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General Purpose Motors

Model No: 213TTDW16060
Catalog No: U430A

General Purpose Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 213T Frame, DP

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Product Information Packet: Model No: 213TTDW16060, Catalog No: U430A General Purpose Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 213T Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**7.50 & 5 Hp**
Output KW	**5.6 & 3.7 kW**	Voltage	**230/460 & 190/380 V**
Speed	**1760 & 1470 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.15 & 1.15**	Frame	**213T**
Enclosure	**Drip Proof**	Thermal Protection	**Automatic**
Efficiency	**91 & 91 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**19.2/9.6 & 16.4/8.2 A**
Power Factor	**80**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**H**	Drive End Bearing Size	**6307**
Opp Drive End Bearing Size	**6206**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**

Technical Specifications

Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**1.18 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**T**	Overall Length	**19.29 in**
Frame Length	**12.4 in**	Shaft Diameter	**1 3/8 in**
Shaft Extension	**3.47 in**	Assembly/Box Mounting	**F1/F2 Capable**

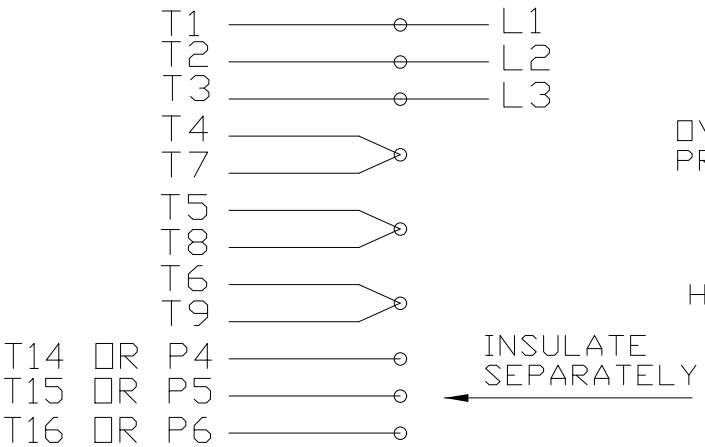
Drawings

Connection Drawing	**A-EE7335**	Outline Drawing	**A-SS86668-1240**

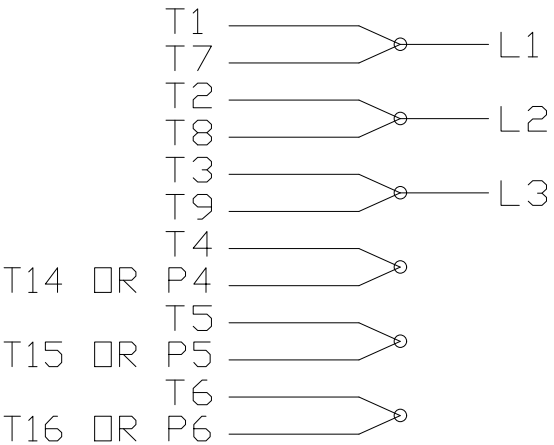
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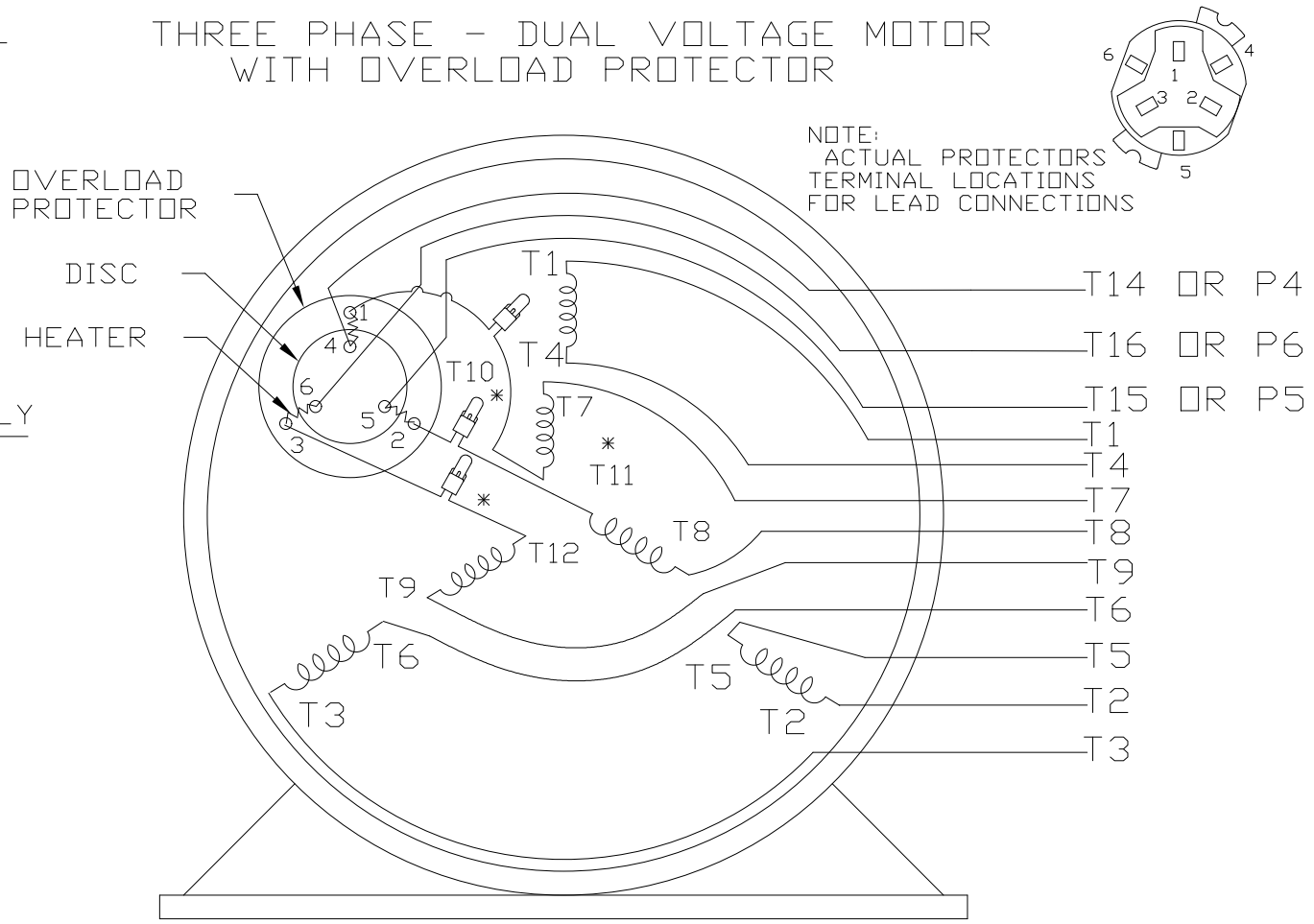
HIGH VOLTAGE CONNECTIONS



