marathon®

General Purpose Motors

Model No: TCA0113AP211GAA009
Catalog No: R435

General Purpose Motor, 15 HP, 3 Ph, 60 Hz, 575 V, 1200 RPM, 160L Frame, TEFC

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Product Information Packet: Model No: TCA0113AP211GAA009, Catalog No: R435 General Purpose Motor, 15 HP, 3 Ph, 60 Hz, 575 V, 1200 RPM, 160L Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**15 Hp**
Output KW	**11.0 kW**	Voltage	**575 V**
Speed	**1180 r/min**	Synchronous RPM	**1200 r/min**
Service Factor	**1.15**	Frame	**160L**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**91.7 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**16.8 A**
Power Factor	**79**	Duty	**Continuous**
Insulation Class	**F8**	Design Code	**N (IEC)**
KVA Code	**H**	Drive End Bearing Size	**6309**
Opp Drive End Bearing Size	**6209**	UL	**Recognized**
CSA	**N**	CE	**Y**
IP Code	**55**	Number of Speeds	**1**

Technical Specifications

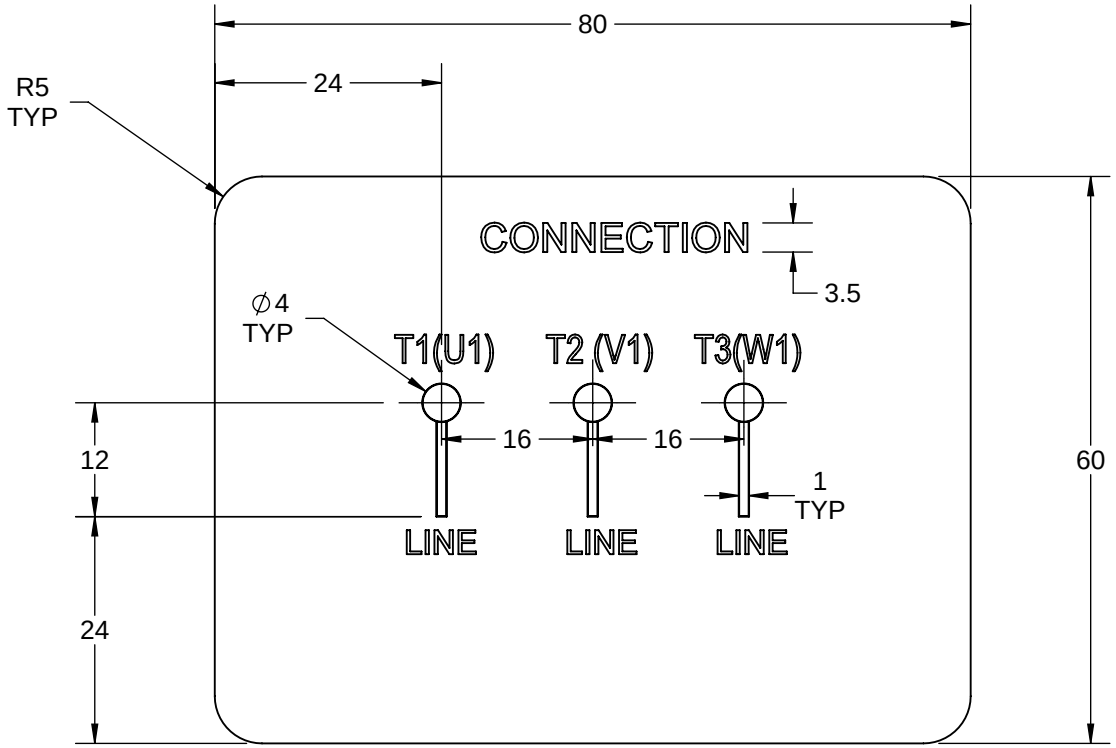
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**6**	Rotation	**Reversible**
Resistance Main	**.59 O**	Mounting	**B3**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**IEC**	Overall Length	**26.22 in**
Frame Length	**11.73 in**	Shaft Diameter	**1.65 in**
Shaft Extension	**4.33 in**	Assembly/Box Mounting	**F3**
Inverter Load	**Constant 2:1/Variable 10:1**		

Drawings

Connection Drawing	**8442000685**	Outline Drawing	**SS208564**

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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
DRAWING TITLE BLOCK UPDATED

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

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 #: TCA0113AP211GAA009
CONN. DIAGRAM: 8442000677 **CAT #:** R435
OUTLINE: SS208564
WINDING: IE3L1606202 NONE 3 **MOUNTING:** F3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
15	11.0	1200	1180	160L	TEFC	TFN	H	N

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB (° C)	ELEV. (Ft)
3	60	575	15.3	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	91.7	3/4 LD EFF	91.7	1/2 LD EFF	89.6	GTD EFF	ELECT. TYPE
F.L. PF	79.0	3/4 LD PF	72.0	1/2 LD PF	62.0	90.5	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
66.8 LB-FT	96.9	141 LB-FT 211%	182 LB-FT 272%	80	

SOUND PRESSURE	SOUND	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX. MOTOR
68 dBA	77 dBA	4.3 LB-FT²	4.3 LB-FT²	15 SEC.	2	172 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 6309	BALL 6209	POLYREX EM	STANDARD IEC	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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)	
0.9234375	0.646875	2.815625	4.246875	69.665625	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.