ABB BALDOR RELIANCE

Customer information packet

CEM7170T-I

10//7.5HP, 1765//1465RPM, 3PH, 60//50HZ, 215
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	215TC
Frame Material	Iron
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
	7.500 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	CSA
	UL
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	23.000 A @ 190.0 V
	24.600 A @ 230.0 V
	12.300 A @ 460.0 V
	11.500 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	T
Type	AC
Mech. spec.	07J232
Base	
Status	PRD/A
Elec. spec.	07WGX598
Layout	07LYJ232
Eff. date	02-21-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	08-04-2010

Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	11.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0750M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.78 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	No Slinger
Speed	1465 rpm
	1765 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0977XPSLEV											
NO.						**CC**	010A				
SER.						**TEMP CODE**	T3C				
SPEC.	07J232X598G2										
CAT.NO.	CEM7170T-I										
HP	10//7.5										
VOLTS	230/460//190/380										
AMPS	24.6/12.3//23/11.5										
RPM	1765//1465				**MOTOR WEIGHT**		252				
HERTZ	60//50	**PH**	3	**CL**	F	**DE BRG**	6307				
SER.F.	1.15	**DES**	A	**CODE**	J	**ODE BRG**	6206				
FRAME	215TC	**GREASE**	POLYREX EM								
RATING	40C AMB-CONT 55C AMB AT 1.0 SF										
				NEMA-NOM-EFF		92.4	**PF**	81			
	NEMA MG-1 PT 5,IP55										

AC Induction Motor Performance Data
Record # 33780
Typical performance - not guaranteed values

Winding: 07WGX598-R007	**Type:** 0750M	**Enclosure:** XPFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			10//7.5	**Full Load Torque**	26.8 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			24.6/12.3//23.2/11.6	**Breakdown Torque**	90 LB-FT
R.P.M.			1765//1465	**Pull-up Torque**	58.1 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	64.4 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	92.9 A
Service Factor (S.F.)			1.15	**No-load Current**	5.49 A
NEMA Nom. Eff.	92.4	**Power Factor**	81	**Line-line Res. @ 25ºC**	0.867 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	48°C
S.F. Amps				**Temp. Rise @ S.F. Load**	58°C
				Locked-rotor Power Factor	39
				Rotor inertia	1.23 LB-FT2

Load Characteristics 380 V, 50 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	39	61	74	80	83	85	82
Efficiency	89.3	93.4	92.3	91.9	90.9	89.7	91.3
Speed	1491	1484	1475	1468	1458	1449	1462
Line amperes	6.07	7.46	9.35	11.6	14.1	16.8	13.1

