

**BALDOR® • RELIANCE** 

**Product Information Packet**

**EM7559T-I**

**20HP,3530RPM,3PH,60HZ,256T,0950M,XPFC,F1**

Part Detail							
Revision:	D	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	09WZ651	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	09J321	Layout:	09LYJ321	Poles:	02	Created Date:	09-08-2016
Base:	RG	Eff. Date:	09-01-2017	Leads:	9#10		

Specs			
Catalog Number:	EM7559T-I	Insulation Class:	F
Enclosure:	XPFC	Inverter Code:	Not Inverter
Frame:	256T	KVA Code:	H
Frame Material:	Iron	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	20.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 10 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	CLI GP D; CLII GP E,F,G	Motor Type:	0950M
XP Division:	Division I	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	91
	CSA EEV	Product Family:	Hazardous Location Motor
	CSA	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End
Blower:	None	Shaft Ground Indicator:	No Shaft Grounding

<b>Current @ Voltage:</b>	22.000 A @ 460.0 V	<b>Shaft Rotation:</b>	Reversible
	44.000 A @ 230.0 V	<b>Shaft Slinger Indicator:</b>	Shaft Slinger
	48.000 A @ 208.0 V	<b>Speed Code:</b>	Single Speed
<b>Design Code:</b>	A	<b>Motor Standards:</b>	NEMA
<b>Drip Cover:</b>	No Drip Cover	<b>Starting Method:</b>	Direct on line
<b>Duty Rating:</b>	CONT	<b>Thermal Device - Bearing:</b>	NONE (OLD)
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Thermal Device - Winding:</b>	Normally Closed Thermostat
<b>Feedback Device:</b>	NO FEEDBACK	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Front Face Code:</b>	Standard	<b>Winding Thermal 1:</b>	None
<b>Front Shaft Indicator:</b>	None	<b>Winding Thermal 2:</b>	None
<b>Heater Indicator:</b>	No Heater	<b>XP Temp Code:</b>	T3C

Nameplate NP1044XPSLEV										
NO.							CC	010A		
SER.							TEMP CODE	T3C		
SPEC.	09J321Z651G1									
CAT.NO.	EM7559T-I									
HP	20									
VOLTS	230/460									
AMPS	44/22									
RPM	3530						MOTOR WEIGHT	390		
HERTZ	60	PH	3	CL	F	DE BRG	6309			
SER.F.	1.15	DES	A	CODE	H	ODE BRG	6208			
FRAME	256T		GREASE			POLYREX EM				
RATING	40C AMB-CONT									
USABLE AT 208V	48	NEMA-NOM-EFF			91		PF	91		
	55C AMB @ 1.0 SF,60C RISE									

Parts List		
Part Number	Description	Quantity
SA326994	SA 09J321Z651G1	1.000 EA
RA314901	RA 09J321Z651G1	1.000 EA
37FN3002C02	EXFN, PLASTIC, 6.00 OD, 1.503 ID	1.000 EA
MJ5000A01	SEALANT, CHICO A COMPOUND	0.031 LB
09CB1000A57P	CONDUIT BOX, MACH W/EPOXY PRIMER	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
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
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	1.000 EA
09FH1004A10P	FAN COVER, MACH W/1 HOLE FOR GREASER, EP	1.000 EA
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 EA
HA2009A39	SLINGER FOR GROUP E MTRS - 208 BRG.	1.000 EA
80XN0632A10	SET SCREW,#6-32 X .62 LG.HEX SOC. HD.	2.000 EA
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 EA
09EP1707A26P	PUEP MACH, NON-XP; EPOXY PRIMER	1.000 EA
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HA2009A38	SLINGER FOR GROUP E MTRS - 309 BRG.	1.000 EA
80XN0632A10	SET SCREW,#6-32 X .62 LG.HEX SOC. HD.	2.000 EA
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 EA
10XN2520K36	1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
10XN2520K14	1/4-20 X .88 HEX GRD 5 (20001)	3.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	3.000 EA
09CB1500A01P	CONDUIT BOX LID, MACH W/EPOXY PRIMER	1.000 EA
10XN2520K16	1/4-20 X 1" HX HD SCRW GRADE 5, ZINC P	6.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	6.000 EA
HW2501G26	KEY, 3/8 SQ X 3.000	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1073	ALUM XP CAUTION LABEL	1.000 EA
09EP1700A67PP	ENDPLATE, MACH W/PRIMER & PAINT	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA
HA4017A06	/125 X 3.00 GREASER EXT. (F/S)	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.080 LB
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
MG1025G05	WILKOFASST, 789.227, MED. GRAY CHAR. MET.	0.050 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	6.000 EA

LB1119N	WARNING LABEL	1.000 EA
LC0181	CONNECTION LABEL	1.000 EA
NP1044XPSLEV	SS XP UL CSA-EEV CC CL-I GP-D	1.000 EA
40PA1005	PACKAGING GROUP, 09 STD	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA

**AC Induction Motor Performance Data**

Record # 54029 - Typical performance - not guaranteed values

<b>Winding:</b> 09WGZ651-R004	<b>Type:</b> 0950M	<b>Enclosure:</b> XPFC
-------------------------------	--------------------	------------------------

Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	20			Full Load Torque	30 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	44/22			Breakdown Torque	167 LB-FT
R.P.M.	3530			Pull-up Torque	33.7 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	51 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	160 A
Service Factor (S.F.)	1.15			No-load Current	5.75 A
NEMA Nom. Eff.	91	Power Factor	91	Line-line Res. @ 25°C	0.43337 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	58°C
S.F. Amps				Temp. Rise @ S.F. Load	72°C

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	65	83	89	91	91	91	91
Efficiency	89.4	92.7	92.9	92.4	91.4	90.1	91.8
Speed	3580.7	3566.7	3547.3	3526.6	3504.5	3479.4	3513
Line amperes	8.04	12.2	17.1	22.4	28.2	34.2	25.9



Performance Graph at 460V, 60Hz, 20.0HP Typical performance - Not guaranteed values

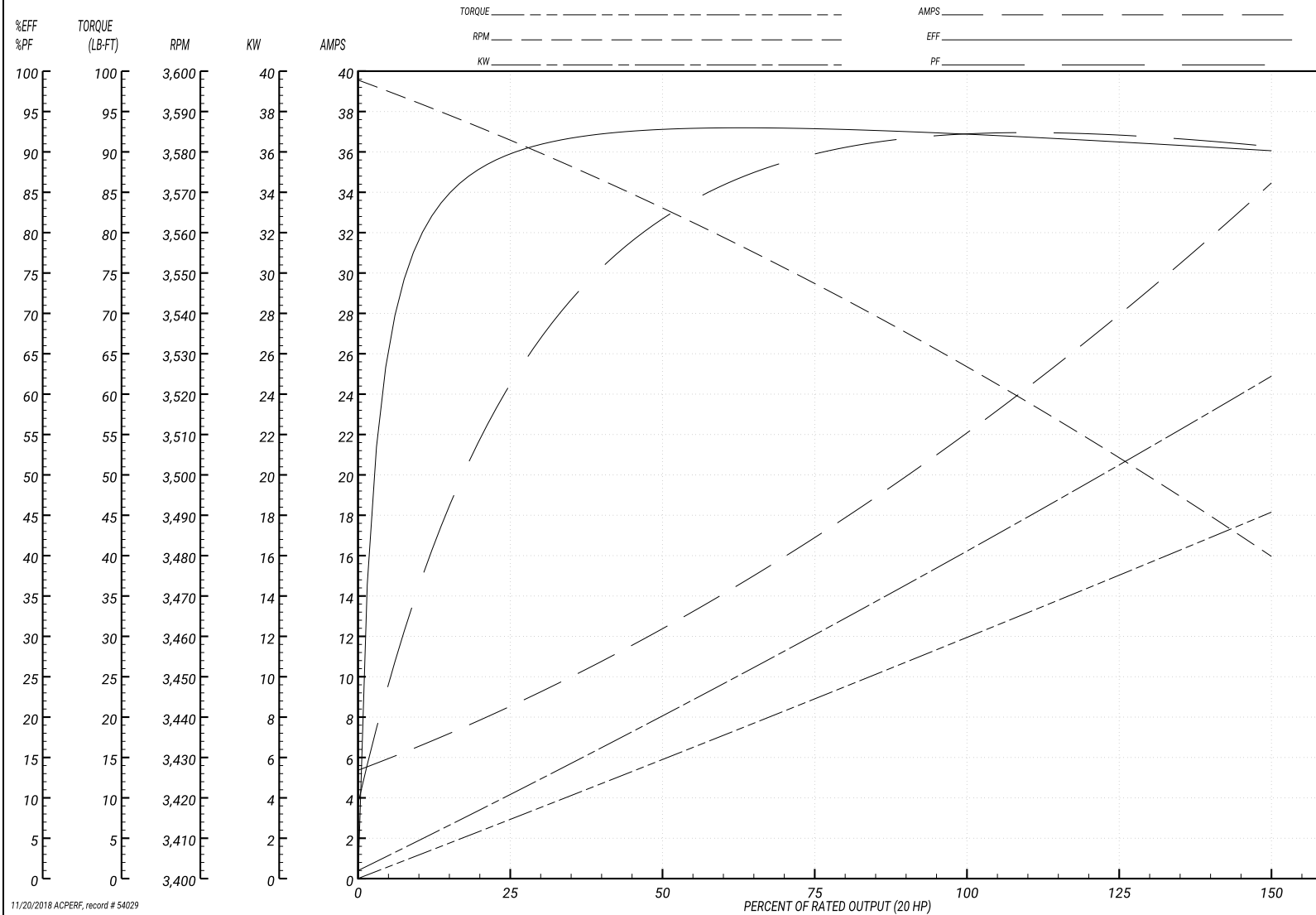
**BALDOR ELECTRIC COMPANY**

WINDING # 09WGZ651

Typical performance - not guaranteed values.

