

# PRODUCT INFORMATION PACKET

Model No: 213TCDW7027

Catalog No: Z409

Close-Coupled Pump Motor, 5 HP, 1 Ph, 60 Hz, 230 V, 1800 RPM, 213JM Frame, DP



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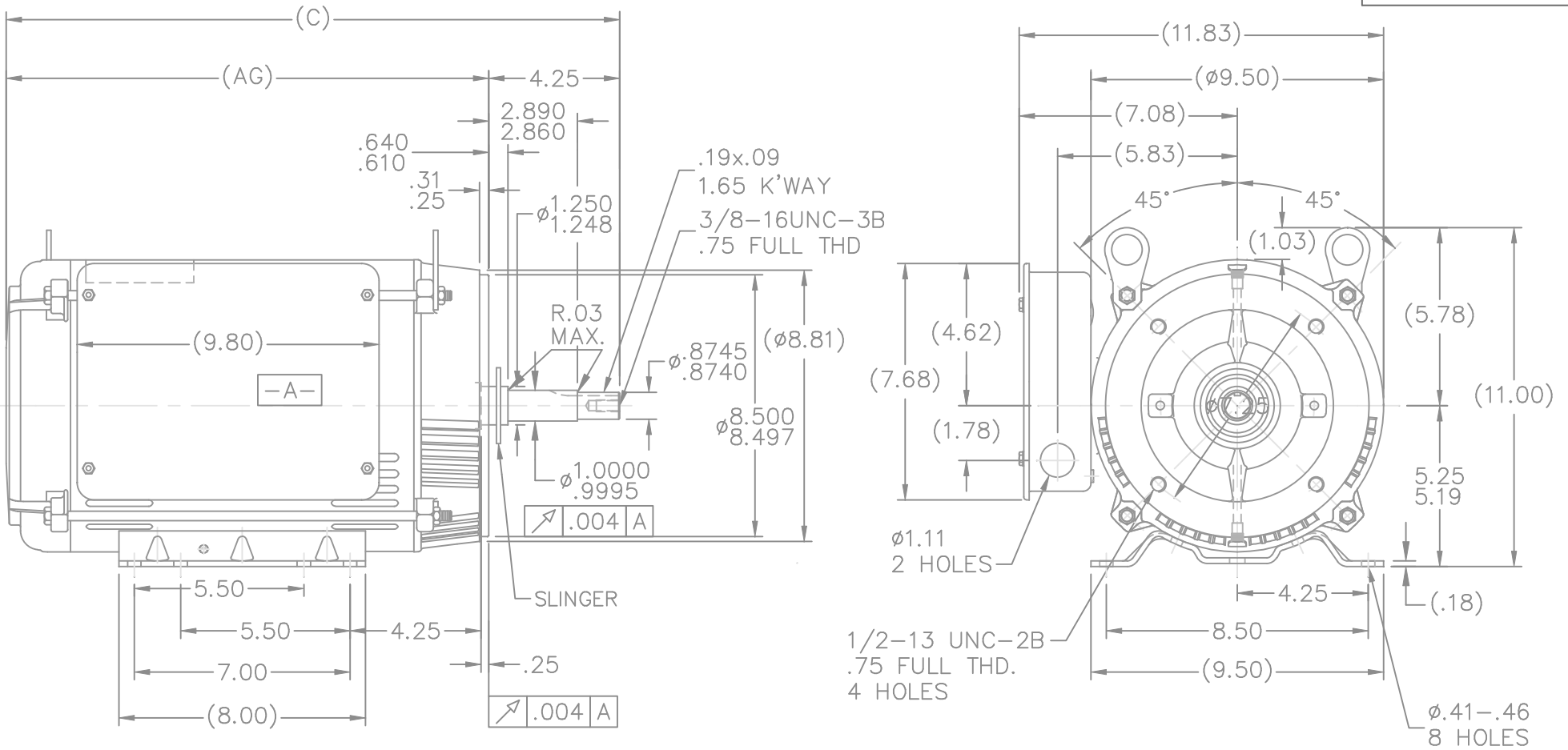


