ABB BALDOR RELIANCE

Customer information packet

CDRX21564T

5HP, 1160//965RPM, 3PH, 60/50HZ, 215TC, XPFC,
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	5.000 HP @ 60 HZ
	3.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
Agency Approvals	UL
	CSA EEV
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
Constant Torque Speed Range	6
Current @ Voltage	11.000 A @ 190.0 V
	14.200 A @ 230.0 V
	5.500 A @ 380.0 V
	7.100 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	07WGY242
Layout	07LYJ232
Eff. date	02-14-2024
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	06-21-2019

Efficiency @ 100% Load	89.8 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	5.5 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0748M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	20.78 IN
Power Factor	74
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1160 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

NP1401XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	07-0000-0153			**INV.TYPE**	PWM						
CAT.NO.	CDRX21564T			**C HP FR**	60	**C HP TO**	90				
HP	5//3			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	14.2/7.1//11/5.5		**MAG CUR**	6.4/3.2							
RPM	1160//965		**MX RPM**	1800							
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	89.8				
SER.F.	1.00	**DES**	B	**SL HZ**	2	**WK2**	1.19				
FRAME	215TC	**RATING**	40C AMB-CONT								
	55C AMB @ 1.0 SF										
	1.15 SF SINEWAVE			NEMA MG-1 PT 5,IP55							

AC Induction Motor Performance Data
Record # 74889
Typical performance - not guaranteed values

Winding: 07WGY242-R003	**Type:** 0748M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			5//3
Volts			230/460//190/380
Full Load Amps			14.2/7.1//11/5.5
R.P.M.			1158//965
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	J
Service Factor (S.F.)			1
NEMA Nom. Eff.	89.8	**Power Factor**	74
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	22.9 LB-FT
Start Configuration	direct on line
Breakdown Torque	68.1 LB-FT
Pull-up Torque	40.7 LB-FT
Locked-rotor Torque	48.9 LB-FT
Starting Current	45.7 A
No-load Current	3.19 A
Line-line Res. @ 25ºC	1.91 Ω
Temp. Rise @ Rated Load	53°C
Locked-rotor Power Factor	21.7
Rotor inertia	1.19 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	39	58	69	74	76	76
Efficiency	86.7	90.4	90.9	89.8	88.2	86.1
Speed	1189	1179	1170	1158	1144	1126
Line amperes	3.53	4.38	5.57	7.08	8.71	10.7

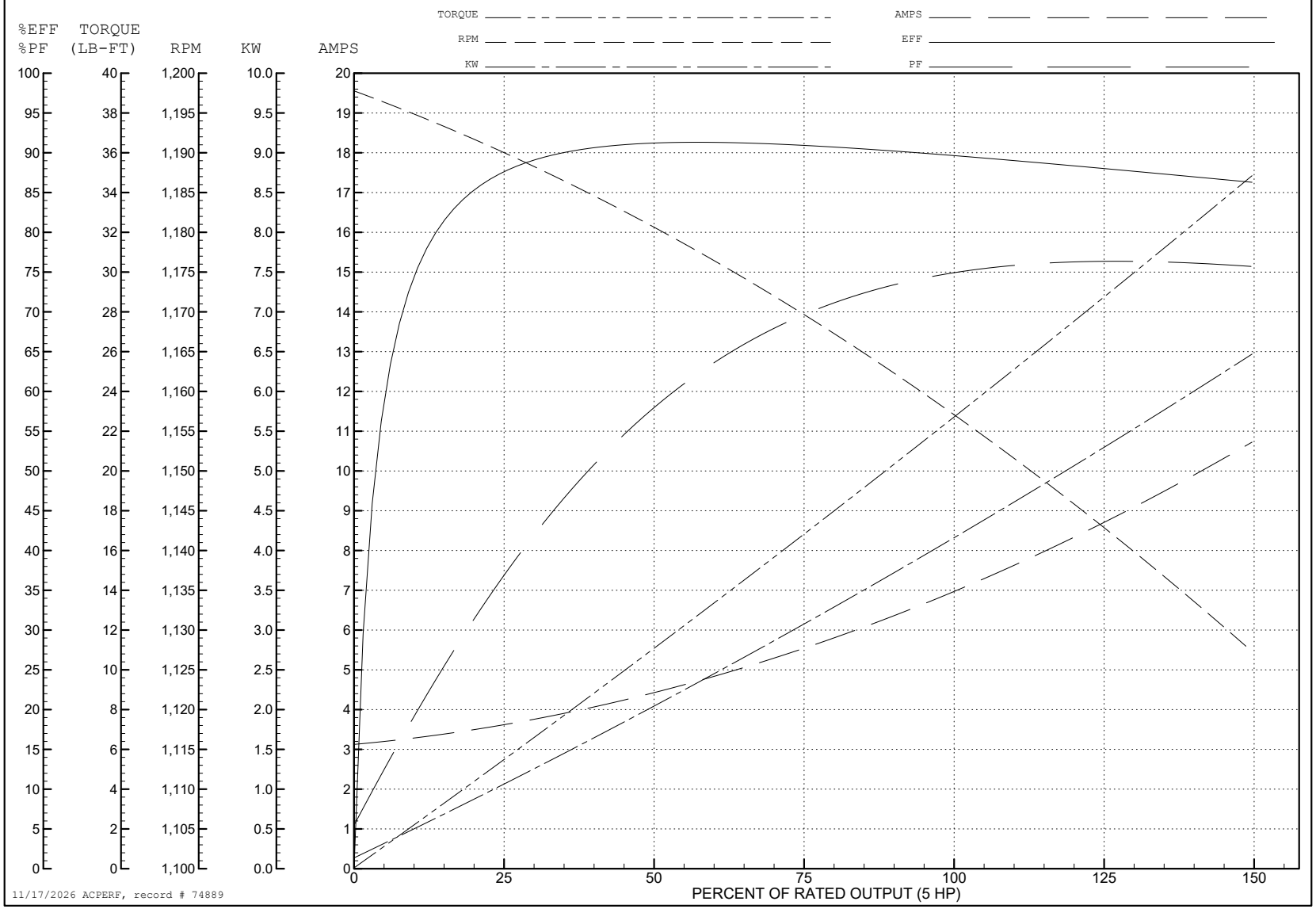
ABB Motors and Mechanical Inc.

WINDING # 07WGY242

5 HP 3 PH 60 HZ 1158 RPM 460 V 0748M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=68.1 PU=40.7 LR=48.9 LRA=45.7



AC Induction Motor Performance Data
Record # 74890
Typical performance - not guaranteed values

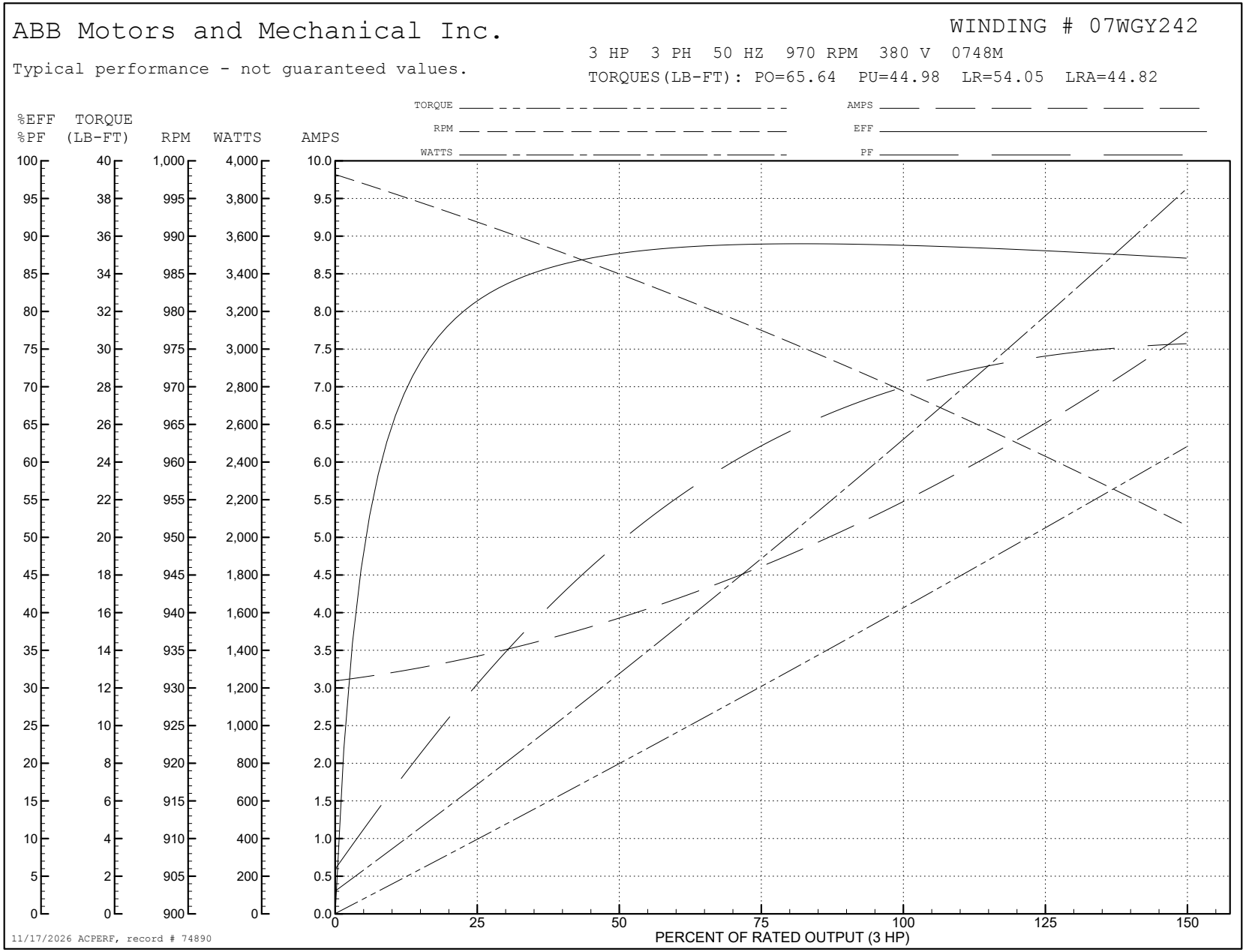
Winding: 07WGY242-R003	**Type:** 0748M	**Enclosure:** TEFC

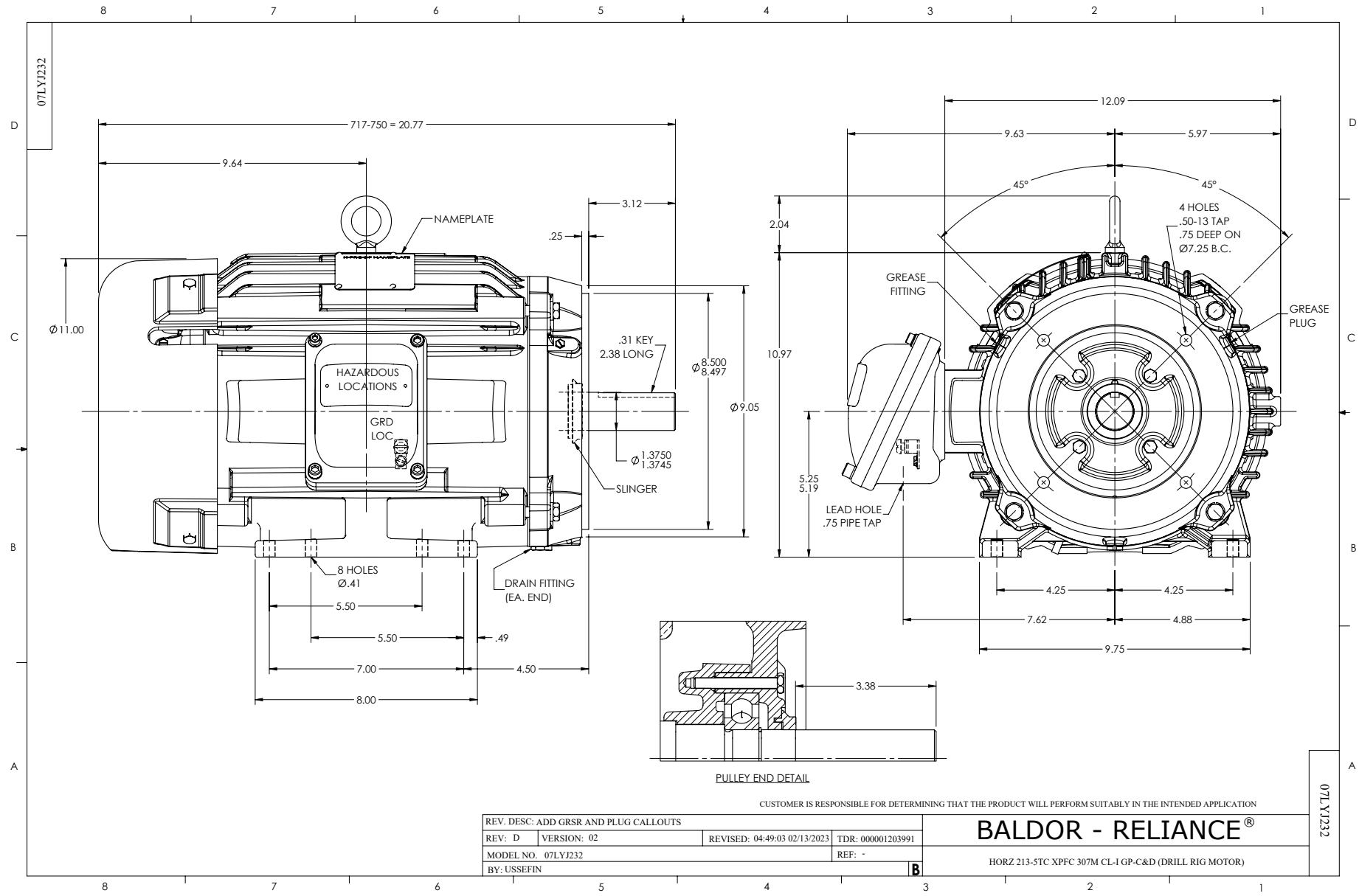
Nameplate Data			
Rated Output (HP)			5//3
Volts			230/460//190/380
Full Load Amps			14.2/7.1//11/5.5
R.P.M.			1158//965
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	J
Service Factor (S.F.)			1
NEMA Nom. Eff.	89.8	**Power Factor**	74
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	16.41 LB-FT
Start Configuration	direct on line
Breakdown Torque	65.64 LB-FT
Pull-up Torque	44.98 LB-FT
Locked-rotor Torque	54.05 LB-FT
Starting Current	44.82 A
No-load Current	3.15 A
Line-line Res. @ 25ºC	1.91 Ω
Temp. Rise @ Rated Load	36°C
Locked-rotor Power Factor	25.1
Rotor inertia	1.19 LB-FT2

