

ABB BALDOR RELIANCE III

Customer information packet

UCLE3145

3-4.5HP, 3450RPM, 1PH, 60HZ, 3540LC, N

Class - None

Division - Not Applicable

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							

Parts List

Part number	Description	Quantity
SA277855	SA 35E2504T164G1	1.000 ea
RA264403	RA 35E2504T164G1	1.000 ea
OC3040F18SP	7YL OIL CAP 40MFD/370V	1.000 ea
EC1216C06SP	ELEC CAP, 216-259 MFD, 250V, 2.06D X 4.	1.000 ea
WD3006A01	RSS-2-103JT 2W 10K RES. METAL OXIDE 5%	1.000 ea
HA6021A01SP	ADAPTOR, MACH	1.000 ea
36GS5000	GASKET CONDUIT ADAPTOR	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35EP3122F00	MASTER ODE,203 BRG,#26 DRN	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
35CB4802A02SP	CAPACITOR COVER, STAMPED X	2.000 ea
35GS3001A02	GASKET, CA.COVER, 5.38 LONG .06 CS301	2.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	4.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
10XN2520A24	1/4-20X 1 1/2 HEX HD X	2.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea
35EP3113B06	PU EP ENCL,06 BRG, SEAL, W/O GREASER	1.000 ea
HW4600H12	SEAL 1.156 X 1.874 X 0.250 SINGLE LIP DB	1.000 ea
HA1005A22	SLINGER, OD 2.00, ID 1.14, 206 BRG, GM	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LD5000A642	LEAD ASSY, ML1400DF14 W/#10 RING 36"	1.000 ea
WD1000A16	2-520128-2 AMP FLAG TERMINAL(4M/RL)	2.000 ea
MG1025C02	WILKOFAST SG, 787.105, TAN	0.017 ga
SP5181A33	MODEL 35 LC TORQ STAT SWITCH LEAD ASSY	1.000 ea
HA3100A42	THRUBOLT 10-32 X 12.000	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0017	CONN LABEL-1 PHASE-SINGLE VOLT-REV ROTNO	1.000 ea

NP1279L	ALUM FARM DUTY UL CSA CC	1.000 ea
NP1263L	AUX, GP, ALUM, CC, LASER ETCHED	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

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. @ 25°C	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

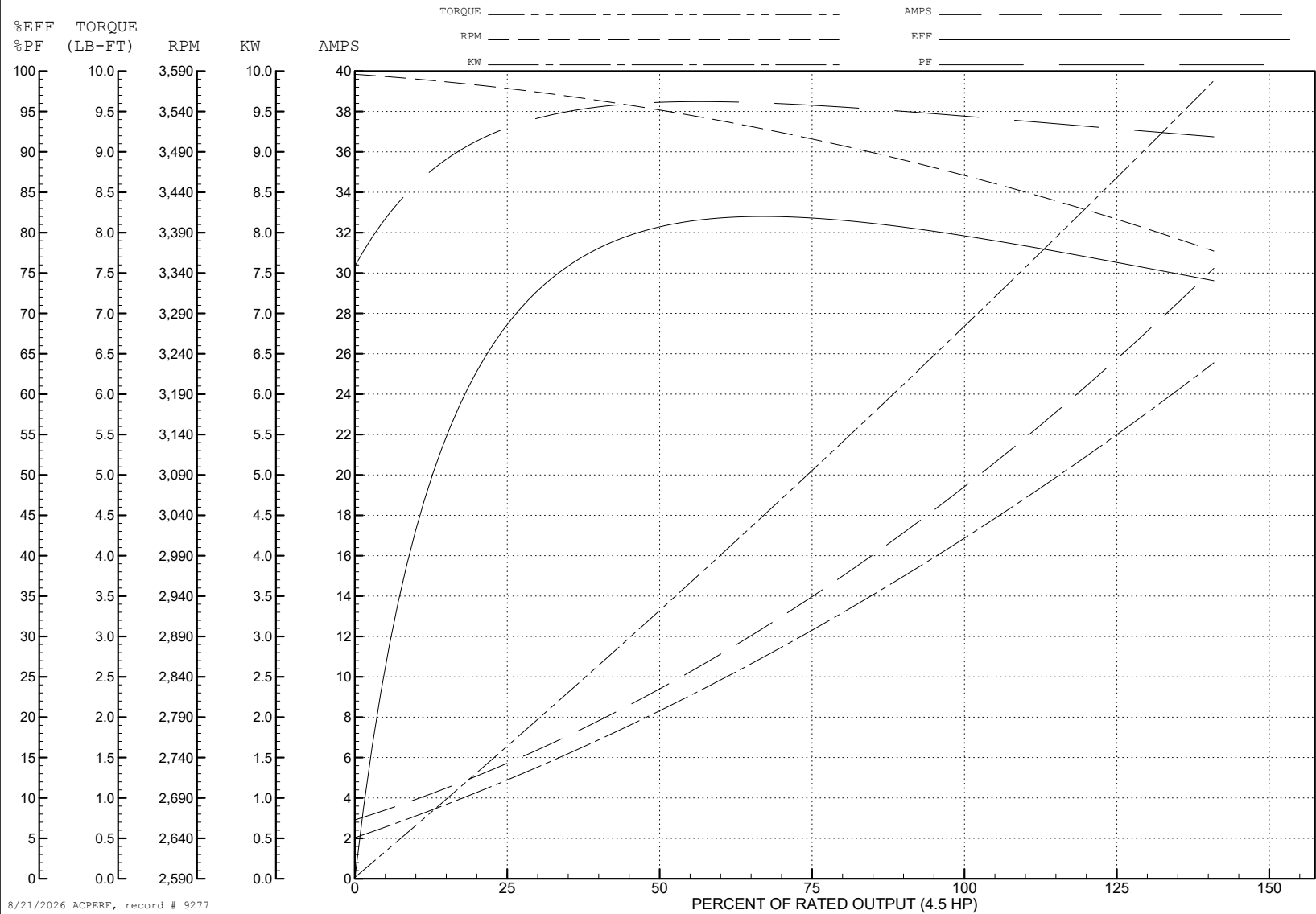
ABB Motors and Mechanical Inc.

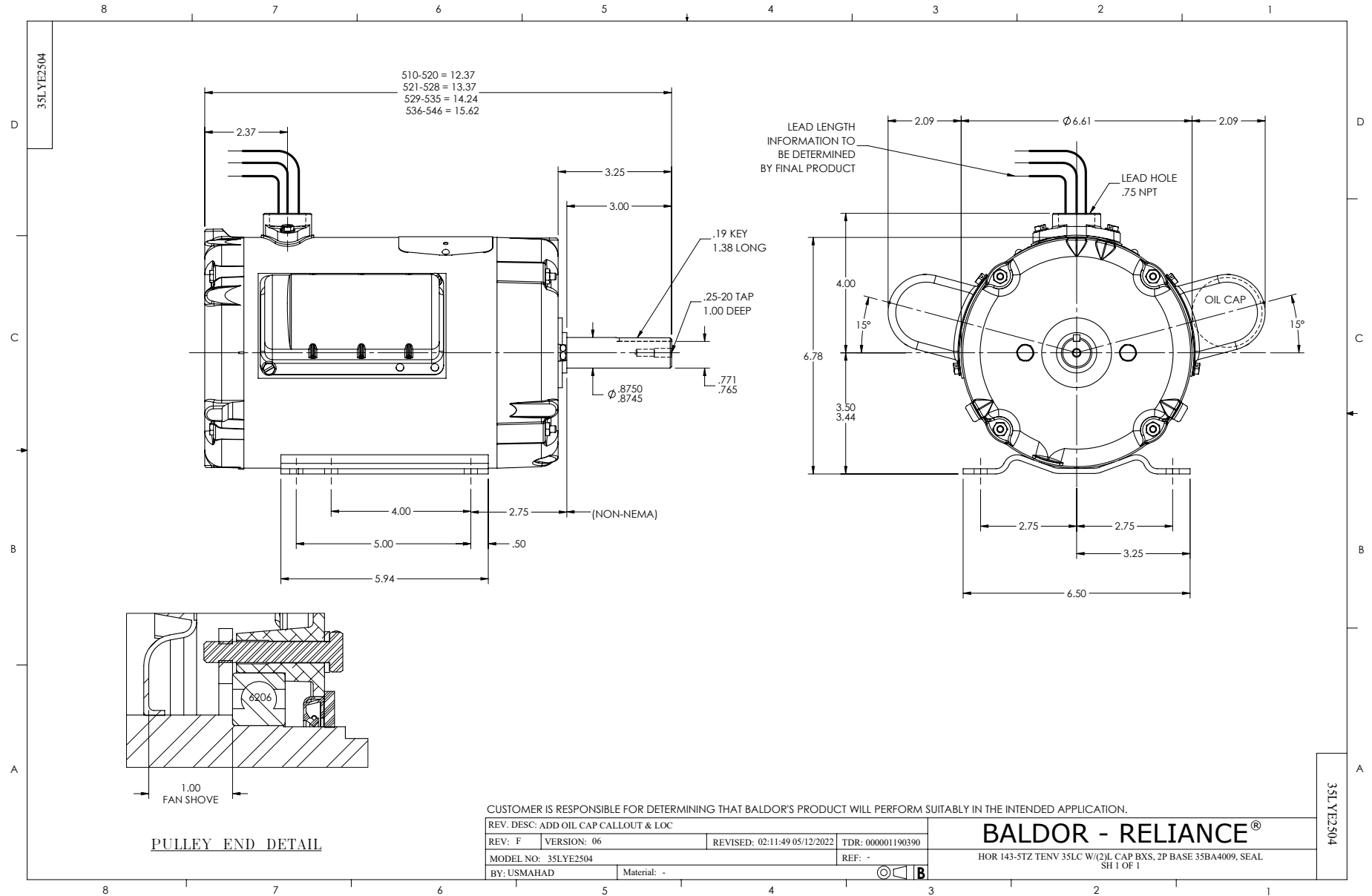
WINDING # 35WGT164

Typical performance - not guaranteed values.

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

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





CD0017A02

