### 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







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



#### Nameplate Specifications

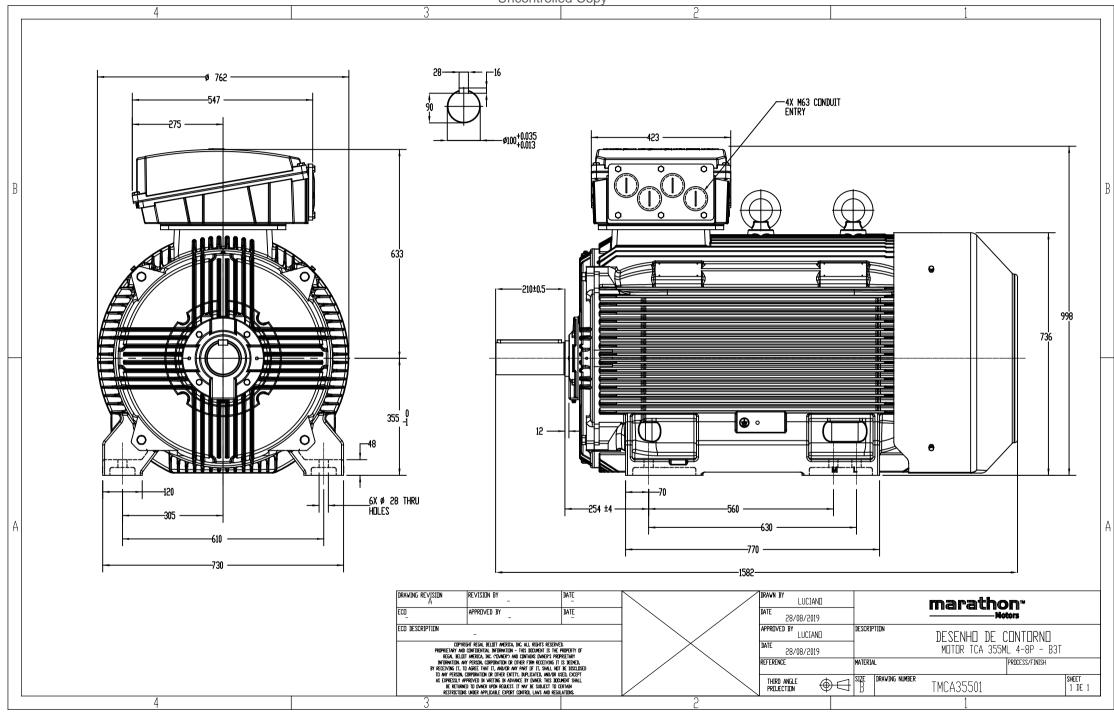
Output HP	300 Hp	Output KW	220.0 kW
Frequency	60 Hz	Voltage	380 V
Current	6.9 A	Speed	1791 rpm
Service Factor	1.25	Phase	3
Efficiency	96.2 %	Power Factor	0.9
Duty	<b>S1</b>	Insulation Class	F
Frame	355M/L	Enclosure	Totally Enclosed Fan Cooled
riaille	300W/L	Lilologuio	Totally Effolosed Fall Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
			·
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection  Drive End Bearing Size	No Protection 6322	Ambient Temperature Opp Drive End Bearing Size	40 °C 6322

