ABB BALDOR RELIANCE

Customer information packet

VHECP3769T

7.5HP, 3510RPM, 3PH, 60HZ, 213HP, 0726M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	213HP
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	CSA
	UR
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
Current @ Voltage	18.000 A @ 230.0 V
	9.000 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	H
Type	AC
Mech. spec.	07K215
Base	
Status	PRD/A
Elec. spec.	07WGY328
Layout	07LYK215
Eff. date	07-25-2024
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	02-25-2016

High Voltage Full Load Amps	9.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Vertical 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	0726M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	22.51 IN
Power Factor	86
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	P-Base
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3510 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2	None

Nameplate

NP1260								
CAT.NO.	VHECP3769T							
SPEC.	07K215Y328G1							
HP	7.5							
VOLTS	230/460							
AMP	18/9							
RPM	3510							
FRAME	213HP	**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	H	**DES**	B	**CL**	F	
NEMA-NOM-EFF	89.5	**PF**	86					
RATING	40C AMB-CONT							
CC	010A							
DE	6309	**ODE**	6206					
ENCL	TEFC	**SN**						

AC Induction Motor Performance Data
Record # 46530
Typical performance - not guaranteed values

Winding: 07WGY328-R005	**Type:** 0726M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	11.2 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			18/9	**Breakdown Torque**	38.8 LB-FT
R.P.M.			3510	**Pull-up Torque**	20.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	23.5 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	61.1 A
Service Factor (S.F.)			1.15	**No-load Current**	3.54 A
NEMA Nom. Eff.	89.5	**Power Factor**	86	**Line-line Res. @ 25ºC**	1.19 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	44°C
S.F. Amps				**Temp. Rise @ S.F. Load**	53°C
				Locked-rotor Power Factor	34
				Rotor inertia	0.237 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	52	74	82	87	90	89	89
Efficiency	83.8	89.4	90.5	90.7	89.6	88.3	90
Speed	3581	3559	3537	3512	3486	3456	3496
Line amperes	4.04	5.31	7.04	8.9	10.9	13.3	10.1

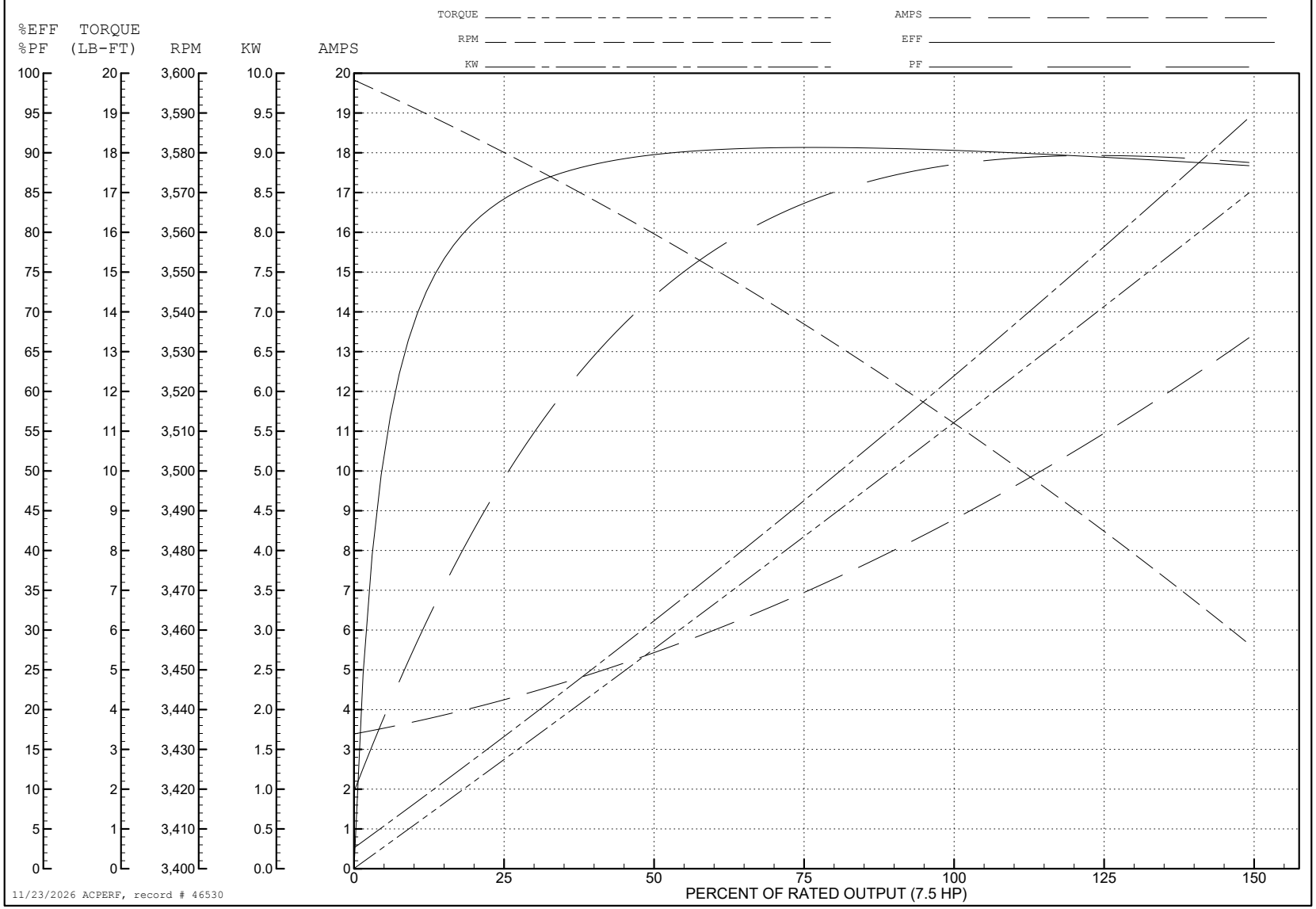
ABB Motors and Mechanical Inc.

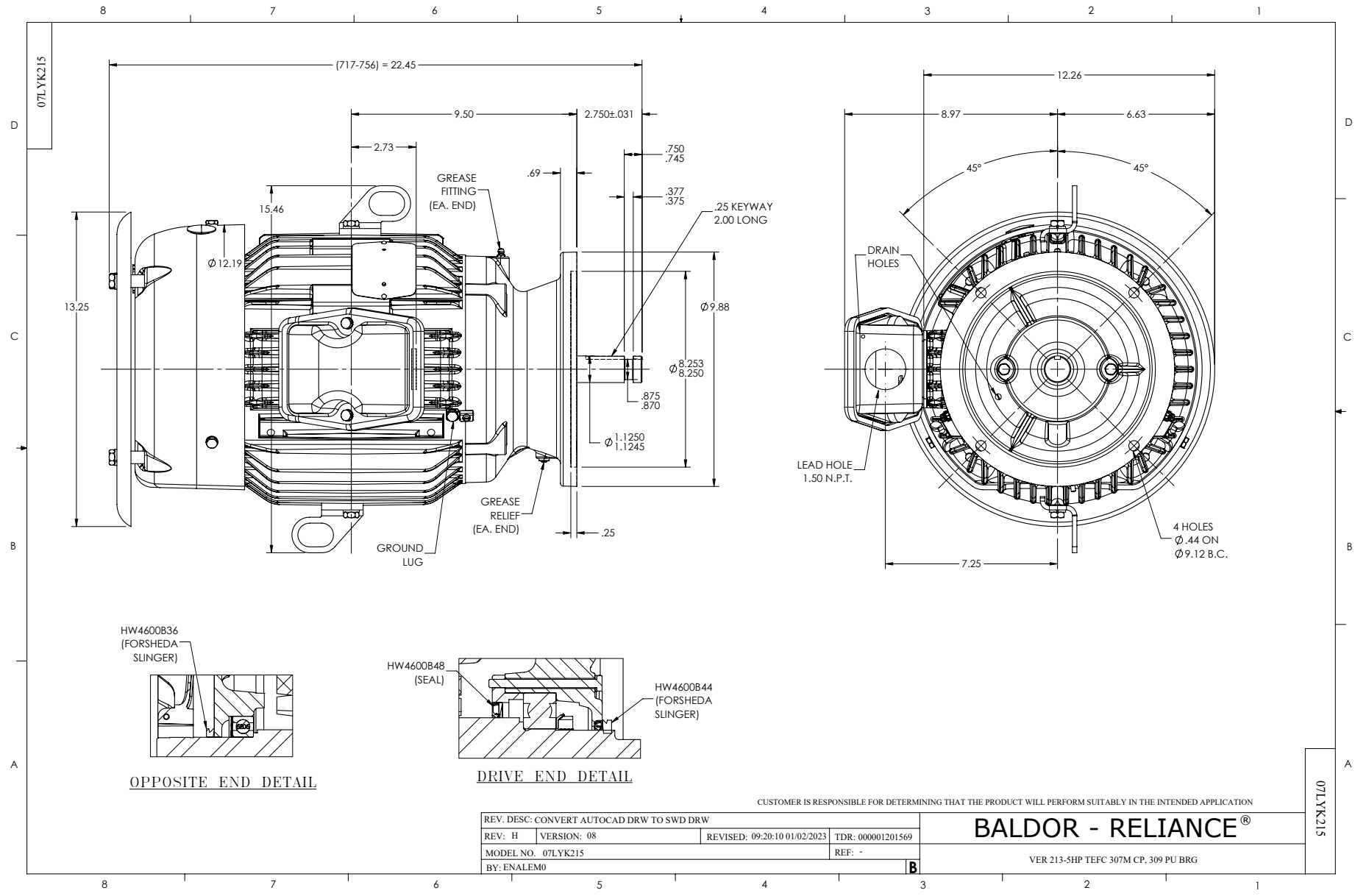
WINDING # 07WGY328

7.5 HP 3 PH 60 HZ 3510 RPM 460 V 0726M

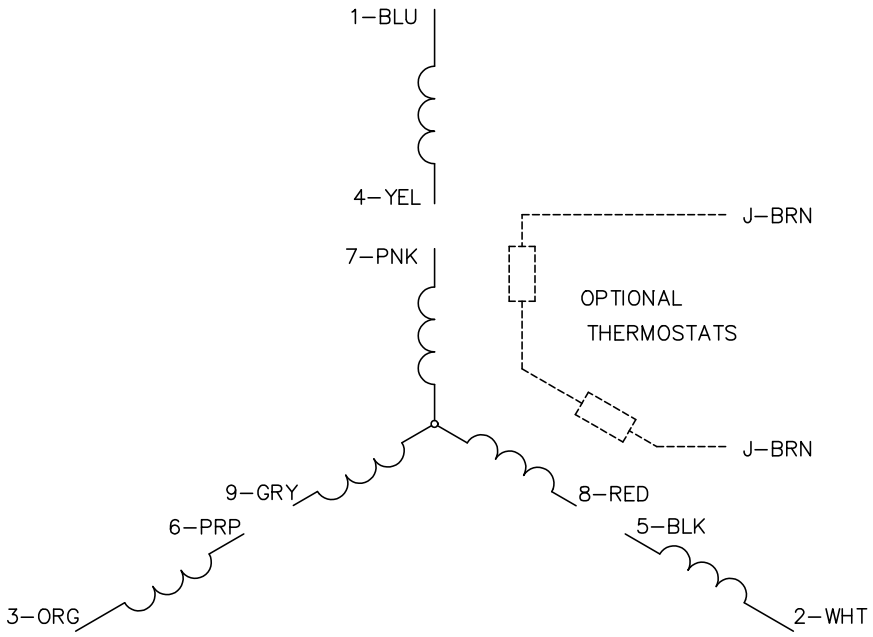
TORQUES(LB-FT): PO=38.8 PU=20.4 LR=23.5 LRA=61.1

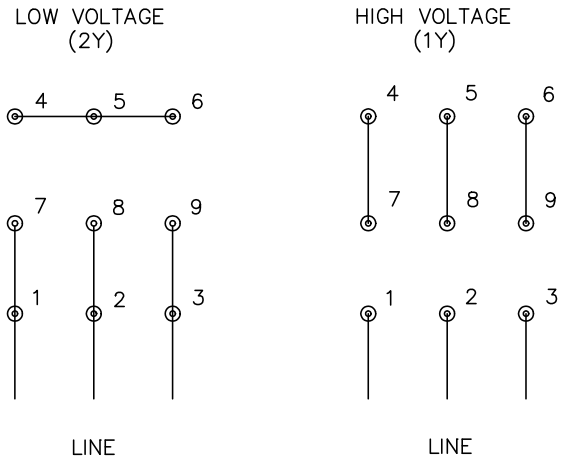
Typical performance - not guaranteed values.




07LYK215
(717-756) = 22.45
9.50
2.750±.031
2.73
.69
.750
.745
.377
.375
GREASE FITTING (EA. END)
.25 KEYWAY 2.00 LONG
15.46
Ø12.19
13.25
Ø9.88
Ø8.253
8.250
.875
.870
Ø1.1250
1.1245
GREASE RELIEF (EA. END)
.25
GROUND LUG
12.26
8.97
6.63
45°
45°
DRAIN HOLES
LEAD HOLE 1.50 N.P.T.
4 HOLES Ø.44 ON Ø9.12 B.C.
7.25
HW4600B36 (FORSHEDA SLINGER)
OPPOSITE END DETAIL
HW4600B48 (SEAL)
HW4600B44 (FORSHEDA SLINGER)
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: H
VERSION: 08
REVISED: 09:20:10 01/02/2023
TDR: 000001201569
MODEL NO. 07LYK215
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VER 213-5HP TEFC 307M CP, 309 PU BRG
07LYK215

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