

ABB BALDOR RELIANCE III

Customer information packet

PCL3513M

1.5HP, 3450RPM, 1PH, 60HZ, 56C, 3520LC, 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	3600 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	UR CSA
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	13.200 A @ 115.0 V 6.600 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
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	6.6 a

Part Detail

Revision	AC
Type	AC
Mech. spec.	35T982
Base	
Status	PRD/A
Elec. spec.	35WGY862
Layout	35LYT982
Eff. date	05-07-2024
CD Diagram	CD0320
Poles	02
Leads	4#16 A&J,2#18 B PH,1#14 #4TH
Proprietary	False
Created date	06-22-2007

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	4 @ 16 AWG, A&J
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.25 IN
Power Factor	98
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 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	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.	PCL3513M								
SPEC.	35T982Y862								
HP	1.5								
VOLTS	115/230								
AMP	13.2/6.6								
RPM	3450								
FRAME	56C		HZ	60		PH	1		
SER.F.	1.15	CODE	F	DES	L	CL	B		
NEMA-NOM-EFF	75.5	PF	98						
RATING	40C AMB-CONT								
CC									
DE	6205	ODE	6203						
ENCL	TEFC	SN							

AC Induction Motor Performance Data

Record # 10350

Typical performance - not guaranteed values

Winding: 35WGY862-R001			Type: 3520LC		Enclosure: TEFC		
Nameplate Data			230 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1.5	Full Load Torque		2.25 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		13.2/6.6	Breakdown Torque		4.63 LB-FT		
R.P.M.		3450	Pull-up Torque		3.25 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		4.25 LB-FT	
NEMA Design Code		L	KVA Code	F	Starting Current		34.7 A
Service Factor (S.F.)		1.15		No-load Current		1.5 A	
NEMA Nom. Eff.		75.5	Power Factor	98	Line-line Res. @ 25°C		2.38 Ω A Ph 1.84 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		40°C	
S.F. Amps				Temp. Rise @ S.F. Load		47°C	

Load Characteristics 230 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	87	90	96	98	97	96	98
Efficiency	51	71	74.5	75.5	74	70	75
Speed	3575	3550	3515	3490	3440	3370	3470
Line amperes	2.7	3.6	5	6.6	8.4	10.5	7.4

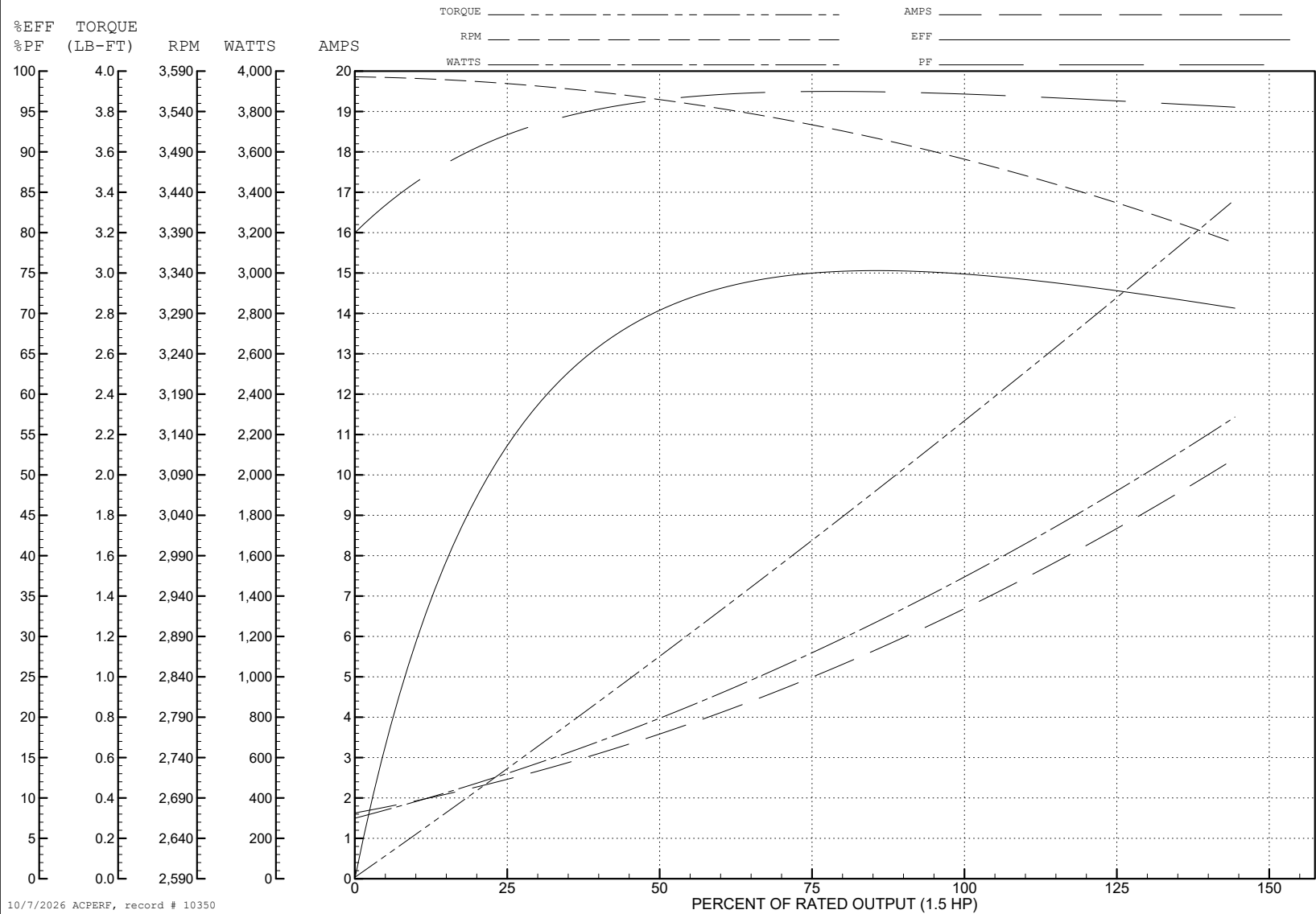
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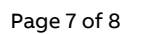
WINDING # 35WGY862