#### **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	С3
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		

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	IZ [ \	REFERENCE	ECN REF	FERENCE PROJECT	REV BY	L DATE	APPD	DATE	7
NOTES FOR CE2D013	A			701478	Carlos	08-23-2007	J. RUP	08-23-2007	
4. CLASS "B" INSULATED CLASS "A" UL LOCKED 5. DO NOT POLISH SHAF BEEN APPLIED. 6. MOTOR LONGER THAN 7. CAPACITOR CANNOT O 8. MOTOR MOUNTS HORIZ APPLICATION: UNIT HI 9. MOTOR TEST DATA TEST @ 115 VOLTS SPECS BELOW @ RL.V.S. 75 C.S. LOCK WATTS: 111-IDLE WATTS: 63-7 SPECS BELOW @ 25 TORQUE OZ. IN.	CATION: ES20T1-13 MOTOR APPROVED ROTOR & IDLE TE T AFTER PHOSPHAT STANDARD. VERHANG FACE OF ZONTAL; ENVIRONME EATER  60 HZ OOM AMBIENT TORQUE 27.5 OZ. II -135 LRA 1.05 77 5 DEG C	FOR IMPS. E HAS MTG. LUG INT: N/A			1. WINDING 2. WINDING 3. OVER V 4. LEAD T  NOTES FO 1. MAGNET MAGNET MAGNET MAGNET MAGNET MAGNET AGNET MAGNET MAGNET AGNET AGN	VEIGHT ES129T IE ES129T11-5 R 229TP1-163 FIC WIRES 125 IC WIRES 50 IC WIRES 100 IC WIRES 140 IC WIRES 140 IC WIRES 185 2F2*71 SE WOUND AUX RESISTENCE @ 48.93-54.08 91.68-101.33 71.25-78.75	000 000 10-40 C=2 5 A=50, B= 5HTN29 H1 9HTN31 L1 9HTN31 L2 9HTN30 A1 9HTN30 A2		В
SPECS BELOW @ RELOVISH L.V.S. 75 C.S. LOCK WATTS: 50— IDLE WATTS: 30—4 SPECS BELOW @ 2. TORQUE OZ. IN. 10.35—12.65 @ 10. PER SAMPLE 0603C USE 7.5 MFD 370  GEOMETRIC CHARACTERISTICS & SYMBOLS WISE 7.5 MFD 370  GEOMETRIC CHARACTERISTICS & SYMBOLS  WISE 7.5 MFD 370  GEOMETRIC CHARACTERISTICS & SYMBOLS  WISE 7.5 MFD 370  GEOMETRIC CHARACTERISTICS & SYMBOLS  WISE 7.5 MFD 370  GEOMETRIC CHARACTERISTICS & SYMBOLS  WISE 7.5 MFD 370  GEOMETRIC CHARACTERISTICS & SYMBOLS  WISE 7.5 MFD 370  GEOMETRIC CHARACTERISTICS & SYMBOLS  WISE 7.5 MFD 370  GEOMETRIC CHARACTERISTICS & SYMBOLS  WISE 7.5 MFD	OOM AMBIENT TORQUE 10 OZ. IN. 61 LRA .5 -0 5 DEG C  OO RPM 43.7-53.4 OO2A 08-13-200 VAC CAPACITOR  UNLESS OTHERWISE SPECIDIM. TOLERANCES ARE AS  X XX XXX INCH ±.1 ±.02 ±.005 mm ±0.5 ±0.13 ±0.01 ANG. ±.50 DEG REMOVE BURRS & BREAK SINCH .003015 mm CORNER FILLETS TO: INCH .020 mm 0.5 MACHINE SURFACES: INCH 125 mm 3.2	FIED FOLLOWS: ( XXXX 5 ±.0005 3 SHARP EDGES: 0.1-0.4	CONFIDENTIAL: THIS DRAW THE EXCLUSIVE AND CON SMITH CORP. AND ARE N DUPLICATED, DISTRIBUTED	FORMAT REV E  ING AND ITS INFORMATION FIDENTIAL PROPERTY OF A.C OT TO BE DISCLOSED, OR OTHERWISE USED WITH F A.O. SMITH CORP.	DESCRIPTION  2007  ARE  OUT  SCALE NONE	PRODUCTS COMPANY ELECTRICAL  DWG NO	INSPECTION O11536	COPYRIGHT 1995	— A
	3. GROUND WASHER LOCAL CLASS "B" INSULATED CLASS "A" UL LOCKEE S. DO NOT POLISH SHAF BEEN APPLIED. 6. MOTOR LONGER THAN 7. CAPACITOR CANNOT COMMENTS HORI APPLICATION: UNIT HORI APPECS BELOW OF A L.V.S. 75 C.S. LOCK WATTS: 63-7 SPECS BELOW OF A L.V.S. 75 C.S. LOCK WATTS: 50-10LE WATTS: 30-4 SPECS BELOW OF A S	3. GROUND WASHER LOCATION: ES20T1-13 4. CLASS "B" INSULATED MOTOR APPROVED CLASS "A" UL LOCKED ROTOR & IDLE TE 5. DO NOT POLISH SHAFT AFTER PHOSPHAT BEEN APPLIED. 6. MOTOR LONGER THAN STANDARD. 7. CAPACITOR CANNOT OVERHANG FACE OF 8. MOTOR MOUNTS HORIZONTAL; ENVIRONME 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. II 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  TEST DATA @ 115 VOLTS 60 HZ SPECS BELOW @ ROOM AMBIENT L.V.S. 75 C.S. TORQUE 10 OZ. IN. 10.75-19.25 @ 1550 RPM 74.7-91.3  TEST DATA @ 115 VOLTS 60 HZ SPECS BELOW @ 25 DEG C TORQUE OZ. IN. 10.35-12.65 @ 1000 RPM 43.7-53.4 PER SAMPLE 0603002A 08-13-200 USE 7.5 MFD 370 VAC CAPACITOR  SEOMETRIC CHARACTERISTICS & SYMBOLS TELATNESS ANGULARITY PERPENDICULARITY (SQUARENESS) PARALLELISM OROUNDNESS (CIRCULARITY)	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. LUC 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. 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LOCK WATTS: 50-61 LRA .5 IDLE WATTS: 30-40 SPECS BELOW © 25 DEG C TORQUE 0Z. 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  EXEMPLE OF ANY LINE PROFILE OF ANY LINE IT HUS POSITION IT HUS PO	3. GROUND WASHER LOCATION: ES2CTI—13 4. CLASS "S" INSULATED MOTOR APPROVED FOR CLASS "A" UL COCKED ROTOR & IDLE TEMPS. 5. DO NOT POLSH SHAFT AFTER PHOSPHATE HAS BEEN APPLIED. 6. MOTOR LONGER THAN STANDARD. 7. CAPACITOR CANNOT OVERHANG FACE OF MIG. LUGS. 8. MOTOR MOUNTS FORZONTAL; ENVIRONMENT: N/A; APPLICATION: UNIT HEATER 9. MOTOR TEST DATA 1. TEST ® 115 VOLTS 60 HZ SPECS BELOW ® ROOM AMBENT L.V.S. 75 C.S. TORQUE 27.5 0Z, IN. LCCX WATTS: 111—135 LRA 1.05 IDLE WATTS: 63—77 SPECS BELOW ® 25 DEC C ORQUE 9Z, IN. 15.75—19.25 ® 1550 RPM 74.7—91.3 WATTS  TEST DATA ® 115 VOLTS 60 HZ SPECS BELOW ® ROOM AMBENT L.V.S. 75 C.S. TORQUE 10 QZ, IN. 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CLASS "A" LUL CORCID RODG APPROVED FOR CLASS "A" ULL CORCID RODG APPROVED FOR CLASS "A" ULL CORCID RODG & IDLE ITLMPS. 5. DO NOT POLISE SAPTA FER PHOSPHATE HAS FEFN APP IFD. 6. MOTO? LONG! ITLAN SIANDARD. 7. CAPACTOR CANNOT OVERHANG FACE OF MTG. LUSS. 8. MOTOR MOUNTS HORIZONITAL; ENV ROMENT: N/A; APPLICATION. UNII ILIAILI? 9. MOTOR TEST DATA TEST #115 VOITS 60 HZ 1 YS. 75 C.3. TOROUE 27.5 GZ. IN. 1 LYS. 75 C.3. TOROUE 27.5 GZ. IN. 1 LOCK WATES: 11—135 F.RA 1.05 IDLE WALS. 1 TORQUE CZ. IN. 1 LYS. 75 C.3. TOROUE 27.5 GZ. IN. 2 SPECIS BELOW 22.5 DIG C 1 TORQUE GZ. IN. 1 LYS. 75 C.3. TOROUE 10 GZ. IN. 2 SPECIS BELOW 22.5 DIG C 1 TORQUE GZ. IN. 2 SPECIS BELOW 22.5 DIG C 1 TORQUE GZ. IN. 3 SPECIS BELOW 22.5 DIG C 1 TORQUE GZ. IN. 4 C. CLASS IN SERVING 25 CONTROL 5 SPECIS BELOW 25 DIG C 5 TORQUE GZ. IN. 5 SUMMASS (CROLHARTY) 5 SPECIS BELOW 25 DIG C 5 TORQUE GZ. IN. 5 SUMMASS (CROLHARTY) 5 SPECIS BELOW 25 DIG C 5 SUMMASS (CROLHARTY) 5 SUMMASS (CROLHA	3. GECLYD WAS IER LOCATION: ESCOTIONS 4. CLASS "A" INLIAIDED MODE APPROVED FOR DAYS "APPROVED FOR A PROVED FOR A PROVINCE FOR A

