

**BALDOR • RELIANCE**

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# Customer information packet

## CM4400T

100HP, 1775RPM, 3PH, 60HZ, 405TC, 1480M, TEFC

Class - None

Division - Not Applicable

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## Specifications

Enclosure	TEFC
Frame	405TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CCSA US
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	232.000 A @ 230.0 V 116.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	116.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG

## Part detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	INA/A
Elec. spec.	A40WG0427
Layout	611740-003-SH1
Eff. date	05-17-2022
CD Diagram	416820-002
Poles	04
Leads	3#2,6#6
Proprietary	False
Created date	10-19-2010

<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	A40054M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Power Factor</b>	85
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	C-Face
<b>Service Factor</b>	1.15
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1780 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None

**Nameplate**

**NP2498L**

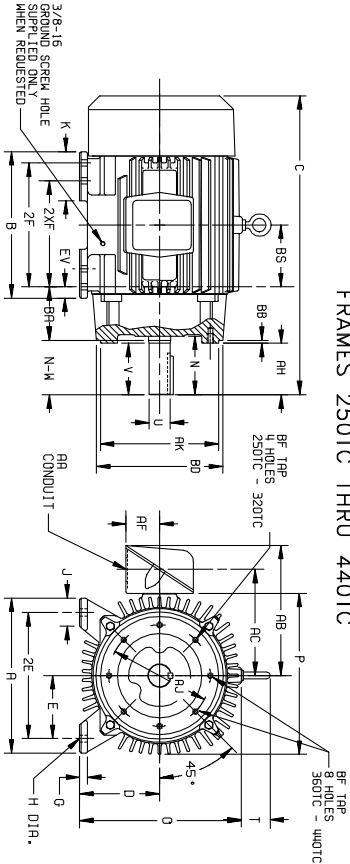
<b>CAT.NO.</b>	CM4400T	<b>SPEC NO.</b>	P40G740						
<b>HP</b>	100	<b>AMPS</b>	232/116		<b>VOLTS</b>	230/460	<b>DESIGN</b>	B	
<b>FRAME</b>	405TC	<b>RPM</b>	1780	<b>HZ</b>	60	<b>AMB</b>	40	<b>SF</b>	1.15
<b>DRIVE END BEARING</b>	80BC03J30X	<b>PHASE</b>	3	<b>DUTY</b>	CONT	<b>INSUL.CLASS</b>	F		
<b>OPP D.E. BEARING</b>	80BC03J30X	<b>TYPE</b>	P	<b>ENCL</b>	TEFC	<b>CODE</b>	G		
<b>SER.NO.</b>		<b>POWER FACTOR</b>	85.3		<b>NEMA-NOM-EFFICIENCY</b>	94.5			
	FOR EXPORT ONLY	<b>MAX CORR KVAR</b>	22.0		<b>GUARANTEED EFFICIENCY</b>	94.1			
		<b>NEMA NOM/CSA QUOTED EFF</b>							
		<b>MOTOR WEIGHT</b>							







**DUTY MASTER ALTERNATING CURRENT MOTORS**  
 ENCLOSURE: TOTALLY ENCLOSED SQUIRREL-CAGE INDUCTION COOLING: FAN COOLED  
 MOUNTING: FOOT, NEMA "C" FACE FRAMES 250TC THRU 440TC



DIMENSIONS ARE IN INCHES. SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS

FRAME	A	D(2)	E	G	H	J	K	EV	O	P	T	STEEL TERMINAL BOX				BF	MINI TAP DEPTH	AJ	AK			
												AA	AB	AC	AF							
254TC-250TC	12.50	6.25	5.00	.75	.56	2.50	---	1.00	13.25	5.44	1-1/4	10.75	8.75	2.50	4.75	2.50	9.00	1/2-13	.75	9.00	10.500	
294TC-280TC	13.75	7.00	5.50	.75	.56	2.50	---	1.00	14.75	14.88	2.44	1-1/2	12.75	10.00	3.19	4.75	2.50	11.25	1/2-13	.75	9.00	10.500
324TC-320TC	15.50	8.00	6.25	.88	.69	2.75	4.50	1.38	16.69	17.00	2.44	2	13.19	11.44	4.25	5.25	2.50	3.12	5/8-11	.94	11.00	12.500
364TC-360TC	17.00	9.00	7.00	.88	.69	2.75	3.88	1.38	18.50	19.50	2.94	3	18.06	14.00	5.38	5.88	2.50	3.00	5/8-11	.94	11.00	12.500
404TC-400TC	19.00	10.00	8.00	1.12	.81	3.25	4.62	1.13	21.31	22.50	2.94	3	19.31	15.25	5.38	6.62	2.50	3.12	5/8-11	.94	11.00	12.500
444TC-440TC	21.00	11.00	9.00	1.12	.81	3.25	5.25	1.25	23.38	25.25	3.25	3	23.38	18.12	6.50	7.50	2.50	3.12	5/8-11	.94	14.00	16.000

FRAME	SIZE	C	BS	B	ZF	N	AH	SHAFT AND KEY		WEIGHT (LBS.)			
								V	U(3)				
254TC	25.06	5.00	12.00	---	8.25	4.06	3.75	4.00	1.625	3.75	2.88	3.75	
294TC	27.44	5.50	12.00	10.00	---	4.06	3.75	4.00	1.625	3.75	2.88	3.75	
324TC	27.44	6.50	13.00	---	9.50	5.00	4.38	4.62	1.875	4.38	5.00	3.25	4.45
364TC	26.06	6.50	13.00	---	9.50	3.62	3.00	2.25	1.625	3.00	3.75	1.88	4.45
404TC	27.44	6.50	13.00	---	9.50	3.62	3.38	4.62	1.875	4.38	5.00	3.25	4.60
444TC	26.06	6.50	13.00	---	9.50	3.62	3.00	2.25	1.625	3.00	3.75	1.88	4.60
250TC	26.06	6.50	13.00	---	9.50	3.62	3.00	2.25	1.625	3.00	3.75	1.88	4.60
290TC	26.06	6.50	13.00	---	9.50	3.62	3.00	2.25	1.625	3.00	3.75	1.88	4.60
320TC	26.06	6.50	13.00	---	9.50	3.62	3.00	2.25	1.625	3.00	3.75	1.88	4.60
360TC	26.06	6.50	13.00	---	9.50	3.62	3.00	2.25	1.625	3.00	3.75	1.88	4.60
400TC	26.06	6.50	13.00	---	9.50	3.62	3.00	2.25	1.625	3.00	3.75	1.88	4.60
440TC	26.06	6.50	13.00	---	9.50	3.62	3.00	2.25	1.625	3.00	3.75	1.88	4.60
250TC	30.44	6.00	14.75	---	10.50	4.62	3.50	4.75	2.125	3.50	5.00	3.88	5.95
290TC	30.44	6.00	14.75	---	10.50	4.62	3.50	4.75	2.125	3.50	5.00	3.88	5.95
320TC	30.44	6.00	14.75	---	10.50	4.62	3.50	4.75	2.125	3.50	5.00	3.88	5.95
360TC	30.44	6.00	14.75	---	10.50	4.62	3.50	4.75	2.125	3.50	5.00	3.88	5.95
400TC	30.44	6.00	14.75	---	10.50	4.62	3.50	4.75	2.125	3.50	5.00	3.88	5.95
440TC	30.44	6.00	14.75	---	10.50	4.62	3.50	4.75	2.125	3.50	5.00	3.88	5.95
445TC	40.88	8.25	19.00	---	14.50	5.19	4.50	4.75	2.375	4.50	6.25	3.00	17.82
445TC	40.88	8.25	19.00	---	14.50	5.19	4.50	4.75	2.375	4.50	6.25	3.00	17.82

- (1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE. CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2-W-1, W-4-W-5-W-7, OR C-1 MOUNTING IS SPECIFIED.
- (2) "D" VARIES [250TC - 320TC +.00, -.03] [360TC - 440TC +.00, -.06]. IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
- (3) "U" VARIES [6.25 AND LARGER +.000, -.001]. MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STD. SHAFT EXTENSION IS .002 T.I.R. UP TO AND INCLUDING 1.625 DIA. AND .003 T.I.R. 1.625 DIA. TO 5 INCH DIA.
- (4) ALL FRAMES HAVE EIGHT MOUNTING HOLES FOR DUAL MOUNTING. FACE RUNOUT AND [250TC - 280TC INCL. .004 MAX. T.I.R. ECCENTRICITY] [320TC - 440TC INCL. .007 MAX. T.I.R.]
- (5) MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING. FACE RUNOUT AND [250TC - 280TC INCL. .004 MAX. T.I.R. ECCENTRICITY] [320TC - 440TC INCL. .007 MAX. T.I.R.]
- (6) "K" VARIES [250TC - 280TC +.000, -.003] [320TC - 440TC +.000, -.005]
- (7) "N-W" VARIES +.00, -.25

