

ABB BALDOR RELIANCE III

Customer information packet

UCL3145

3-4.5HP, 3450RPM, 1PH, 60HZ, 145TZ, 3540LC

Class - None

Division - Not Applicable

Specifications

Enclosure	OLC
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	14.300 A @ 230.0 V 21.500 A @ 208.0 V
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.8 %
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	14.3 a
Insulation Class	F

Part Detail

Revision	AR
Type	AC
Mech. spec.	35T926
Base	
Status	PRD/A
Elec. spec.	35WGT819
Layout	35LYT926
Eff. date	01-02-2025
CD Diagram	CD0017A02
Poles	02
Leads	2#12 A PH 30"LG,2#18 B PH Y
Proprietary	False
Created date	06-22-2007

Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Pipe Or Pipe Adaptor
Motor Lead Quantity/Wire Size	2 @ 12 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	91
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
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.	UCL3145								
SPEC.	35T926T819								
HP	3-4.5 AIR OVER								
VOLTS	230								
AMP	14.3-20								
RPM	3450								
FRAME	145TZ	HZ	60		PH	1			
SER.F.	1.00	CODE	J	DES	-	CL	F		
NEMA-NOM-EFF	77.8	PF	91						
RATING	40C AMB-CONT								
CC									
DE	6206	ODE	6203						
ENCL	OLC	SN							

NP1263L									
CAT.NO.	UCL3145								
SPEC.	35T926T819								
HP	3-4.5 AIR OVER								
VOLTS	230								
AMP	14.3-20								
RPM	3450								
FRAME	145TZ			HZ	60		PH	1	
SER.F.	1.00	CODE	J	DES	-	CL	F		
NEMA-NOM-EFF	77.8	PF	91						
RATING	40C AMB-CONT								
CC									
DE	6206	ODE	6203						
ENCL	OLC	SN							

AC Induction Motor Performance Data

Record # 9620

Typical performance - not guaranteed values

Winding: 35WGT819-R001			Type: 3540LC		Enclosure: OPAO		
Nameplate Data				230 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		3-4.5 AIR OVER		Full Load Torque		6.8 LB-FT	
Volts		230		Start Configuration		direct on line	
Full Load Amps		14.3-20		Breakdown Torque		17 LB-FT	
R.P.M.		3450		Pull-up Torque		10.5 LB-FT	
Hz		60	Phase	1	Locked-rotor Torque		13 LB-FT
NEMA Design Code		- KVA Code		J	Starting Current		136 A
Service Factor (S.F.)		1		No-load Current		7.1 A	
NEMA Nom. Eff.		77.8	Power Factor	91	Line-line Res. @ 25°C		0.462 Ω A Ph 2.24 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	70	83	89	92	93	93
Efficiency	57.4	71.5	76.8	78.5	78.4	77.1
Speed	3569	3544	3516	3486	3451	3409
Line amperes	9.2	12.3	16	20.3	25	30.4

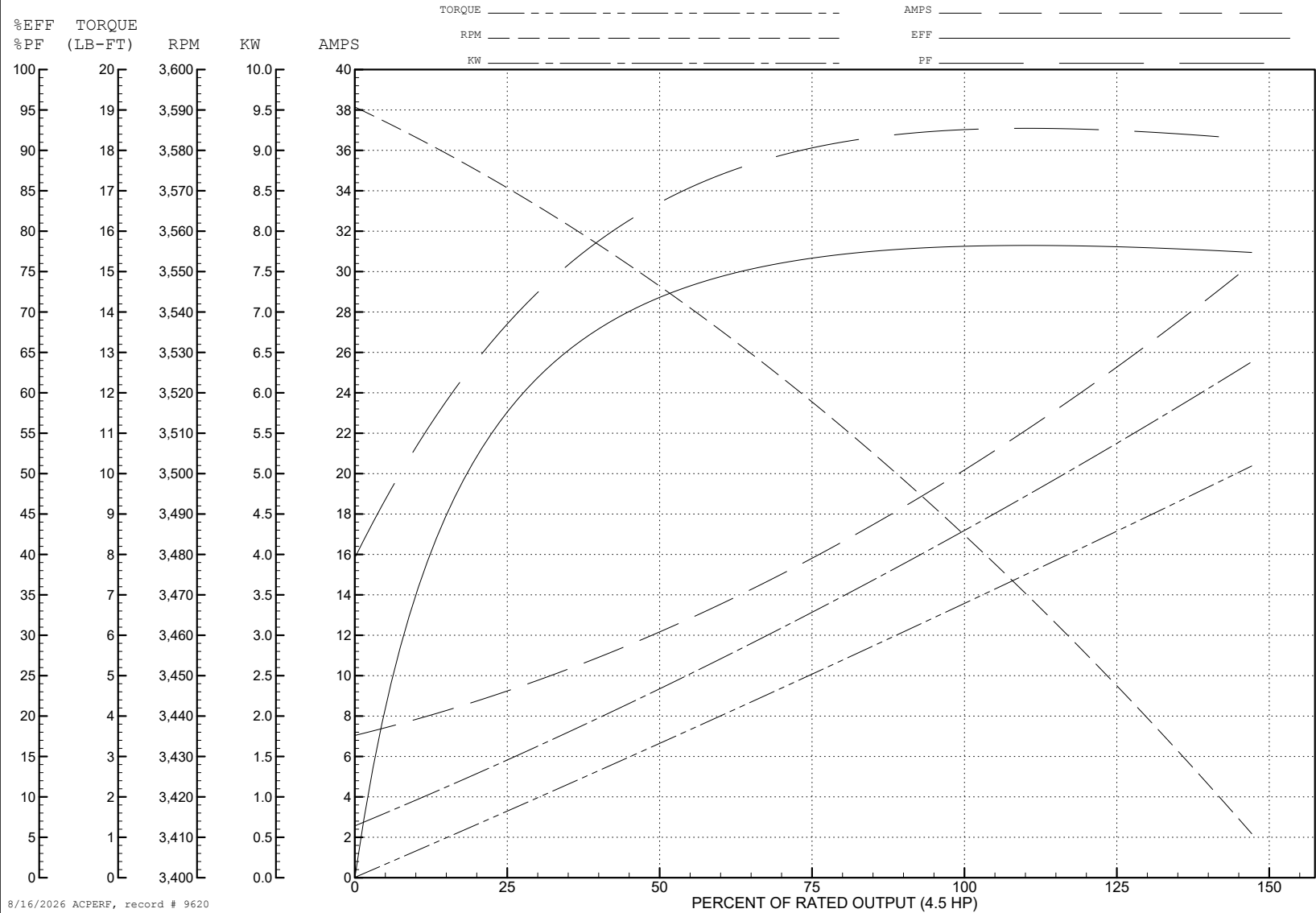
ABB Motors and Mechanical Inc.

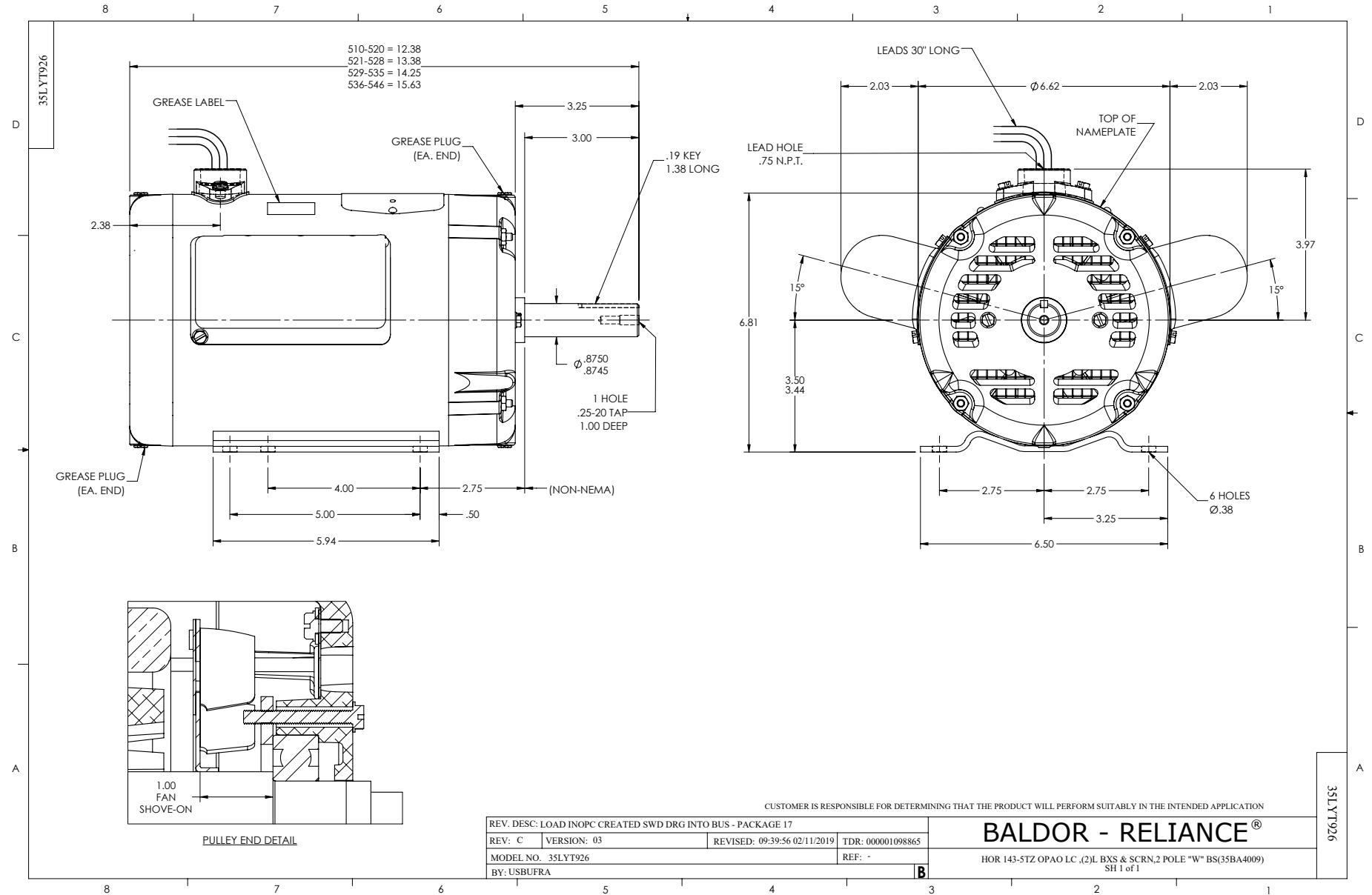
WINDING # 35WGT819

Typical performance - not guaranteed values.

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

TORQUES (LB-FT): PO=17 PU=10.5 LR=13 LRA=136





CD0017A02

