

ABB BALDOR RELIANCE III

Customer information packet

ECS100A4H3DC4

3HP, 1800RPM, 3PH, 60HZ, 143TC, 3532B, TEFC, F1

Part Detail

Revision	C
Type	AC
Mech. spec.	35E5253
Base	
Status	PRD/A
Elec. spec.	35WGG943
Layout	35LYE5253
Eff. date	10-31-2024
CD Diagram	CD0006B03
Poles	04
Leads	3#116 13" LONG LEADS Y
Proprietary	False
Created date	05-10-2024

Nameplate

NP3968A01A01									
CAT.NO.	ECS100A4H3DC4								
SPEC.	35E5253G943								
FRAME	143TC			ENCL.		TEFC		IP	54
HP	3		40	C AMB			CONT		
NOM. EFF.	91		PF	97		SF		1.15	
VOLTS	460			FLA		3.5			
RPM	1800			RPM-MAX			4000		
HZ	60			PH.	3	CLASS		F	
BEMF (V)	267			RS (OHMS)				6.72	
LD (MH)	57.9				LQ (MH)				218
VPWM	CHP	60	TO		133				
CT	6	TO	60		VT	6	TO	60	
MATCHED INV	ECI4A4P1								
DE	6205			ODE		6203			
SERIAL #									

NP3978A01					
PART NO.	ECI4A4P1				
U1	480	PH	3	HZ	60
I1	4.8	W/EXT. CHOKE			4.5
SERIAL #					

Volts	460	Max RPM	3000	Conn Diag.	CD0006B03	Leads	3
Amps	3.7	Max Amps		Cs Diagram	CS1126	BEMF	172
HP	3	VFD#	ECI4A4P1			LD	51
RPM	1800	S.F.	1.00			LQ	177
Phase/Hz	3/60	Rating	40C AMB CONT			Rs	3.8460 Meas. L-L

60034-2-3 Motor Performance at Standardized Operating Points

	RPM	% Speed	LB-FT	% Torque	HP	Efficiency	Loss (% FL)	Watts Loss (W)
P1	1627	90%	8.8	100%	2.7	91.3	8.59%	194
P2	904	50%	8.8	100%	1.5	89.3	6.00%	136
P3	452	25%	8.8	100%	0.8	83.4	4.94%	112
P4	1628	90%	4.4	50%	1.4	91.8	3.99%	90
P5	904	50%	4.4	50%	0.8	89.9	2.80%	63
P6	904	50%	2.2	25%	0.4	87.9	1.70%	39
P7	452	25%	2.2	25%	0.2	83.7	1.21%	27