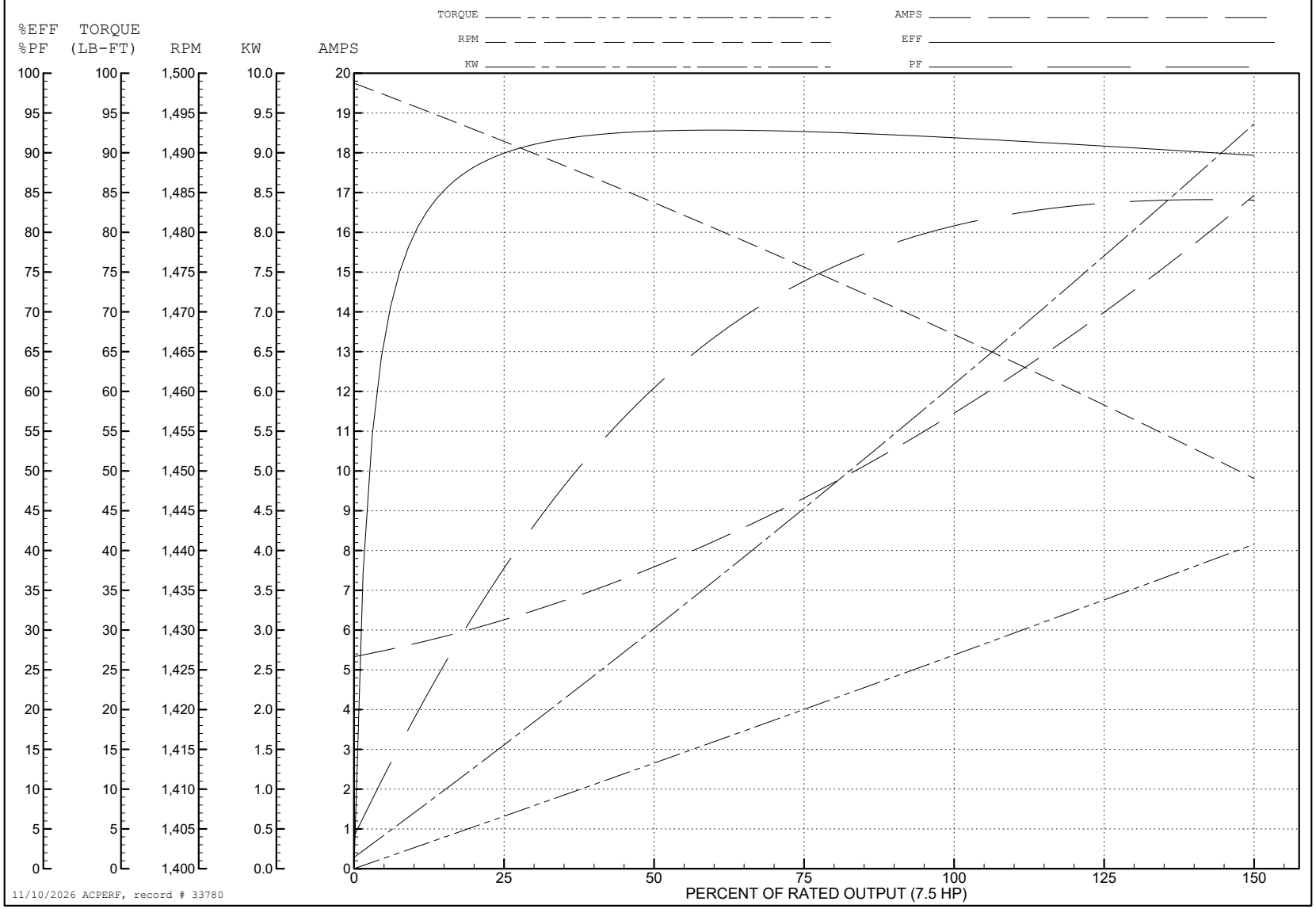
ABB Motors and Mechanical Inc.

