

ABB BALDOR RELIANCE III

Customer information packet

PL1327M

5HP, 3450RPM, 1PH, 60HZ, 56/56H, 3535LC, ODTF

Class - None

Division - Not Applicable

Specifications

Enclosure	ODTF
Frame	56/56H
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	5.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	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	23.000 A @ 230.0 V 24.000 A @ 208.0 V
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	23.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	AR
Type	AC
Mech. spec.	35L203
Base	
Status	PRD/A
Elec. spec.	35WGS322
Layout	35LYL203
Eff. date	05-14-2024
CD Diagram	CD0002A02
Poles	02
Leads	2#12 A PH,3#18 B&J
Proprietary	False
Created date	06-22-2007

KVA Code	F
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Cap Box
Motor Lead Quantity/Wire Size	2 @ 12 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3535LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.81 IN
Power Factor	95
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
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.	PL1327M								
SPEC.	35L203S322								
HP	5								
VOLTS	230								
AMP	23								
RPM	3450								
FRAME	56/56H			HZ		60		PH 1	
SER.F.	1.00	CODE	F	DES	-	CL	F		
NEMA-NOM-EFF	74.2	PF	95						
RATING	40C AMB-CONT								
CC									
DE	6205	ODE	6203						
ENCL	ODTF	SN							

Parts List

Part number	Description	Quantity
SA026850	SA 35L203S322	1.000 ea
RA022899	RA 35L203S322	1.000 ea
OC3050F09SP	CAPACITOR 50 MFD 370 VAC	1.000 ea
TPBRT34DA	THERMAL 1PH 1.25 MAN 105C	1.000 ea
EC1161C06SP	ELEC CAP, 161-193 MFD, 250V, 2.06D X 4.	2.000 ea
WD3006A01	RSS-2-103JT 2W 10K RES. METAL OXIDE 5%	1.000 ea
TP5059	GENERIC WELDED THERMAL, 7" LEAD KIT	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
36CB3802B01	CPBX 36 W/1.09 DIA LEAD @ 6	1.000 ea
36GS5000	GASKET CONDUIT ADAPTOR	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	3.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
HA6003A28	CAPAC. CLAMP MODEL 36 MOTORS PLATED	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
HA6015A08	THERMAL RETAINER (PLATED)	1.000 ea
51XB1214A10	12-14 X 5/8HX WS SL SR TYBX	2.000 ea
35EP3209D00	MASTER ODE,203 BRG,.683SH,DRIP CVR	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
35CB4802A02SP	CAPACITOR COVER, STAMPED X	1.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3210B00	MASTER DE,205 BRG,1.000SH	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
35FH4006A01SP	DRIP COVER,STAMPED,W/ PRIMER	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
36CB4505	CONDUIT BOX LID, STAMPED	1.000 ea
36GS3006	GASKET, CAP BOX LID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea

HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1087	LABEL,MANUAL RESET (ROLL LABEL)	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.017 ga
HA3100A22	THRUBOLT 10-32 X 10.125	4.000 ea
WD1000A16	2-520128-2 AMP FLAG TERMINAL(4M/RL)	6.000 ea
SP5181A27	MODEL 35 LC TORQ STAT SWITCH LEAD ASSY	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0002	CONNECTION LABEL	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

Accessories

Part number	Description	Multiplier
35-8764	C FACE KIT	A8
35EP1604A01SP	D-FLANGE KIT	

AC Induction Motor Performance Data

Record # 8979

Typical performance - not guaranteed values

Winding: 35WGS322-R001			Type: 3535LC		Enclosure: ODTF		
Nameplate Data			230 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		5	Full Load Torque		7.7 LB-FT		
Volts		230	Start Configuration		direct on line		
Full Load Amps		23	Breakdown Torque		18.8 LB-FT		
R.P.M.		3450	Pull-up Torque		12.8 LB-FT		
Hz		60	Phase		1	Locked-rotor Torque	14.7 LB-FT
NEMA Design Code			- KVA Code		F	Starting Current	122 A
Service Factor (S.F.)		1				No-load Current	8.9 A
NEMA Nom. Eff.		74.2	Power Factor		95	Line-line Res. @ 25°C	0.535 Ω A Ph 1.1 Ω B Ph
Rating - Duty		40C	AMB-CONT			Temp. Rise @ Rated Load	89°C

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	78	89	94	95	96	95
Efficiency	56.5	69.5	74.5	74.2	72.5	66
Speed	3570	3535	3500	3450	3390	3275
Line amperes	10.4	13.7	17.8	23	28.6	36.2

