

Specifications

Enclosure	TEFC
Frame	213LP
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CL I GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM UR CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	0-
Current @ Voltage	9.500 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C

Part detail

Revision	F
Type	AC
Mech. spec.	07D516
Base	
Status	PRD/A
Elec. spec.	07WGX814
Layout	07LYD516
Eff. date	07-06-2023
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	03-27-2019

Heater Indicator	No Heater
High Voltage Full Load Amps	9.5 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP56
KVA Code	H
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0740M
Mounting Arrangement	W6
Number of Poles	4
Overall Length	24.71 IN
Power Factor	81
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley End Bearing Type	Roller
Pulley Face Code	P-Base
Pulley Shaft Indicator	P-Base Groove & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1765 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2	None
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Nameplate

NP4328									
CAT.NO.	VLECP83770T-4								
SPEC.	07D516X814G1								
HP	7.5 TE				IP	56			
VOLTS	460								
AMPS	9.5								
R.P.M.	1765								
FRAME	213LP		HZ		60		PH	3	
SER.F.	1.15	CODE	H	DES.	B	CLASS F			
RATING	40C AMB-CONT								
SN									
DE	6309		ODE		7306				
NEMA NOM. EFF.	91.7		P.F.		81				
GUAR. MIN. EFF.	90.2		CC	010A					
T. CODE	T3C		TEMP=		160				

NP3186

SPEC.	07D516X814G1				
ABMA DE BRG	45BC03X30X				
ABMA ODE BRG	30BT03X30X				
GREASE	POLYREX EM				
MOTOR WEIGHT	178	ROTOR BARS	28	STATOR BARS	36
MAX. R.P.M.	2700	MAX. KVAR	1.46		
INV.TYPE	PWM				
T=	160				
CHP	60	TO	90		
CT	-0	TO	60		
VT	-0	TO	60		
HTR-VOLTS	N/A	HTR-AMPS	N/A		
HTR-WATTS	N/A	MAX. SPACE HEATER TEMP.			N/A

AC Induction Motor Performance Data

Record # 72748

Typical performance - not guaranteed values

Winding: 07WGX814-R095			Type: 0740M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		7.5	Full Load Torque		22.37 LB-FT			
Volts		460	Start Configuration		direct on line			
Full Load Amps		9.5	Breakdown Torque		65.7 LB-FT			
R.P.M.		1765	Pull-up Torque		32.5 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		41.9 LB-FT		
NEMA Design Code		B	KVA Code	H	Starting Current		64.6 A	
Service Factor (S.F.)		1.15	No-load Current		3.67 A			
NEMA Nom. Eff.		91.7	Power Factor		81	Line-line Res. @ 25°C		1.47 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		57°C	
S.F. Amps			Temp. Rise @ S.F. Load		72°C			
			Locked-rotor Power Factor		36.2			
			Rotor inertia		0.984 LB-FT2			

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	69	78	83	84	85	84
Efficiency	88.8	92	92.2	91.6	90.4	89.1	90.9
Speed	1791	1783	1775	1765	1755	1743	1759
Line amperes	4.29	5.61	7.32	9.29	11.6	13.9	10.7

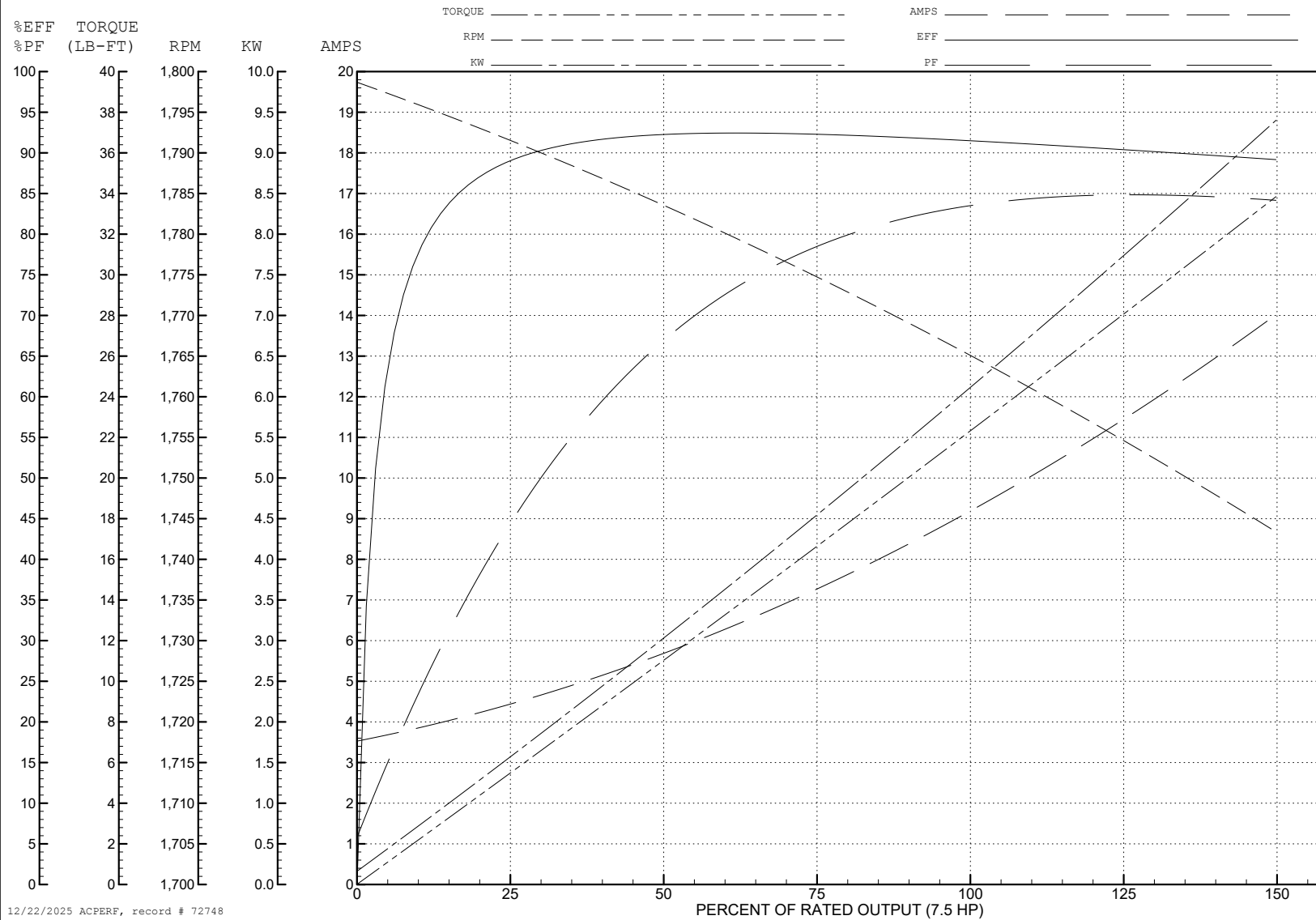
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WINDING # 07WGX814

7.5 HP 3 PH 60 HZ 1765 RPM 460 V 0740M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=65.7 PU=32.5 LR=41.9 LRA=64.6



AC Induction Motor Performance Data

Record # 72749

Typical performance - not guaranteed values

Winding: 07WGX814-R095				Type: 0740M		Enclosure: TEFC	
Nameplate Data				368 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		7.5		Full Load Torque		22.6 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		9.5		Breakdown Torque		41.76 LB-FT	
R.P.M.		1765		Pull-up Torque		20.55 LB-FT	
Hz		60		Phase		3	
NEMA Design Code		B		KVA Code		H	
Service Factor (S.F.)		1.15		No-load Current		51.32 A	
NEMA Nom. Eff.		91.7		Power Factor		81	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps						Temp. Rise @ S.F. Load	
						Locked-rotor Power Factor	
						Rotor inertia	

Load Characteristics 368 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	63	80	85	86	84	82	85
Efficiency	90.9	92.4	91.5	89.8	87.4	84.2	88.4
Speed	1787	1775	1762	1746	1727	1700	1735
Line amperes	3.89	5.98	8.5	11.39	14.91	19.04	13.5

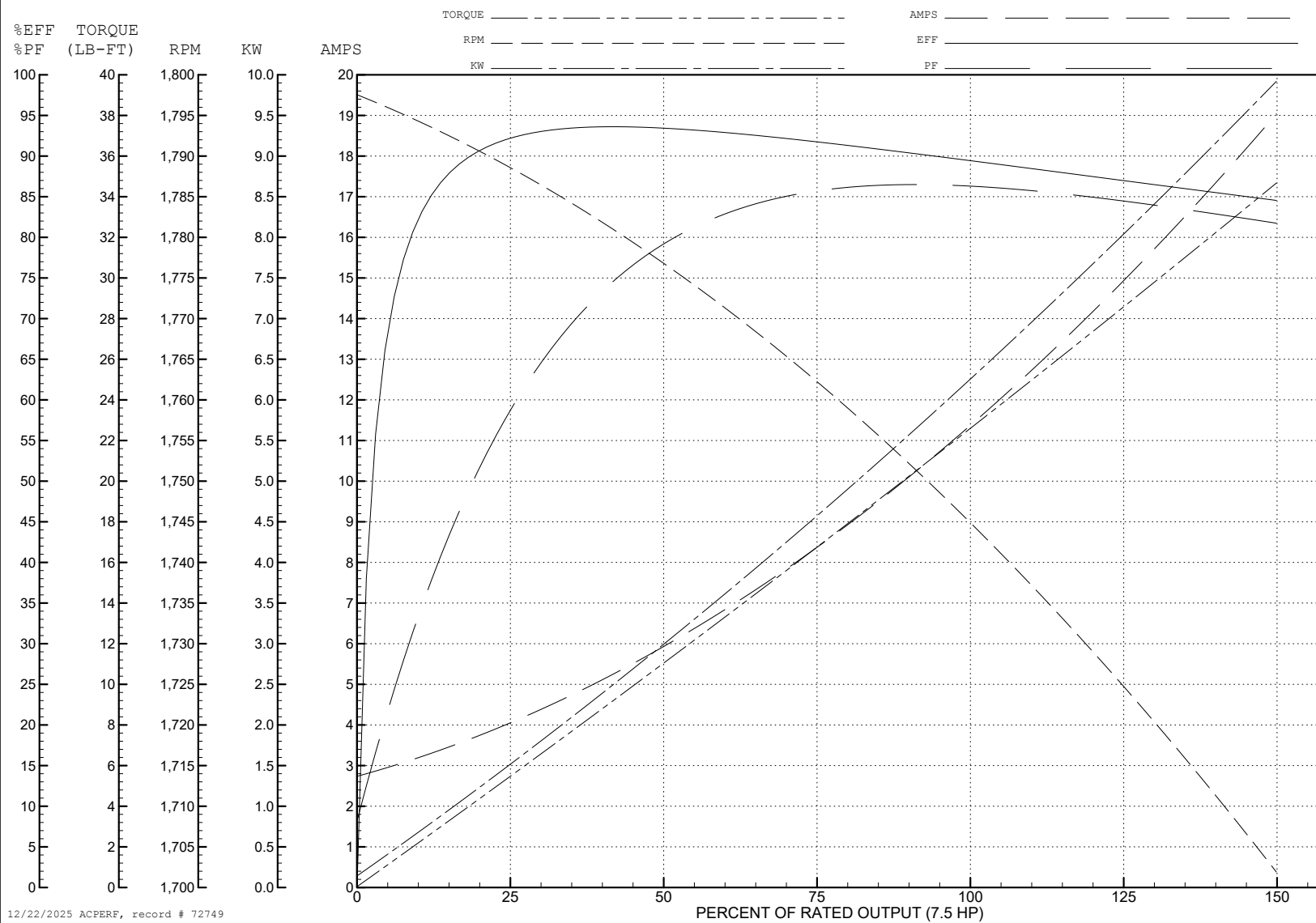
ABB Motors and Mechanical Inc.

