



Product Information Packet

EM7056T

20//15HP,1770//1470RPM,3PH,60//50HZ,256T

Part Detail							
Revision:	J	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	09WGT459	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	09E270	Layout:	09LYE270	Poles:	04	Created Date:	11-17-2017
Base:	RG	Eff. Date:	10-27-2020	Leads:	9#10		

Specs			
Catalog Number:	EM7056T	Front Shaft Indicator:	None
Enclosure:	XPFC	Heater Indicator:	No Heater
Frame:	256T	Insulation Class:	B
Frame Material:	Iron	Inverter Code:	Not Inverter
Output @ Frequency:	15.000 HP @ 50 HZ	IP Rating:	NONE
	20.000 HP @ 60 HZ	KVA Code:	J
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Voltage @ Frequency:	230.0 V @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
	190.0 V @ 50 HZ	Motor Lead Quantity/Wire Size:	9 @ 10 AWG
	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	380.0 V @ 50 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	CLI GP D; CLII GP F,G	Motor Type:	X0960M
XP Division:	Division I	Mounting Arrangement:	F1
Agency Approvals:	CSA EEV	Power Factor:	83
	CSA	Product Family:	Hazardous Location Motor
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	None

Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT
Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	44.000 A @ 190.0 V	Shaft Ground Indicator:	No Shaft Grounding
	48.000 A @ 230.0 V	Shaft Rotation:	Reversible
	52.000 A @ 208.0 V	Shaft Slinger Indicator:	No Slinger
	24.000 A @ 460.0 V	Speed Code:	Single Speed
	22.000 A @ 380.0 V	Motor Standards:	NEMA
Design Code:	A	Starting Method:	Direct on line
Drip Cover:	No Drip Cover	Thermal Device - Bearing:	None
Duty Rating:	CONT	Thermal Device - Winding:	Normally Closed Thermostat
Electrically Isolated Bearing:	Not Electrically Isolated	Vibration Sensor Indicator:	No Vibration Sensor
Feedback Device:	NO FEEDBACK	Winding Thermal 1:	None
Front Face Code:	Standard	Winding Thermal 2:	None
		XP Temp Code:	T3C

Nameplate NP1426XPSLEV

NO.		CC	010A
SER.			
SPEC.	09E270T459G2		
CAT.NO.	EM7056T		
HP	20//15	T. CODE	T3C
VOLTS	230/460//190/380		
AMPS	48/24//44/22		
RPM	1770//1470		
HZ	60//50	PH	3
SER.F.	1.00	DES	A
RATING	40C AMB-CONT	CL	B
FRAME	256T	CODE	J
USABLE AT 208V	52	NEMA-NOM-EFF	93
BLANK		PF	83

Parts List		
Part Number	Description	Quantity
SA347956	SA 09E270T459G2	1.000 EA
RA336515	RA 09E270T459G2	1.000 EA
09FN3001D01SP	EXTERNAL FAN, PLASTIC	1.000 EA
MJ5000A09	EFI KIT #1578 (400 ML CARTRIDGE OF EFI	0.031 EA
09CB1000A57	CONDUIT BOX, MACH	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
09EP1700A01	FR ENDPLATE, MACH	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
HA2002A05	SPACER, #208 BRG	1.000 EA
10XN2520K36	1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P	4.000 EA
09EP1707A01	PU ENDPLATE, MACH	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
09FH1004A01	FAN COVER, MACH	1.000 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
09CB1500A01SP	CONDUIT BOX LID, MACH	1.000 EA
10XN2520K16	1/4-20 X 1" HX HD SCRW GRADE 5, ZINC P	6.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	6.000 EA
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1073	ALUM XP CAUTION LABEL	1.000 EA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 QT
HW4500A20	1/8NPT SL PIPE PLUG	2.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.080 LB
HW4500A20	1/8NPT SL PIPE PLUG	2.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	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
NP1426XPSLEV	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) 3/19	1.000 EA
LD7020E09	LEAD SET, 10AWG, 9 LEAD, 20" LONG LEADS	1.000 EA