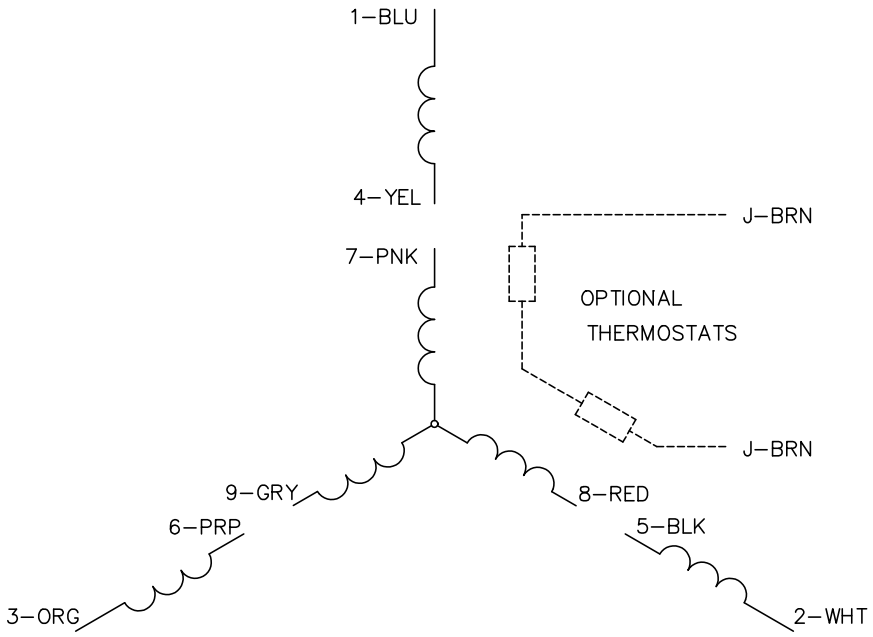
Load Characteristics 380 V, 50 Hz, 3 HP

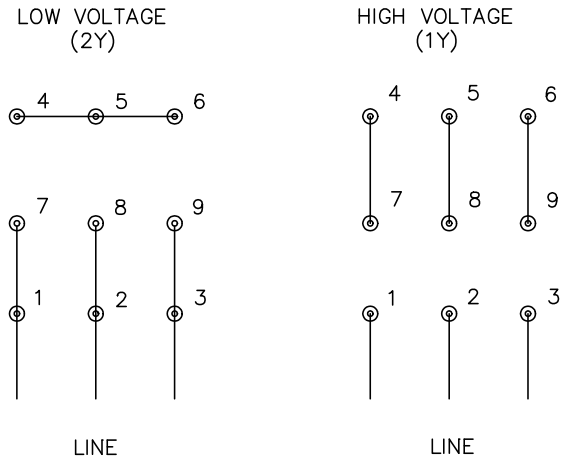
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	32	50	62	69	74	76
Efficiency	80.8	87.3	89	88.9	88.1	87
Speed	991	984	978	970	961	951
Line amperes	3.36	3.88	4.61	5.57	6.56	7.68


ABB Motors and Mechanical Inc.
WINDING # 07WGY242
3 HP 3 PH 50 HZ 970 RPM 380 V 0748M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=65.64 PU=44.98 LR=54.05 LRA=44.82
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/17/2026 ACPERF, record # 74890


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