ABB BALDOR RELIANCE

Customer information packet

UCLE3145

3-4.5HP, 3450RPM, 1PH, 60HZ, 3540LC, N
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	145TZ
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	4.500 HP @ 60 HZ
	3.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	CSA
	UR
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
Current @ Voltage	12.500 A @ 230.0 V
	20.000 A @ 208.0 V
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
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	12.5 a
Insulation Class	F

Part Detail

Revision	W
Type	AC
Mech. spec.	35E2504
Base	
Status	PRD/A
Elec. spec.	35WGT164
Layout	35LYE2504
Eff. date	01-02-2025
CD Diagram	CD0017A02
Poles	02
Leads	2#14 A PH 30" leads,2#18 B PH 30" leads Y
Proprietary	False
Created date	03-06-2014

Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Pipe Or Pipe Adaptor
Motor Lead Quantity/Wire Size	2 @ 14 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3540LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.62 IN
Power Factor	97
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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

NP1279L											
CAT.NO.	UCLE3145										
SPEC.	35E2504T164G1										
HP	3-4.5										
VOLTS	230										
AMP	12.5-18.5										
RPM	3450										
FRAME	143TZ	**HZ**	60	**PH**	1						
SER.F.	1.00	**CODE**	K	**DES**	-	**CL**	F				
NEMA-NOM-EFF	82.5	**PF**	97								
RATING	40C AMB-CONT										
CC											
DE	6206	**ODE**	6203								
ENCL	TEAO	**SN**									

NP1263L							
CAT.NO.	UCLE3145						
SPEC.	35E2504T164G1						
HP	3-4.5						
VOLTS	230						
AMP	12.5-18.5						
RPM	3450						
FRAME	143TZ	**HZ**	60	**PH**	1		
SER.F.	1.00	**CODE**	K	**DES**	-	**CL**	F
NEMA-NOM-EFF	82.5	**PF**	97				
RATING	40C AMB-CONT						
CC							
DE	6206	**ODE**	6203				
ENCL	TEAO	**SN**					

Accessories

Part number	Description	Multiplier
35-3300FD	C FACE KIT FARM DUTY 143-5TC ENCL, 6205	A8

AC Induction Motor Performance Data
Record # 9277
Typical performance - not guaranteed values

Winding: 35WGT164-R001	**Type:** 3540LC	**Enclosure:** TEAO

Nameplate Data				**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			3-4.5	**Full Load Torque**	6.6 LB-FT
Volts			230	**Start Configuration**	direct on line
Full Load Amps			12.5-18.5	**Breakdown Torque**	14.6 LB-FT
R.P.M.			3450	**Pull-up Torque**	8 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	11.7 LB-FT
NEMA Design Code	-	**KVA Code**	K	**Starting Current**	108 A
Service Factor (S.F.)			1	**No-load Current**	2.7 A
NEMA Nom. Eff.	82.5	**Power Factor**	97	**Line-line Res. @ 25ºC**	0.519 Ω A Ph 1.58 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	

Load Characteristics 230 V, 60 Hz, 4.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	95	97	98	97	97	96
Efficiency	69.1	78.6	82.3	79.6	78.3	73.5
Speed	3566	3539	3507	3473	3421	3364
Line amperes	5.9	9.5	13.9	18.2	24.1	30.5

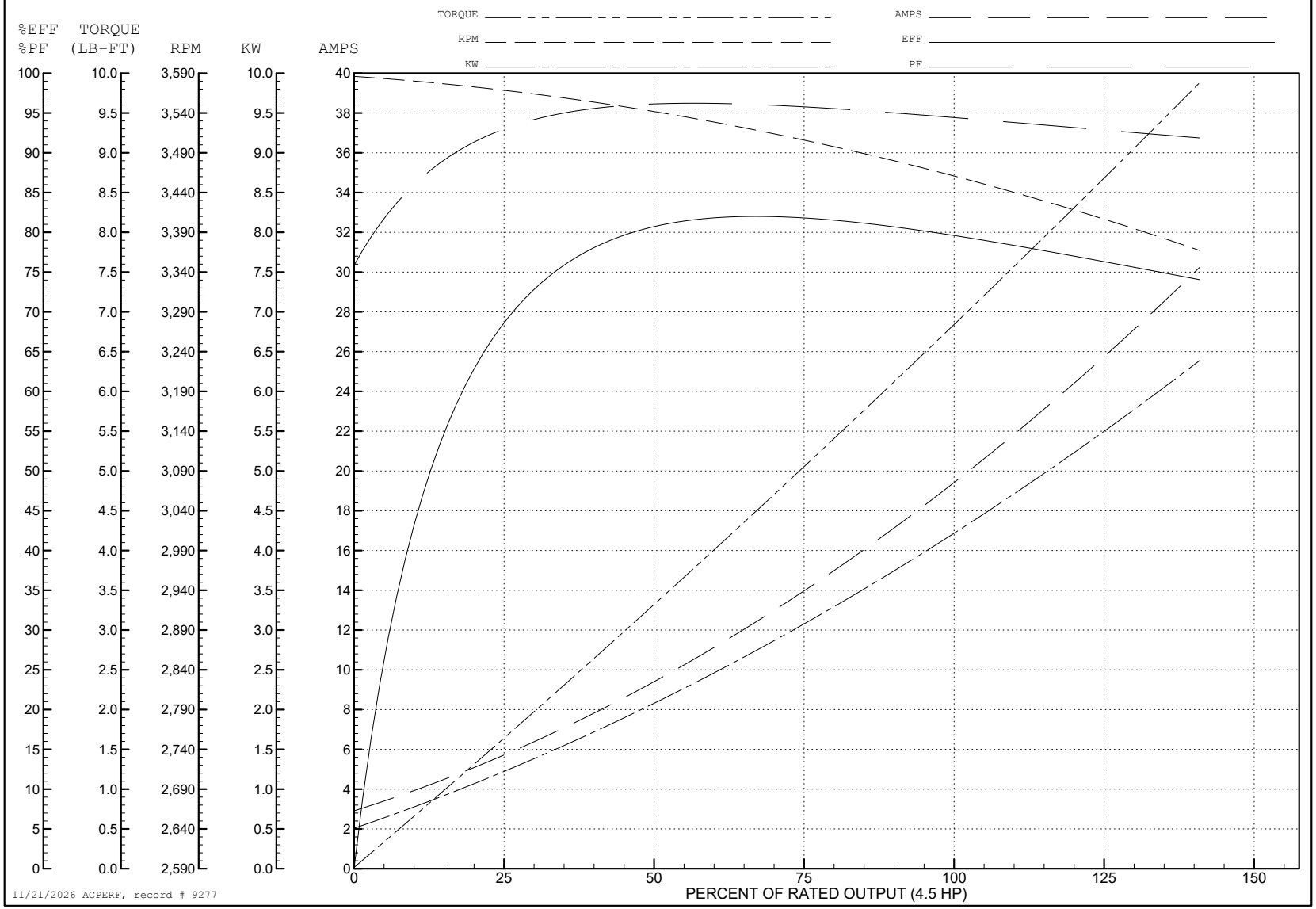
ABB Motors and Mechanical Inc.

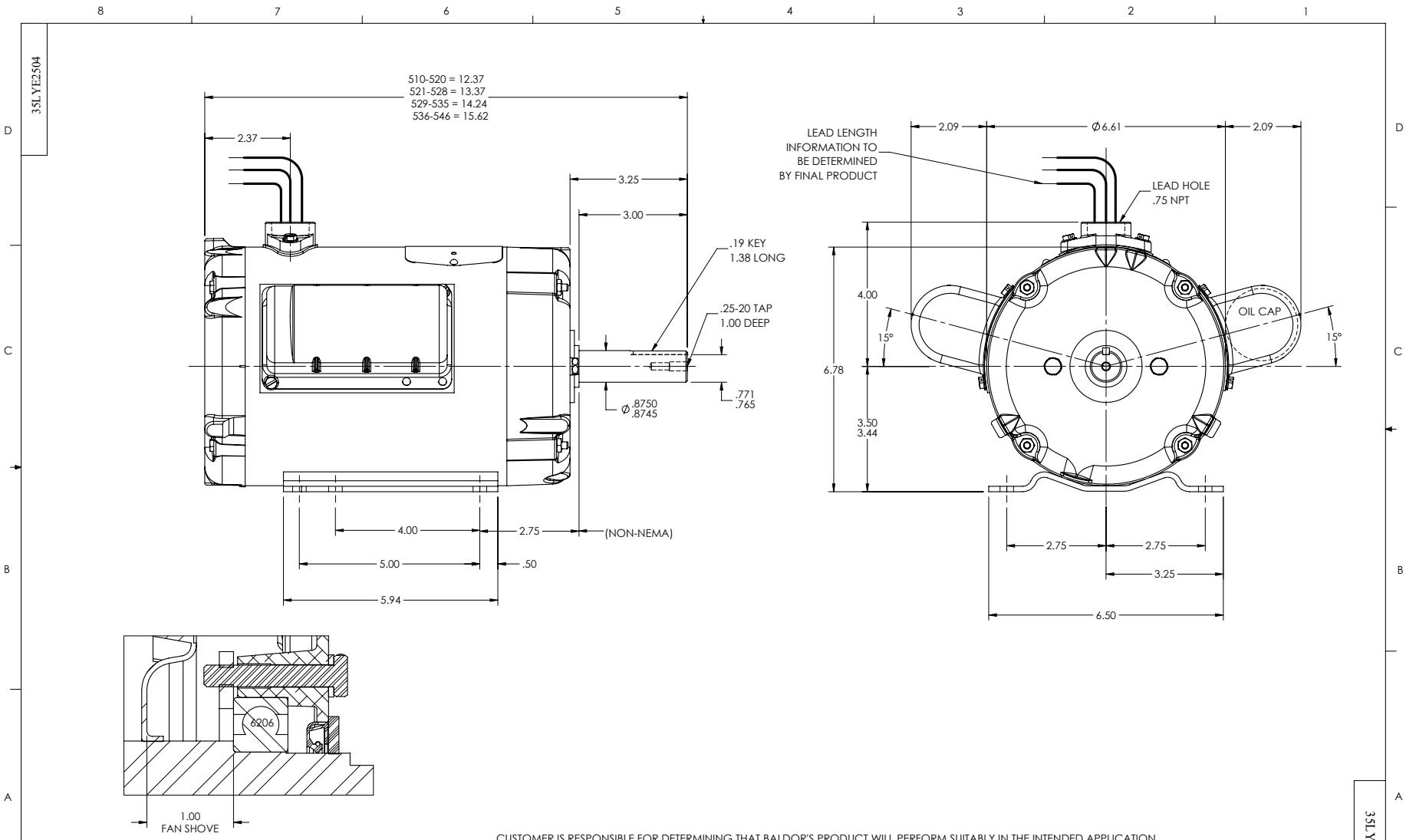
WINDING # 35WGT164

4.5 HP 1 PH 60 HZ 3450 RPM 230 V 3540LC

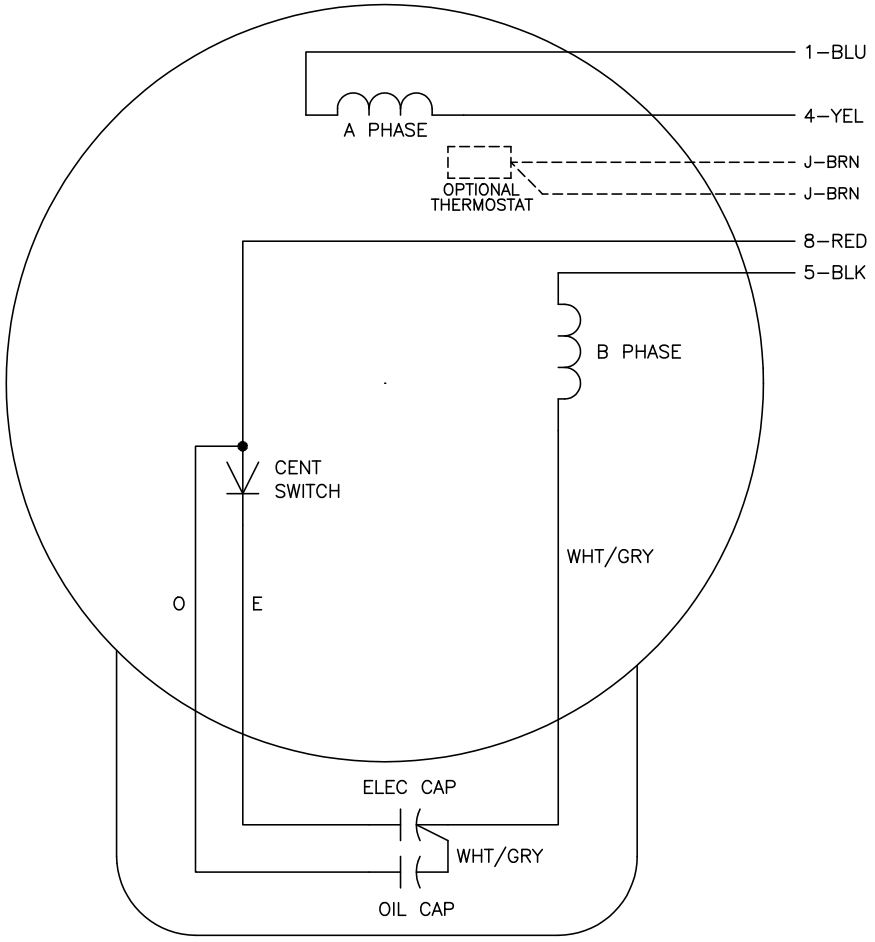
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=14.6 PU=8 LR=11.7 LRA=108




35LYE2504
510-520 = 12.37
521-528 = 13.37
529-535 = 14.24
536-546 = 15.62
2.37
3.25
3.00
.19 KEY
1.38 LONG
.25-20 TAP
1.00 DEEP
.771
.765
Ø.8750
.8745
4.00
2.75
(NON-NEMA)
5.00
.50
5.94
LEAD LENGTH
INFORMATION TO
BE DETERMINED
BY FINAL PRODUCT
2.09
Ø6.61
2.09
LEAD HOLE
.75 NPT
4.00
15°
OIL CAP
15°
6.78
3.50
3.44
2.75
2.75
3.25
6.50
6206
1.00
FAN SHOVE
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: ADD OIL CAP CALLOUT & LOC
REV: F
VERSION: 06
REVISED: 02:11:49 05/12/2022
TDR: 000001190390
MODEL NO: 35LYE2504
REF: -
BY: USMAHAD
Material: -
B
BALDOR - RELIANCE®
HOR 143-5TZ TENV 35LC W/(2)L CAP BXS, 2P BASE 35BA4009, SEAL
SH 1 OF 1
35LYE2504

CD0017A02



	LINE A	LINE B
STD	1,8	4,5
OPP	1,5	4,8

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: B	BY: JLP	REVISED: 04/09/99 11:30	TDR: 0178636
CD0017A02		FILE: AAA00007514	MDL: –
		MTL: –	TYPE LC, SV, REV, 4 LEADS

CD0017A02