marathon®

General Purpose Motors

Model No: TCA0552AE211GAA009
Catalog No: R504A

General Purpose Motor, 75 & 60 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 RPM, 250M Frame, TEFC

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Product Information Packet: Model No: TCA0552AE211GAA009, Catalog No: R504A General Purpose Motor, 75 & 60 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 RPM, 250M Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**75 & 60 Hp**
Output KW	**55.0 & 45.0 kW**	Voltage	**230/460 & 200/400 V**
Speed	**1790 & 1490 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.15**	Frame	**250M**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**95.4 & 94.2 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**182.2/91.1 & 174.3/87.2 A**
Power Factor	**84**	Duty	**Continuous**
Insulation Class	**F8**	Design Code	**N (IEC)**
KVA Code	**J**	Drive End Bearing Size	**6314**
Opp Drive End Bearing Size	**6314**	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	**4**	Rotation	**Reversible**
Resistance Main	**.0687 O**	Mounting	**B3**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**IEC**	Overall Length	**37.05 in**
Frame Length	**18.11 in**	Shaft Diameter	**2.559 in**
Shaft Extension	**5.51 in**	Assembly/Box Mounting	**F3**
Inverter Load	**Constant 2:1/Variable 10:1**		

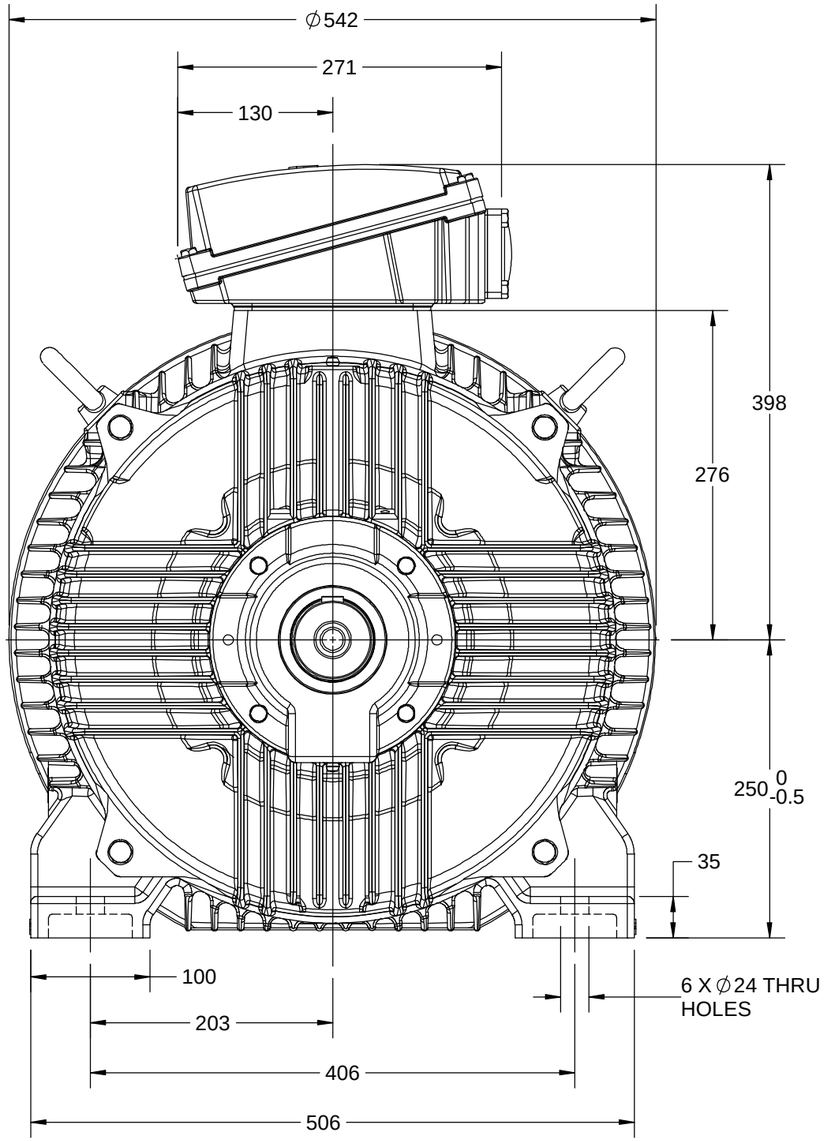
Drawings

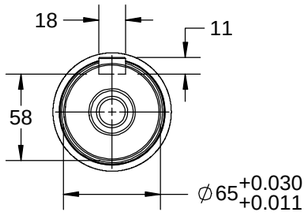
Connection Drawing	**8442000715**	Outline Drawing	**SS557724**

