

ABB BALDOR RELIANCE III

Customer information packet

PCL3514M

1.5HP, 1750RPM, 1PH, 60HZ, 56C, 3532LC, TEFC,

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
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	1.500 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	13.000 A @ 115.0 V 6.500 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.5 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	-
Type	AC
Mech. spec.	35K358
Base	
Status	PRD/A
Elec. spec.	35WGZ997
Layout	35LYK358
Eff. date	12-13-2024
CD Diagram	CD0016A02
Poles	04
Leads	4#16 A&J,3#18 B PH,1#14 #4TH
Proprietary	False
Created date	12-11-2024

KVA Code	J
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	3532LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.10 IN
Power Factor	95
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	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Do Not Use
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Manual Thermal Overload
Winding Thermal 1 Location	KO
Winding Thermal 2	None

Nameplate

NP1257L									
CAT.NO.	PCL3514M								
SPEC.	35K358Z997								
HP	1.5								
VOLTS	115/230								
AMP	13/6.5								
RPM	1750								
FRAME	56C			HZ	60			PH	1
SER.F.	1.15		CODE	J		DES	L	CL	F
NEMA-NOM-EFF	80		PF	95					
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	TEFC		SN						

AC Induction Motor Performance Data

Record # 105572

Typical performance - not guaranteed values

Winding: 35WGZ997-R004			Type: 3532LC		Enclosure: TEFC	
Nameplate Data			115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		1.5	Full Load Torque		4.6 LB-FT	
Volts		115/230	Start Configuration		direct on line	
Full Load Amps		13/6.5	Breakdown Torque		11.5 LB-FT	
R.P.M.		1750	Pull-up Torque		9.2 LB-FT	
Hz	60 Phase	1	Locked-rotor Torque		11.6 LB-FT	
NEMA Design Code		L	KVA Code		J	
Starting Current		93.9 A		No-load Current		3.64 A
Service Factor (S.F.)		1.15	Line-line Res. @ 25°C		0.518 Ω A Ph 1.92 Ω B Ph	
NEMA Nom. Eff.		80	Power Factor		95	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		64°C
S.F. Amps				Temp. Rise @ S.F. Load		79°C
				Locked-rotor Power Factor		87.5
				Rotor inertia		0.232 lb-ft²

Load Characteristics 115 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	78	89	93	95	96	95	96
Efficiency	64.7	76.5	80.1	80.5	79.2	75.6	79.7
Speed	1788	1777	1765	1750	1736	1712	1742
Line amperes	4.97	7.32	9.99	13	16.1	20.2	14.9

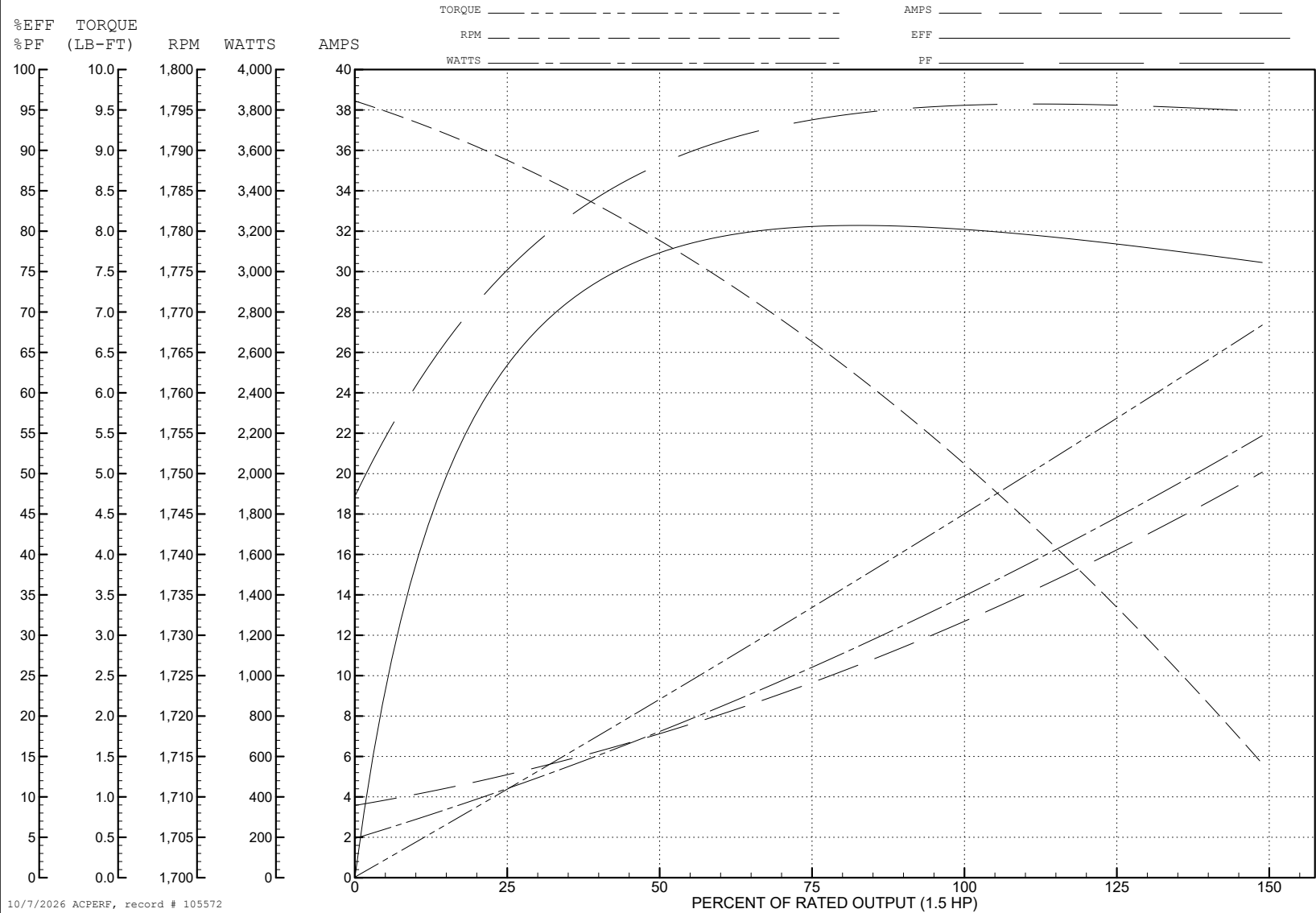
ABB Motors and Mechanical Inc.

