PRODUCT INFORMATION PACKET

Model No: 1011536-BR
Catalog No: 1011536
TerraMAX® Cast Iron Motor, 300 HP, 3 Ph, 60 Hz, 380 V, 1800 RPM, 355M/L Frame, TEFC

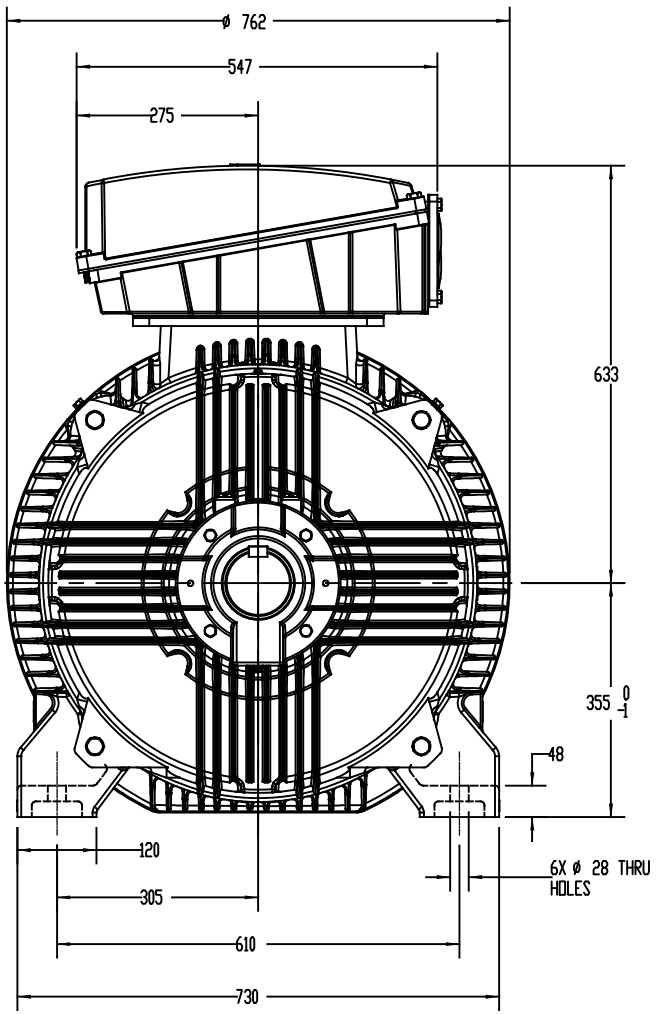
marathon® Motors

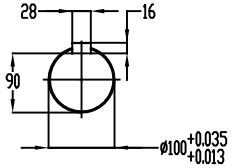
Nameplate Specifications

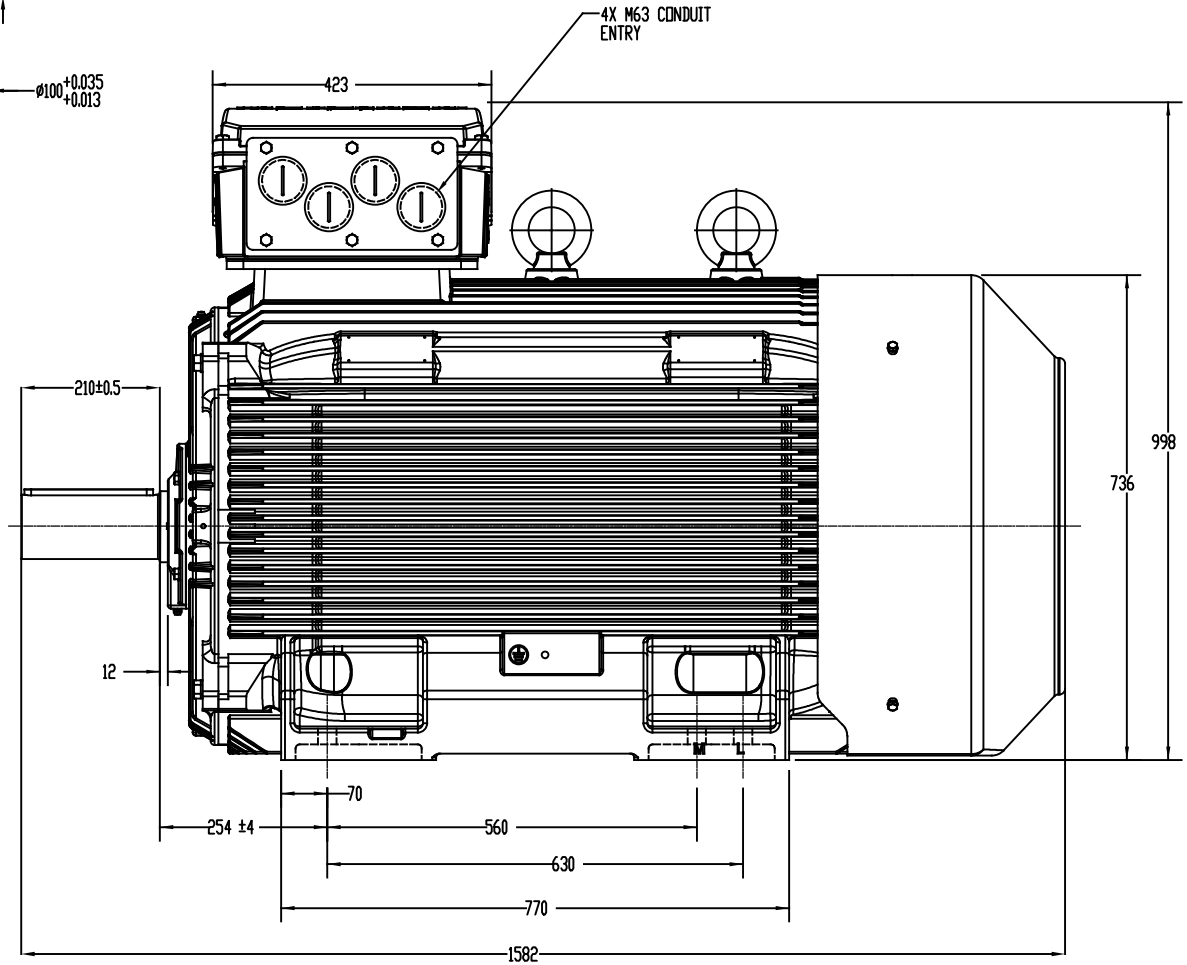
Output HP	300 Hp	Output KW	220.0 kW
Frequency	60 Hz	Voltage	380 V
Current	6.9 A	Speed	1791 rpm
Service Factor	1.25	Phase	3
Efficiency	96.2 %	Power Factor	0.9
Duty	S1	Insulation Class	F
Frame	355M/L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6322
UL	No	CSA	No
CE	No	IP Code	55
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Clockwise
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast	Shaft Type	Keyed
Overall Length	1582 mm	Frame Length	1010 mm
Shaft Diameter	100 mm	Shaft Extension	210 mm
Assembly/Box Mounting	TOP		
Outline Drawing	TMCA35501		







DRAWING REVISION A	REVISION BY -	DATE -
ECO -	APPROVED BY -	DATE -
ECO DESCRIPTION -		

