

Inverter (Vector) Duty Motors

Model No: 215THTCD8038

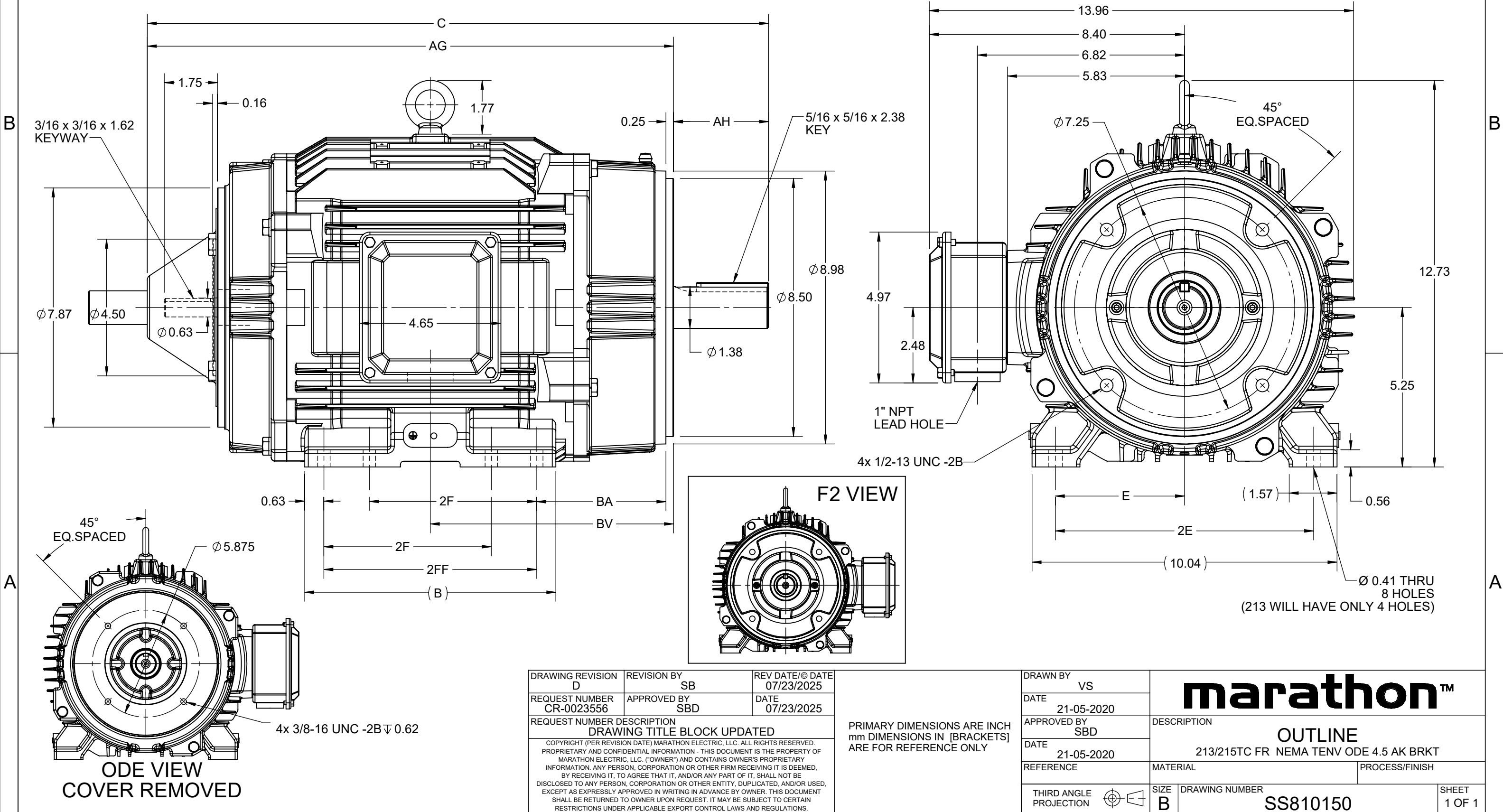
Catalog No: Y566A

Inverter (Vector) Duty Motor, 10 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 215TC Frame, TENV