WINDING # 35WGZ997

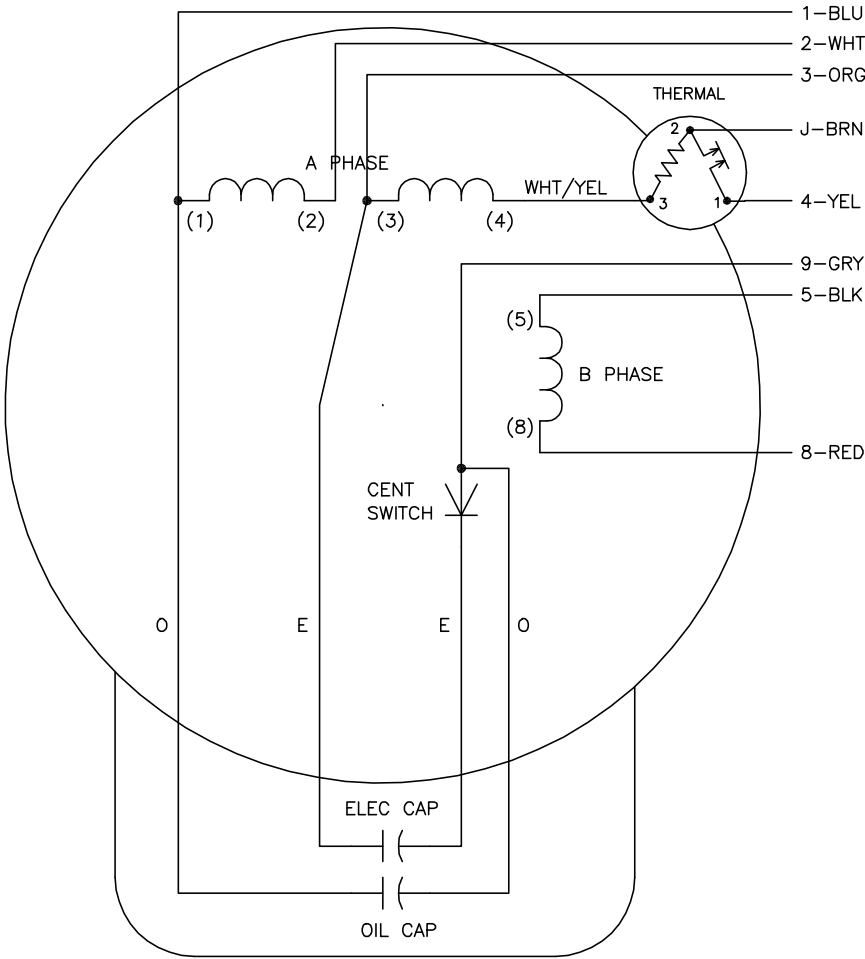
Typical performance - not guaranteed values.

1.5 HP 1 PH 60 HZ 1750 RPM 115 V 3532LC

TORQUES (LB-FT): PO=11.5 PU=9.2 LR=11.6 LRA=93.9



CD0016A02



	LINE A	LINE B	JOIN	JOIN	JOIN
HIGH STD	1	4	2,3	8,9	J,5
HIGH OPP	1	4	2,3	5,9	J,8
LOW STD	1,3	4	8,9	2,J,5	—
LOW OPP	1,3	4	5,9	2,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 OPTIONAL THERMAL CONNECTION		
REV. LTR: F	VERSION: 01	TDR: 000000373039
CD0016A02	FILE: \AAA\00007\411	REVISED: 10:13:25 08/11/2005
	MTL: —	BY: ENJOEPO

BALDOR ELECTRIC Co.

TYPE LC, DV, REV, OIL CAP ACR. LINE, THERMAL, 8 LEADS

CD0016A02