC
MOUNTING	F-1	F-1	F-1
ROTATION	CW/CCW	CW/CCW	CW/CCW
MOMENT OF INERTIA (lb-ft ²)	0.07458	0.07956	0.09505
CONNECTION DIAGRAM	115/208 to 230V—6 leads	115/208 to 230V—6 leads	115/208 to 230V—6 leads
TYPE WIRING	Loose wire	Loose wire	Loose wire
WIRE/HOUSING	Junction box	Junction box	Junction box
SHAFT	Keyed	Keyed	Keyed
CAPACITOR(S)	1	1	1
CAPACITOR SIZE	Ø42 x 80 mm ²	Ø42 x 80 mm ²	Ø42 x 80 mm ²
CAPACITOR INFO	200µF/125V	250µF/125V	250µF/125V
BASE/TYPE	Rigid removable	Rigid removable	Rigid removable
PAINT COLOR	Black	Black	Black
APPROX WEIGHT	26 lb	27 lb	31 lb
POWER FACTOR	0.62	0.63	0.65
EFFICIENCY (%)	56.0 at full load	57.0 at full load	65.0 at full load



OMT1-18-56CB	OMT1.5-18-56CB	OMT2-18-56CB
1	1.5	2
1800/4	1800/4	1800/4
115/208 to 230V 1	115/208 to 230V 1	115/208 to 230V 1
56C	56C	56C
60 HZ	60 HZ	60 HZ
1725 RPM	1725 RPM	1725 RPM
Continuous	Continuous	Continuous
1.15	1.15	1.15
40°C	40°C	40°C
3300' ASL	3300' ASL	3300' ASL
F	F	F
13.6/6.8 A	15.2/7.6 A	20.0/10.0 A
100K at SF 1.15	110K at SF 1.15	110K at SF 1.15
None	None	None
B	B	B
3.04 ft-lb	4.57 ft-lb	6.09 ft-lb
275%	250%	250%
250%	225%	225%
75/43 A	120/65 A	150/86 A
4.17% at full load	4.17% at full load	4.17% at full load
10.84 A	12.40 A	14.21 A
Ball	Ball	Ball
6203-ZZ	6203-ZZ	6203-ZZ
6203-ZZ	6203-ZZ	6203-ZZ
TEFC	TEFC	TEFC
F-1	F-1	F-1
CW/CCW	CW/CCW	CW/CCW
0.1195	0.1418	0.1823
115/208 to 230V—6 leads	115/208 to 230V—6 leads	115/208 to 230V—6 leads
Loose wire	Loose wire	Loose wire
Junction box	Junction box	Junction box
Keyed	Keyed	Keyed
1	2	2
Ø42 x 80 mm ²	Ø42 x 80 mm ² to Ø45 x 90 mm ²	Ø42 x 80 mm ² to Ø45 x 90 mm ²
300µF/125V	250µF/165V, 40µF/450V	200µF/165V, 40µF/450V
Rigid removable	Rigid removable	Rigid removable
Black	Black	Black
34 lb	37 lb	43 lb
0.66	0.75	0.77
68.0 at full load	71.0 at full load	73.0 at full load



OMT13-18-56CB, \$97, shown smaller than actual size.

To Order (Specify Model Number)

MOST POPULAR MODELS HIGHLIGHTED!

MODEL NO.	PRICE	DESCRIPTION
OMT13-18-56CB	£65	56C flange rolled steel motor, 115/208-230 V, single-phase, 1/3 HP, 1800 RPM
OMT12-18-56CB	68	56C flange rolled steel motor, 115/208-230 V, single-phase, 1/2 HP, 1800 RPM
OMT34-18-56CB	74	56C flange rolled steel motor, 115/208-230 V, single-phase, 3/4 HP, 1800 RPM
OMT1-18-56CB	83	56C flange rolled steel motor, 115/208-230 V, single-phase, 1 HP, 1800 RPM
OMT1.5-18-56CB	105	56C flange rolled steel motor, 115/208-230 V, single-phase, 1.5 HP, 1800 RPM
OMT2-18-56CB	127	56C flange rolled steel motor, 115/208-230 V, single-phase, 2 HP, 1800 RPM

Ordering Example: OMT13-18-56CB, 56C flange rolled steel motor, 115/208 to 230 V single-phase, 1/3 HP, 1800 RPM, £65.

ACCESSORIES

MODEL NO.	PRICE	DESCRIPTION
OMSCFM13	£8	Start capacitor, for OMT13-18-56CB
OMSCFM12	8	Start capacitor, for OMT12-18-56CB
OMSCFM34	8	Start capacitor, for OMT34-18-56CB
OMSCFM1	8	Start capacitor, for OMT1-18-56CB
OMSCFM1.5	8	Start capacitor, for OMT1.5-18-56CB
OMSCFM2	8	Start capacitor, for OMT2-18-56CB
OMRCFM1.5	8	Run capacitor, for OMT1.5-18-56CB
OMRCFM2	8	Run capacitor, for OMT2-18-56CB
OMW56	5.40	Motor slide base, 56 frame
OMCSWITCHFM	8	Centrifugal switch, single-phase motors

Ordering Example: OMW56, motor slide base for 56 frame, £5.40.

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• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters