

Inverter (Vector) Duty Motors

Model No: 215THTS8038

Catalog No: Y566

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

Product Information Packet: Model No: 215THTS8038, Catalog No: Y566 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	1775 r/min	Synchronous RPM	1800 r/min
Service Factor	1.0	Frame	215TC
Enclosure	Totally Enclosed Non Ventilated	Thermal Protection	Thermostat
Efficiency	91 %	Ambient Temperature	40 °C
Frequency	60 Hz	Current	26.0/13.0 A
Power Factor	78	Duty	Continuous
Insulation Class	H	Design Code	INV
KVA Code	L	Drive End Bearing Size	6309
Opp Drive End Bearing Size	6207	UL	Recognized
CSA	Y	CE	Y
IP Code	43	Number of Speeds	1

Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	.56 O	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	21.81 in
Frame Length	10.0 in	Shaft Diameter	1 3/8 in
Shaft Extension	3.12 in	Assembly/Box Mounting	F1/F2 Capable
Inverter Load	Constant 2000:1		

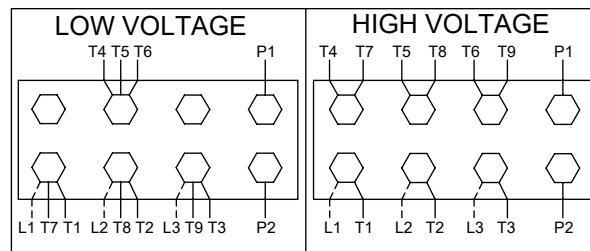
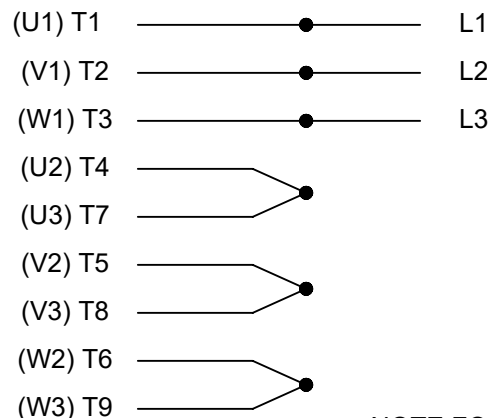
Drawings

Connection Drawing	A-EE7308T	Outline Drawing	B-SS87557-1000
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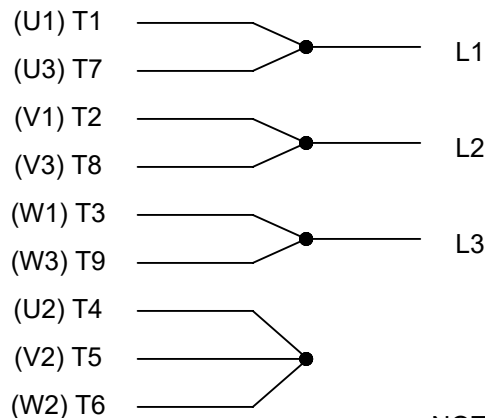
DASH	FRAME	B	C	AG	2F	2FF	BS	MTG
725	213/5TC	7.00	19.06	13.62	—	5.50	2.75	F1/F2
875	213/5TC	8.50	20.56	15.12	5.50	7.00	3.50	F1/F2
1000	215TC	9.75	21.81	16.37	7.00	8.25	4.12	F1/F2