LOW VOLTAGE CONNECTIONS



THREE PHASE - DUAL VOLTAGE MOTOR WITH OVERLOAD PROTECTOR



VIEW OF TERMINAL END

* USE PRESSURE CONNECTORS FOR MT2 PLANT ONLY

T2K
T4D
T6AN

DRAWING REVISION: G	REVISION BY: SV	REV DATE/ © DATE: 08/11/2026
REQUEST NUMBER: CR-0027303	APPROVED BY: RMS	DATE: 08/11/2026

REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED

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TOLERANCES (EXCEPT AS NOTED):

DEC.	INCH	mm	ANGLE
.X	±0.1	[±3]	±0.5°
.XX	±0.01	[±0.3]	
.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: 125 INCH / 3.2 mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

DRAWN BY: KL	
DATE: 08/09/1993	
APPROVED BY: GK	
DATE: 08/10/1993	
REFERENCE	
THIRD ANGLE PROJECTION	

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DESCRIPTION: CONNECTION DIAGRAM
3Ø-DUAL VOLT WITH OVERLOAD PROTECTION

MATERIAL | PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	EE7335 3 of 5	1 OF 1

Data Sheet

Date: 6/29/2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon electric

213TTDW16060

Submittal

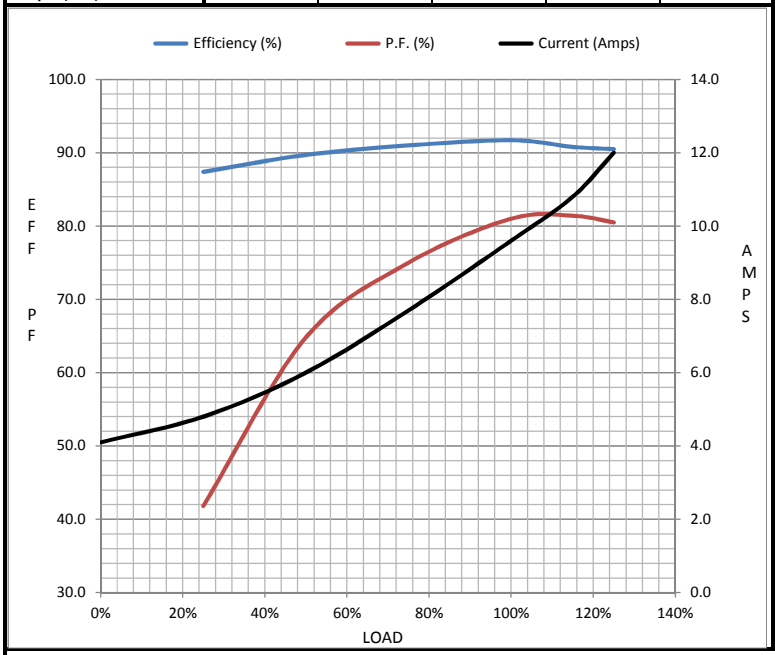
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	4.1	4.8	6.0	7.7	9.6	10.8	12.0	63.5	
Torque (ft-lb)	0.00	5.5	11.0	16.6	22.5	25.5	28.0	51.0	
RPM	1800	1790	1780	1775	1760	1,755	1752	0	
Efficiency (%)		87.4	89.7	91.0	91.7	90.8	90.5		
P.F. (%)	6.5	41.8	64.8	75.0	81.0	81.4	80.5	39.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	700	1605	1760	1800
Current (Amps)	63.5	55.0	37.5	9.6	4.1
Torque (ft-lb)	51.0	40.0	66.0	22.5	0.00



