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Inverter (Vector) Duty Motors

Model No: 213THECD8053
Catalog No: Y981A

Inverter (Vector) Duty Motor, 5 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 213TC Frame, EPNV

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Product Information Packet: Model No: 213THECD8053, Catalog No: Y981A Inverter (Vector) Duty Motor, 5 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 213TC Frame, EPNV

Nameplate Specifications

Phase	**3**	Output HP	**5 Hp**
Output KW	**3.7 kW**	Voltage	**230/460 V**
Speed	**1770 r/min**	Synchronous RPM	**1800 r/min**
Service Factor	**1.15**	Frame	**213TC**
Enclosure	**Explosion Proof Non Ventilated**	Thermal Protection	**Thermostat**
Efficiency	**89.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**13.0/6.5 A**
Power Factor	**78.5**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**INV**
KVA Code	**J**	Drive End Bearing Size	**6309**
Opp Drive End Bearing Size	**6309**	UL	**UL Listed And CSA Certified**
CSA	**Y**	CE	**N**
IP Code	**54**	Number of Speeds	**1**
Hazardous Location	**DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C**		

Technical Specifications

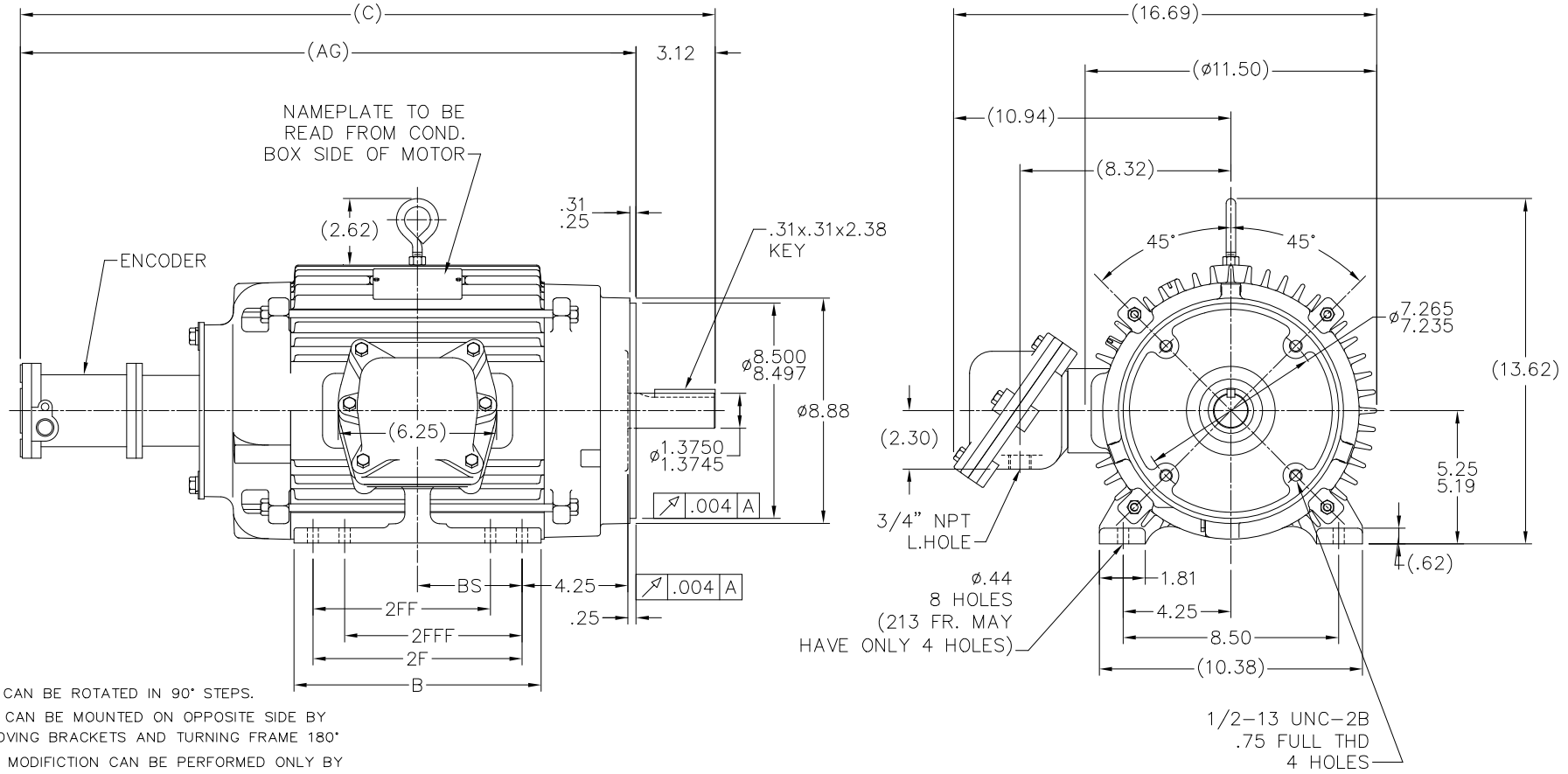
Electrical Type	**Squirrel Cage Inverter Duty**	Starting Method	**Inverter Only**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**1.97 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**T**	Assembly/Box Mounting	**F1/F2 Capable**
Inverter Load	**Constant 2000:1**		