Product Information Packet: Model No: 215THTCD8038, Catalog No: Y566A Inverter (Vector) Duty Motor, 10 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 215TC Frame, TENV

Nameplate Specifications			
Phase	3	Output HP	10 Hp
Output KW	7.5 kW	Voltage	230/460 V
Speed	1770 r/min	Synchronous RPM	1800 r/min
Service Factor	1.00	Frame	215TC
Enclosure	Totally Enclosed Non Ventilated	Thermal Protection	Thermostat
Efficiency	91.7 %	Ambient Temperature	40 °C
Frequency	60 Hz	Current	25.0/12.5 A
Power Factor	81	Duty	Continuous
Insulation Class	H	Design Code	INV
KVA Code	L	Drive End Bearing Size	6309
Opp Drive End Bearing Size	6206	UL	Recognized
CSA	Y	CE	Y
IP Code	55	Number of Speeds	1
Technical Specifications			
Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	.753 O	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Shaft Diameter	1.375 in
Assembly/Box Mounting	F1/F2 Capable	Inverter Load	Constant 2000:1
Drawings			
Connection Drawing	EE7308T	Outline Drawing	SS810150-200

4				3				2				1
DASH NO.	B	C	E	2E	2F	2FF	AG	AH	BA	BV	MOUNTING	FRAME
100	6.76	18.95	4.25	8.50	---	5.50	15.83	3.12	4.25	7.26	F1 OR F2	213TC
200	8.26	20.45			5.50	7.00	17.33			8.00		213/215TC

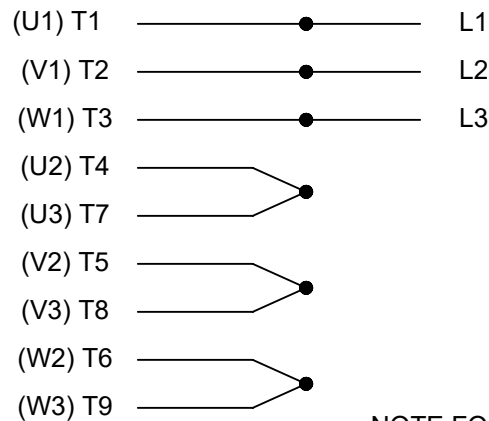


DRAWING REVISION D	REVISION BY SB	REV DATE/© DATE 07/23/2025
REQUEST NUMBER CR-0023556	APPROVED BY SBD	DATE 07/23/2025
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED		
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PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY VS	marathon™		
DATE 21-05-2020			
APPROVED BY SBD	DESCRIPTION OUTLINE		
DATE 21-05-2020	213/215TC FR NEMA TENV ODE 4.5 AK BRKT		
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER SS810150	SHEET 1 OF 1

LOW VOLTAGE



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

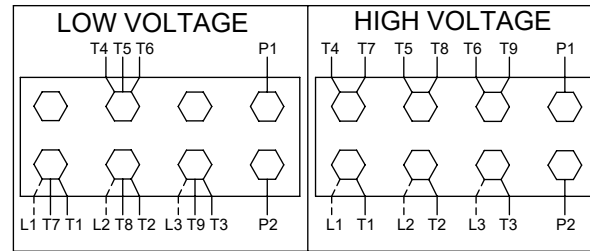
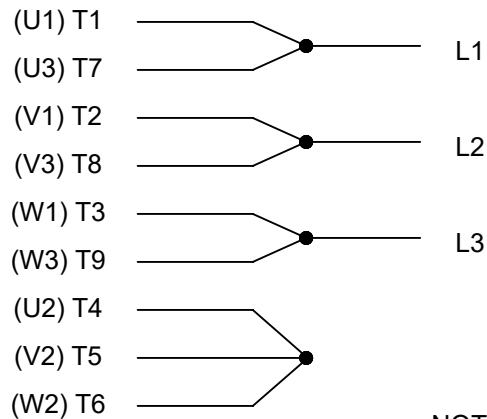


Diagram illustrating the terminal end of a cable with 12 conductors and two thermoprotectors (PROT.). The conductors are labeled T1 through T12, and the thermoprotectors are labeled PROT. The diagram shows the internal wiring and the color coding for each conductor.

