

ABB BALDOR RELIANCE III

Customer information packet

VFDFL3516TM

2HP, 1740RPM, 1PH, 60HZ, 145TC, 3534LC, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145TC
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	2.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	CURUS
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	8.200 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	8.2 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs

Part Detail

Revision	A
Type	AC
Mech. spec.	35E3081
Base	
Status	PRD/A
Elec. spec.	35WGG819
Layout	35LYE3081
Eff. date	01-07-2025
CD Diagram	CD0002A02
Poles	04
Leads	2#16 A PH,3#18 B&J
Proprietary	False
Created date	12-13-2024

Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	2 @ 16 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3534LC
Mounting Arrangement	F2
Number of Poles	4
Overall Length	14.17 IN
Power Factor	99
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1740 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Manual Thermal Overload
Winding Thermal 1 Location	KO
Winding Thermal 2	None

Nameplate

NP1280L									
CAT.NO.	VFDL3516TM								
SPEC.	35E3081G819G1								
HP	2								
VOLTS	230								
AMP	8.2								
RPM	1740								
FRAME	145TC		HZ	60		PH		1	
SER.F.	1.15		CODE	J		DES	L	CL	F
NEMA-NOM-EFF	78		PF	99					
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	TEFC		SN						
	SFA 9.46								

AC Induction Motor Performance Data

Record # 108662

Typical performance - not guaranteed values

Winding: 35WGG819-R002			Type: 3534LC		Enclosure: TEFC	
Nameplate Data			230 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		2	Full Load Torque		6.05 LB-FT	
Volts		230	Start Configuration		direct on line	
Full Load Amps		8.2	Breakdown Torque		17.5 LB-FT	
R.P.M.		1740	Pull-up Torque		12 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		19.1 LB-FT
NEMA Design Code		L	KVA Code		J	
Service Factor (S.F.)		1.15	Starting Current		65.2 A	
NEMA Nom. Eff.		78	Power Factor		99	
Rating - Duty		40C	AMB-CONT		Line-line Res. @ 25°C	
S.F. Amps					Temp. Rise @ Rated Load	
					Temp. Rise @ S.F. Load	
					1.6721 Ω A Ph	
					3.8548 Ω B Ph	
					80°C	
					93°C	

Load Characteristics 230 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	97	99	99	99	99	99	99
Efficiency	52.1	70.1	77.3	79.8	79.5	77.4	79.6
Speed	1785.1	1773.1	1758.2	1743.1	1722.5	1698.8	1731
Line amperes	3.29	4.71	6.38	8.19	10.3	12.7	9.46

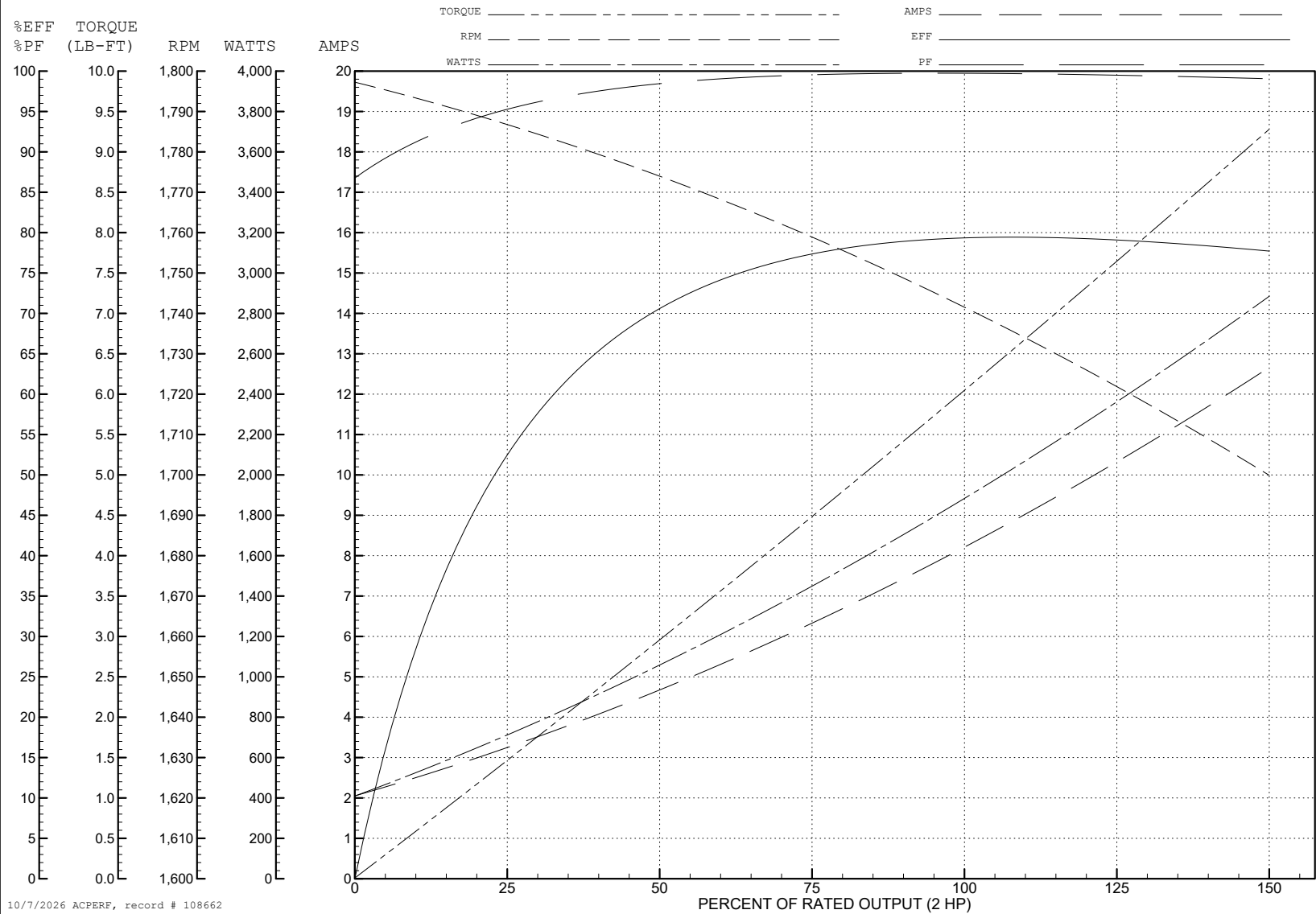
ABB Motors and Mechanical Inc.

WINDING # 35WGG819

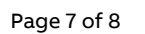
Typical performance - not guaranteed values.

2 HP 1 PH 60 HZ 1740 RPM 230 V 3534LC

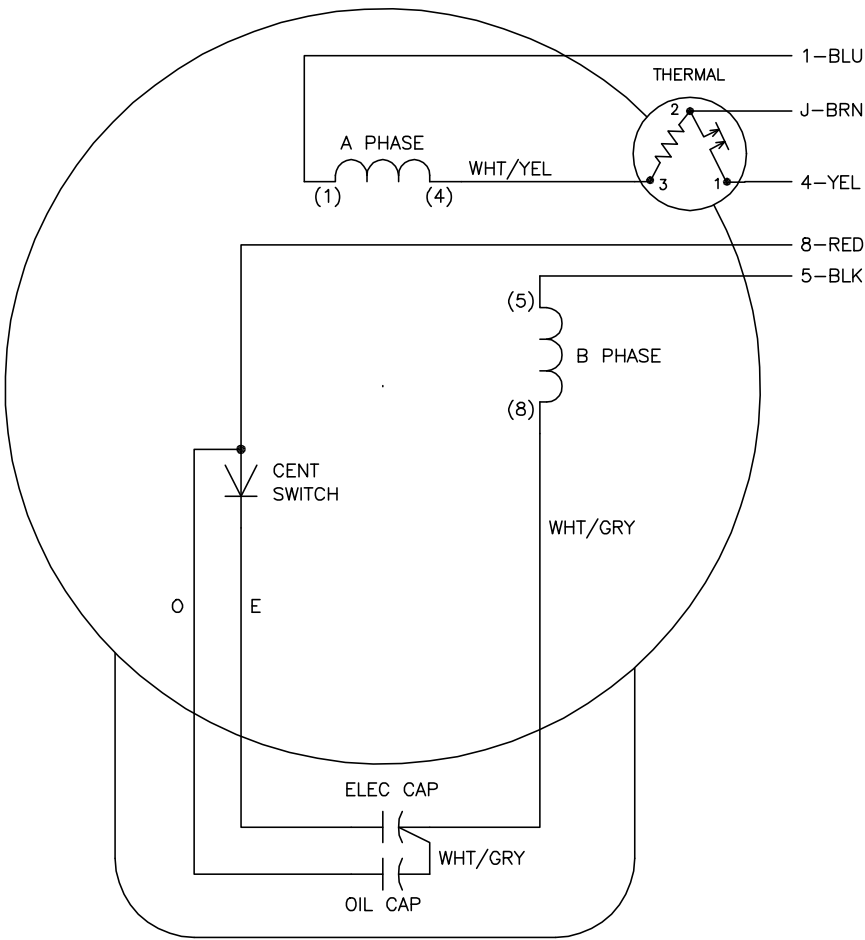
TORQUES (LB-FT): PO=17.5 PU=12 LR=19.1 LRA=65.2



10/7/2026 ACPERF, record # 108662



CD0002A02



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

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

REV. DESC: REMOVE 2-TERMINAL THERMAL DETAIL, SEE CD0002A04		
REV. LTR: D	VERSION: 01	TDR: 000000360649
CD0002A02	FILE: \AAA\00007\520	REVISED: 17:11:40 04/15/2005
	MTL: -	BY: ENJOEPO

BALDOR ELECTRIC Co.

TYPE LC, SV, REV, THERMAL, 5 LEADS

CD0002A02