

BALDOR® • RELIANCE 

Product Information Packet

EM2538T-CI

40HP,3540RPM,3PH,60HZ,286TS,1046M,OPEN,F

Part Detail							
Revision:	M	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	10WGY796	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	10E652	Layout:	10LYE652	Poles:	02	Created Date:	05-14-2012
Base:	RG	Eff. Date:	12-19-2017	Leads:	9#8		

Specs			
Catalog Number:	EM2538T-CI	Heater Indicator:	No Heater
Enclosure:	OPEN	Insulation Class:	F
Frame:	286TS	Inverter Code:	Inverter Ready
Frame Material:	Iron	KVA Code:	F
Output @ Frequency:	40.000 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 8 AWG
	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
XP Class and Group:	None	Motor Lead Termination:	Flying Leads
XP Division:	Not Applicable	Motor Type:	1046M
Agency Approvals:	UR	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	88
	CSA	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End

Current @ Voltage:	100.000 A @ 208.0 V	Shaft Ground Indicator:	No Shaft Grounding
	46.000 A @ 460.0 V	Shaft Rotation:	Reversible
	92.000 A @ 230.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	B	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	NONE (OLD)
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP3554LUA											
CAT.NO.	EM2538T-CI			P/N				ENCL	OPEN		
SPEC.	10E652Y796G2		CC	010A		FRAME	286TS		SER.NO.		
HP	40		CLASS	F		HZ	60				
RPM	3515		PH	3		DES	B				
VOLTS	230/460			CODE	F		ODE BRG	6309		DE BRG	6310
AMPS	92/46			USABLE AT 208V	100						
RATING	40C AMB-CONT			NEMA-NOM-EFF	92.4		GREASE	POLYREX EM			
PF	88		SER.F.	1.15		VPWM INVERTER READY					
USABLE AT	50Hz 40Hp 190/380V 112/56A				SF	1.0					
HTR-VOLTS			HTR-AMPS			MAX. SPACE HEATER TEMP.					

Parts List		
Part Number	Description	Quantity
SA244593	SA 10E652Y796G2	1.000 EA
RA231476	RA 10E652Y796G2	1.000 EA
10CB3000SP	STD KO BOX MODEL 310,312,314 MTRS W/2.00	1.000 EA
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 EA
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 EA
10EP1200A04	ENDPLATE, MACH	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
10AD2000A02	AIR DEFLECTOR, STAT	1.000 EA
51XF1032A08	10/32X1/2 HXWSHR HD, SL, TYPE F ,SERATED	3.000 EA
10AD2000A02	AIR DEFLECTOR, STAT	1.000 EA
51XF1032A08	10/32X1/2 HXWSHR HD, SL, TYPE F ,SERATED	3.000 EA
10XN3816K76	3/8-16 X 4.75 HEX HD CAP SCREW, GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 EA
10EP1200A03	ENDPLATE, MACH PU	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
10XN3118K32	5/16-18 X 2.00" HEX HD, GRADE 5	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
10XN3118K32	5/16-18 X 2.00" HEX HD, GRADE 5	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
10XN3816K76	3/8-16 X 4.75 HEX HD CAP SCREW, GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
10CB3500SP	CONDUIT BOX LID, CAST	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 EA
HW2501G17	KEY, 3/8 SQ X 1.875	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.130 LB
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.125 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0181	CONNECTION LABEL	1.000 EA
NP3554LUA	SS SUPER-E VPWM INV READY UL CSA-EEV PRE	1.000 EA
10PA1000	PACKAGING GROUP COMBINED PRINT PK1023A06	1.000 EA

