marathon®

General Purpose Motors

Model No: TCA0223AP211GAA009
Catalog No: R444

General Purpose Motor, 30 HP, 3 Ph, 60 Hz, 575 V, 1200 RPM, 200L Frame, TEFC

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Product Information Packet: Model No: TCA0223AP211GAA009, Catalog No: R444 General Purpose Motor, 30 HP, 3 Ph, 60 Hz, 575 V, 1200 RPM, 200L Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**30 Hp**
Output KW	**22.0 kW**	Voltage	**575 V**
Speed	**1185 r/min**	Synchronous RPM	**1200 r/min**
Service Factor	**1.15**	Frame	**200L**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**93 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**31.8 A**
Power Factor	**78**	Duty	**Continuous**
Insulation Class	**F8**	Design Code	**N (IEC)**
KVA Code	**J**	Drive End Bearing Size	**6311**
Opp Drive End Bearing Size	**6211**	UL	**Recognized**
CSA	**N**	CE	**Y**
IP Code	**55**	Number of Speeds	**1**

Technical Specifications

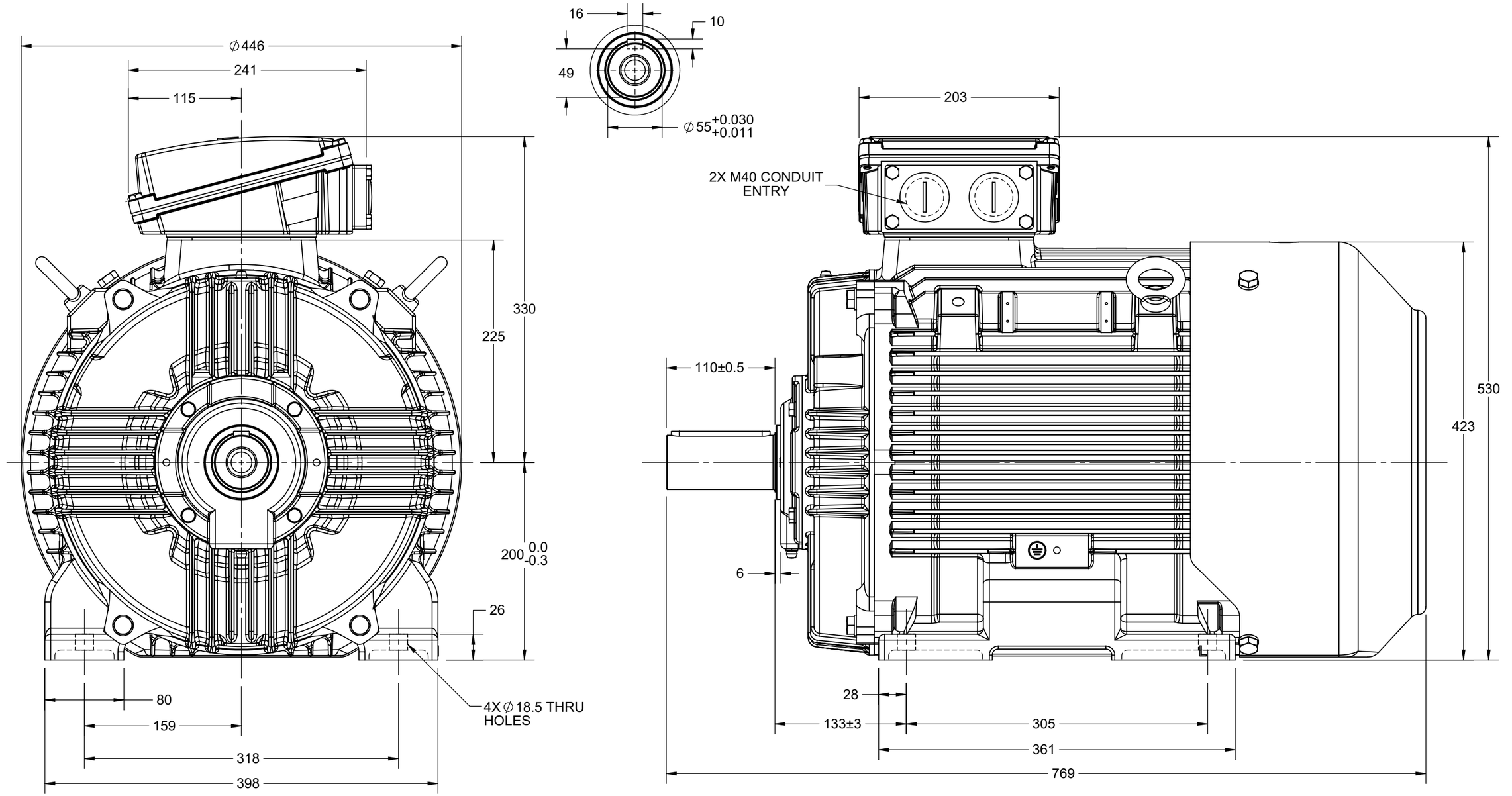
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**6**	Rotation	**Reversible**
Resistance Main	**.24 O**	Mounting	**B3**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**IEC**	Overall Length	**30.28 in**
Frame Length	**14.57 in**	Shaft Diameter	**2.17 in**
Shaft Extension	**4.33 in**	Assembly/Box Mounting	**F3**
Inverter Load	**Constant 2:1/Variable 10:1**		