AC Induction Motor Performance Data

Record # 68005

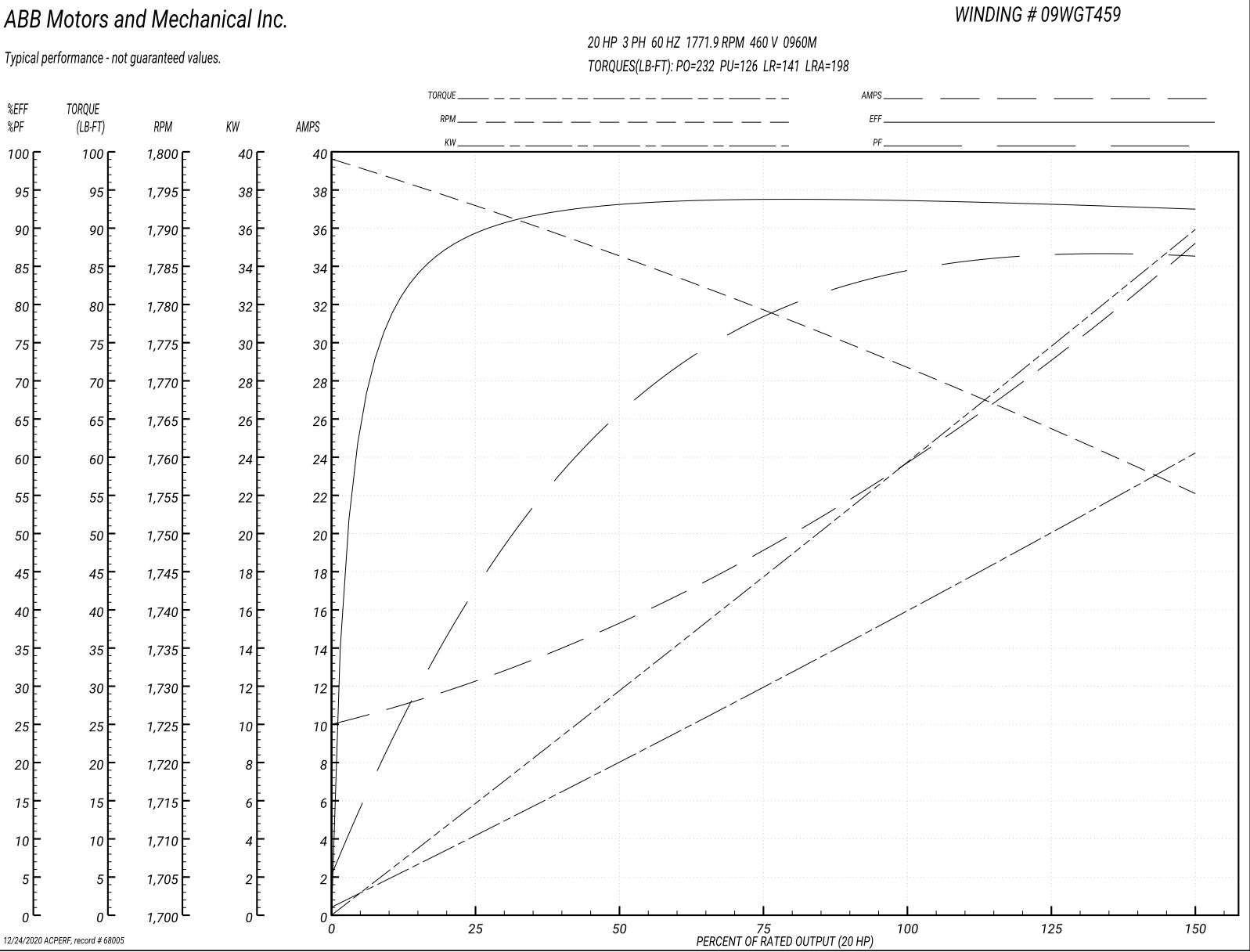
Typical performance - not guaranteed values

Winding: 09WGT459-R006				Type: 0960M		Enclosure: XPFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		20//15		Full Load Torque		59.27 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		48/24//44/22		Breakdown Torque		232 LB-FT	
R.P.M.		1770//1470		Pull-up Torque		126 LB-FT	
Hz		60//50		Phase		3	
NEMA Design Code		A		KVA Code		J	
Service Factor (S.F.)						1	
NEMA Nom. Eff.		93		Power Factor		83	
Rating - Duty		40C		AMB-CONT			
				Locked-rotor Power Factor			
				26.5			

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	45	67	78	83	86	87
Efficiency	89.2	93	93.7	93.6	93.1	92.4
Speed	1793.2	1786.4	1779.1	1771.9	1763.7	1755.3
Line amperes	11.8	15	19.2	24	29.3	34.9

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



AC Induction Motor Performance Data

Record # 68007

Typical performance - not guaranteed values

Winding: 09WGT459-R006			Type: 0960M		Enclosure: XPFC		
Nameplate Data			380 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		20//15	Full Load Torque		53.45 LB-FT		
Volts		230/460//190/380	Start Configuration		direct on line		
Full Load Amps		48/24//44/22	Breakdown Torque		224 LB-FT		
R.P.M.		1770//1470	Pull-up Torque		131 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque		146 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		193 A
Service Factor (S.F.)			1	No-load Current		10.16 A	
NEMA Nom. Eff.		93	Power Factor	83	Line-line Res. @ 25°C		0.316 Ω
Rating - Duty		40C	AMB-CONT	Temp. Rise @ Rated Load		50°C	
				Locked-rotor Power Factor		29.3	
				Rotor inertia		2.65 LB-FT2	

Load Characteristics 380 V, 50 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	43	66	77	83	86	87
Efficiency	88	92.2	93.1	93.1	92.5	91.8
Speed	1494	1488	1481	1475	1467	1460
Line amperes	11.32	14.06	17.76	22.07	26.82	31.83

Performance Graph at 380V, 50Hz, 15.0HP Typical performance - Not guaranteed values

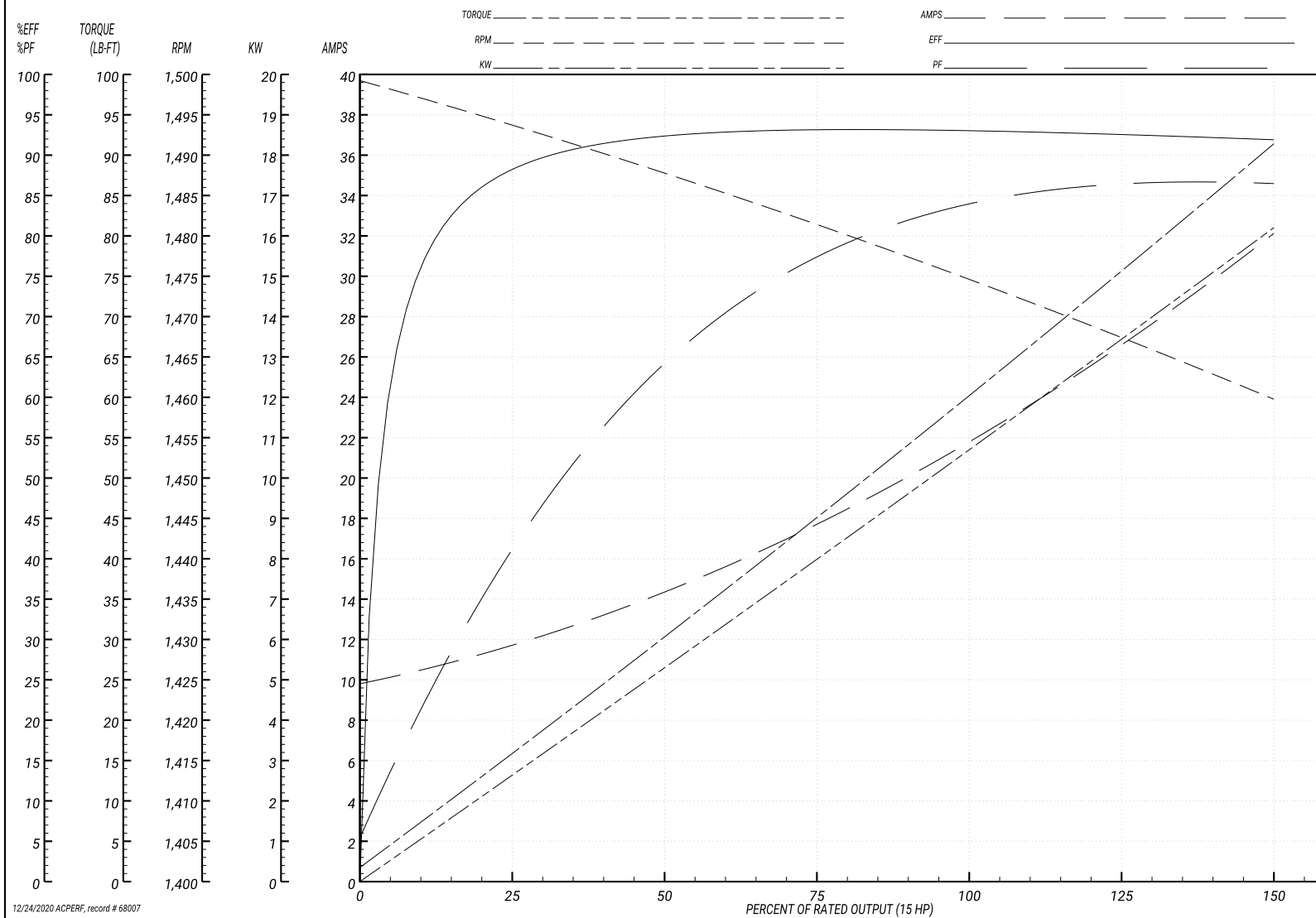
ABB Motors and Mechanical Inc.

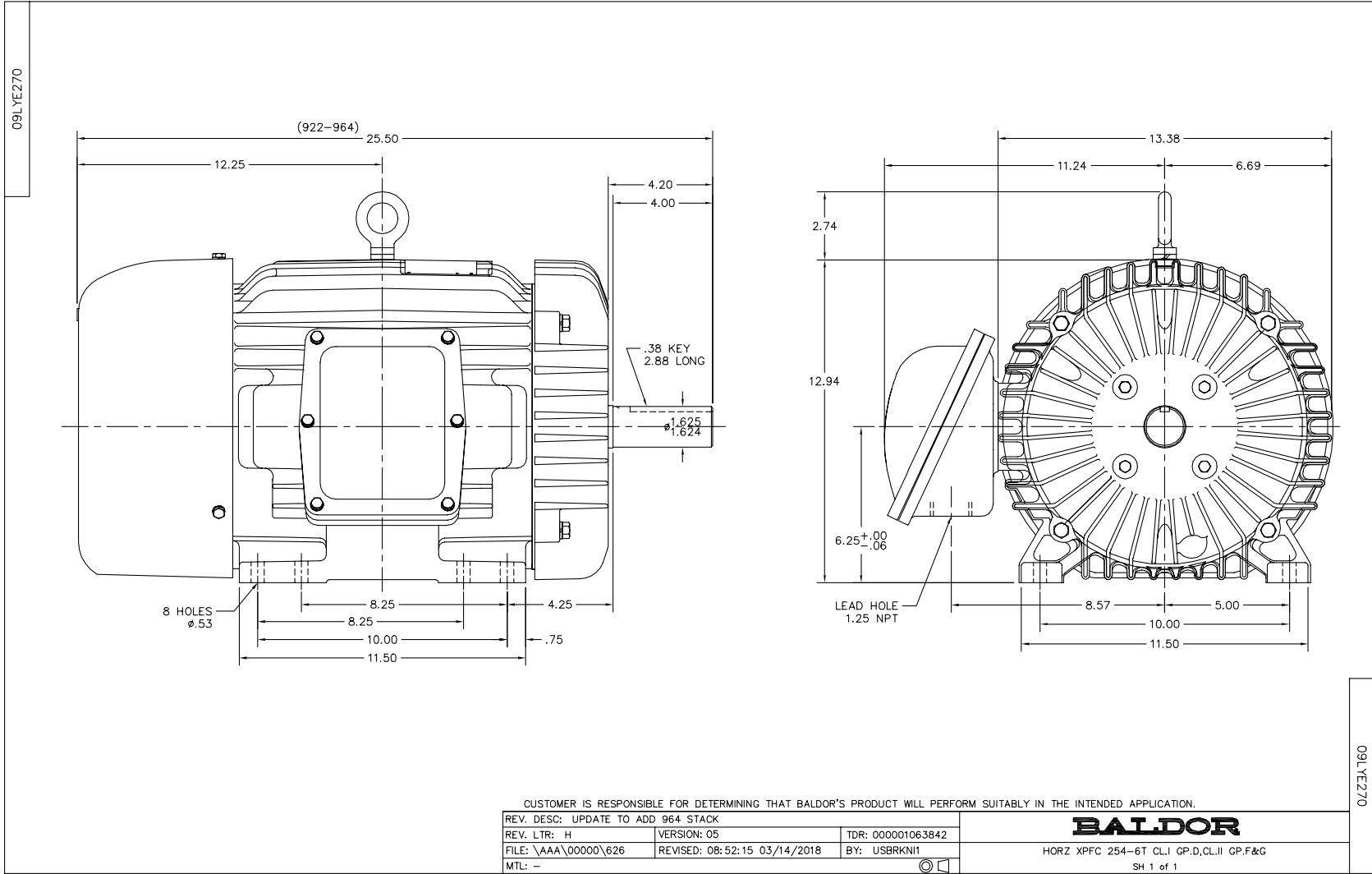
WINDING # 09WGT459

Typical performance - not guaranteed values.

15 HP 3 PH 50 HZ 1475 RPM 380 V 0960M

TORQUES(LB-FT): PO=224 PU=131 LR=146 LRA=193





CD0180

1-BLU

4-YEL

9-GRY

7-PNK

5-BLK

6-PRP

8-RED

3-ORG

OPTIONAL THERMOSTATS

J-BRN

J-BRN

2-WHT

LOW VOLTAGE
(2D)

7

6

1

8

4

2

9

5

3

LINE

HIGH VOLTAGE
(1D)

7

4

1

8

5

2

9

6

3

LINE

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: 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

CD0180

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