

PRODUCT INFORMATION PACKET



Model No: LM24743

Catalog No: LM24743

0.50 HP General Purpose Motor, 1 phase, 3600 RPM, 115/208-230 V, 56 Frame, TEFC
General Purpose Motors



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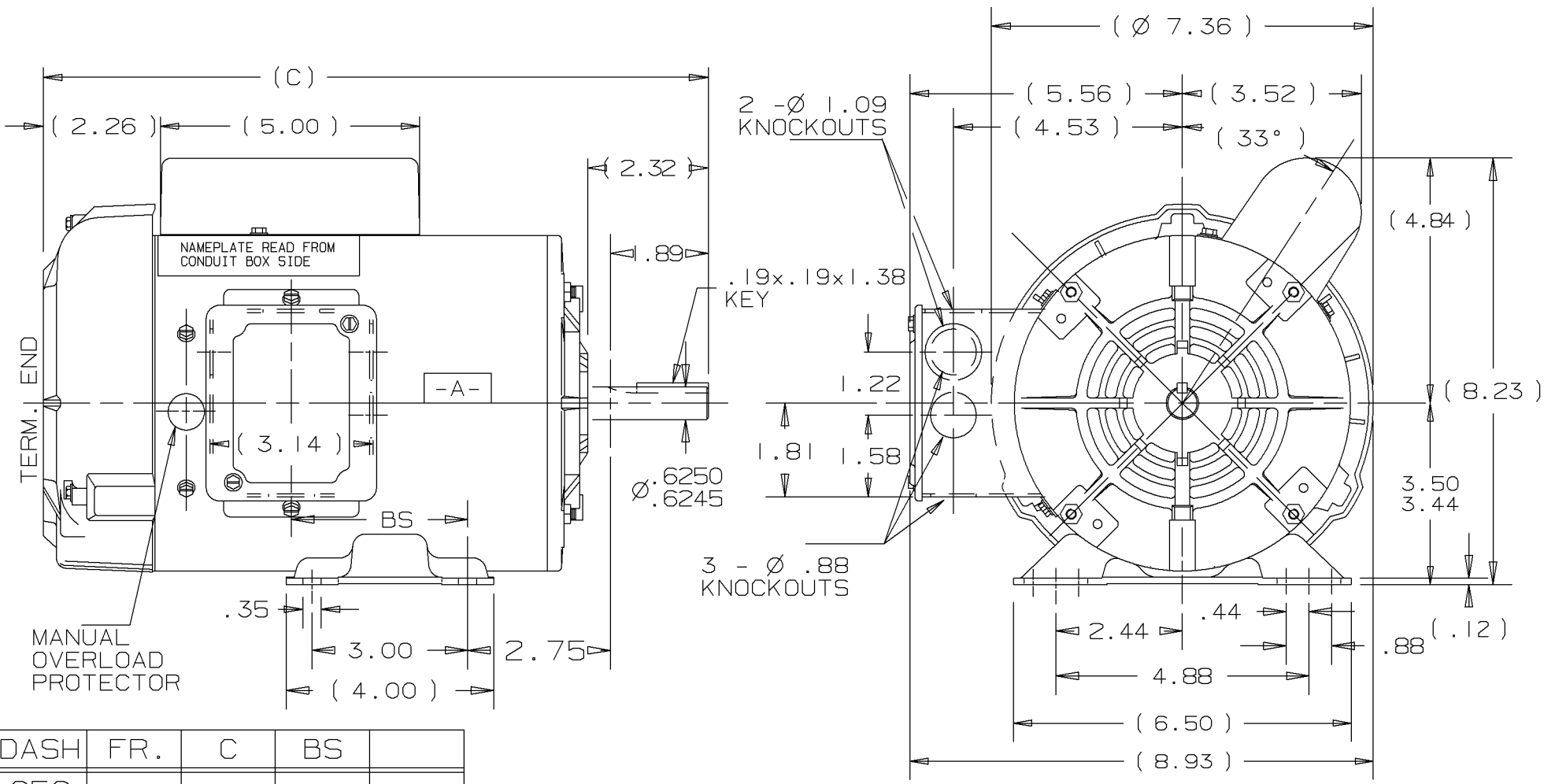


