

ABB BALDOR RELIANCE III

Customer information packet

CFDL3516TM

2HP, 1740RPM, 1PH, 60HZ, 56CHZ, 3534LC, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56CHZ
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	Rigid
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.	35E2321
Base	
Status	PRD/A
Elec. spec.	35WGG819
Layout	35LYE2321
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	F1
Number of Poles	4
Overall Length	14.10 IN
Power Factor	99
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
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.	CFDL3516TM								
SPEC.	35E2321G819								
HP	2								
VOLTS	230								
AMP	8.2								
RPM	1740								
FRAME	56CHZ		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 # 108862

Preliminary Data Sheet

Winding: A36WG1831-R016			Type: A36070M		Enclosure: TENV			
Nameplate Data				460 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		75	Full Load Torque		220 LB-FT			
Volts		460	Start Configuration		direct on line			
Full Load Amps		87.1	Breakdown Torque		643 LB-FT			
R.P.M.		1785	Pull-up Torque		387 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		499 LB-FT		
NEMA Design Code		-	KVA Code	H	Starting Current		627 A	
Service Factor (S.F.)		1	No-load Current		30.83 A			
NEMA Nom. Eff.		94.5	Power Factor		85	Line-line Res. @ 25°C		0.0843 Ω
Rating - Duty		40C AMB - 60 MIN		Temp. Rise @ Rated Load		62°C		
				Locked-rotor Power Factor		33.9		
				Rotor inertia		16.2 lb-ft²		

Load Characteristics 460 V, 60 Hz, 75 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	52	73	82	85	86	86
Efficiency	89.6	93.9	94.4	94.5	94.4	93.7
Speed	1796	1792	1788	1783	1779	1773
Line amperes	37.34	50.94	68.16	87.08	108	130

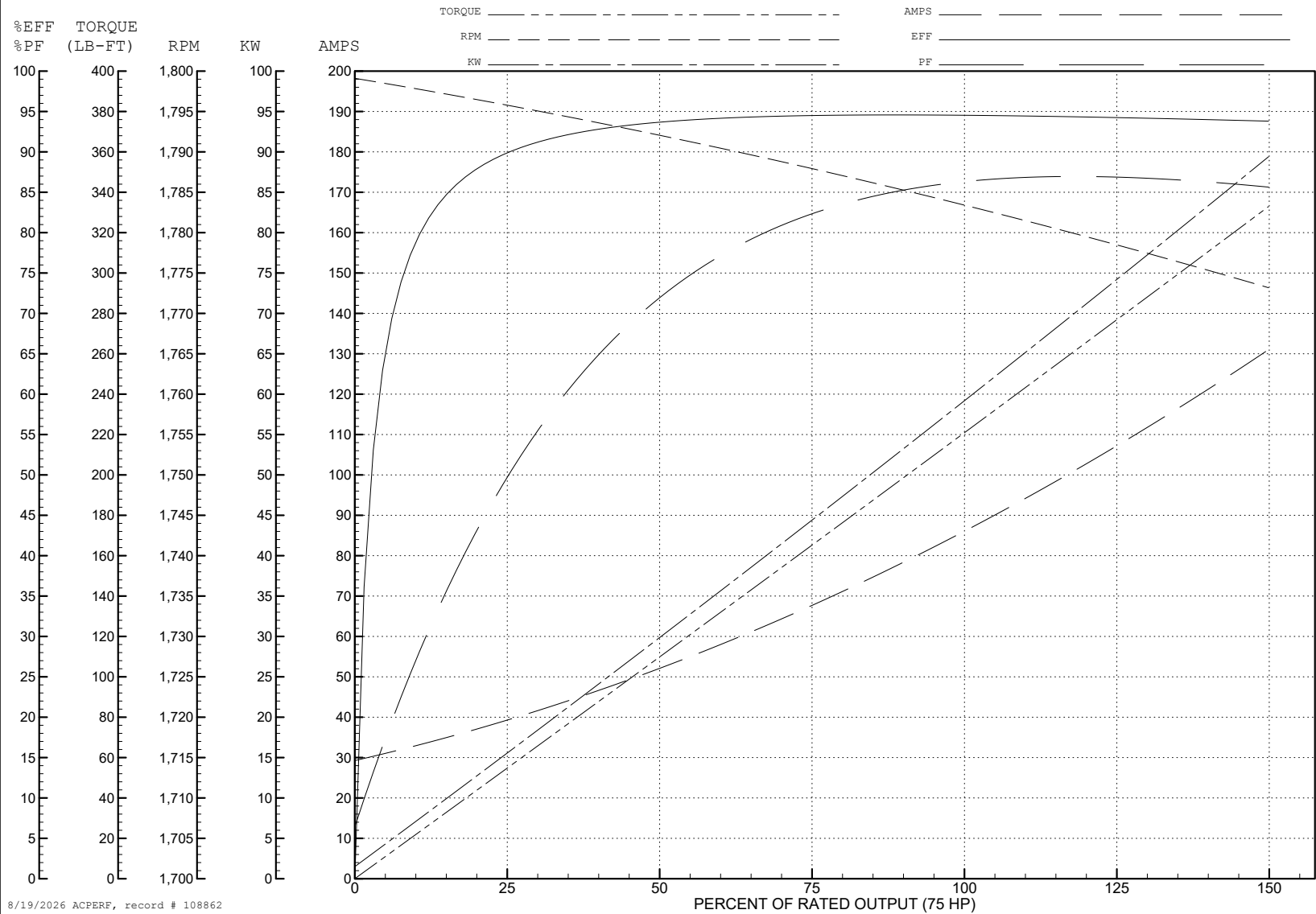
ABB Motors and Mechanical Inc.