Drawings

Connection Drawing	**EE7308T**	Outline Drawing	**SS88076-875**

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NOTES:

1. BOX CAN BE ROTATED IN 90° STEPS.
2. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180° THIS MODIFICTION CAN BE PERFORMED ONLY BY MARATHON ELECTRIC OR BY A FACILITY THAT IS COVERED UNDER UNDERWRITERS LABORATARIES INC.PTKQ,TITLED"MOTOR AND GENERATORS, REBUILT FOR USE ININ HAZARDOUS LOCATIONS".

DASH	FRAME	B	C	BS	2F	2FF	2FFF	AG
725	213TC	7.00	24.67	2.75	5.50	–	–	21.55
875	215TC	8.50	26.17	3.50	7.00	–	–	23.05
875	213/5TC	8.50	26.17	3.50	7.00	5.50	5.50	23.05
1000	213TC	9.75	27.42	4.12	8.25	5.50	5.50	24.30
1000	215TC	9.75	27.42	4.12	8.25	7.00	7.00	24.30

DRAWING REVISION	REVISION BY	REV DATE/ © DATE
H	SB	08/01/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023600	SBD	08/01/2025

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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TOLERANCES (EXCEPT AS NOTED):

DEC.	INCH	mm	ANGLE
.X	±0.1	[±3]	±7' 30"
.XX	±0.03	[±0.8]	
.XXX	±0.005	[±0.13]	
.XXXX	±0.0005	[±0.013]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45 °
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 200/ 5.1/ INCH / mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

DRAWN BY	CAV
DATE	03/20/2000
APPROVED BY	PH
DATE	03/20/2000
REFERENCE	
THIRD ANGLE PROJECTION	

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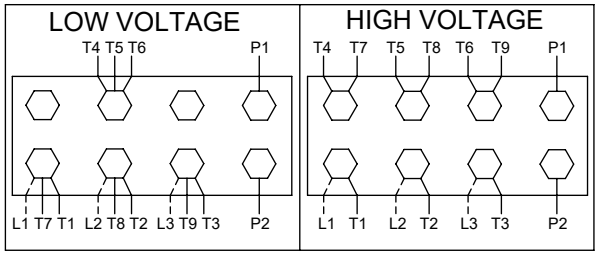
DESCRIPTION
OUTLINE
210T FR. - DBL . C'FACE W/FACE W/BEI ENCODER