Drawings

Connection Drawing	**8442000685**	Outline Drawing	**SS312999**

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OUTLINE



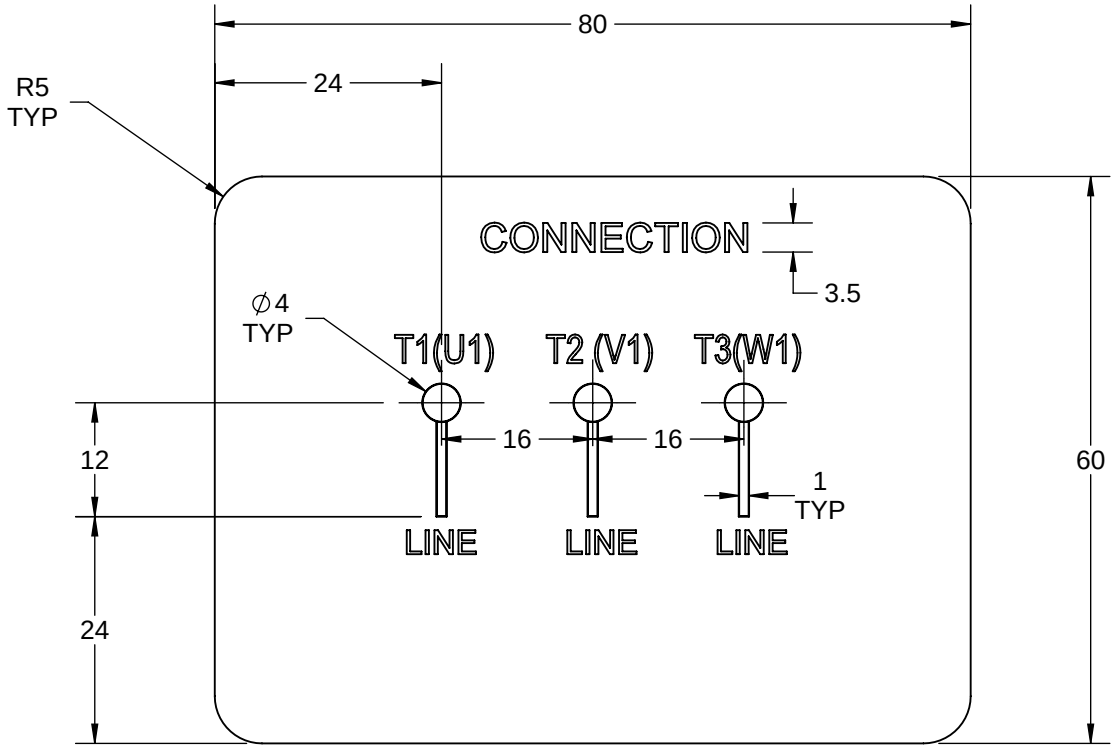
DRAWING REVISION: B	REVISION BY: SB	REV DATE/© DATE: 07/30/2025	
REQUEST NUMBER: CR-0023600	APPROVED BY: SBD	DATE: 07/30/2025	
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED			

