

ABB BALDOR RELIANCE III

Customer information packet

JL3516A

2HP, 1730RPM, 1PH, 60HZ, 56J, 3536LC, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56J
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	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	C UR US
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	17.200 A @ 115.0 V 8.600 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	8.6 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	E
Type	AC
Mech. spec.	35N778
Base	
Status	PRD/A
Elec. spec.	35WGK256
Layout	35LYN778
Eff. date	07-28-2025
CD Diagram	CD0308
Poles	04
Leads	4#16 A&J,1#14 #4TH
Proprietary	False
Created date	02-13-2024

KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	4 @ 16 AWG, A&J
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3536LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.97 IN
Power Factor	95
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Ext Thread
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Fixed Opposite Standard
Shaft Slinger Indicator	No Slinger
Speed	1730 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Do Not Use Eve-Not Valid
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Automatic Thermal Overload
Winding Thermal 1 Location	KO
Winding Thermal 2	None

Nameplate

NP1257L											
CAT.NO.	JL3516A										
SPEC.	35N778K256G1										
HP	2										
VOLTS	115/230										
AMP	17.2/8.6										
RPM	1730										
FRAME	56J			HZ		60		PH		1	
SER.F.	1.15	CODE	H	DES	L	CL	F				
NEMA-NOM-EFF	78	PF	95								
RATING	40C AMB-CONT										
CC											
DE	6205	ODE	6203								
ENCL	TEFC	SN									

AC Induction Motor Performance Data

Record # 109664

Typical performance - not guaranteed values

Winding: 35WGK256-R001			Type: 3536LC		Enclosure: TEFC		
Nameplate Data			230 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		2	Full Load Torque		6.069 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		17.2/8.6	Breakdown Torque		12.8 LB-FT		
R.P.M.		1730	Pull-up Torque		9.75 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		12.6 LB-FT	
NEMA Design Code		L	KVA Code		H		
Service Factor (S.F.)		1.15	Starting Current		54.8 A		
NEMA Nom. Eff.		78	Power Factor		95		
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		85°C
S.F. Amps					Temp. Rise @ S.F. Load		96°C

Load Characteristics 230 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	74	88	93	95	95	94	95
Efficiency	66.8	78.5	81.5	80.1	75.8	68.7	77.5
Speed	1785.2	1769.1	1751.5	1727	1695.8	1646.2	1708
Line amperes	3.33	4.73	6.49	8.66	11.4	15.2	10.3

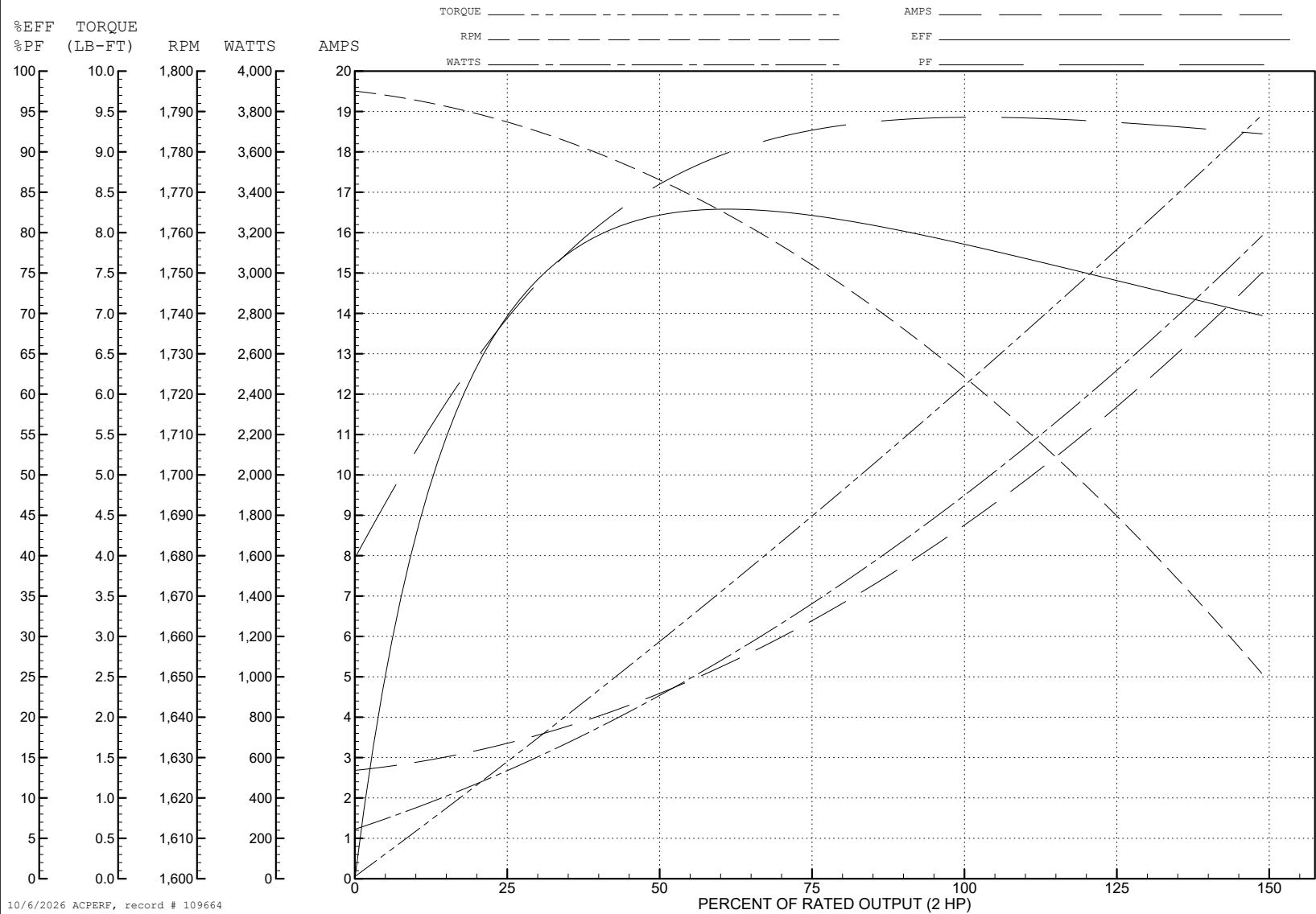
ABB Motors and Mechanical Inc.

