ABB BALDOR RELIANCE

Customer information packet

18G116Y134

450HP, 3560RPM, 3PH, 60HZ, 447TS, 18120M, 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	450.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Ambient Temperature	40 °C
Auxiliary Box	AUXILLARY BOX
Auxiliary Box Lead Termination	Flying Leads
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	472.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	472.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box

Part Detail

Revision	Q
Type	AC
Mech. spec.	18G116
Base	
Status	NLA/A
Elec. spec.	18WGY134
Layout	18LY0001
Eff. date	07-19-2011
CD Diagram	CD0006
Poles	02
Leads	3#2 (04 per group)
Proprietary	False
Created date	09-02-2005

Motor Lead Quantity/Wire Size	12 @ 2 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	18120M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	44.43 IN
Power Factor	92
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3560 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	Both Bearings
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor

Nameplate

NP1618													
CAT.NO.				**SPEC.**	18G116Y134								
HP	450	**RPM**	3560		**FRAME**	447TS		**HZ**	60	**SER.F.**	1.15		
VOLTS	460	**AMPS**	472		**PHASE**	3	**TYPE**	P	**ENCL**	ODP			
FL EFF	95.4	**FL PF**	92	**CL**	F	**T RISE**							
DESIGN	B	**CODE**	G	**DUTY**	CONT	**MX AMB**	40						
DE BRG	6319			**ODE BRG**	6314			**GREASE**	POLYREX EM				
WEIGHT	2500			**S/N**				**MTG**	F1				
THERM-WDG					**THERM-QTY**			**THERM-BRG**					
SPC-HTR-WATTS		**HTR-V**				**SPC-HTR-QTY**							
BLANK													

AC Induction Motor Performance Data
Record # 21413
Typical performance - not guaranteed values

Winding: 18WGY134-R001	**Type:** 18120M	**Enclosure:** OPEN

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			450	**Full Load Torque**	665 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			472	**Breakdown Torque**	1758 LB-FT
R.P.M.			3560	**Pull-up Torque**	663 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	808 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	3382 A
Service Factor (S.F.)			1.15	**No-load Current**	81 A
NEMA Nom. Eff.	95.4	**Power Factor**	92	**Line-line Res. @ 25ºC**	0.0106 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	62°C
S.F. Amps				**Temp. Rise @ S.F. Load**	73°C

Load Characteristics 460 V, 60 Hz, 450 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	77	89	92	93	92	92	92
Efficiency	93.4	95.3	95.6	95.6	95.3	94.9	95.4
Speed	3593	3584	3574	3564	3552	3538	3557
Line amperes	143	244	350	462	575	703	530