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PRIMARY DIMENSIONS ARE mm
INCH DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY: LK	marathon™		
DATE: 05/12/2018	DESCRIPTION: OUTLINE IEC-200FR-B3 MOTOR TYPE: TEFC-CAST IRON		
APPROVED BY: JAY			
DATE: 05/12/2018			
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE: B	DRAWING NUMBER: SS312999	SHEET: 1 OF 1

GENERAL TOLERANCE		
LINEAR DIM	>0~6	±0.1
	>6~30	±0.2
	>30~120	±0.3



NOTES:

1. PRESSURE-SENSITIVE ADHESIVE TAPE COATED WITH ANTI-ADHESIVE.
2. YELLOW COLOR BACK GROUND LETTERS WILL BE BLACK.
3. DIMENSIONS WITHOUT INDICATED TOLERANCES SHALL CONFORM TO THE GENERAL TOLERANCE TABLE
4. LEAD TERMINAL MARKINGS FONT SIZE : T1-T2 - T3 & U1-V1-W1 OF ARIAL WITH 3mm SIZE
5. OTHER LETTER FONT SIZE SHOULD BE 3.5mm.

DRAWING REVISION	REVISION BY	REV DATE/© DATE
B	SB	06/03/2026
REQUEST NUMBER	APPROVED BY	DATE
CR-0026504	RMS	06/03/2026

REQUEST NUMBER DESCRIPTION
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DRAWN BY	A. KEETHA
DATE	24/07/2019
APPROVED BY	SN
DATE	24/07/2019
REFERENCE	
THIRD ANGLE PROJECTION	

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DESCRIPTION
CONNECTION DIAGRAM
3 LEAD CONNECTION

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	8442000685	1 OF 1

marathon® Motors

DATA VOLTS: 575

CERTIFICATION DATA SHEET

REFERENCE MODEL #: TCA0223AP211GAA009
CONN. DIAGRAM: 8442000677 **CAT #:** R444
OUTLINE: SS312999
WINDING: IE3L2006202 NONE 3 **MOUNTING:** F3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
30	22.0	1200	1185	200L	TEFC	TFN	J	N

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB (° C)	ELEV. (Ft)
3	60	575	30.5	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	93.0	3/4 LD EFF	93.0	1/2 LD EFF	91.9	GTD EFF	ELECT. TYPE
F.L. PF	78.0	3/4 LD PF	72.0	1/2 LD PF	61.0	92.0	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
133 LB-FT	218	327 LB-FT 246%	372 LB-FT 280%	80	

SOUND PRESSURE	SOUND	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX. MOTOR
65 dBA	74 dBA	14.8 LB-FT²	14.8 LB-FT²	15 SEC.	2	300 KG.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	B3	HORIZONTAL	NO	NONE	NO	NONE	BLUE (ENAMEL)

BEARINGS DE	BEARINGS ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL	BALL	POLYREX EM	STANDARD IEC	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6311	6211						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	
0.36875	0.2078125	1.3625	2.3546875	35.525	0.150	

* NOTES *

If Inverter equals NONE, contact factory for further information
INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE NONE **PPR**

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE **HZ:**

PREPARED BY:
DATE: 9/22/2021

FORM: 3531 REV_4 2/27/06
** Subject to change without notice.