HIGH VOLTAGE

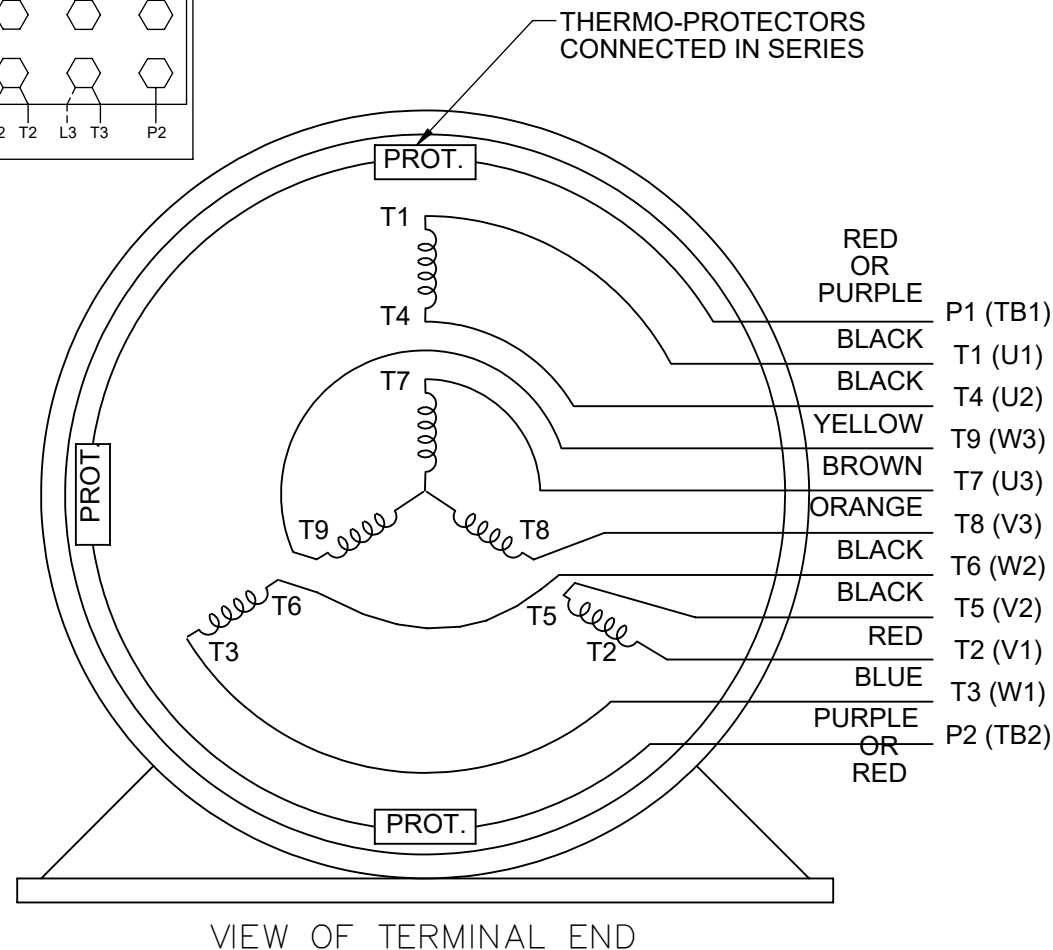


NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

LOW VOLTAGE



THREE PHASE DUAL VOLTAGE MOTOR



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

DRAWING REVISION U	REVISION BY SB	REV DATE/© DATE 08/01/2025
REQUEST NUMBER CR-0023654	APPROVED BY SBD	DATE 08/01/2025
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 SMC	DATE 05-13-1992
APPROVED BY TB	DATE 05-13-1992
REFERENCE EE7308/EE7300	THIRD ANGLE PROJECTION

marathon™		
DESCRIPTION CONN DIAGRAM-EXTERNAL 3 PHASE - DUAL VOLTAGE MOTOR		
MATERIAL	PROCESS/FINISH	
SIZE A	DRAWING NUMBER EE7308T	SHEET 1 OF 1

Data Sheet

Date: 15-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



215THTS8038

Submittal

Data @ 460 V

Motor Load Data

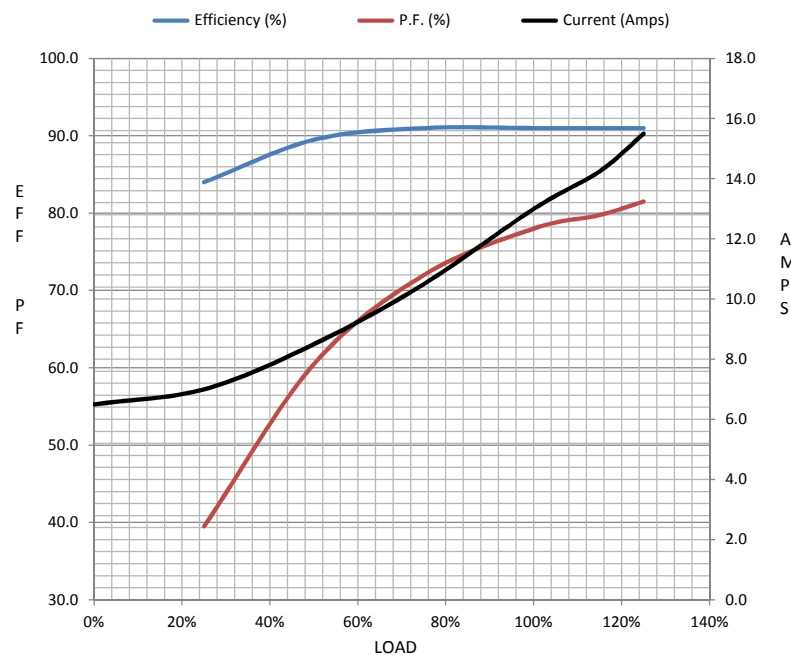
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	6.5	7.0	8.5	10.5	13.0	14.3	15.5	115	
Torque (ft-lb)	0.00	7.4	14.8	22.0	29.6	33.3	37.0	93.5	
RPM	1800	1794	1786	1780	1775	1,771	1765	0	
Efficiency (%)		84.0	89.5	91.0	91.0	91.0	91.0		
P.F. (%)	6.5	39.5	60.5	72.0	78.0	79.8	81.5	41.0	