FRAME: \_\_\_\_\_ TYPE: \_\_\_\_\_ CERTIFIED FOR: \_\_\_\_\_  
 ORDER: \_\_\_\_\_ ITEM: \_\_\_\_\_ HP: \_\_\_\_\_ RPM: \_\_\_\_\_ PH: \_\_\_\_\_ HZ: \_\_\_\_\_ VOLTS: \_\_\_\_\_  
 RELIANCE SALES ORDER: \_\_\_\_\_ APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

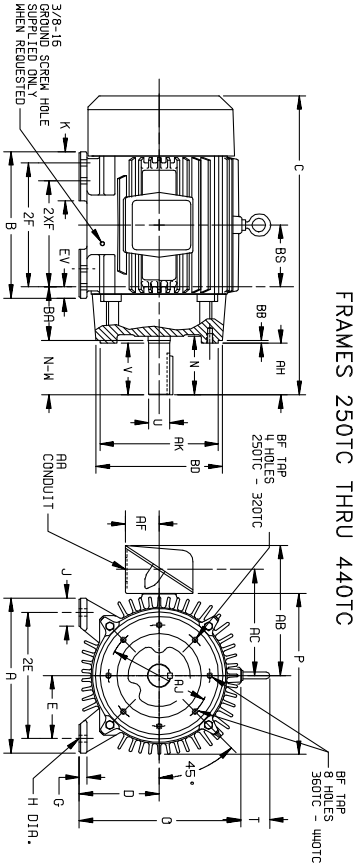
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DIM SHEET 250TC THRU 440TC



**DUTY MASTER ALTERNATING CURRENT MOTORS**  
 SQUIRREL-CAGE INDUCTION  
 ENCLOSURE: TOTALLY ENCLOSED  
 MOUNTING: FOOT, NEMA "C" FACE  
 COOLING: FAN COOLED  
 FRAMES 250TC THRU 440TC



DIMENSIONS ARE IN MILLIMETERS- SEE SHEET 1 FOR DIMENSIONS IN INCHES

FRAME	A	D(2)	E	G	H	J	K	EV	O	P	T	AA(B)	AB	AC	AF	BA	BB	BD	BF(8)	BN	MA	AK	
254TC-256TC	317.5	158.8	127.0	19.0	14.2	63.5	---	25.4	336.5	336.5	62.0	-1/4	27.3	222.3	6.3	5.0	120.7	6.4	228.6	172.1	131.9	184.1	215.90
284TC-286TC	349.2	177.8	139.7	19.0	14.2	63.5	---	25.4	374.6	378.0	62.0	-1/4	33.3	254.0	8.1	0	120.7	6.4	286.7	172.1	131.9	190.8	266.70
324TC-326TSC	393.7	203.3	158.8	22.4	17.5	69.9	114.3	35.1	423.9	431.8	62.0	0	35.8	290.6	10.8	0	133.3	6.4	333.2	172.1	131.9	229.4	317.50
364TC-366TSC	431.8	228.6	177.8	22.4	17.5	69.9	114.3	35.1	469.9	495.3	74.7	3	458.7	355.6	136.7	149.4	6.4	330.2	172.1	131.9	279.4	317.50	
404TC-406TSC	482.6	254.0	203.2	28.4	20.6	82.5	117.3	28.7	541.3	571.5	74.7	3	490.5	387.3	136.7	168.1	6.4	333.2	172.1	131.9	279.4	317.50	
444TC-446TSC	533.4	279.4	228.6	28.4	20.6	82.5	117.3	28.7	593.9	641.3	82.5	3	533.9	460.2	165.1	190.5	6.4	425.4	172.1	131.9	355.6	406.40	