DRAWN BY LUCIANO	marathon™ Motors		
DATE 28/08/2019	DESCRIPTION DESENHO DE CONTORNO MOTOR TCA 355ML 4-8P - B3T		
APPROVED BY LUCIANO			
DATE 28/08/2019			
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER TMCA35501	SHEET 1 DE 1

REV	REFERENCE ECN	REFERENCE PROJECT	REV BY	DATE	APPD	DATE
A		0701478	Carlos	08-23-2007	J. RUP	08-23-2007

NOTES FOR CE2D013

1. MOTOR WEIGHT: 5.4#'S
2. 42 X 42 X 45
3. GROUND WASHER LOCATION: ES20T1-13
4. CLASS "B" INSULATED MOTOR APPROVED FOR CLASS "A" UL LOCKED ROTOR & IDLE TEMPS.
5. DO NOT POLISH SHAFT AFTER PHOSPHATE HAS BEEN APPLIED.
6. MOTOR LONGER THAN STANDARD.
7. CAPACITOR CANNOT OVERHANG FACE OF MTG. LUGS.
8. MOTOR MOUNTS HORIZONTAL; ENVIRONMENT: N/A; APPLICATION: UNIT HEATER
9. MOTOR TEST DATA
   TEST @ 115 VOLTS 60 HZ
   SPECS BELOW @ ROOM AMBIENT
   L.V.S. 75 C.S. TORQUE 27.5 OZ. IN.
   LOCK WATTS: 111-135 LRA 1.05
   IDLE WATTS: 63-77
   SPECS BELOW @ 25 DEG C
   TORQUE OZ. IN.
   15.75-19.25 @ 1550 RPM 74.7-91.3 WATTS