### Nameplate Specifications

Output HP	<b>5 Hp</b>	Output KW	<b>3.7 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230 V</b>
Current	<b>28.0 A</b>	Speed	<b>1730 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>1</b>
Efficiency	<b>78.5 %</b>	Power Factor	<b>73</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>L</b>	KVA Code	<b>H</b>
Frame	<b>213JM</b>	Enclosure	<b>Drip Proof</b>
Thermal Protection	<b>No Protection</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6309</b>	Opp Drive End Bearing Size	<b>6206</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>23</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Capacitor Start Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>4</b>	Rotation	<b>Selective Counterclockwise</b>
Resistance Main	<b>0 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Rolled Steel</b>
Shaft Type	<b>JM</b>	Overall Length	<b>19.92 in</b>
Frame Length	<b>11.15 in</b>	Shaft Diameter	<b>0.875 in</b>
Shaft Extension	<b>4.25 in</b>	Assembly/Box Mounting	<b>F1 ONLY</b>
Outline Drawing	<b>SS86664-1115</b>	Connection Drawing	<b>A-EE7090JL</b>

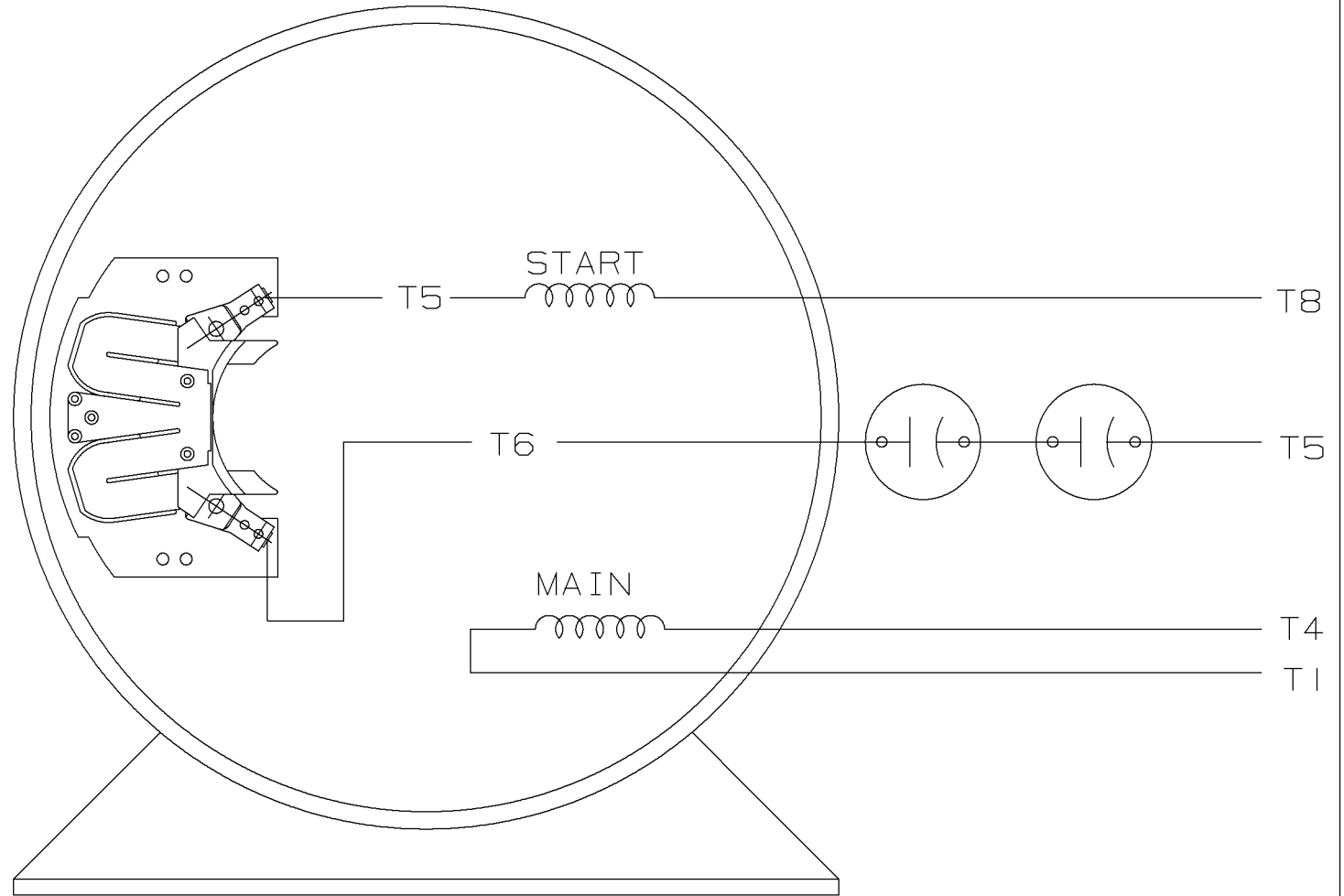
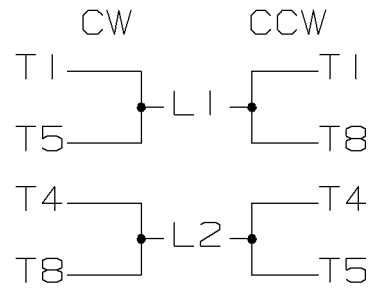