Nameplate Specifications

Output HP	0.50 Hp	Output KW	0.37 kW
Frequency	60 Hz	Voltage	115/208-230 V
Current	8.4/4.0-4.2 A	Speed	3450 rpm
Service Factor	1.15	Phase	1
Efficiency	59.5 %	Power Factor	70
Duty	Continuous	Insulation Class	B
Design Code	N	KVA Code	N
Frame	56	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	Manual	Ambient Temperature	40 °C
Drive End Bearing Size	203	Opp Drive End Bearing Size	203
UL	Recognized	CSA	Y
CE	N	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Capacitor Start Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Selective Clockwise
Resistance Main	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 56	Overall Length	11.82 in
Frame Length	6.56 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	102005-52-LN	Outline Drawing	100112LN-656

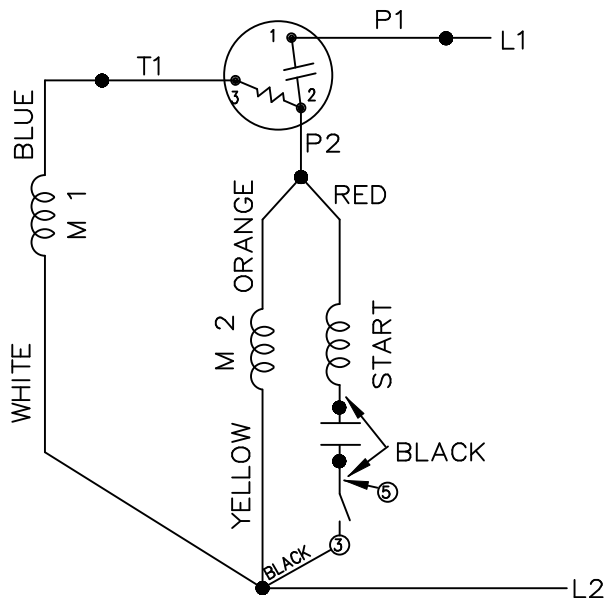


DASH	FR.	C	BS
656	56-65	11.82	2.40
706	56-70	12.32	2.90
756	56-75	12.82	3.40

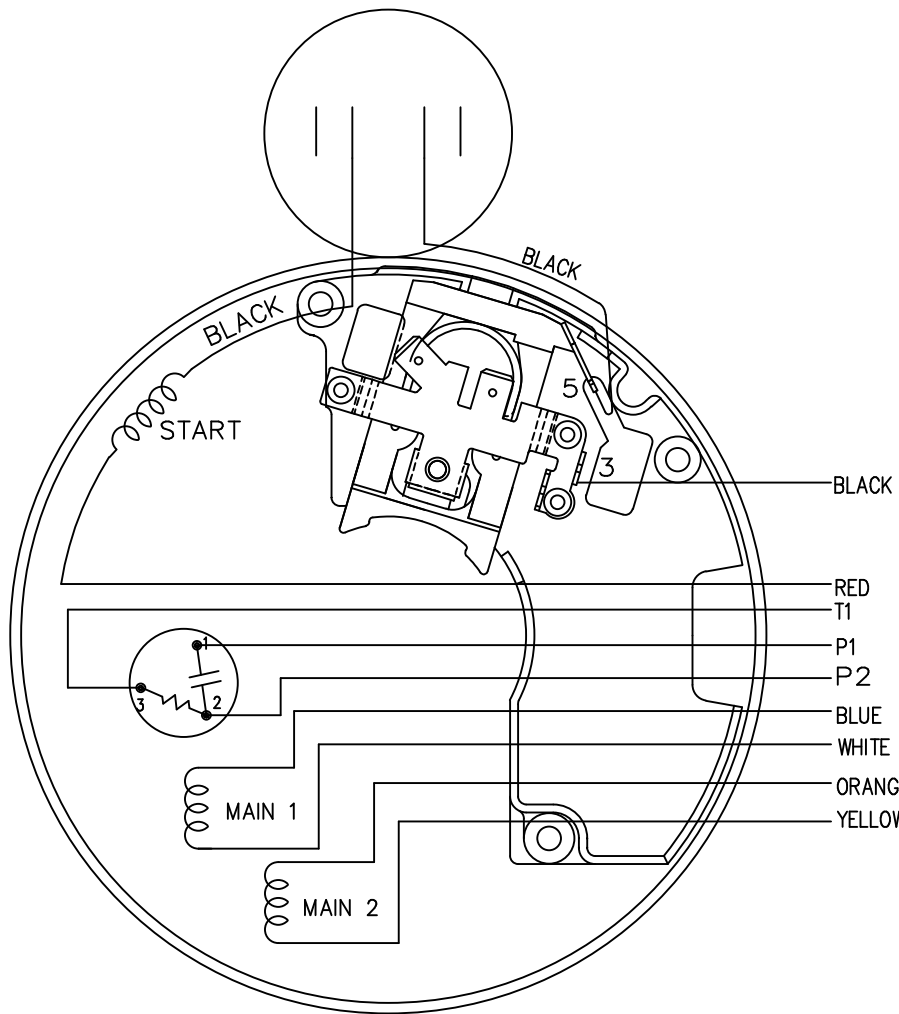
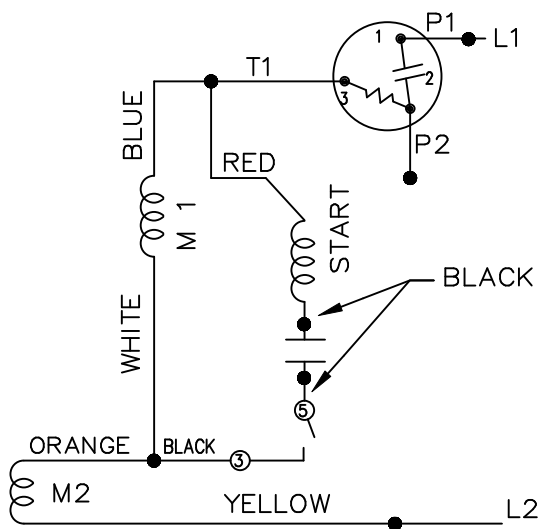
						UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX±.02 XXX±.005 XXXX±.0005 ANGLES± 7'30"			
						MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED	DRAWN BY TJB 10-20-1999		
				FINISH	CHKD BY ML 10-20-1999				
				MATERIAL	APPD BY GK 10-20-1999				
REV	DATE	CHANGE	NAME	PART NAME OUTLINE 56 FR. - TEFC - 1Ø - MANUAL PROTECTOR				DRWG NO A-100112LN	