Conductor Color Coding:

- T1: RED OR PURPLE
- T4: BLACK
- T7: BLACK
- T9: YELLOW
- T8: BROWN
- T6: ORANGE
- T5: BLACK
- T3: BLACK
- T2: RED
- T12: BLUE
- T11: PURPLE OR RED

Thermoprotectors (PROT.) are connected in series to the conductors T1 and T11.

VIEW OF TERMINAL END

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 3 PHASE - DUAL VOLTAGE MOTOR		
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					REFERENCE EE7308/EE7300		MATERIAL		PROCESS/FINISH
				THIRD ANGLE PROJECTION		SIZE A	DRAWING NUMBER EE7308T		SHEET 1 OF 1



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:**ORDER #:****CONN. DIAGRAM:****OUTLINE:****WINDING:****SPEED:**

EE7308T

SS810150-200

HA31324028

NONE

2

CUSTOMER P.O. #:**REFERENCE MODEL #:** 215THTCD8038**CAT #:** Y566A**CUSTOMER PART #:****MOUNTING:** F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
10	7.5	1800	1770	215TC	TENV	TTC	L	INF

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	25/12.5	INVERTER ONLY	CONT	H	1.15	40	3300

F.L. EFF	91.7	3/4 LD EFF	91.7	1/2 LD EFF	90.5	GTD EFF	91.2	ELECT. TYPE	
F.L. PF	81.0	3/4 LD PF	77.5	1/2 LD PF	66.0			SQ CAGE INV DUTY	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
29.6 LB-FT	125	82.2 LB-FT	116 LB-FT	105

SOUND PRESSURE @ 3 FT.	SOUND	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	STARTS/HOUR	APPROX.	MOTOR WGT
62 dBA	71 dBA		0.31 LB-FT ²	20 LB-FT ²	25 SEC.	2	0	LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	BRAKE OR ENCODER	RIGID	HORIZONTAL	NO	NONE	NO	NONE	BLUE (ENAMEL)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE ODE							
BALL BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)		CAST IRON
6309 6206							

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE	HEATERS
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE		NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.471	0.355	1.858	2.138	46.964	0.150	ODE

* N O T E s *		INVERTER TORQUE: CONSTANT 2000:1 INV. HP SPEED RANGE: 2.0 X BASE SPEED

PREPARED BY: CHANDANA DESU DATE: 7/15/2022	BRAKE: NONE
	NONE NONE
	FT-LB: NA
	VOLTAGE: NONE HZ:

FORM: 3531 REV_4 2/27/06

UL: V-INS, CONST, OVERHEAT PRT DEV UL REC



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: EE7308T
OUTLINE: SS810150-200
WINDING: HA31324028 NONE 2
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 215THTCD8038
CAT #: Y566A
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE
FAN: 504205B

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
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F.L. PF	81.0	3/4 LD PF	77.5	1/2 LD PF	66.0		91.2	SQ CAGE INV DUTY	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
29.6 LB-FT	125	82.2 LB-FT 278%	116 LB-FT 392%	105

SOUND PRESSURE @	SOUND	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APPROX.	MOTOR
62 dBA	71 dBA	1.30 LB-FT²	20 LB-FT²	25 SEC.	2	325 LB.	

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
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BALL BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6309 6208						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.471	0.355	1.858	2.138	46.964	0.150	ODE

NOTES		INVERTER TORQUE: CONSTANT 2000:1 INV. HP SPEED RANGE: 2.0 X BASE SPEED
		ENCODER: NONE
		NONE
		NONE

PREPARED BY:	DATE: 8/1/2022	BRAKE: NONE
		NONE NONE
		FT-LB: NA
		VOLTAGE: NONE HZ:
FORM: 3531 REV_4 2/27/06		UL: V-INS, CONST, OVERHEAT PRT DEV UL REC