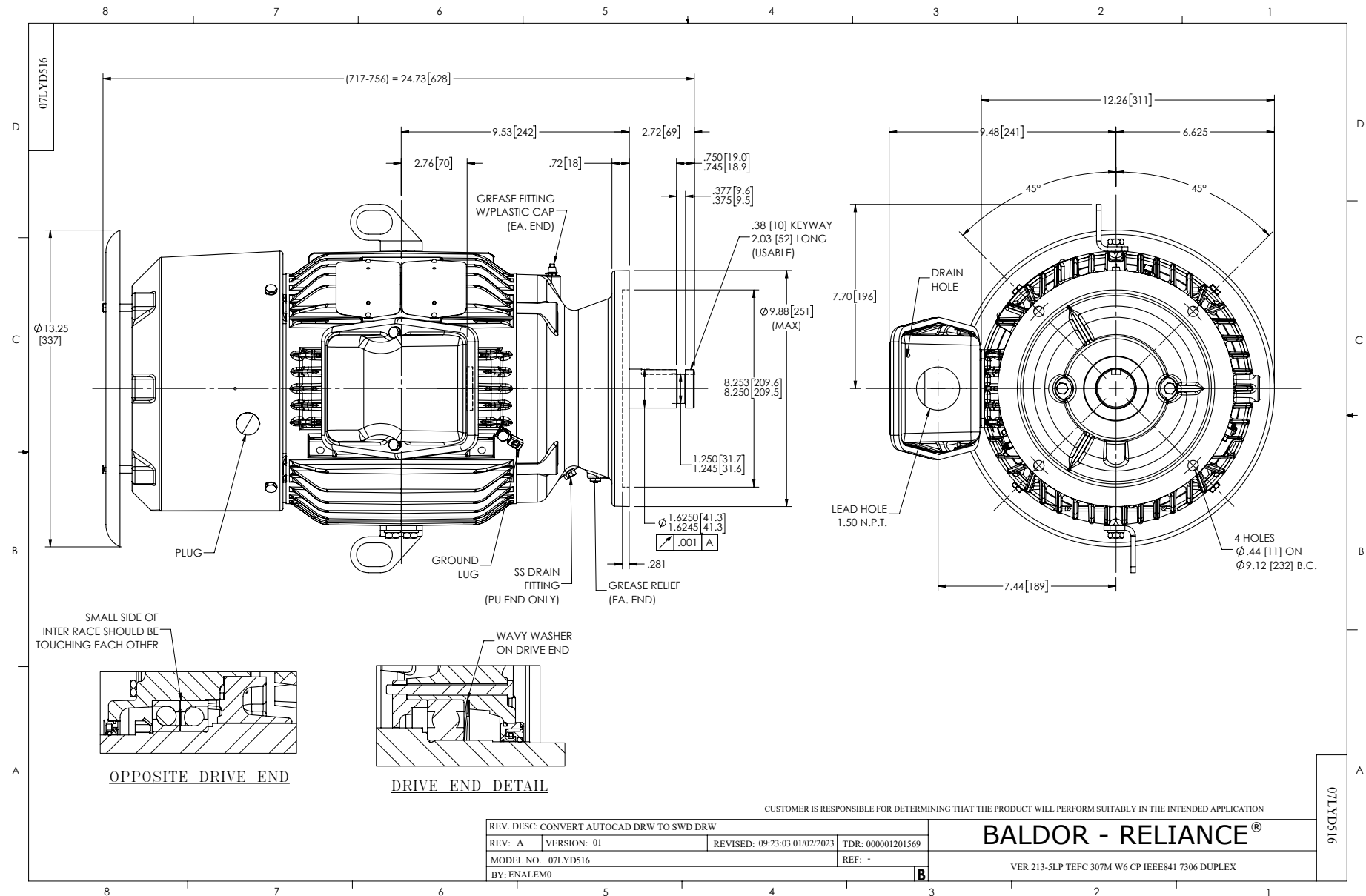
WINDING # 07WGX814

Typical performance - not guaranteed values.

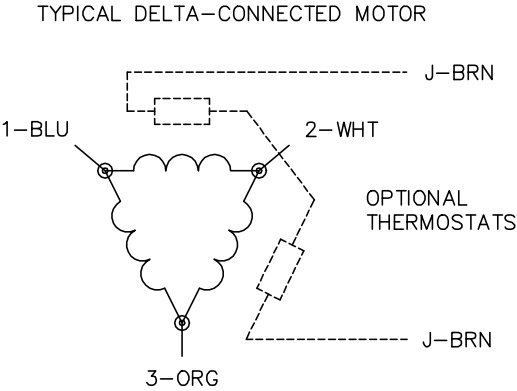
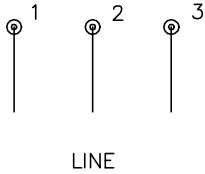
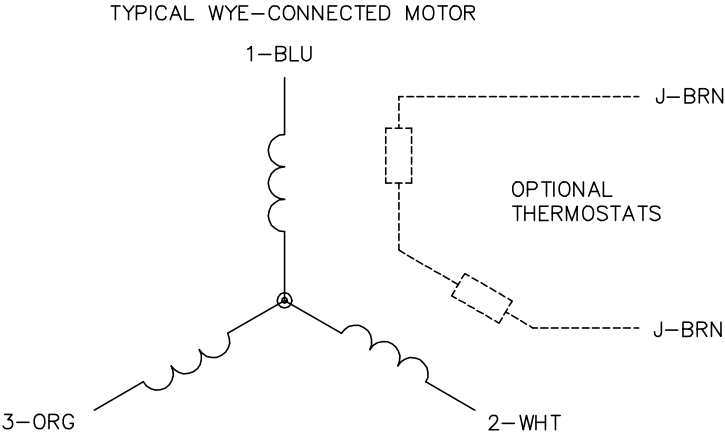
7.5 HP 3 PH 60 HZ 1765 RPM 368 V 0740M

TORQUES (LB-FT): PO=41.76 PU=20.55 LR=26.49 LRA=51.32





CD0006



- NOTES:
- 1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
 - 2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 - 3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 - 4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
 - 5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10: 24: 49 02/19/2019	BY: ENBRIRO
MTL: —		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1