PURCHASED CADD FILE NO. 100112LN

LOW VOLTAGE - CCW

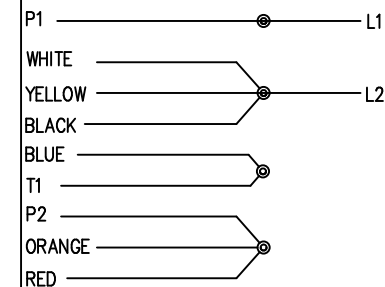


HIGH VOLTAGE - CCW

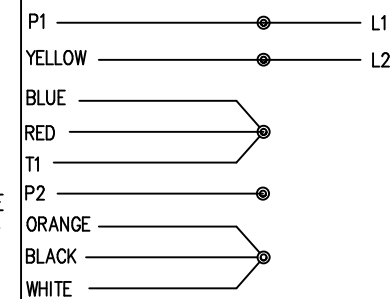


DUAL VOLTAGE
CAPACITOR START
OVERLOAD
SELECT ROTATION

LOW VOLT. CCW ROT.



HIGH VOLT. CCW ROT.



FOR CW ROTATION
EITHER VOLTAGE
INTERCHANGE RED
WITH BLACK

TOLERANCES
UNLESS SPECIFIED

DEC. INCHES

.X ±.1

.XX ±.02

.XXX ±.005

.XXXX ±.0005

ANG ±7'30"



TITLE CONNECTION DIAGRAM

DRAWN TAT 9-8-2003

CHK ML 9-8-2003

APPD GK 9-8-2003

SCALE 5=8

REF

FMF

PREV

1 NEW DRAWING

TAT 9-8-2003

ML

.XXXX ±.0005

MAT'L.

NO. REVISION

BY & DATE

CHK

ANG ±7'30"

FINISH

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RFP

CAD FILE 102005-52-ln

SIZE

DRAWING NO. PAGE OF

REV.

DIST WP

A

102005-52-LN

1



CERTIFICATION DATA SHEET

2100 WASHINGTON ST.
GRAFTON, WI
PH. 262-277-8810

CONN. DIAGRAM: A-102005-52-LN

CATALOG #: LM24743

OUTLINE: A-100112LN-656

WINDING #: ZC280 3

MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1/2	0.37	3600	3450	56	TEFC	N	N

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	60	115/208-230	8.4/4-4.2	ACROSS THE LINE	CONTINUOUS	B3	1.15	40

FULL LOAD EFF:	59.5	3/4 LOAD EFF:	48.9	1/2 LOAD EFF:	42.9	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	70	3/4 LOAD PF:	65.7	1/2 LOAD PF:	54.3	55		CAP START IND RUN	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
12 OZ-FT	49 / 24.5	45 OZ-FT 0 %	35.5 OZ-FT 0 %	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0 LB-FT^2	0 LB-FT^2	0 SEC.	0	23 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	GRAY (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	STANDARD 56	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
203	203						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	MANUAL	NONE	NONE	NONE	FALSE	NONE VOLTS

