

BALDOR® • RELIANCE 

Product Information Packet

XT3502TS

50HP,3540RPM,3PH,60HZ,326TS,1252M,TEFC,F

Part Detail							
Revision:	-	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	12WGY291	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:		Layout:	12LYH011	Poles:	02	Created Date:	12-04-2020
Base:		Eff. Date:	12-15-2020	Leads:	9#8		

Specs			
Catalog Number:	XT3502TS	Electrically Isolated Bearing:	Not Electrically Isolated
Enclosure:	TEFC	Feedback Device:	NO FEEDBACK
Frame:	326TS	Heater Indicator:	No Heater
Frame Material:	Iron	Insulation Class:	F
Output @ Frequency:	50.000 HP @ 60 HZ	Inverter Code:	Inverter Duty
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	IP Rating:	NONE
Voltage @ Frequency:	230.0 V @ 60 HZ	KVA Code:	F
	460.0 V @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
XP Class and Group:	CLI GP A,B,C,D	Locked Bearing Indicator:	Locked Bearing
XP Division:	Division II	Motor Lead Termination:	Flying Leads
Agency Approvals:	CCSA US	Motor Type:	1266M
	CSA EEV	Mounting Arrangement:	F1
	NEMA PREMIUM	Power Factor:	91
	UR	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Rodent Screen:	None
Base Indicator:	Rigid	Shaft Ground Indicator:	No Shaft Grounding
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Rotation:	Reversible

Blower:	None	Speed Code:	Single Speed
Constant Torque Speed Range:	6	Motor Standards:	NEMA
Current @ Voltage:	123.000 A @ 208.0 V	Starting Method:	Direct on line
	55.000 A @ 460.0 V	Thermal Device - Bearing:	None
	110.000 A @ 230.0 V	Thermal Device - Winding:	None
Design Code:	B	Vibration Sensor Indicator:	No Vibration Sensor
Drip Cover:	No Drip Cover	Winding Thermal 1:	None
Duty Rating:	CONT	Winding Thermal 2:	None
		XP Temp Code:	T3

Nameplate NP4163L											
CAT.NO.	XT3502TS						I.P.	54			
SPEC.	12-0000-1940						ENCL	TEFC			
FRAME	326TS				H.P.	50					
VOLTS	230/460				P.F.	90					
F.L. AMPS	112/56				RATING	40C AMB-CONT					
R.P.M.	3540				USABLE AT 208V	122					
HZ.	60				PH.	3		CLASS	F		
SER.F.	1.15				DES.	A		SL HZ	1		
NEMA NOM. EFF.	93				Wk2	4.07					
DE	6312				ODE	6311					
MAG. CUR.	29.8/14.9										
INV TYPE	PWM		CHP	60		TO	90		T. CODE	T3	
CT	6		TO	60		VT	3		TO	60	
CC	010A		SN								
	USABLE AT 50HZ 40HP 190/380V										
	108/54A SF1.0										

Parts List		
Part Number	Description	Quantity
SA388497	SA 12-0000-1940	1.000 EA
RA378859	RA 12-0000-1940	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0181	CONNECTION LABEL	1.000 EA
LB1449	DIV-2/NEC WARNING LABEL	1.000 EA
NP4163L	SS CP INV DIV-2 UL CSA-C US EEV PREM, DI	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
12FH1002SP	FAN COVER, CAST	1.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA
XY5013A12	NUT,1/2-13,HEX,STEEL,ZINCPLATED	4.000 EA
37FN3002C04	EXFN, PLASTIC, 6.00 OD, 2.003 ID	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.200 LB
12EP1107A196	FREP W/SLINGER & "0" DRAIN,W/O RET HLS	1.000 EA
HA3400A13	STUD, 1/2-13 X 7" WELKER	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA
HW4600B41	V-RING SLINGER 2.125 X 2.880 X 0.280	1.000 EA
HW5100A13	W4627-047 WVY WSHER	1.000 EA
HA4017A01	1/8 X 4 GREASE EXT (F/S)	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4066A01	PUSH IN T-DRAIN FITTING (BLACK)	1.000 EA
12EP1106A77	PU ENDPLATE, MACH FOR "O" DRAIN	1.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA
10XN5013K28	1/2-13 X 1.75 HEX HEAD MACH SCREW,GRAD	4.000 EA
HW4600B41	V-RING SLINGER 2.125 X 2.880 X 0.280	1.000 EA
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4066A01	PUSH IN T-DRAIN FITTING (BLACK)	1.000 EA
10CB3001A31	KOBX, MACH W/2.50 LD HL, .38-16 GND	1.000 EA
09GS1000SP	GASKET-CONDUIT BOX, 1/16 THICK LEXIDE	1.000 EA
10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
WD1000B19	TERMINAL BURNDY L250HP	1.000 EA
10XN3816K08	3/8-16 X .50 HEX HD CAP SCREW GRADE 5	1.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	1.000 EA
10CB3500SP	CONDUIT BOX LID, CAST	1.000 EA
10GS1000SP	GASKET, CONDUIT BOX LID	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 EA
MG1025L14	WILKOFASST, 776.14, GRUNDFOS BLACK	0.125 GA
12PA1000	PACKAGING GROUP PRINT PK1024A07	1.000 EA