61800-9-2 PDS Performance at Reference Operating Points

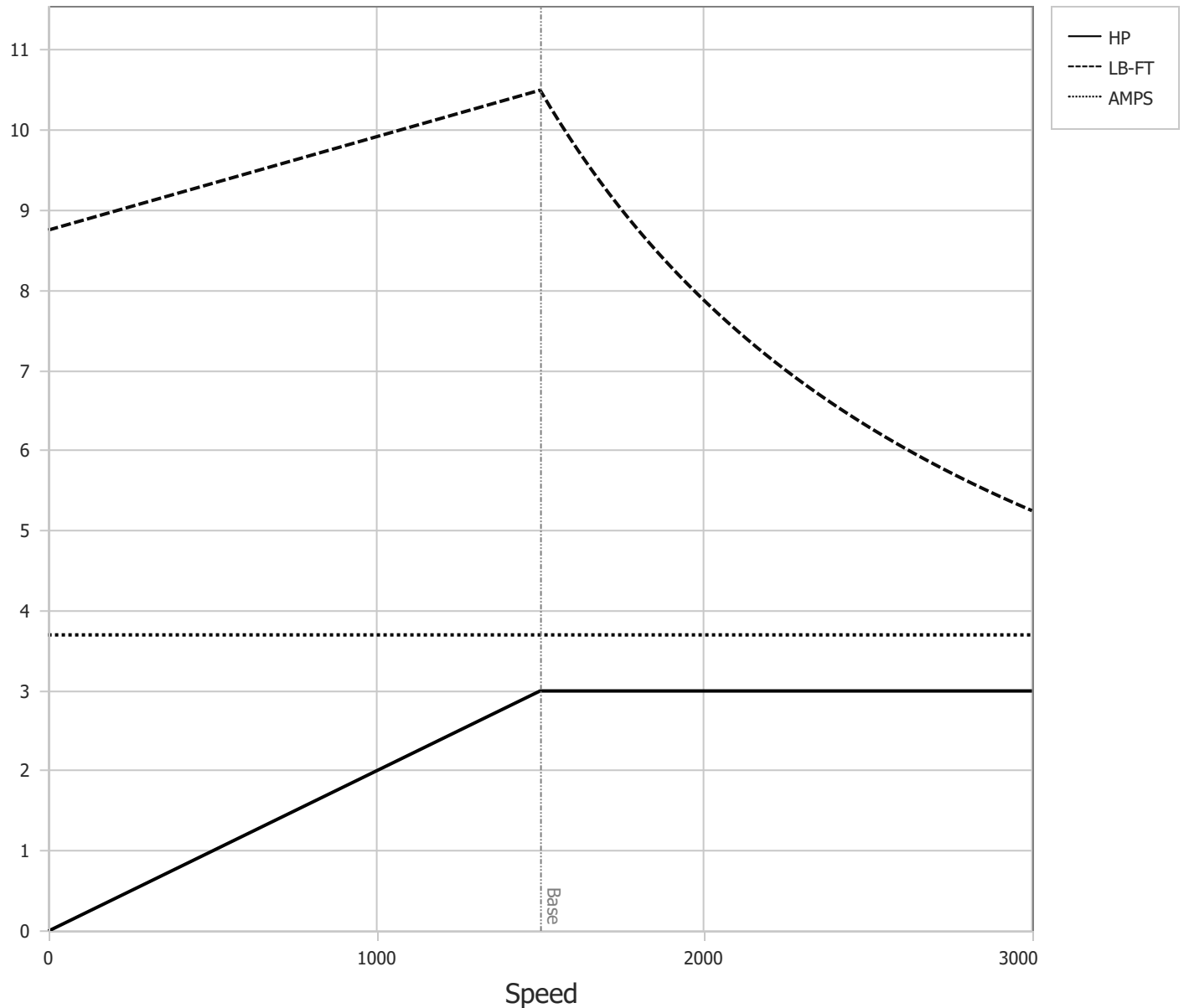
	RPM	% Speed	LB-FT	% Torque	HP	System Efficiency	Loss (% FL)	Watts Loss (W)
P1	1804	100%	8.8	100%	3.0	89.8	11.23%	254
P2	904	50%	8.8	100%	1.5	84.8	8.87%	201
P3	301	17%	8.8	100%	0.5	69.2	7.37%	167
P4	1809	100%	4.4	50%	1.5	88.5	6.44%	146
P5	904	50%	4.4	50%	0.8	84.1	4.70%	106
P6	301	17%	4.4	50%	0.3	68.2	3.86%	87
P7	904	50%	2.2	25%	0.4	80.2	3.06%	69
P8	301	17%	2.2	25%	0.1	62.6	2.46%	56

Points not taken in certified order.

	DR By:	R & D	AC MOTOR PERFORMANCE CURVES	36WGA0025 36-0000-3655 Test - 111781
	CK By:	USBIBAK		
	APP By:	USJAROB1		
	Date:	01/09/2025		

Volts	460	Max RPM	3000	Conn Diag.	CD0006B03	Leads	3
Amps	3.7	Max Amps		Cs Diagram	CS1126	BEMF	172
HP	3	VFD #	ECI4A4P1			LD	51
RPM	1800	S.F.	1.00			LQ	177
Phase/Hz	3/60	Rating	40C AMB CONT			Rs	3.8460 Meas L-L

Constant Duty Operating Range


BALDOR • RELIANCE

DR By: R & D
 CK By: USBIBAK
 APP By: USJAROB1
 Date: 01/09/2025

**AC MOTOR
PERFORMANCE
CURVES**

36WGA0025
 36-0000-3655
 Test - 111781