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N
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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



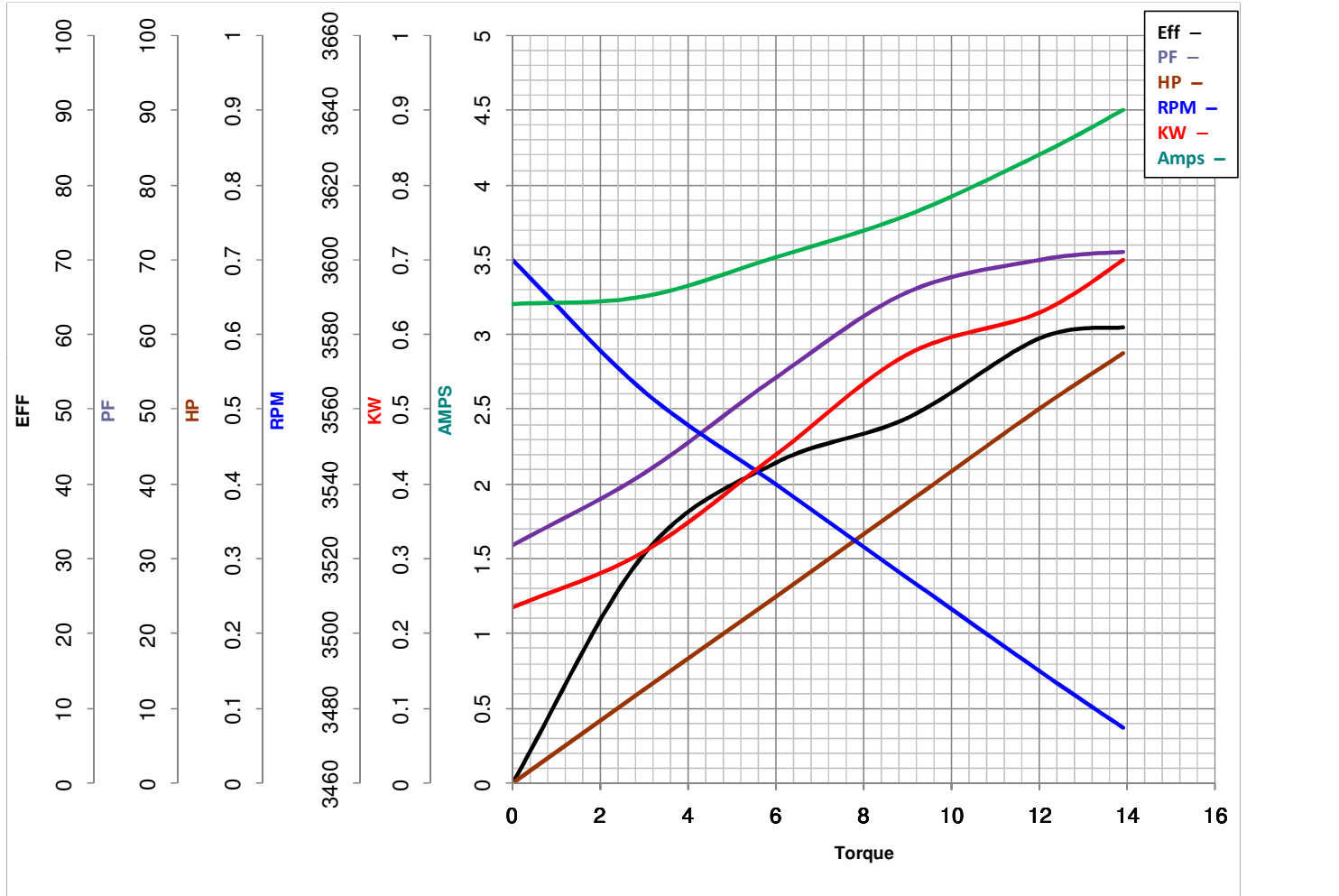
LEESON ELECTRIC CORPORATION
 TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No LM24743

Curve at 230 Volts HP 0.50 PHASE 1
60 HZ
0.5 HP VOLTS 115/208-230

Catalog No LM24743E

HZ 60 RPM 3450



Torque in Oz.Ft

FL TORQUE 12 Oz.Ft
 BD TORQUE 35.5 Oz.Ft
 LR TORQUE 45 Oz.Ft

FL AMPS 8.4/4-4.2
 PU TORQUE 32.0 Oz.Ft
 LR AMPS 24.5

WINDING ZC280-3

Date 4/16/2018