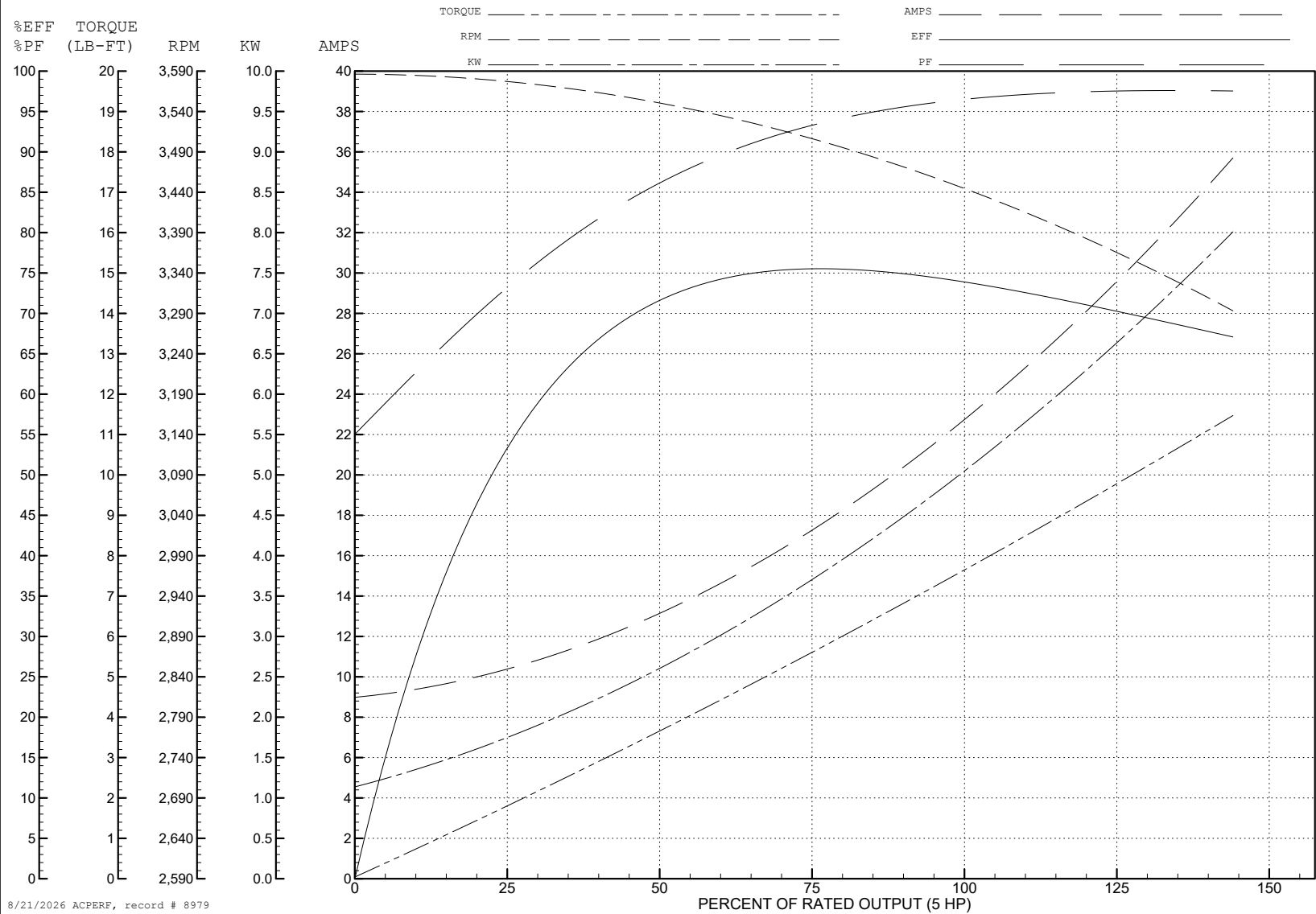
ABB Motors and Mechanical Inc.

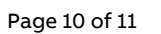
WINDING # 35WGS322

Typical performance - not guaranteed values.

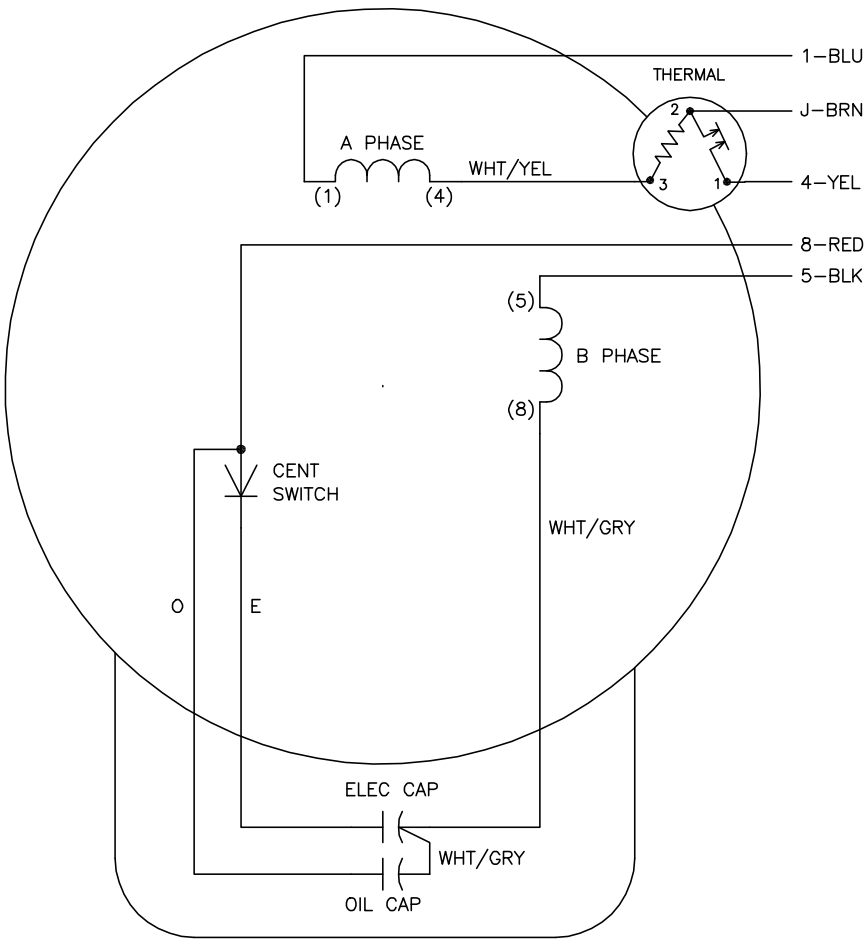
5 HP 1 PH 60 HZ 3450 RPM 230 V 3535LC

TORQUES (LB-FT): PO=18.8 PU=12.8 LR=14.7 LRA=122





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

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