AC Induction Motor Performance Data

Record # 68585 - Typical performance - not guaranteed values

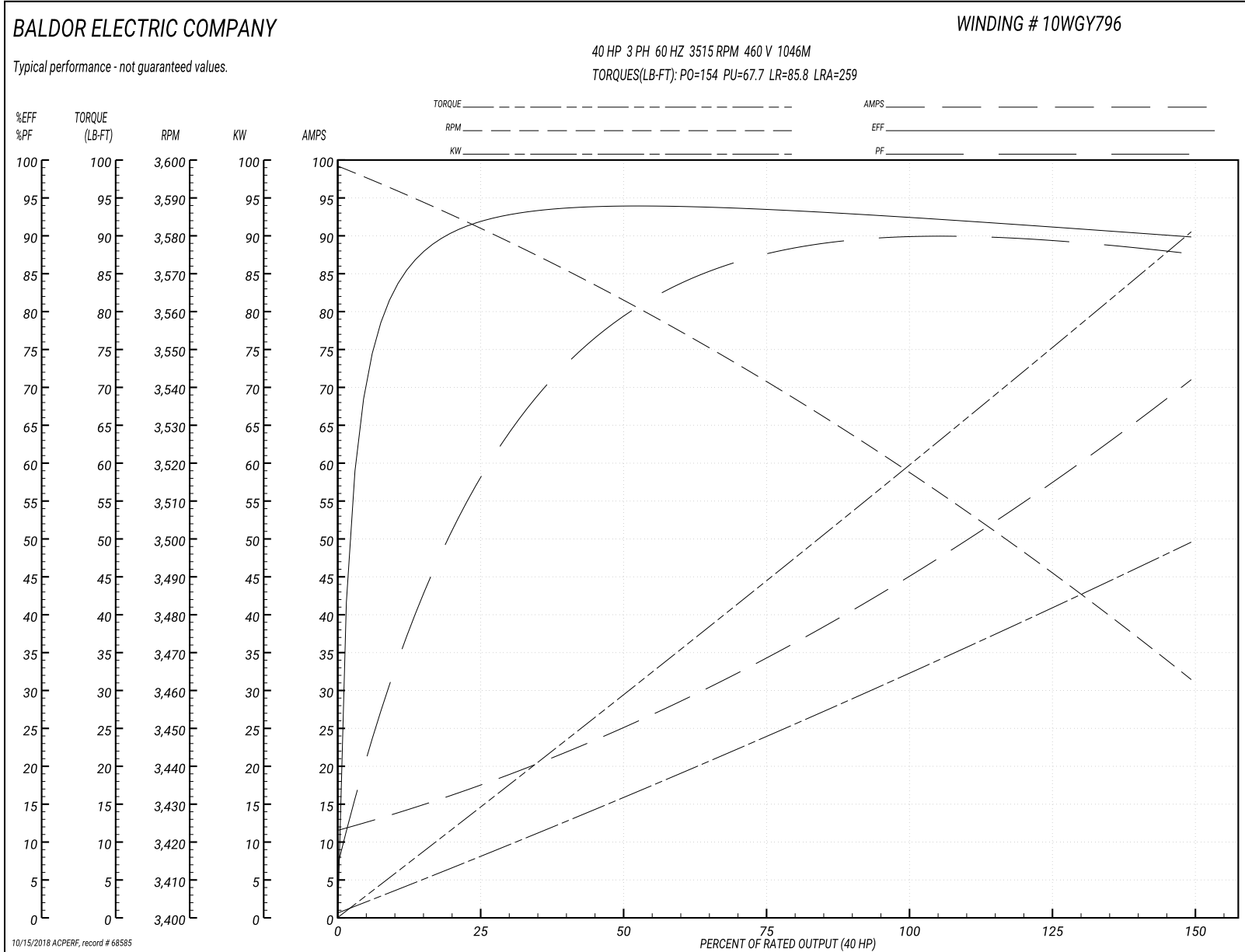
Winding: 10WGY796-R005	Type: 1046M	Enclosure: OPSB
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	40			Full Load Torque	59.55 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	92/46			Breakdown Torque	154 LB-FT
R.P.M.	3515			Pull-up Torque	67.7 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	85.8 LB-FT
NEMA Design Code	B	KVA Code	F	Starting Current	259 A
Service Factor (S.F.)	1.15			No-load Current	12.3 A
NEMA Nom. Eff.	92.4	Power Factor	88	Line-line Res. @ 25°C	0.21001 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	49°C
S.F. Amps				Temp. Rise @ S.F. Load	63°C
				Locked-rotor Power Factor	24