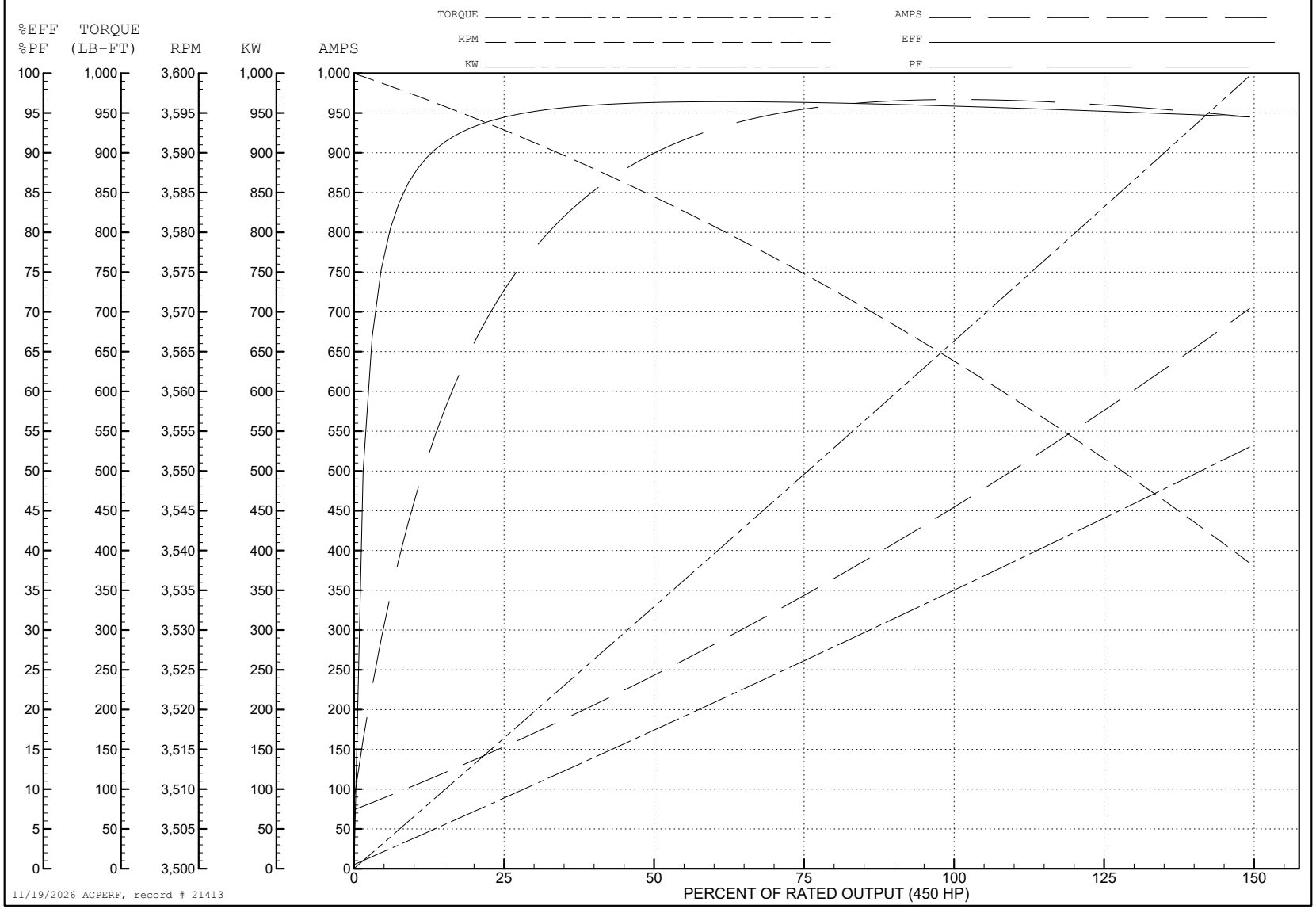
ABB Motors and Mechanical Inc.