TEST DATA @ 115 VOLTS 60 HZ
SPECS BELOW @ ROOM AMBIENT
L.V.S. 75 C.S. TORQUE 10 OZ. IN.
LOCK WATTS: 50-61 LRA .5
IDLE WATTS: 30-40
SPECS BELOW @ 25 DEG C
TORQUE OZ. IN.
10.35-12.65 @ 1000 RPM 43.7-53.4 WATTS
PER SAMPLE 0603002A 08-13-2007 EMD
USE 7.5 MFD 370 VAC CAPACITOR

NOTES FOR 129TP1-163
1. WINDING HEIGHT F=1.000
2. WINDING HEIGHT G=1.000
3. OVER WEIGHT ES129T10-40 C=270
4. LEAD TIE ES129T11-5 A=50, B=180

NOTES FOR 229TP1-163
1. MAGNETIC WIRES 125HTN29 H1
   MAGNETIC WIRES 160HTN29 H2
   MAGNETIC WIRES 50HTN31 L1
   MAGNETIC WIRES 100HTN31 L2
   MAGNETIC WIRES 140HTN30 A1
   MAGNETIC WIRES 185HTN30 A2
2. COIL C2F2*71
3. REVERSE WOUND AUX.
4. COLD RESISTENCE @ 25 DEG C
   H: 48.93-54.08
   L: 91.68-101.33
   A: 71.25-78.75
   60 HZ GFW N/A

GEOMETRIC CHARACTERISTICS & SYMBOLS
- FLATNESS
- STRAIGHTNESS
- ANGULARITY
- PERPENDICULARITY (SQUARENESS)
- PARALLELISM
- ROUNDNESS (CIRCULARITY)
- CYLINDRICITY
- PROFILE OF ANY SURFACE
- PROFILE OF ANY LINE
- RUNOUT
- TRUE POSITION
- CONCENTRICITY
- SYMMETRY

UNLESS OTHERWISE SPECIFIED
DIM. TOLERANCES ARE AS FOLLOWS:

	X	XX	XXX	XXXX
INCH	±.1	±.02	±.005	±.0005
mm	±0.5	±0.13	±0.013	

ANG. ±.50 DEG
REMOVE BURRS & BREAK SHARP EDGES:
INCH .003-.015 mm 0.1-0.4
CORNER FILLETS TO:
INCH .020 mm 0.5
MACHINE SURFACES:
INCH 125 mm 3.2
METRIC DIMS. SHOWN IN [BRACKETS]

DR BY: .
APPD:
THIRD ANGLE PROJECTION
EDS DATE 01-21-2007
FORMAT REV E

ASME Y14.5M 1994

A.O.SMITH
ELECTRICAL PRODUCTS COMPANY
TIPP CITY, OHIO
A DIVISION OF A. O. SMITH CORPORATION

DESCRIPTION
ELECTRICAL INSPECTION

SIZE B
DWG NO 1011536
SCALE NONE
SHEET 1

REVISION:	ECN REFERENCIA:	PROYECTO REFERENCIA:	REVISADO POR:	FECHA:	APROBADO POR:	FECHA:
A		0701478	Carlos	08-23-2007	J. RUP	08-23-2007

