

PRODUCT INFORMATION PACKET



Model No: 171597.00

Catalog No: 171597.00

General Purpose Motor, 100 & 75 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 1800 & 1500 RPM,
405TC Frame, TEFC



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Nameplate Specifications

Phase	3	Output HP	100 & 75 Hp
Output KW	75.0 & 56.0 kW	Voltage	208-230/460 & 190/380 V
Speed	1785 & 1485 rpm	Service Factor	1.15 & 1.15
Frame	405TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	254-225/112.5 & 201/100.5 A	Power Factor	87.1
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6314
UL	Recognized	CSA	N
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.045 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	37.91 in
Shaft Diameter	2.875 in	Shaft Extension	7.25 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Connection Drawing	004172.01	Outline Drawing	SS622048LE

Technical drawing of a motor assembly, showing side and end views with dimensions.

Side View Dimensions:

- Overall width: (C)
- Overall length: (AG)
- Distance from centerline to mounting flange: 7.00
- Mounting flange thickness: .25 / .29
- Key: .75x.75 KEY
- Shaft diameter: $\phi 12.500$ / 12.495
- Keyway depth: 2.875 / 2.874
- Surface finish: $\sqrt{.007}$ A
- Distance from centerline to mounting flange: 6.62
- Distance from centerline to mounting flange: 2XF
- Distance from centerline to mounting flange: 2F

End View Dimensions:

- Overall diameter: (27.17)
- Inner diameter: ($\phi 19.70$)
- Distance from centerline to mounting flange: (17.32)
- Mounting flange thickness: 3.00
- Lead hole: LEAD HOLE
- Mounting flange diameter: $\phi 11.00$
- Distance from centerline to mounting flange: 10.00 / 9.94
- Distance from centerline to mounting flange: 8.00
- Distance from centerline to mounting flange: 16.00
- Distance from centerline to mounting flange: (19.00)
- Mounting flange diameter: $\phi .84$ HOLES
- Mounting flange diameter: 5/8-11UNC-2B 8 HOLES

Other Dimensions:

- Distance from centerline to mounting flange: (22.80)
- Distance from centerline to mounting flange: 45°
- Distance from centerline to mounting flange: 45°

										TOLERANCES UNLESS SPECIFIED	ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN MSG 08-11-2005			
										DEC.	INCHES		CHK ML 08-12-2005			
										.X	±.1		APPD LMC 08-23-2005			
										.XX	±.03	TITLE OUTLINE	SCALE 3=64			
										.XXX	±.005	400TC FR. - C'FACE	REF			
										.XXXX	±.0005	MAT'L	FIMF			
										NO.	REVISION	BY & DATE	PREV 250015560/90			
										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						
										CHK	ANG ±7°30"	FINISH	PAGE OF			
										RFP	CAD FILE ss622048le	SIZE B	REV.			
										DIST WA		B SS622048LE				
DASH	FRAME	C	AG	B	2F	2XF	K	BS								

WYE - DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.

LOW VOLTAGE CONNECTION

HIGH VOLTAGE CONNECTION



REFER TO THE WYE-DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

PART WINDING START USABLE ON 4 & 6 POLE MOTORS
LOW VOLTAGE CONNECTION ONLY

REFER TO THE PART WINDING STARTER INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

REFER TO THE CUTLER - HAMMER OR EQUIV. FOR PROPER SELECTION OF OVERLOAD HEATER COILS.

LINE LEADS



ROTATION CAN BE REVERSED BY INTERCHANGING ANY TWO LINE LEADS
 ● RED LEADS OR P1, P2, FOR N/C THERMOSTAT

ACROSS THE LINE START & RUN

	LINE 1	LINE 2	LINE 3	JOIN & INSULATE SEPARATELY
HIGH VOLT	T1,T12	T2,T10	T3,T11	(T4,T7) (T5,T8) (T6,T9)
LOW VOLT	T1,T6 T7,T12	T2,T4 T8,T10	T3,T5 T9,T11	

TOLERANCES
UNLESS SPECIFIED

DEC. INCHES

.X ±.1

.XX ±.01

.XXX ±.005

.XXXX ±.0005

ANG ±1/2"



ELECTRIC MOTORS
GEARMOTORS
AND DRIVES

DRAWN WLW 09/08/77

CHK RPB 09/12/77

APPD JCW 09/12/77

SCALE 1=1

REF

FMF

PREV

03 REV'D LOW VOLTAGE CONN. LEADS PER ELEC.

BJB 06/07/00

02 ADDED T-STAT. NOTES PER ELECTRICAL

KMM 06/02/98

01 REDRAWN TO CAD

DBT 06/02/97

NO. REVISION

BY & DATE

CHK

ANG

TITLE DELTA - WYE CONNECTION DIAGRAM

MAT'L.

FINISH

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RFP

DIST

CAD FILE 00417201

SIZE

A

DRAWING NO.

004172-01

REV.

03