FRAME	SIZE	C	BS	B	ZF	N	AH	SHAFT AND KEY					WEIGHT (5)
								N-(W7)	U(3)	V	SO	LGTH	
254TC	636.5	127.0	304.8	---	209.6	103.1	95.3	101.6	41.27	95.3	9.52	73.2	142
256TC	636.5	127.0	304.8	254.0	---	103.1	95.3	101.6	41.27	95.3	9.52	73.2	147
284TC	697.0	139.7	330.2	---	241.3	127.0	111.3	117.3	47.63	111.3	12.70	82.5	201
286TSC	661.9	139.7	330.2	---	241.3	91.9	76.2	82.5	41.27	76.2	9.52	47.8	208
286TSC	661.9	139.7	330.2	279.4	---	127.0	111.3	117.3	47.63	111.3	12.70	82.5	208
286TSC	661.9	139.7	330.2	279.4	---	91.9	76.2	82.5	41.27	76.2	9.52	47.8	208
324TC	773.2	152.4	374.6	---	266.7	142.7	127.0	133.3	53.97	127.0	12.70	96.6	251
324TSC	735.1	152.4	374.6	---	266.7	104.6	88.9	95.3	47.63	88.9	12.70	50.8	251
328TC	773.2	152.4	374.6	304.8	---	142.7	127.0	133.3	53.97	127.0	12.70	96.6	269
328TSC	735.1	152.4	374.6	304.8	---	104.6	88.9	95.3	47.63	88.9	12.70	50.8	269
364TC	849.4	152.4	381.0	---	285.7	158.8	142.7	149.4	60.33	142.7	15.88	106.0	369
364TSC	809.3	152.4	381.0	---	285.7	104.6	88.9	95.3	47.63	88.9	12.70	50.8	369
368TC	849.4	152.4	381.0	311.1	---	158.8	142.7	149.4	60.33	142.7	15.88	106.0	387
368TSC	809.3	152.4	381.0	311.1	---	104.6	88.9	95.3	47.63	88.9	12.70	50.8	387
404TSC	973.1	174.8	406.4	---	311.1	184.3	168.1	184.3	73.09	159.8	12.70	142.7	528
404TSC	849.4	152.4	381.0	---	311.1	142.7	127.0	133.3	53.97	127.0	12.70	96.6	528
405TSC	973.1	174.8	406.4	349.2	---	190.5	177.8	184.1	73.09	177.8	19.05	142.7	546
405TSC	849.4	152.4	381.0	---	311.1	142.7	127.0	133.3	53.97	127.0	12.70	96.6	546
444TC	1133.3	209.6	482.6	---	368.3	227.1	209.6	215.9	85.72	209.6	22.27	174.8	729
444TSC	1038.4	209.6	482.6	---	368.3	131.8	114.3	120.7	60.33	114.3	15.88	76.2	722
445TC	1133.3	209.6	482.6	419.1	---	227.1	209.6	215.9	85.72	209.6	22.27	174.8	818
445TSC	1038.4	209.6	482.6	419.1	---	131.8	114.3	120.7	60.33	114.3	15.88	76.2	818

- (1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE. CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2-W-1, W-4-W-5-W-7, OR C-1 MOUNTING IS SPECIFIED.
  - (2) "D" VARIES -250TC - 320TC +0, -8  
-360TC - 440TC +0, -15
  - (3) "U" VARIES -41.27 AND LARGER +0.0, -0.3  
HP TO 41.27 DIA. +0.00, -0.13
  - (4) ALL FRAMES HAVE EIGHT MOUNTING HOLES FOR DUAL MOUNTING. MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STD. SHAFT EXTENSION IS .05 T.I.R. UP TO AND INCLUDING 41.27 DIA. AND .08 T.I.R. UP TO 127.00 MILL DIA.
  - (5) MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING. FACE RUNOUT AND -250TC - 280TC INCL. 10 MAX. T.I.R. -320TC - 440TC INCL. 18 MAX. T.I.R.
  - (6) "AK" VARIES -250TC - 280TC +00, -08
  - (7) "N-W" VARIES +0, -6.4
  - (8) DIMENSIONS ARE IN INCHES.
- FRAME \_\_\_\_\_ TYPE \_\_\_\_\_ CERTIFIED FOR \_\_\_\_\_ RPM \_\_\_\_\_ APPROVED BY \_\_\_\_\_ PH \_\_\_\_\_ HZ \_\_\_\_\_ DATE \_\_\_\_\_ VOLTS \_\_\_\_\_  
 ORDER \_\_\_\_\_ ITEM \_\_\_\_\_ HP \_\_\_\_\_

SHS-003-04/119

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

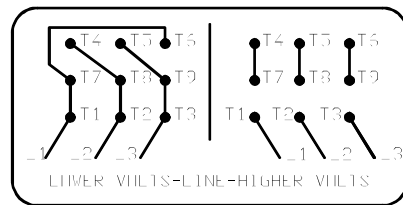
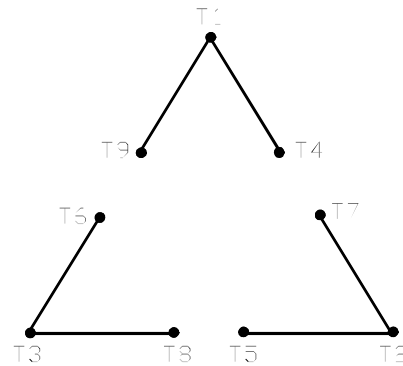
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DIM SHEET 250TC THRU 440TC

416820-002

A-C MOTOR  
 CONNECTION DIAGRAM  
 STANDARD 9 LEAD DELTA-CONNECTED



(N.P. 1575-B)

416820-002

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**BALDOR - RELIANCE®**

CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

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