Motor Speed Data

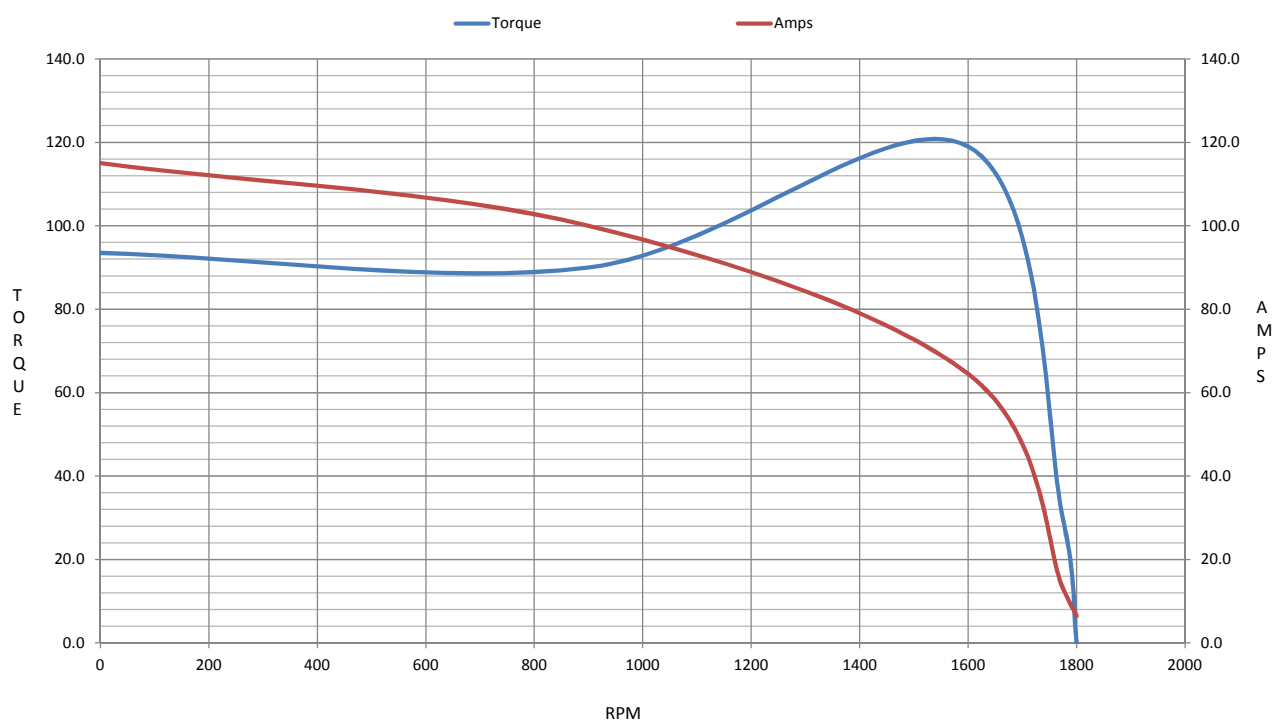
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1600	1775	1800
Current (Amps)	115	100	64.5	13.0	6.5
Torque (ft-lb)	93.5	90.0	119	29.6	0.00

Information Block

HP	10.0			
Sync. RPM	1800			
Frame	215			
Enclosure	TENV			
Construction	TTN			
Voltage	230/460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	L			
Service Factor	1.15			
Temp Rise @ FL	85 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	1.40 Lb-Ft²			
Ref Wdg	K2154321 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 2000:1			
Outline Dwg	B-SS87557-1000			
Conn. Diag	A-EE7308T			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.3950	0.3610	1.4770	2.4250	36.9200



Speed -Torque Curve



CERTIFICATION DATA SHEET

Model#: 215THTS8038 BR
CONN. DIAGRAM: A-EE7308T
OUTLINE: B-SS87557-1000

WINDING#: K2154321 NONE 1
ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10	7.50	1800	1775	215TC	TENV	L	INV

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	26/13	INVERTER ONLY	CONTINUOUS	H4	1.0	40	3300

FULL LOAD EFF: 91	3/4 LOAD EFF: 91	1/2 LOAD EFF: 89.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 78	3/4 LOAD PF: 72	1/2 LOAD PF: 60.5	89.5	SQ CAGE INV DUTY	13 / 6.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
29.6 LB-FT	230 / 115	93.5 LB-FT 316	119 LB-FT 402	95

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	1.4 LB-FT^2	- LB-FT^2	- SEC.	-	272 LBS.

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
0.39476	0.36068	1.4768	2.42536	36.92

RM	ZREF	XR	TD	TD0
1485.32	28.4	4.4	0.015	0.29

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	BRAKE OR ENCODER	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6309	6207						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

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INVERTER TORQUE: CONSTANT 2000:1 INV. HP SPEED RANGE: 2.0 X BASE SPEED	
ENCODER: PROVISIONS ONLY NONE NONE NONE NONE PPR	
BRAKE: PROVISIONS ONLY NONE NONE P/N NONE	

NONE	NONE	
NONE FT-LB	NONE V	NONE Hz

DATE: 06/22/2017 07:10:01 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.