WINDING # 07WGX598

7.5 HP 3 PH 50 HZ 1468 RPM 380 V 0750M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=90 PU=58.1 LR=64.4 LRA=92.9



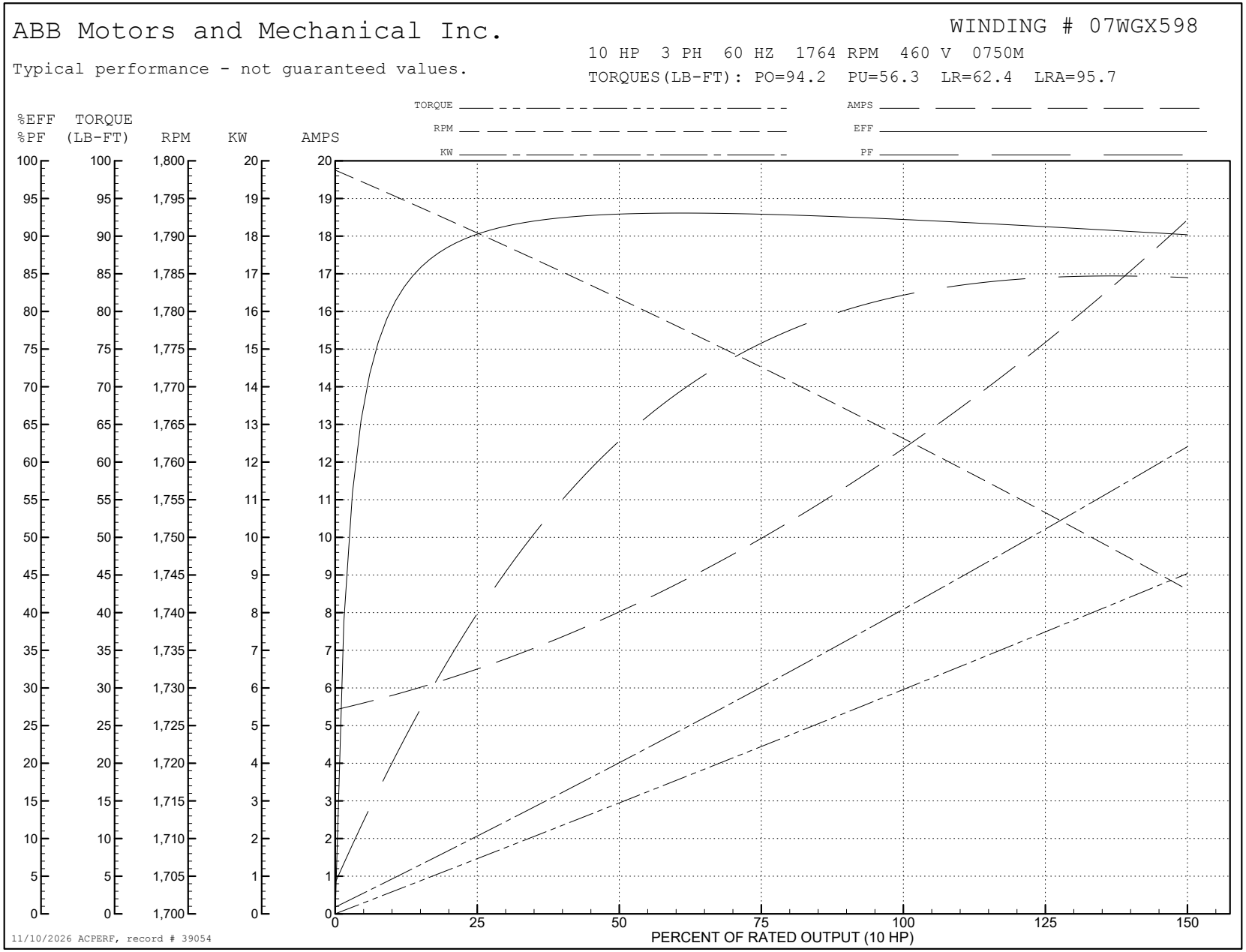
AC Induction Motor Performance Data
Record # 39054
Typical performance - not guaranteed values

Winding: 07WGX598-R007	**Type:** 0750M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			10//7.5	**Full Load Torque**	29.7 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			24.6/12.3//23/11.5	**Breakdown Torque**	94.2 LB-FT
R.P.M.			1765//1465	**Pull-up Torque**	56.3 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	62.4 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	95.7 A
Service Factor (S.F.)			1.15	**No-load Current**	5.6 A
NEMA Nom. Eff.	92.4	**Power Factor**	81	**Line-line Res. @ 25ºC**	0.867 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	55°C
S.F. Amps				**Temp. Rise @ S.F. Load**	70°C
				Locked-rotor Power Factor	35
				Rotor inertia	1.23 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	41	64	76	81	84	85	83
Efficiency	89.8	93.6	92.6	92.4	91.3	90.2	91.7
Speed	1790	1782	1772	1764	1753	1743	1757
Line amperes	6.28	7.9	10	12.5	15.3	18.3	14.2


ABB Motors and Mechanical Inc.
WINDING # 07WGX598
Typical performance - not guaranteed values.
10 HP 3 PH 60 HZ 1764 RPM 460 V 0750M
TORQUES(LB-FT): PO=94.2 PU=56.3 LR=62.4 LRA=95.7
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/10/2026 ACPERF, record # 39054