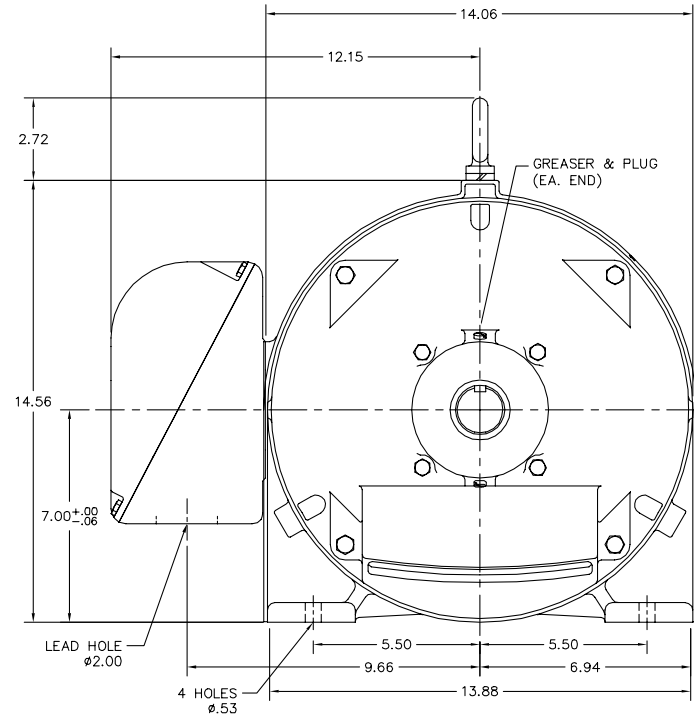
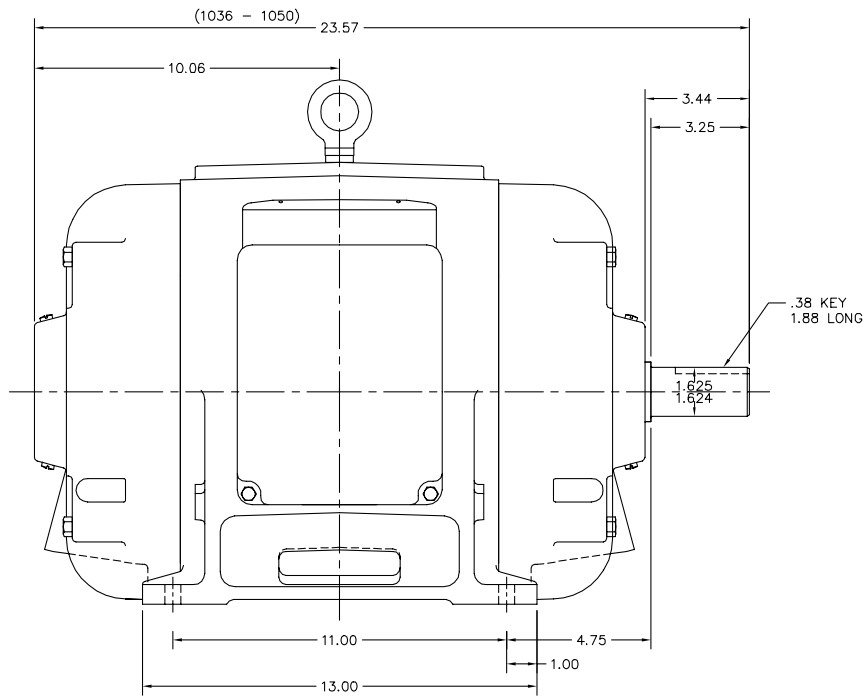
Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	62	80	87	89	89	88	89
Efficiency	91.3	93.6	93.4	92.6	91.3	89.7	91.8
Speed	3581.8	3563.4	3541	3518.8	3492.2	3462.2	3503
Line amperes	16.3	24.6	34.5	45.5	57.3	70.7	52.6

Performance Graph at 460V, 60Hz, 40.0HP Typical performance - Not guaranteed values



10LYE652



10LYE652

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: UPDATED DESCRIPTION		
REV. LTR: E	VERSION: 04	TDR: 000000855727
FILE: \AAA\00063\754	REVISED: 10:39:40 05/29/2014	BY: ENNINDO
MTL: -		

BALDOR

HOR OPEN 286TS
SH 1 of 1

CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: C	BY: JLP	REVISED: 01/21/99 2:28	TDR: 0171435
0810D0		FILE: AAA00005148	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS, DELTA CONNECTION

CD0180

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