NOTAS POR CE2D013

1. PESO DEL MOTOR: 5.4#'S
2. 42 X 42 X 45
3. LOCALIZACION DE ARANDELA DE TIERRA: ES20T1-13
4. LA INSOLACION DEL MOTOR CLASE "B" ES APROVADA POR
   POR CLASE "A" EL ROTOR Y LA CORRIENTE EN VACIO ES BLOQUEADO.
5. NO PULIR LA FLECHA DESPUES DE HABER
APLICADO EL FOSFATO.
6. EL MOTOR ES MAS GRANDE QUE EL ESTANDAR.
7. EL CAPACITOR NO DEBE SOBRESALIR LA CARA
   DEL MONTAJE DE LAS TERMINALES.
8. EL MOTOR ESTA VA MONTADO HORIZONTALMENTE; MEDIO: N/A;
   APLICACION: CALENTADOR
9. DATOS DE PRUEBA DEL MOTOR.
   PRUEBA @ 115 VOLTS 60 HZ
   ESPECIFICACIONES ABAJO @ AMBIENTE DE CUARTO
   L.V.S. 75 C.S. TORQUE 27.5 OZ. IN.
   WATTS CERRADOS: 111-135 LRA 1.05
   WATTS EN CORRIENTE EN VACIO: 63-77
   ESPECIFICACIONES ABAJO @ 25 GRADOS C
   TORQUE OZ. IN.
   15.75-19.25 @ 1550 RPM 74.7-91.3 WATTS

   DATOS DE PRUEBA@ 115 VOLTS 60 HZ
   ESPECIFICACIONES ABAJO @ AMBIENTE DE CUARTO
   L.V.S. 75 C.S. TORQUE 10 OZ. IN.
   WATTS CERRADOS: 50-61 LRA .5
   WATTS DE CORRIENTE EN VACIO: 30-40
   ESPECIFICACIONES ABAJO @ 25 GRADOS C
   TORQUE OZ. IN.
   10.35-12.65 @ 1000 RPM 43.7-53.4 WATTS
   POR MUESTRA 0603002A 08-13-2007 EMD
   USAR 7.5 MFD 370 VAC CAPACITOR

NOTAS POR 129TP1-163
1. ALTURA DE BOBINADO F=1.000
2. ALTURA DE BOBINADO G=1.000
3. ENROLLADO POR ENCIMA ES129T10-40 C=270
4. CORBATA DE CABLE ES129T11-5 A=50, B=180

NOTAS POR 229TP1-163
1.ALAMBRE MAGNETICO 125HTN29 H1
  ALAMBRE MAGNETICO 160HTN29 H2
  ALAMBRE MAGNETICO 50HTN31 L1
  ALAMBRE MAGNETICO 100HTN31 L2
  ALAMBRE MAGNETICO 140HTN30 A1
  ALAMBRE MAGNETICO 185HTN30 A2
2. BOBINA C2F2*71
3. BOBINA DE REVERSA AUXILIAR.
4. RESISTENCIA EN FRIO @ 25 GRADOS C
   H: 48.93-54.08
   L: 91.68-101.33
   A: 71.25-78.75
   60 HZ GFW N/A

CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS
- PLANICIDAD
- RECTITUD
- ANGULARIDAD
- PERPENDICULARIDAD (A ESCUADRA)
- PARALELISMO
- REDONDEZ (CIRCULARIDAD)
- CILINDRICIDAD
- PERFIL DE CUALQUIER SUPERFICIE
- PERFIL DE CUALQUIER LINEA
- VARIACION
- POSICION REAL
- CONCENTRICIDAD
- SIMETRIA

A MENOS QUE SE ESPECIFIQUE DE OTRA MANERA, LAS TOLERANCIAS DE LAS DIMS; SON LAS SIGUIENTES:

	X	XX	XXX	XXXX
PULG	±.1	±.02	±.005	±.0005
mm	±0.5	±0.13	±0.013	

ANG. ±.50 GRADOS
ELIMINAR REBABAS Y ORILLAS FILOSAS DEL BORDE.
PULG .003-.015 mm 0.1-0.4
FILETEAR ESQUINA: PULG .020 mm 0.5
MAQUINAR SUPERFICIES
PULG 125 mm 3.2
DIMS METRICAS MOSTRADAS [PARENTESIS]