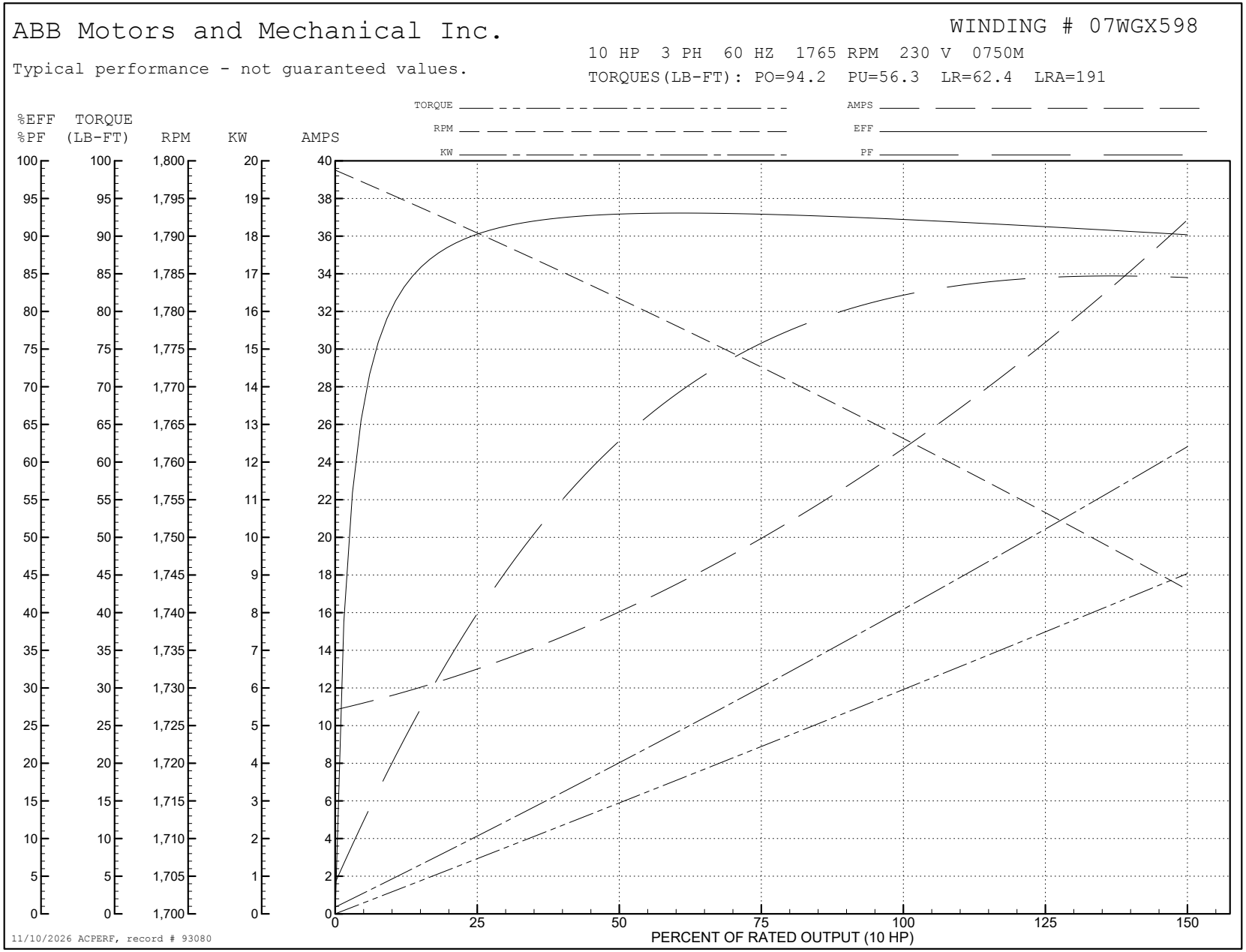
AC Induction Motor Performance Data
Record # 93080
Typical performance - not guaranteed values