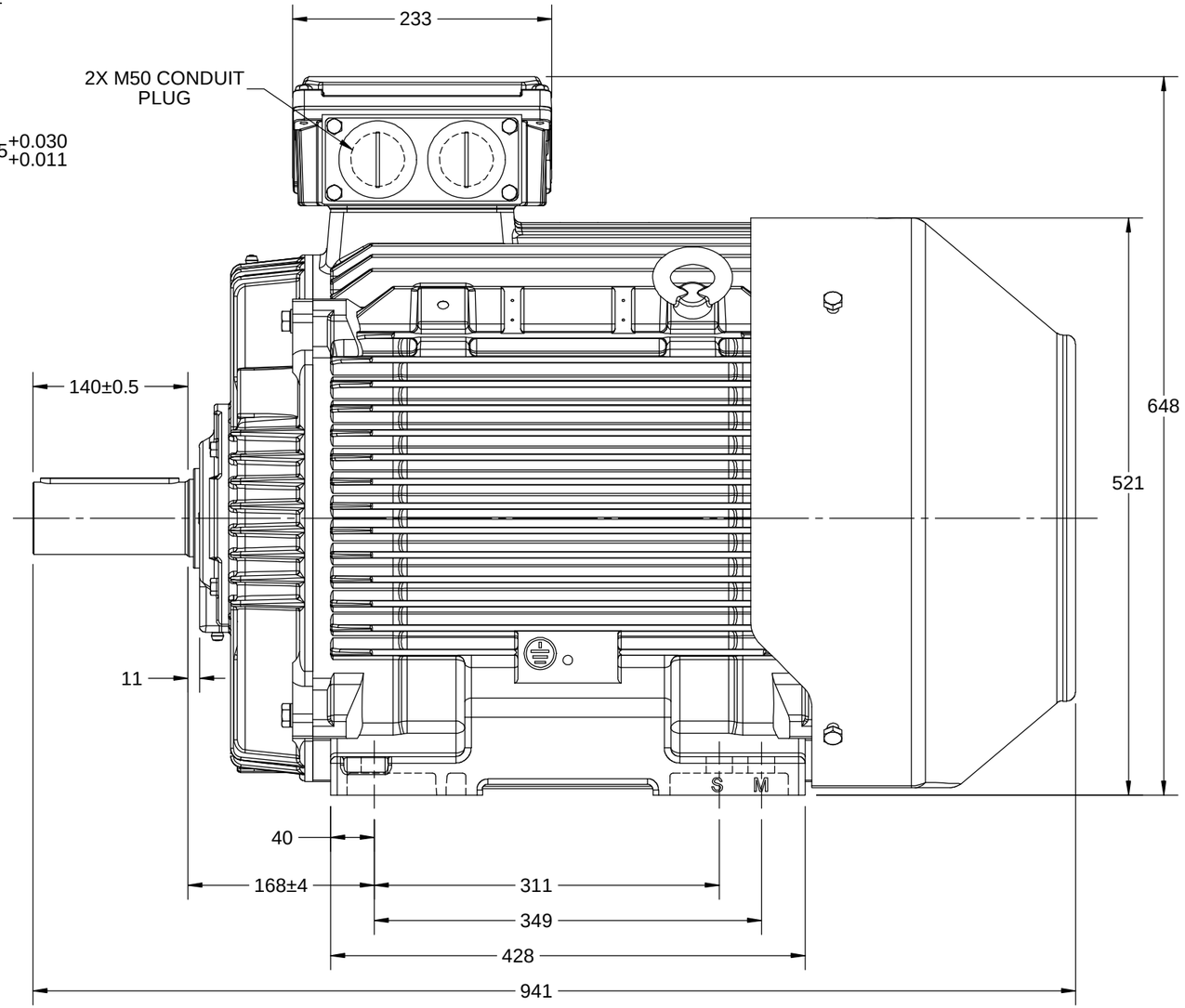
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OUTLINE