WINDING # 18WGY134

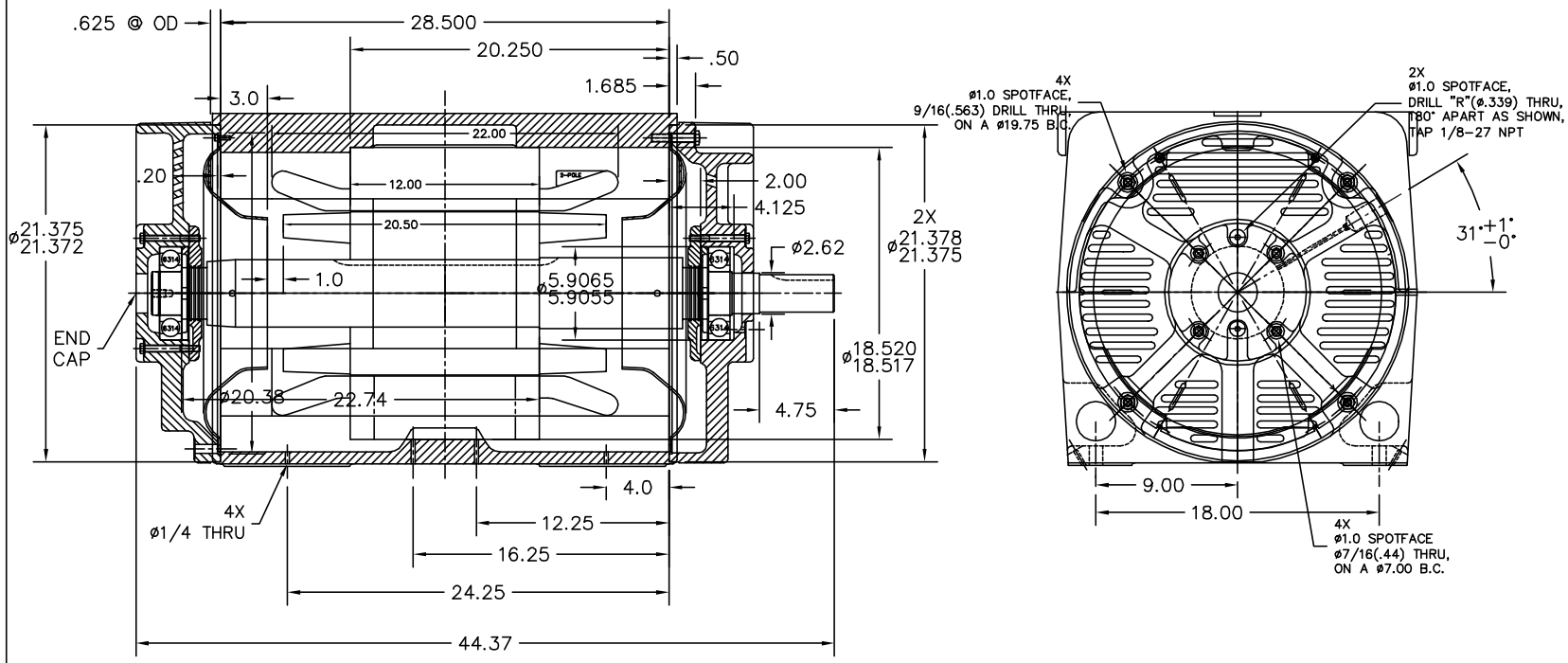
450 HP 3 PH 60 HZ 3560 RPM 460 V 18120M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=1758 PU=663 LR=808 LRA=3382



18LY0001

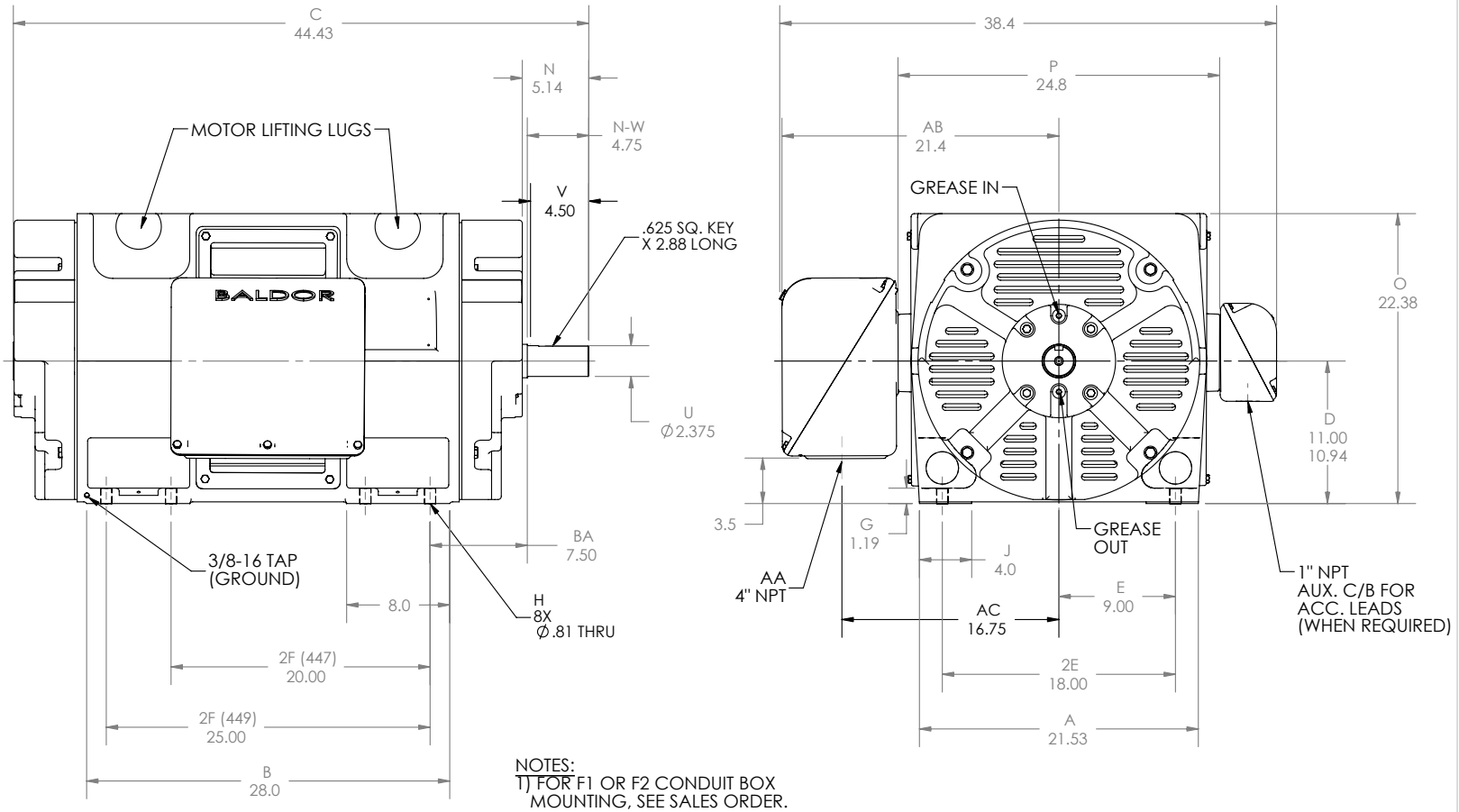


CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: UPDATE LOCATION SHOWN FOR THE "A" DIM.			BALDOR ELECTRIC Co.
REV. LTR: A	BY: JMW	REVISED: 12:58:01 05/23/2002	TDR: 269837
18LY0001		FILE: CHB00009358	REF: 18LY0001
		MTL: –	447–449,2–POLE CROSS–SECTIONAL LAYOUT

18LY0001

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

REV. DESC: IDL TO BUS			
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18LYG116	MODEL NO.		REF:
	BY: CHJERW0		

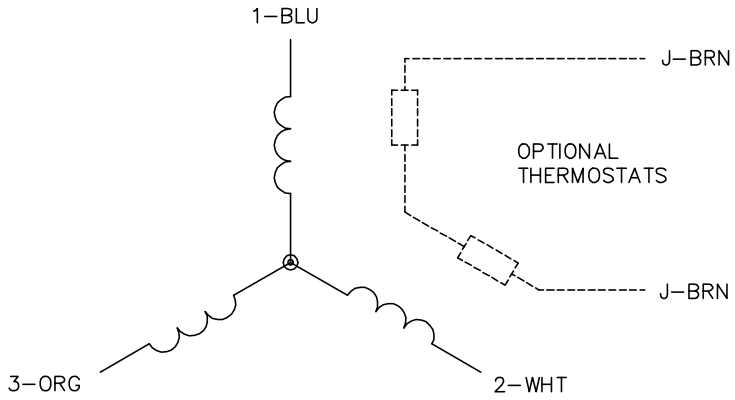
BALDOR ELECTRIC Co.

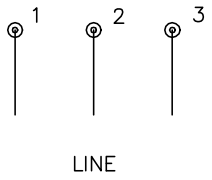
447-9TS,2P,ODP,STANDARD

18LYG116

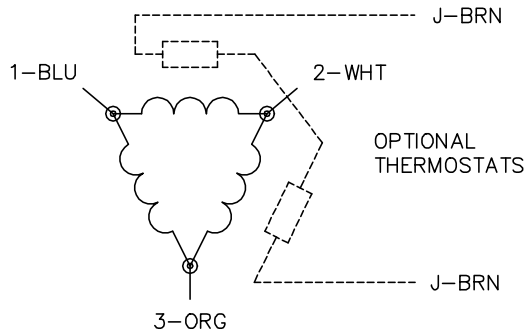
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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		
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FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

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

SH 1 of 1