MATERIAL | PROCESS/FINISH

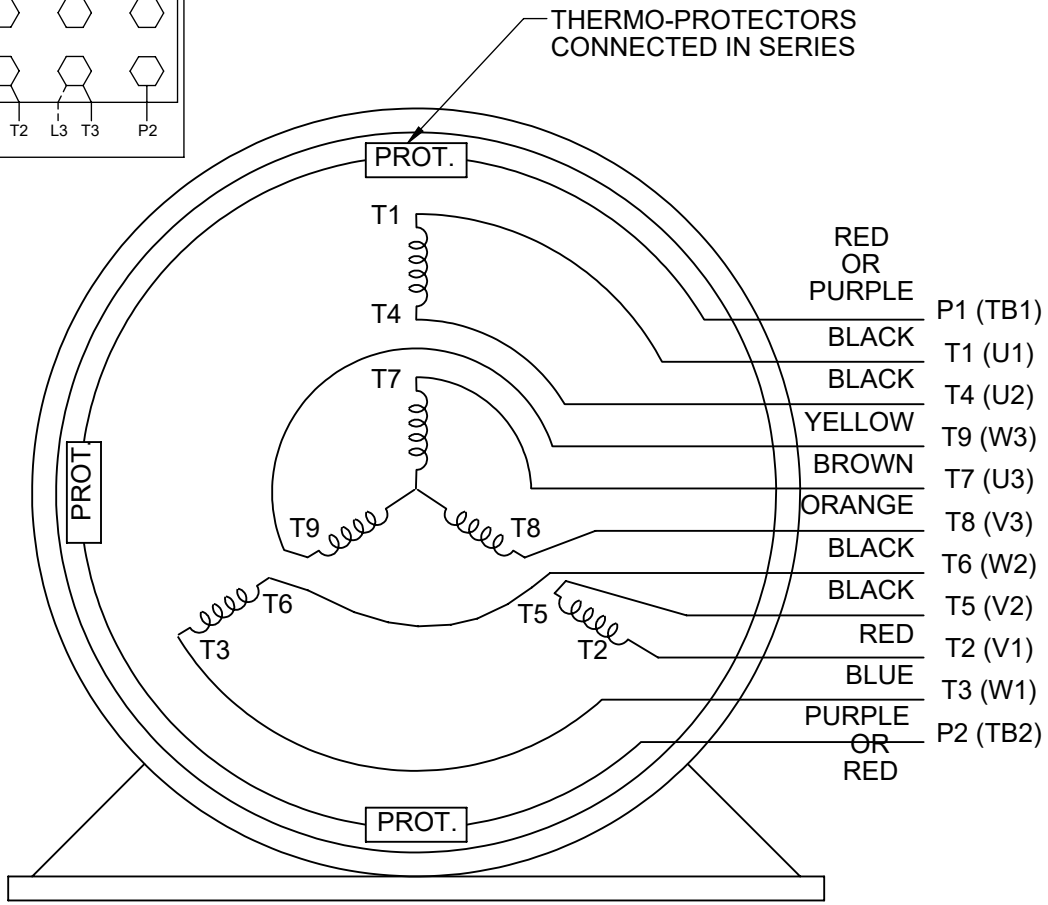
SIZE	DRAWING NUMBER	SHEET
B	SS88076	1 OF 1

HIGH VOLTAGE

(U1) T1 — L1
(V1) T2 — L2
(W1) T3 — L3
(U2) T4
(U3) T7
(V2) T5
(V3) T8
(W2) T6
(W3) T9



THREE PHASE DUAL VOLTAGE MOTOR



VIEW OF TERMINAL END

NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

LOW VOLTAGE

(U1) T1
(U3) T7 — L1
(V1) T2
(V3) T8 — L2
(W1) T3
(W3) T9 — L3
(U2) T4
(V2) T5
(W2) T6

NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR IMG PLANT

DRAWING REVISION: U	REVISION BY: SB	REV DATE/© DATE: 08/01/2025	PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY: SMC	marathon™
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/01/2025		DATE: 05-13-1992	
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED				APPROVED BY: TB	DESCRIPTION: CONN DIAGRAM-EXTERNAL
				DATE: 05-13-1992	3 PHASE - DUAL VOLTAGE MOTOR
				REFERENCE: EE7308/EE7300	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE: A — DRAWING NUMBER: EE7308T — SHEET: 1 OF 1

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