DASH	FR.	C	AG
965	213JM	18.42	14.17
1115	213/15JM	19.92	15.67
1240	213/15JM	21.17	16.92

NOTES:  
1. NAMEPLATE TO BE READ FROM C'BOX SIDE OF MOTOR.

				TOLERANCES UNLESS SPECIFIED			DRAWN MH 03-17-1997				
				DEC.	INCHES		CHK ML 03-20-1997				
6	UPDATED DRAWING	TJW	04/30/2007			TITLE OUTLINE 210JM FR.-BB-TS-DR.PR.-'C' FACE	APPD	DN 03-20-1997			
5	REDRAWN IN AUTOCAD	TAT	07-06-2004	ML	.X ±.1		SCALE	1=5			
4	REMOVED 2 ø1.38 CONDUIT BOX HOLES CN 26624	MRB	07-16-1998		.XX ±.03		REF				
3	ADDED ADDITIONAL ø1.38 HOLES TO C'BOX CN26000-304	MJD	04-19-1998		.XXX ±.005		FMF				
2	REMOVED NOTE 2 & MOUNTING	MH	07-21-1997		.XXXX ±.0005	MAT'L.	PREV				
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH					
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP	CAD FILE ss86664		SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST	LB		A	SS86664		6	

SINGLE VOLTAGE CAPACITOR START  
MOTOR, ELECTRICALLY REVERSIBLE



VIEW OF TERMINAL END

				✓ MAX. SURFACE ROUGHNESS UNLESS NOTED OTHERWISE	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX±.02 XXX±.005 XXXX±.0005 ANGLES± 7'30"		
				MATL SPEC	180 - 210 SWITCH		DRAWN BY GK 09-24-1986
				FINISH			CHKD BY ML 11-04-1986
1	11-04-1986	NEW DRAWING	CN 7664C	GK	REFERENCE DRW.	WAUSAU, WISCONSIN 54401	APPD BY FG 11-04-1986
REV	DATE	CHANGE		NAME	PART NAME CONNECTION DIAGRAM		DRWG NO A- EE7090JL

SHOP BOOK

PURCHASED

DISTRIBUTION - WA - LB - WP - LM - BR

CADD FILE NO.

EE7090JL

```
ERROR: undefined
OFFENDING COMMAND: de
```

```
STACK:
```

```
{pop pop pop pop }
/B
-dictionary-
/Pscript_WinNT_Compat
-dictionary-
```

**CERTIFICATION DATA SHEET**

**Model#:** 213TCDW7027 AC      **WINDING#:** CK10481 NONE 1  
**CONN. DIAGRAM:** A-EE7090JR      **ASSEMBLY:** F1 ONLY  
**OUTLINE:** 037643-1115

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5	3.7	1800	1730	213JM	DP	H	L

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
1	60	230	28	ACROSS THE LINE	CONTINUOUS	F4	1.15	40	3300

FULL LOAD EFF: 78.5	3/4 LOAD EFF: -	1/2 LOAD EFF: -	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 73	3/4 LOAD PF: -	1/2 LOAD PF: -	0	CAP START IND RUN	16.7

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
15.2 LB-FT	148	33.3 LB-FT -	36.9 LB-FT -	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
- dBA	- dBA	0 LB-FT^2	- LB-FT^2	- SEC.	-	0 LBS.

**\*\*\* SUPPLEMENTAL INFORMATION \*\*\***

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	JM	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL
6309	6206						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

* N O T E S *	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

DATE: 06/22/2017 03:52:31 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.