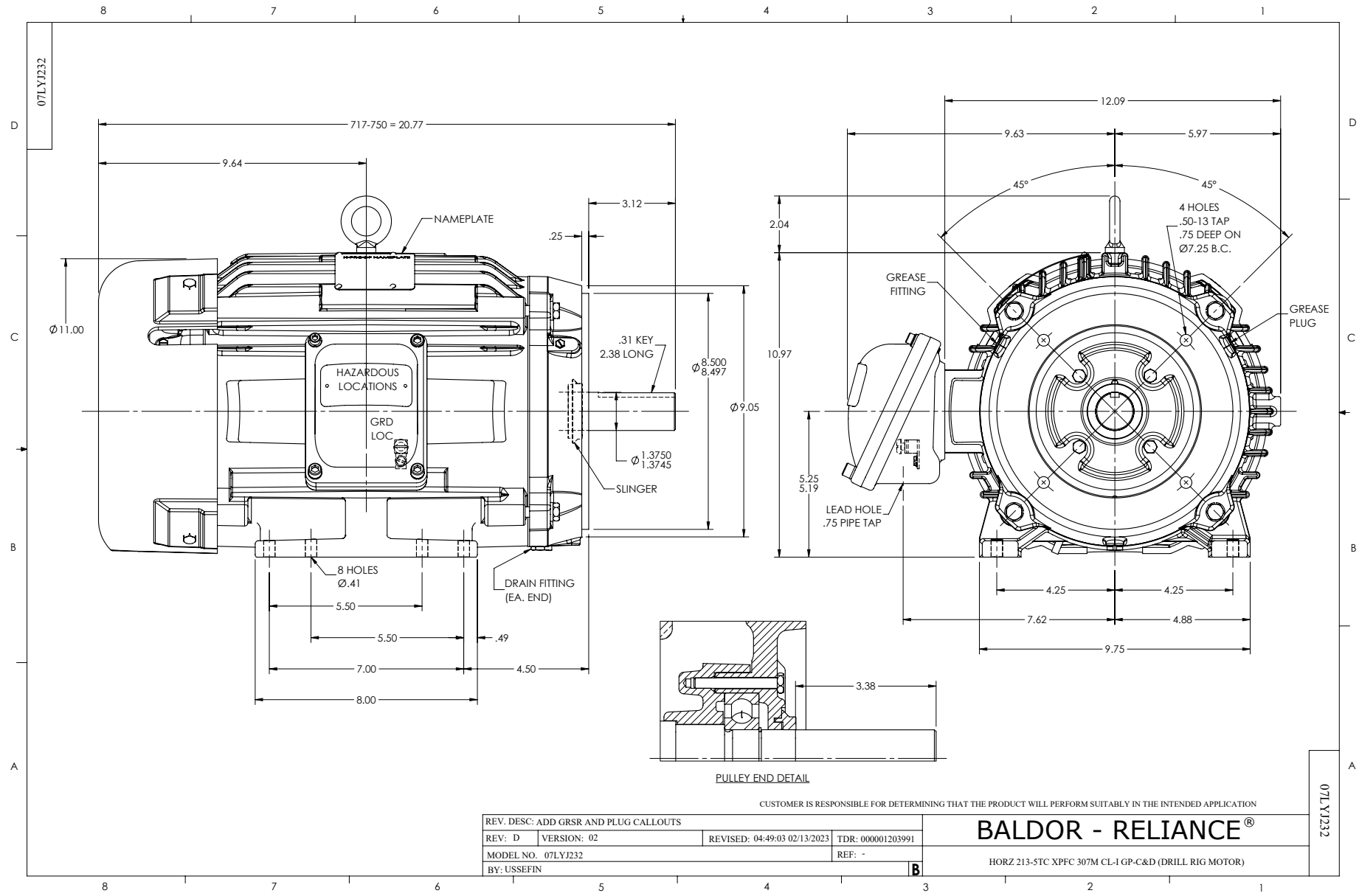
Winding: 07WGX598-R001	**Type:** 0750M	**Enclosure:** XPFC

Nameplate Data				**230 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			10	**Full Load Torque**	29.7 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			24.6/12.3	**Breakdown Torque**	94.2 LB-FT
R.P.M.			1765	**Pull-up Torque**	56.3 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	62.4 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	191 A
Service Factor (S.F.)			1.15	**No-load Current**	11.2 A
NEMA Nom. Eff.	92.4	**Power Factor**	81	**Line-line Res. @ 25ºC**	0.217 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	55°C
S.F. Amps				**Temp. Rise @ S.F. Load**	67°C
				Locked-rotor Power Factor	35.2
				Rotor inertia	1.23 lb-ft²