WINDING # 35WGK256

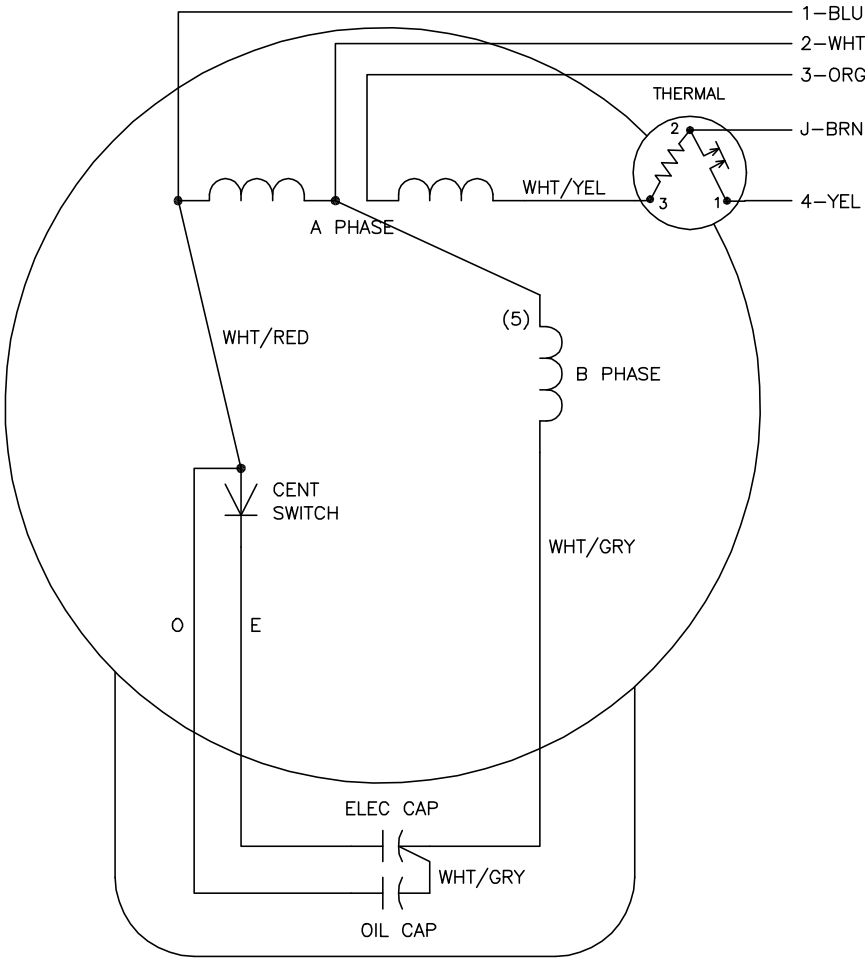
Typical performance - not guaranteed values.

2 HP 1 PH 60 HZ 1730 RPM 230 V 3536LC

TORQUES (LB-FT): PO=12.8 PU=9.75 LR=12.6 LRA=54.8



CD0308



	LINE A	LINE B	JOIN	JOIN
HIGH	1	4	2,3	J
LOW	1,3	4	—	2,J

- NOTES:
1. CONNECTIONS ARE SHOWN FOR CCW ROTATION FACING END OPPOSITE SHAFT EXTENSION (STD). FOR CW ROTATION, INTERCHANGE 5 AND 8 INTERNALLY.
 2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
 3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADDED CM PLANT CODE ONLY			
REV. LTR: E	BY: TWD	REVISED: 09:39:48 10/24/2001	TDR: 253023
803000		FILE: AAA00007481	REF: CD0308
		MTL: —	

BALDOR ELECTRIC Co.

TYPE LC, DV, FIX, THERMAL, B PH AMPS THRU HTR, 5 LEADS

CD0308