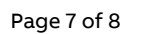
WINDING # A36WG1831-R01

Typical performance - not guaranteed values.

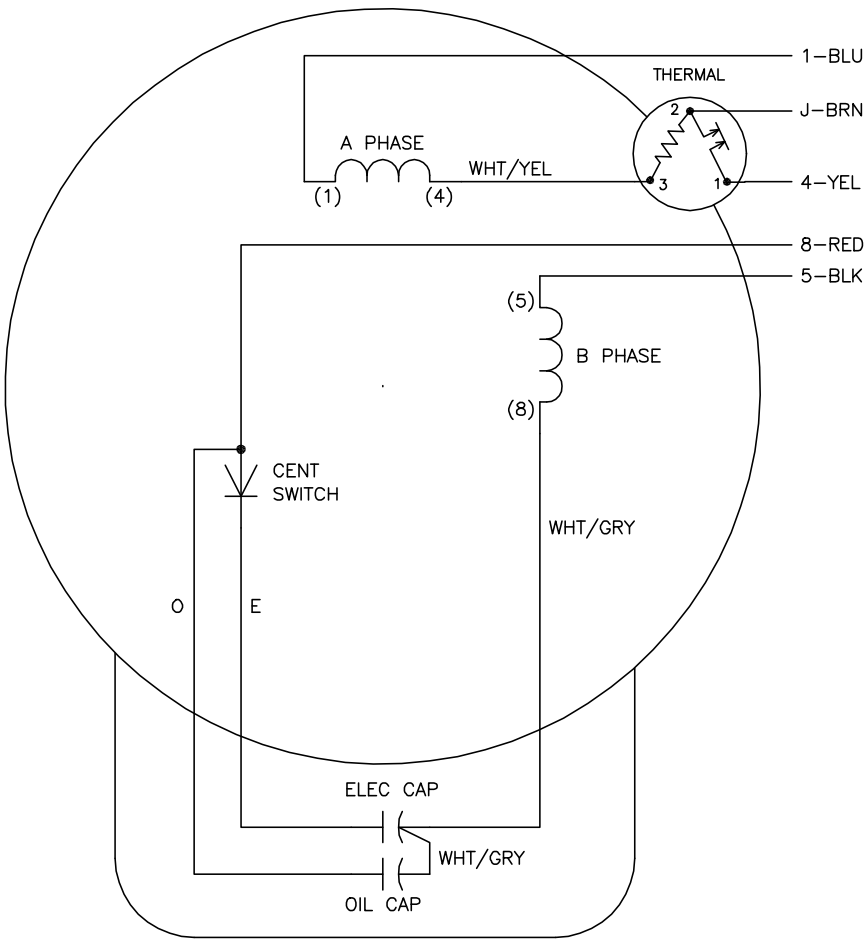
75 HP 3 PH 60 HZ 1785 RPM 460 V A36070M

TORQUES (LB-FT): PO=643 PU=387 LR=499 LRA=627





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