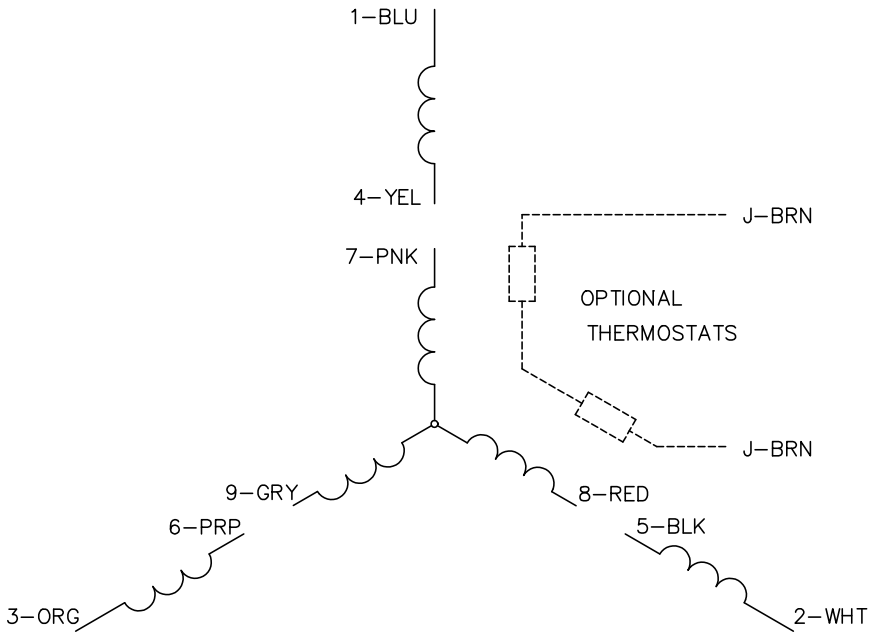
Load Characteristics 230 V, 60 Hz, 10 HP

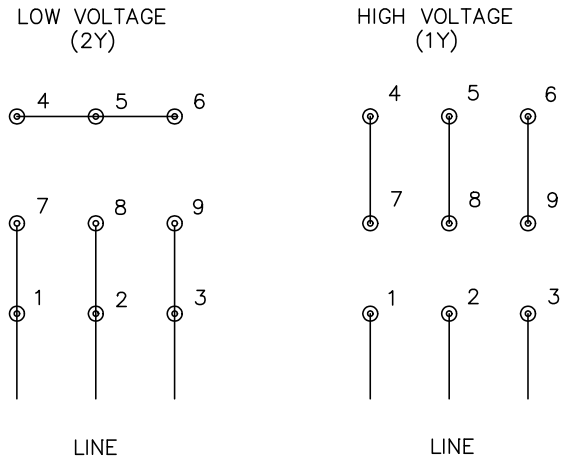
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	41	64	76	81	84	85	83
Efficiency	89.8	93.5	92.5	92.2	91.3	90.1	91.7
Speed	1790	1782	1772	1764	1753	1743	1757
Line amperes	12.56	15.8	20	25	30.6	36.6	28.4


ABB Motors and Mechanical Inc.
WINDING # 07WGX598
10 HP 3 PH 60 HZ 1765 RPM 230 V 0750M
TORQUES(LB-FT): PO=94.2 PU=56.3 LR=62.4 LRA=191
Typical performance - not guaranteed values.
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/10/2026 ACPERF, record # 93080


07LYJ232
717-750 = 20.77
9.64
NAMEPLATE
3.12
.25
Ø11.00
.31 KEY
2.38 LONG
Ø8.500
Ø8.497
Ø9.05
HAZARDOUS
LOCATIONS
GRD
LOC
Ø1.3750
1.3745
SLINGER
8 HOLES
Ø.41
DRAIN FITTING
(EA. END)
5.50
5.50
.49
7.00
4.50
8.00
12.09
9.63
5.97
45°
45°
4 HOLES
.50-13 TAP
.75 DEEP ON
Ø7.25 B.C.
2.04
GREASE
FITTING
GREASE
PLUG
10.97
5.25
5.19
LEAD HOLE
.75 PIPE TAP
4.25
4.25
7.62
4.88
9.75
3.38
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD GRSR AND PLUG CALLOUTS
REV: D
VERSION: 02
REVISED: 04:49:03 02/13/2023
TDR: 000001203991
MODEL NO. 07LYJ232
REF: -
BY: USSEFIN
B
BALDOR - RELIANCE®
HORZ 213-5TC XPFC 307M CL-I GP-C&D (DRILL RIG MOTOR)
07LYJ232

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS