ABB BALDOR RELIANCE

Customer information packet

18G116W732

400HP, 3550RPM, 3PH, 60HZ, 447TS, 18116M, ODP
Class -
Division - Not Applicable

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Specifications

Enclosure	ODP
Frame	447TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Output @ Frequency	400.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Ambient Temperature	40 °C
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	428.000 A @ 460.0 V
Design Code	B
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	428.0 a
Insulation Class	F
KVA Code	A
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	12 @ 2 AWG
Motor Standards	NEMA
Motor Type	18116M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	44.43 IN
Power Factor	92
Product Family	General Purpose
Pulley End Bearing Type	Ball
Service Factor	1.15

Part Detail

Revision	E
Type	AC
Mech. spec.	18G116
Base	
Status	NLA/A
Elec. spec.	18WGW732
Layout	18LYG116
Eff. date	01-28-2011
CD Diagram	CD0382
Poles	02
Leads	6#2 (02 per group)
Proprietary	False
Created date	05-08-2008

Shaft Rotation	Reversible
Speed	3550 rpm
Starting Method	Wye Start - Delta Run
Thermal Device - Winding	None

Nameplate

127X0022									
CAT.NO.			**SPEC.**	18G116W732					
HP	400	**RPM**	3550		**FRAME**	447TS			
HZ	60	**SER.F.**	1.15						
VOLTS	460		**AMPS**	428			**PHASE**	3	
ENCL	ODP	**TYPE**	P						
FL EFF	95.4		**FL PF**	92		**CL**	F		
T RISE		**MX AMB**	40						
DESIGN	B	**CODE**	A	**DUTY**	CONT				
DE BRG	6319		**ODE BRG**	6314		**GREASE**	POLYREX EM		
WEIGHT	2500	**S/N**					**MTG**	F1	

AC Induction Motor Performance Data
Record # 14468
Typical performance - not guaranteed values

Winding: 18WGW732-R001	**Type:** 18116M	**Enclosure:** OPEN

Nameplate Data				**460 V, 60 Hz: Run Connection**	
Rated Output (HP)			400	**Full Load Torque**	590 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			428	**Breakdown Torque**	2716 LB-FT
R.P.M.			3550	**Pull-up Torque**	1035 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	1327 LB-FT
NEMA Design Code	B	**KVA Code**	A	**Starting Current**	2822 A
Service Factor (S.F.)			1.15	**No-load Current**	75 A
NEMA Nom. Eff.	95.4	**Power Factor**	92	**Line-line Res. @ 25ºC**	0.0125 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	79°C
S.F. Amps				**Temp. Rise @ S.F. Load**	92°C

Load Characteristics 460 V, 60 Hz, 400 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	82	90	91	92	91	89	91
Efficiency	93.5	94.8	95.5	95.3	95	94.4	95.1
Speed	3588	3576	3563	3549	3535	3518	3541
Line amperes	160	240	332	424	534	649	490

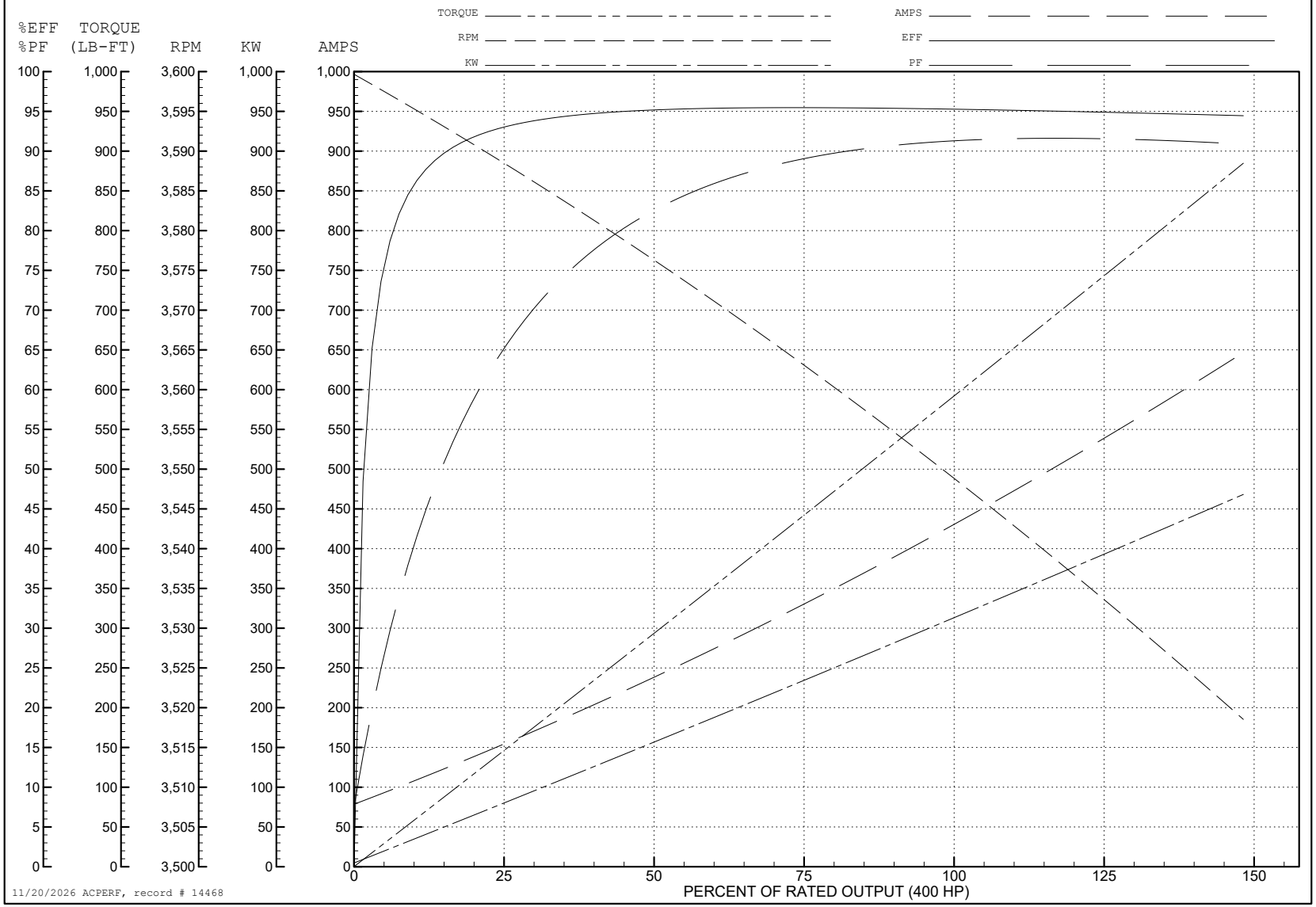
ABB Motors and Mechanical Inc.

WINDING # 18WGW732

400 HP 3 PH 60 HZ 3550 RPM 460 V 18116M

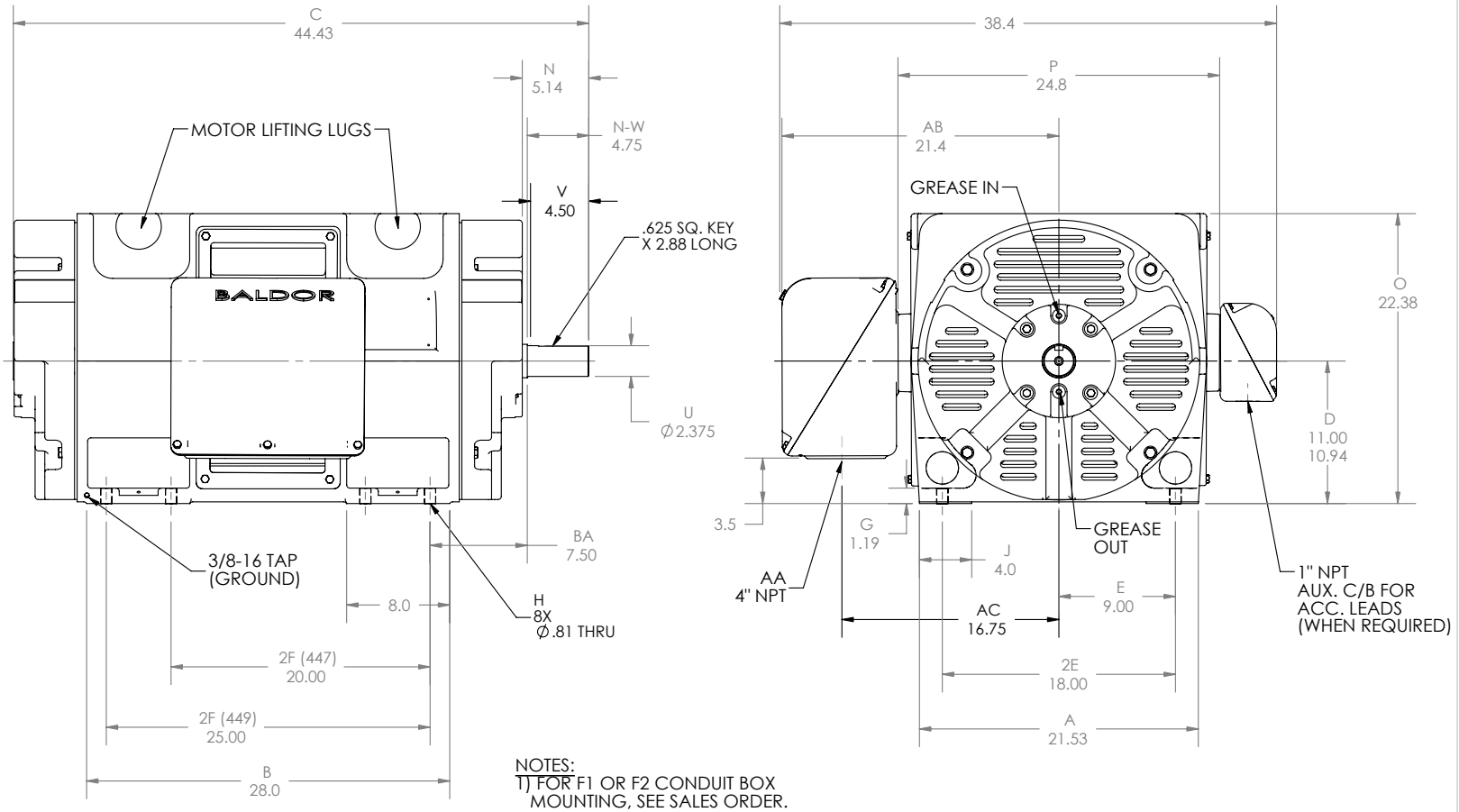
TORQUES(LB-FT): PO=2716 PU=1035 LR=1327 LRA=2822

Typical performance - not guaranteed values.



11/20/2026 ACPERF, record # 14468

18LYG116



NOTES:
1) FOR F1 OR F2 CONDUIT BOX MOUNTING, SEE SALES ORDER.
2) ACCESSORY CONDUIT BOX PROVIDED AS NEEDED FOR RTDS, SP. HTRS, ETC.
3) ALL CONDUIT BOXES CAN BE ROTATED IN 90 DEG INCREMENTS.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION

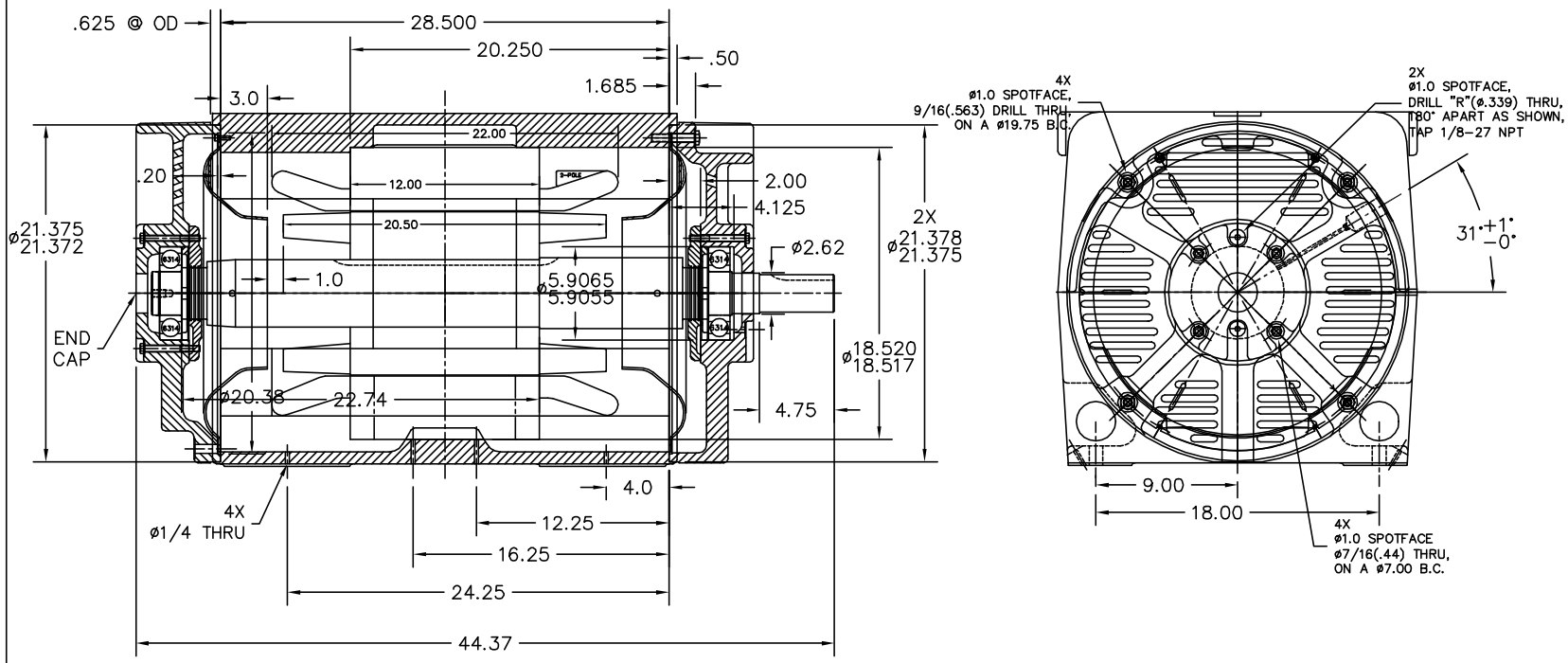
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18LYG116	MODEL NO.		REF:
	BY: CHJERW0		

BALDOR ELECTRIC Co.

447-9TS,2P,ODP,STANDARD

18LYG116

18LY0001

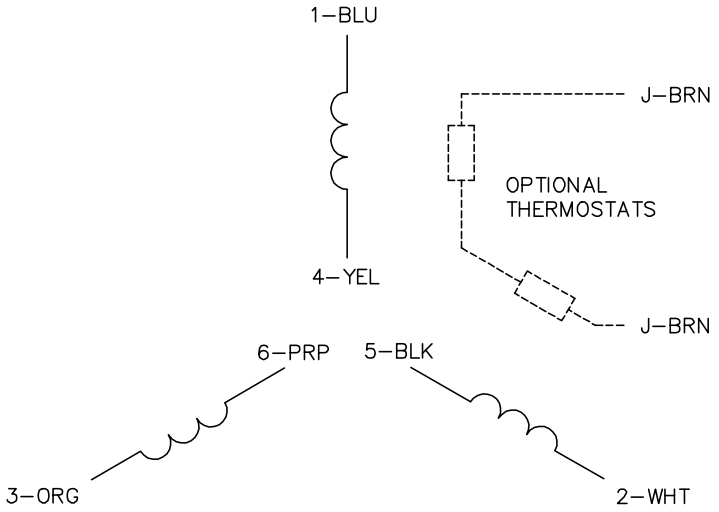


CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

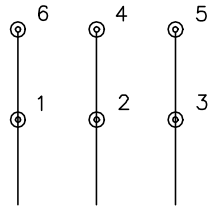
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18LY0001		FILE: CHB00009358	REF: 18LY0001
		MTL: –	447–449,2–POLE CROSS–SECTIONAL LAYOUT

18LY0001

CD0382

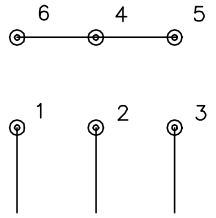


RUN CONNECTION
(1D)



LINE

START CONNECTION
(1Y)



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.
5. FOR ACROSS–THE–LINE STARTING, USE 'RUN' CONNECTION.

CD0382

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: F	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\243	REVISED: 09:05:32 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 6 LEADS, Y START/D RUN

SH 1 of 1