Typical performance - not guaranteed values.

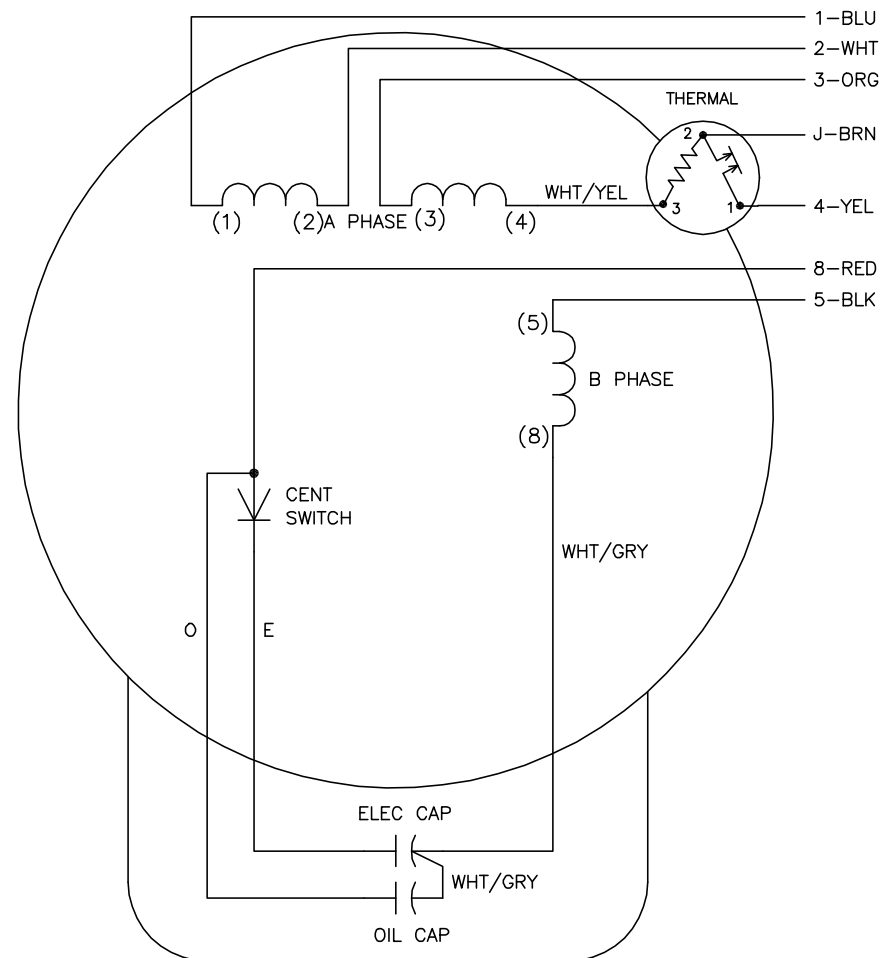
1.5 HP 1 PH 60 HZ 3450 RPM 230 V 3520LC

TORQUES (LB-FT): PO=4.63 PU=3.25 LR=4.25 LRA=34.7





CD0320



	LINE A	LINE B	JOIN	JOIN
HIGH STD	1,8	4	2,3,5	J
HIGH OPP	1,5	4	2,3,8	J
LOW STD	1,3,8	4	—	2,J,5
LOW OPP	1,3,5	4	—	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.

CD0320

REV. DESC: ADD INTERNAL CONNECTION TO HELP MANUFACTURING		
REV. LTR: G	VERSION: 01	TDR: 000000941594
FILE: \AAA\00007\422	REVISED: 02:21:00 08/28/2015	BY: ENALEMO
MTL: —	© □	

BALDOR

TYPE LC, DV, REV, THERMAL, B PH AMPS THRU HTR HVC, 7 LEAD
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