HW2501H18	KEY, 1/2 SQ X 2.000	1.000 EA
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AC Induction Motor Performance Data

Record # 78204

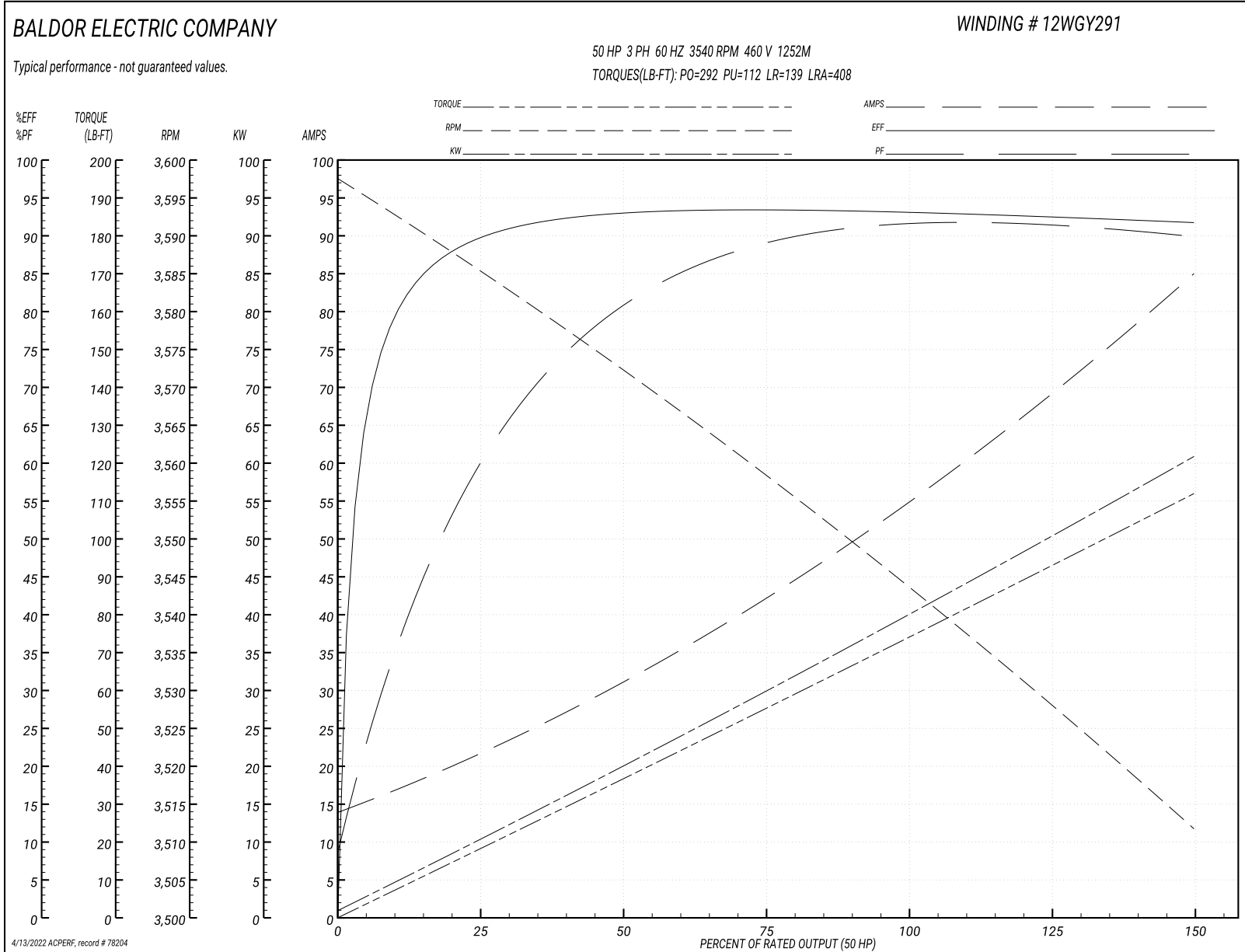
Typical performance - not guaranteed values