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		REVISION:	ECN REFEREN	NCIA:	PROYECTO REFERENCIA:		REVISADO POR:	FECHA:	APROBADO POR:	FECHA:	
	NOTAS POR CE2D013	A			0701478	(	Carlos	08-23-2007	J. RUP	08-23-2007	
B	1. PESO DEL MOTOR: 5.4#'  2. 42 X 42 X 45  3. LOCALIZACION DE ARANDEI  4. LA INSOLACION DEL MOTO POR CLASE "A" EL ROTOR  5. NO PULIR LA FLECHA DES APLICADO EL FOSFATO.  6. EL MOTOR ES MAS GRAND  7. EL CAPACITOR NO DEBE S DEL MONTAJE DE LAS TER  8. EL MOTOR ESTA VA MONTA APLICACION: CALENTADOR  9. DATOS DE PRUEBA DEL M PRUEBA @ 115 VOLTS ESPECIFICACIONES ABAJO L.V.S. 75 C.S. TORQ WATTS CERRADOS: 111 WATTS EN CORRIENTE E ESPECIFICACIONES ABAJO TORQUE OZ. IN.	LA DE TIERRA: R CLASE "B" ES Y LA CORRIENTE PUES DE HABER E QUE EL ESTAN GOBRESALIR LA C MINALES. ADO HORIZONTAL OTOR. 60 HZ 0 @ AMBIENTE D UE 27.5 OZ. IN135 LRA 1 N VACIO: 63-7	APROVAL E EN VAC NDAR. CARA MENTE; N DE CUARTO 1.05	DA POR CIO ES BLOQUEADO MEDIO: N/A;		1. ALT 2. ALT 3. EN 4. CO NOTAS 1.ALAN ALA ALA ALA ALA ALA ALA ALA ALA ALA	TURA DE BOROLLADO POR BATA DE MAGNIMBRE MAGNIM	DBINADO F=1.0 DBINADO G=1.0 OR ENCIMA ES CABLE ES129T  TP1-163 ETICO 125HTN NETICO 160HTNETICO 50HTN NETICO 140HTNETICO 185HTN TO 185HTN	000 129T10-40 11-5 A=50, N29 H1 N29 H2 N31 L1 N31 L2 N30 A1 N30 A2		В
A	DATOS DE PRUEBA@ 11 ESPECIFICACIONES ABAJO L.V.S. 75 C.S. TORQ WATTS CERRADOS: 50- WATTS DE CORRIENTE EI ESPECIFICACIONES ABAJO TORQUE OZ. IN. 10.35-12.65 @ 1000 F POR MUESTRA 0603002/ USAR 7.5 MFD 370 VAC  CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS PLANICIDAD RECTITUD ANGULARIDAD PERPENDICULARIDAD (A ESCUADRA) PARALELISMO O REDONDEZ (CIRCULARIDAD) CILINDRICIDAD PERFIL DE CUALQUIER SUPERFICIE PERFIL DE CUALQUIER SUPERFICIE PORTON VARIACION POSICION REAL	5 VOLTS 60 HZ  D @ AMBIENTE D  UE 10 OZ. IN.  61 LRA  N VACIO: 30-44  D @ 25 GRADOS  PM 43.7-53.4 N  A 08-13-200  CAPACITOR  DS QUE SE ESPECIFIQ  MANERA, LAS TOLERANO  MS; SON LAS SIGUIENT  X XXX  ±.1 ±.02 ±.005 ±  ±0.5 ±0.13 ±0.013  .50 GRADOS  R REBABAS Y ORILLAS  R REBABAS Y ORILLAS  R SUPERFICIES  AR SUPERFICIES	UE CUARTO  C WATTS  TEMD  UE DE CIAS DE TES: XXXX E.0005  FILOSAS  1-0.4 0 mm 0.5	DIBUJADO POR:  APROBADO POR:  TERCER ANGULO DE PROYECCION  CONFIDENCIAL: ESTE I	FECHA EDS: ( REV. FORMAT DIBUJO Y SU INFORMAC JSO EXCLUSIVO Y CONF O DEBERAN SER REVEL JIDOS O USARSE DE OT TO ESCRITO DE A.O. SN DS RESERVADOS.ASME	O: E  HON FIDENCIAL DE ADOS, FRA MANERA	ELECTRICA TO DESCRIPCION:	PRODUCTS COMPANY IPP CITY, UNIO  ELECTRICAL  NUMERO DE DIBUJ		COPYRIGHT 1995	

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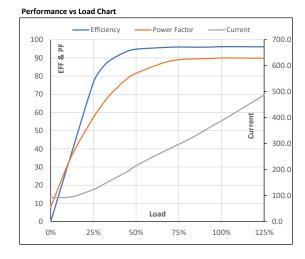




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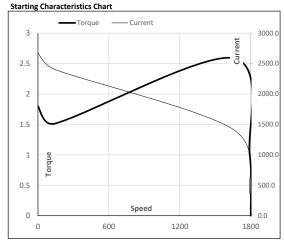
Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	380	Δ	60	220	300	387.5	1791	119.82	1175.02	IR3	40	S1	1000	39.932	1911

#### **Motor Load Data** Load Point 1/2FL 3/4FL 5/4FL Current Α 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 %



Motor Speed Torque Data

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



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

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