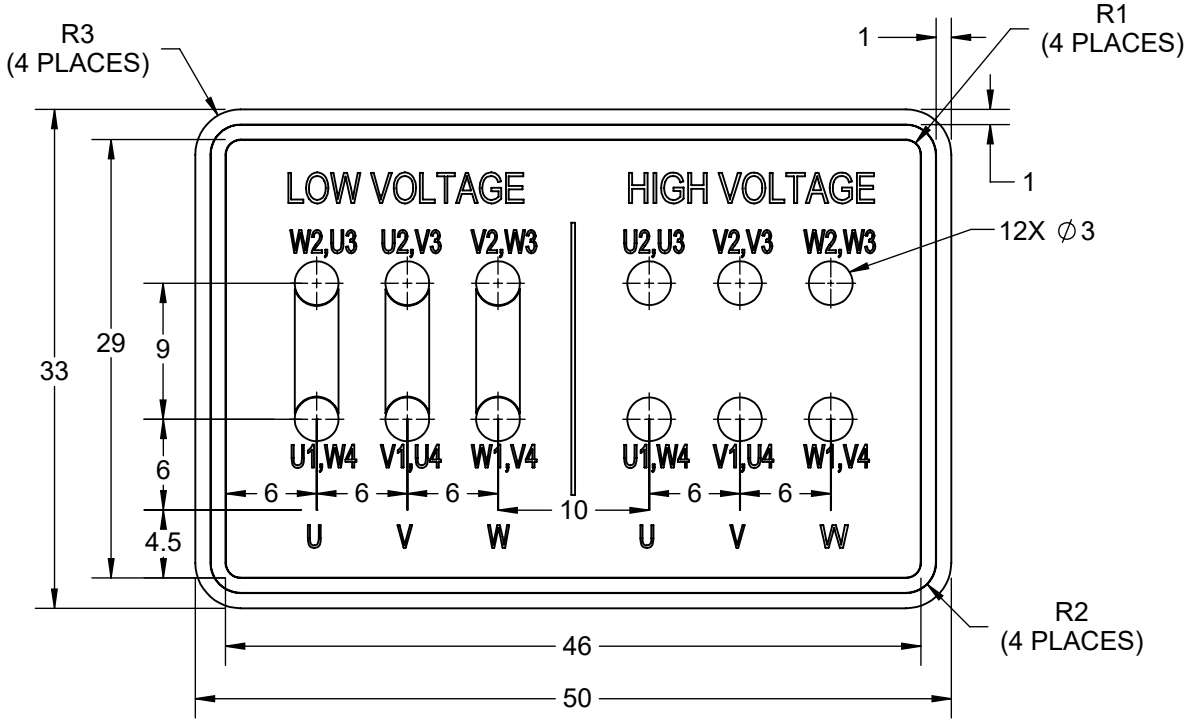
DRAWING REVISION: A	REVISION BY: LK	DATE: 05/12/2018		DRAWN BY: LK	marathon™ Motors
ECO: ECO-0157830	APPROVED BY: JAY	DATE: 05/12/2018		DATE: 05/12/2018	
ECO DESCRIPTION: NEW DRAWING RELEASE				APPROVED BY: JAY	DESCRIPTION: OUTLINE
				DATE: 05/12/2018	IEC-250FR-4P-B3 MOTOR TYPE: TEFC-CAST IRON
				REFERENCE	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE: B / DRAWING NUMBER: SS557724 / SHEET: 1 OF 1

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DRAWING REVISION	REVISION BY	REV DATE/© DATE
B	SB	08/01/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023654	SBD	08/01/2025
REQUEST NUMBER DESCRIPTION		
DRAWING TITLE BLOCK UPDATED		

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



NOTES:

1. PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE.
2. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK.
3. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE BY THE TABLE.
4. LEAD TERMINAL MARKINGS FONT SIZE : T1-T12 & U1-U4,V1-V4& W1-W4 OF ARIAL WITH 3mm SIZE
5. OTHER LETTER FONT SIZE SHOULD BE 3.5mm.

8WD.442.2017

PRIMARY DIMENSIONS ARE mm INCH DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY: S.MUDDA DATE: 16/11/2020 APPROVED BY: SUMANTA DATE: 16/11/2020 REFERENCE	marathon™ DESCRIPTION: CONN DIAGRAM-NAMEPLATE MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE: A	DRAWING NUMBER: 8442000715	SHEET: 1 OF 1

marathon® Motors

DATA VOLTS: 460

CERTIFICATION DATA SHEET

REFERENCE MODEL #: TCA0552AE211GAA009
CONN. DIAGRAM: 8442000677 **CAT #:** R504B
OUTLINE: SS557724
WINDING: IE3L2504201 NONE 1 **MOUNTING:** F3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
75	55.00	1800	1790	250M	TEFC	TFN	J	N

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB (° C)	ELEV. (Ft)
3	60/50	230/460#200/400	174/87&168/84	LINE OR INVERTER	CONT	F	1.15/1.15	40	3300

F.L. EFF	95.4	3/4 LD EFF	95.4	1/2 LD EFF	94.0	GTD EFF	ELECT. TYPE	
F.L. PF	84.0	3/4 LD PF	78.0	1/2 LD PF	68.0	94.7	SQ CAGE INV RATED	

F.L. TORQUE	LR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
220 LB-FT	694	508 LB-FT 231%	750 LB-FT 341%	80	

SOUND PRESSURE	SOUND	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX. MOTOR
72 dBA	81 dBA	36.3 LB-FT²	36.3 LB-FT²	15 SEC.	2	590 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	SG S5-V100	STANDARD IEC	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6314	6314						

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)	
0.042	0.019	0.17	0.299	7.061	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.