Winding: 12WGY291-R008		Type: 1252M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	50	Full Load Torque	74.4 LB-FT
Volts	230/460	Start Configuration	direct on line
Full Load Amps	112/56	Breakdown Torque	292 LB-FT
R.P.M.	3540	Pull-up Torque	112 LB-FT
Hz	60 Phase	Locked-rotor Torque	139 LB-FT
NEMA Design Code	A KVA Code	Starting Current	408 A
Service Factor (S.F.)	1	No-load Current	14.9 A
NEMA Nom. Eff.	93 Power Factor	Line-line Res. @ 25°C	0.11257 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	77°C
		Locked-rotor Power Factor	20.9
		Rotor inertia	4.07 LB-FT ²

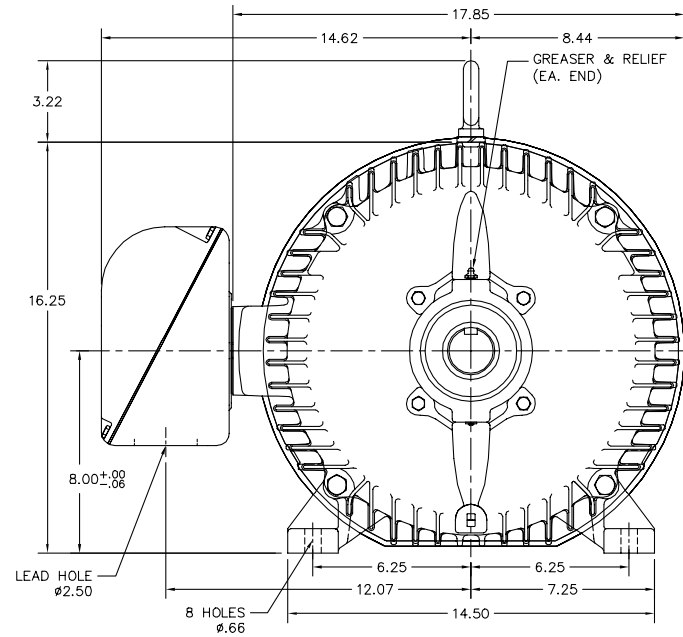
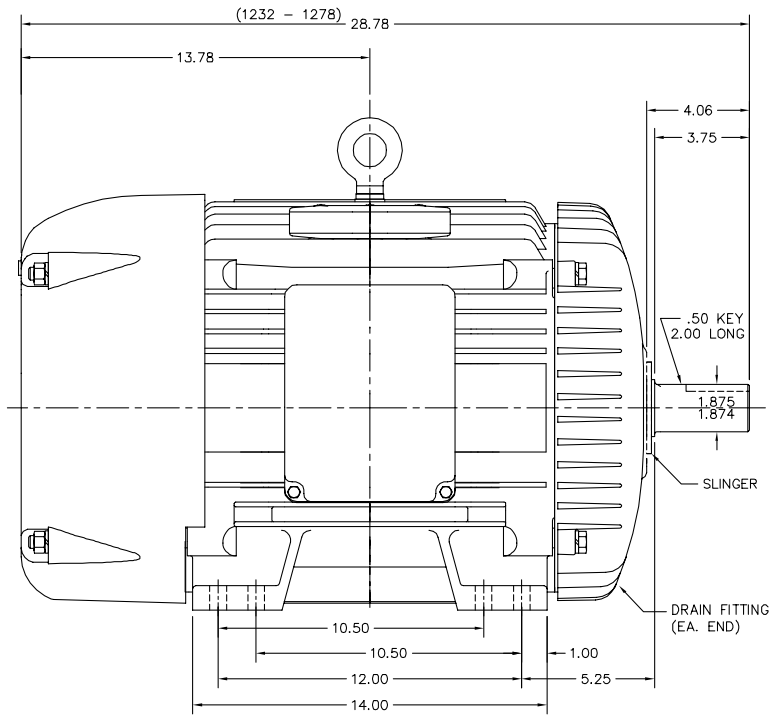
Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	66	82	88	90	91	90
Efficiency	91.1	93.8	94.2	93.9	93.2	92.3
Speed	3584.1	3571.8	3558.2	3544.1	3528.2	3511.2
Line amperes	20.4	30.8	42.9	55.8	69.5	84.6

Performance Graph at 460V, 60Hz, 50.0HP Typical performance - Not guaranteed values



12LYH011



12LYH011

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

REV. DESC: REMOVE LOCKNUT	VERSION: 05	TDR: 000000954270
REV. LTR: J	REVISED: 01:37:14 11/19/2015	BY: ENMARS0
FILE: \AAA\00035\138		
MTL: -		

BALDOR
HORZ TEFC 324-6TS
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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIRO
MTL: -	© □	

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1

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