**MARATHON ELECTRIC CORPORATION**  
TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer

Curve at

230

Volts

HP 5.00

PHASE 1

Model No 213TCDW7027

60

HZ

VOLTS 230

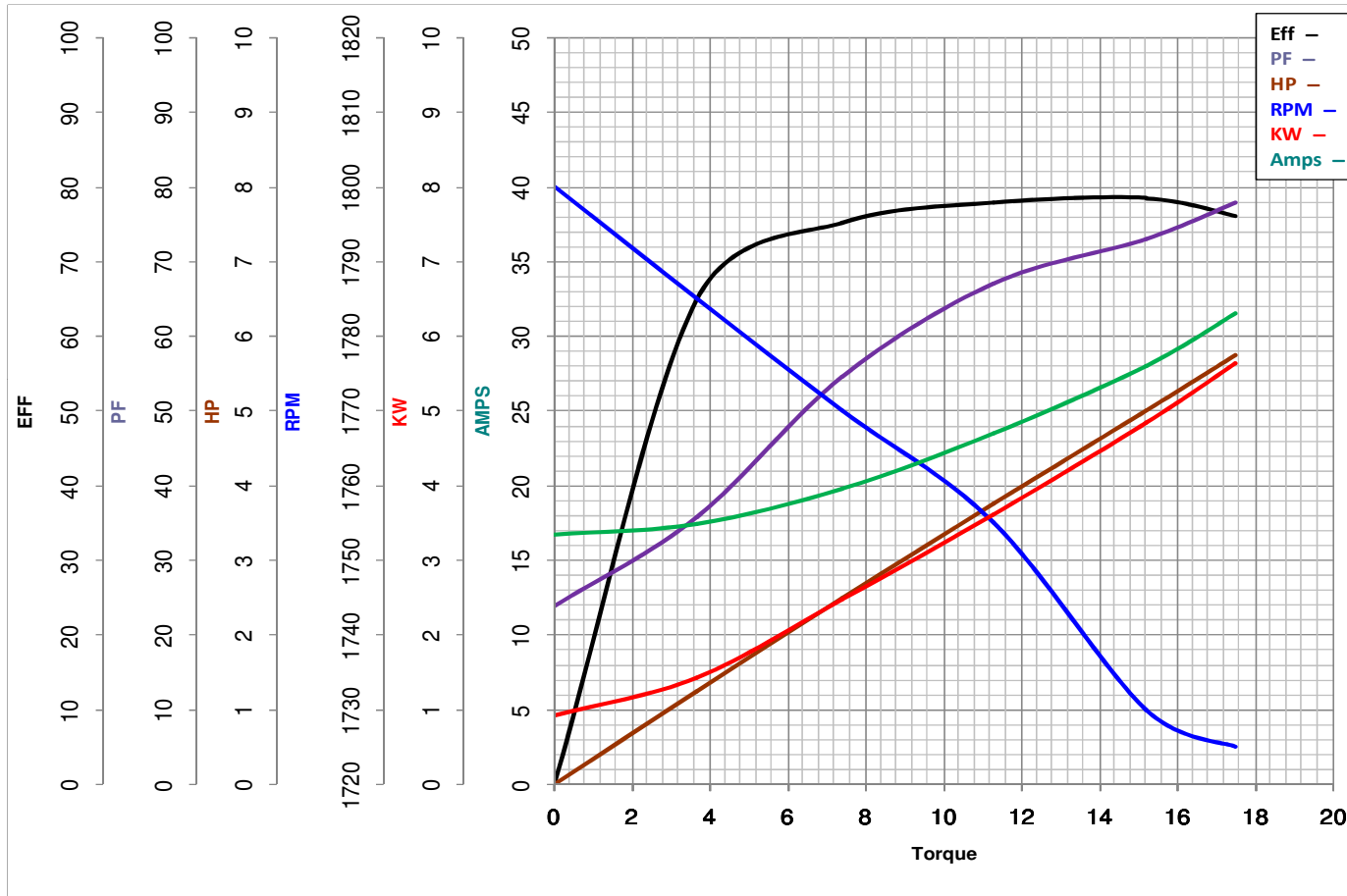
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HP

Catalog No Z409

HZ 60

RPM 1730



Torque in Lb.Ft

FL TORQUE 15.2 Lb.Ft  
BD TORQUE 36.9 Lb.Ft  
LR TORQUE 33.3 Lb.Ft

FL AMPS 28  
PU TORQUE 30.9 Lb.Ft  
LR AMPS 148

WINDING CK10481-1

Date 1/25/2019