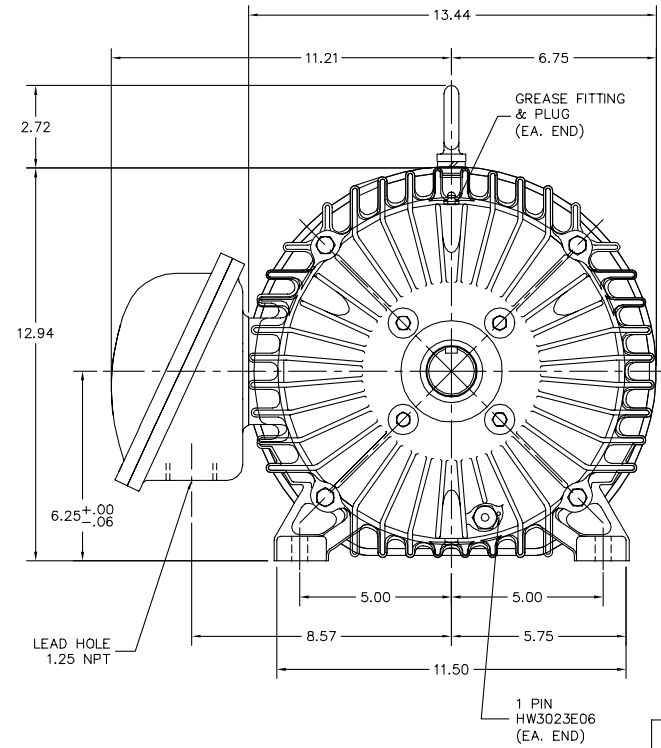
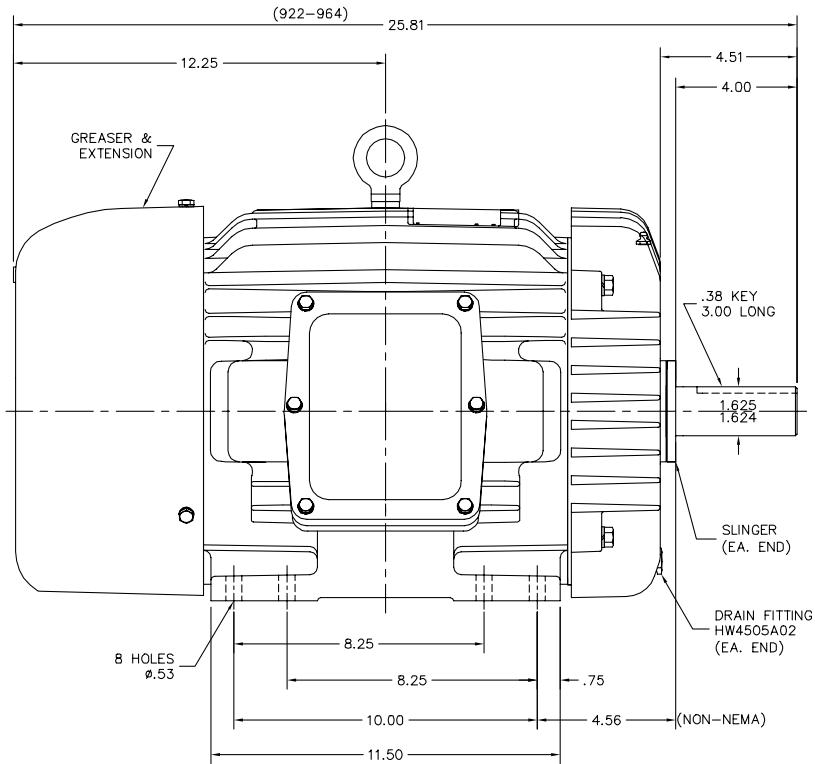
20 HP 3 PH 60 HZ 3530 RPM 460 V 0950M

TORQUES(LB-FT): PO=167 PU=33.7 LR=51 LRA=160



11/20/2018 ACPERF, record # 54029

09LYJ321



09LYJ321

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

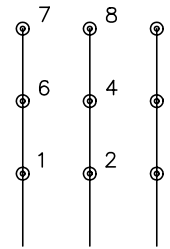
REV. DESC: ADDED 964 STACK SIZE	VERSION: 05	TDR: 000001085288
REV. LTR: E	REVISED: 09:03:18 10/02/2018	BY: USBRKNI1
FILE: \AAA\00173\466		
MTL: -		

**BALDOR - RELIANCE**®  
 HORZ XPFC 254-6T, CP FEAT, CL.1,GP.D,CL.II,GP.E,F,G DRAINS  
 SH 1 of 1

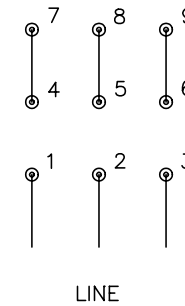
CD0180



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

Marketing maintained PDF of MN416:

<http://www.baldor.com/support/Literature/Load.ashx/MN416?ManNumber=MN416>