DIBUJADO POR: . .
APROBADO POR:
TERCER ANGULO DE PROYECCION
FECHA EDS: 01-21-2007
REV. FORMATO: E

A.O.SMITH
ELECTRICAL PRODUCTS COMPANY
TIPP CITY, OHIO
A DIVISION OF A. O. SMITH CORPORATION

DESCRIPCION:
ELECTRICAL INSPECTION

TAMAÑO: B
NUMERO DE DIBUJO: 1011536
ESCALA: NONE
HOJA: 1

版本	更改通知号	项目号	编制	日期	批准	日期
A		0701478	Carlos	08-23-2007	J. RUP	08-23-2007

形位公差
- 平面度
- 直线度
- 倾斜度
- 垂直度
- 平行度
- 圆度
- 圆柱度
- 面轮廓度
- 线轮廓度
- 圆跳动
- 位置度
- 同轴度
- 对称度

除另有注明
尺寸公差如下：

	X	XX	XXX	XXXX
英寸	±.1	±.02	±.005	±.0005
毫米	±0.5	±0.13	±0.013	

角度 ±.50 度
清理毛刺和尖棱
英寸 .003-.015 毫米 0.1-0.4
内圆角
英寸 .020 毫米 0.5
表面粗糙度
英制 125 米制 3.2
米制尺寸显示在[ ]

绘图: .
批准:
第三角投影
图纸格式发布日期 01-21-2007
图纸格式版本 E

ASME Y14.5M 1994

A.O.SMITH
ELECTRICAL PRODUCTS COMPANY
TIPP CITY, OHIO
A DIVISION OF A. O. SMITH CORPORATION

名称
ELECTRICAL INSPECTION

图幅 B
图号 1011536
比例 NONE
页号 1

marathon® Motors

TerraMAX®

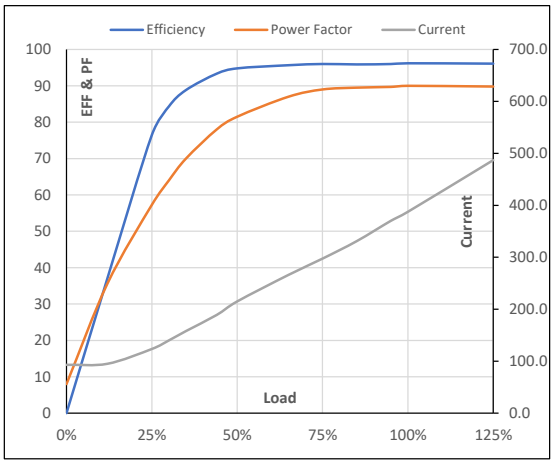
Model No. 1011536

Enclosure	U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m^2]	Weight [kg]
TEFC	380	Δ	60	220	300	387.5	1791	119.82	1175.02	IR3	40	S1	1000	39.932	1911

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	93.0	123.5	215.0	297.4	387.5	487.0
Torque	Nm	0.0	297.1	594.9	893.6	1175.0	1493.6
Speed	r/min	1800	1798	1795	1793	1791	1788
Efficiency	%	0.0	76.5	94.8	96.0	96.2	96.1
Power Factor	%	8.0	57.3	81.5	89.0	90.0	89.8

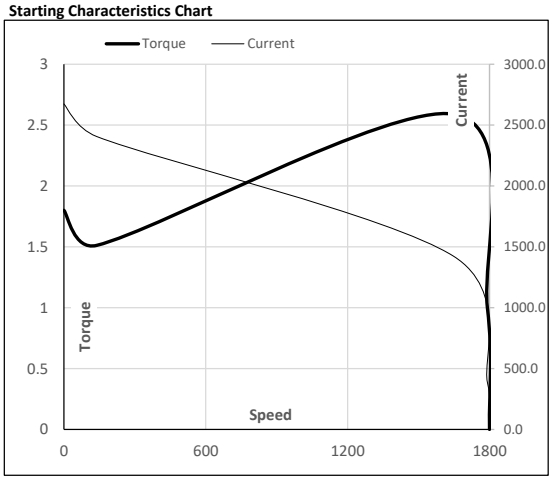
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	138	1648	1791	1800
Current	A	2673.8	2406.4	1423.1	387.5	93.0
Torque	pu	1.8	1.5	2.6	1	0

Starting Characteristics Chart



NOTE Refer data sheet for applicable standard and tolerances on performance parameters

Issued By
Issued Date

REGAL