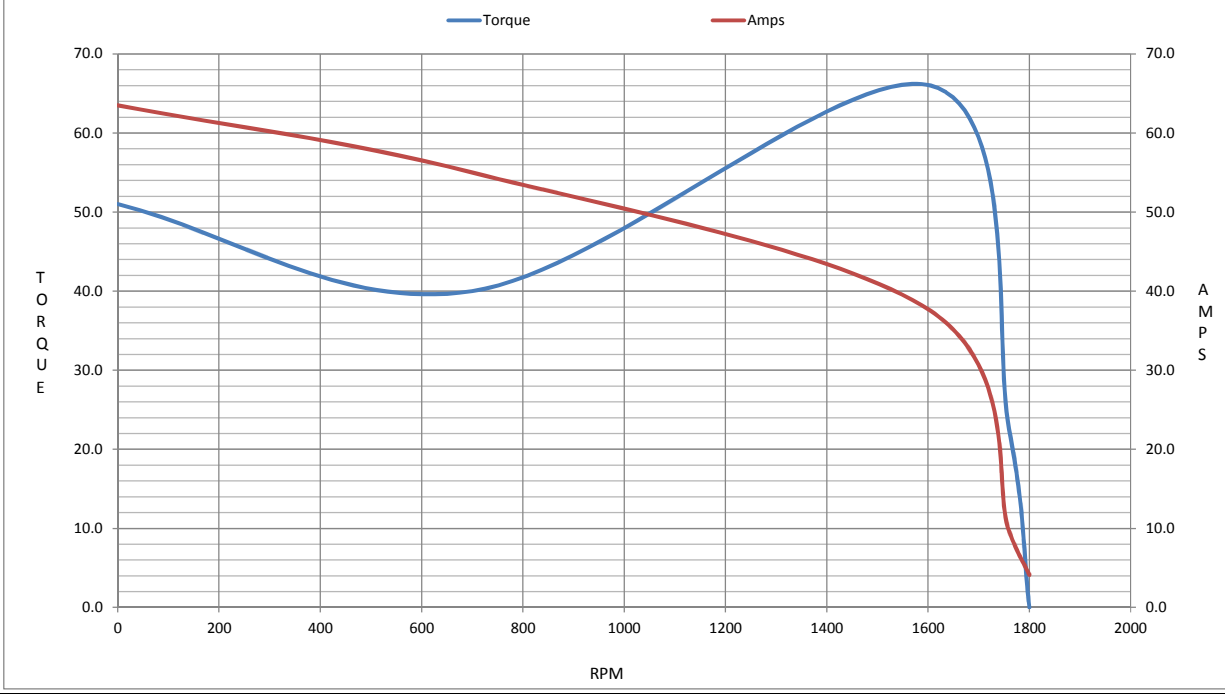
Information Block

HP	7.5
Sync. RPM	1800
Frame	213
Enclosure	DP
Construction	TDW
Voltage	230/460#190/380 V
Frequency	60 Hz
Design	B
LR Code letter	H
Service Factor	1.15
Temp Rise @ FL	22 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.85 Lb-Ft²
Ref Wdg	K2134182 NONE
Sound Pressure @ 1M	66 dBA
VFD Rating	NONE
Outline Dwg	A-SS86668-1240
Conn. Diag	A-EE7335
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.7600	0.5590	2.6080	3.6970	57.4560

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	213TTDW16060 AA	**WINDING#:**	K2134182 NONE 2
CONN. DIAGRAM:	A-EE7335	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	A-SS86668-1240		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2&5	5.60&3.70	1800	1760&1470	213T	DP	H	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/380	19.2/9.6&16.4/8.2	ACROSS THE LINE	CONTINUOUS	F4	1.15/1.15	40	3300

FULL LOAD EFF: 91&91	3/4 LOAD EFF: 91	1/2 LOAD EFF: 89.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 80&75	3/4 LOAD PF: 75	1/2 LOAD PF: 64.8	89.5	SQ CAGE IND RUN	8.2 / 4.1

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22.5 LB-FT	127 / 63.5	51 LB-FT 227	66 LB-FT 293	22

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
66 dBA	76 dBA	0.85 LB-FT^2	50 LB-FT^2	20 SEC.	2	125 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6307	BALL 6206	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	AUTOMATIC	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

* NOTES *

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FORM 3531 REV.3 02/07/99
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