

ABB BALDOR RELIANCE III

Customer information packet

ECS100T2H1DF4

1HP, 1800RPM, 3PH, 60HZ, 145T, 3516B, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Brushless Wound Field PM Rotor
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	BLUETOOTH CULUS WEEE
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
Constant Torque Speed Range	6
Current @ Voltage	2.500 A @ 230.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a
Insulation Class	F
Inverter Code	03

Part Detail

Revision	D
Type	AC
Mech. spec.	35E5209
Base	
Status	PRD/A
Elec. spec.	35WGG932
Layout	35LYE5209
Eff. date	06-16-2025
CD Diagram	CD0006B03
Poles	04
Leads	3#14 13" LONG LEADS Y
Proprietary	False
Created date	05-06-2024

KVA Code	-
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3516B
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.38 IN
Power Factor	98
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1800 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Volts	208 - 230	Max RPM	4000	Conn Diag.	CD0006B03	Leads	3
Amps	2.6 - 2.4	Max Amps		Cs Diagram	CS1127	BEMF	135
HP	1	VFD#	ECIN2A4P3			LD	29.3
RPM	1800	S.F.	1.00			LQ	136
Phase/Hz	3/60	Rating	40C AMB-CONT			Rs	4.8923 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	1618	90%	2.9	100%	0.9	89.1	10.92%	82
P2	901	50%	2.9	100%	0.5	84.3	9.24%	70
P3	450	25%	2.9	100%	0.3	78.4	6.85%	52
P4	1621	90%	1.5	50%	0.5	89.0	5.52%	42
P5	900	50%	1.5	50%	0.3	87.1	3.69%	28
P6	900	50%	0.7	25%	0.1	86.1	1.99%	15
P7	450	25%	0.7	25%	0.1	83.2	1.24%	9

61800-9-2 PDS Performance at Reference Operating Points

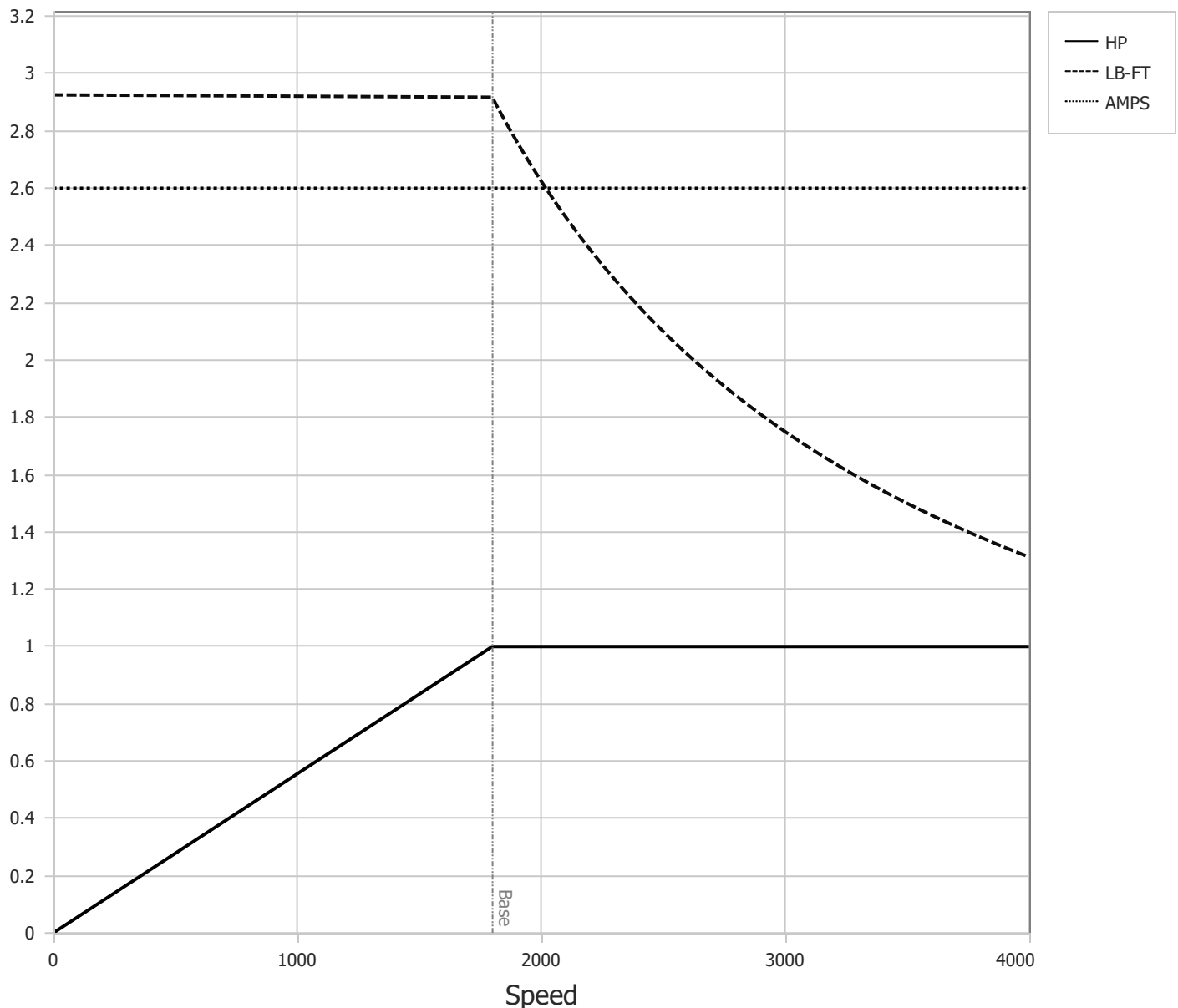
	RPM	% Speed	LB-FT	% Torque	HP	System Efficiency	Loss (% FL)	Watts Loss (W)
P1	1804	100%	2.9	100%	1.0	87.4	14.30%	108
P2	901	50%	2.9	100%	0.5	80.3	12.17%	92
P3	300	17%	2.9	100%	0.2	64.8	8.96%	68
P4	1801	100%	1.5	50%	0.5	85.8	8.17%	62
P5	900	50%	1.5	50%	0.3	81.9	5.45%	41
P6	300	17%	1.5	50%	0.1	66.9	4.07%	31
P7	900	50%	0.7	25%	0.1	79.0	3.27%	25
P8	300	17%	0.7	25%	0.0	64.4	2.28%	17

Points not taken in certified order.

	DR By:	<u>R & D</u>	AC MOTOR PERFORMANCE CURVES	35WGG932 35-0000-1620 Test - 111668
	CK By:	<u>USBIBAK</u>		
	APP By:	<u>USWEQUA1</u>		
	Date:	<u>12/07/2024</u>		

Volts	208 - 230	Max RPM	4000	Conn Diag.	CD0006B03	Leads	3
Amps	2.6 - 2.4	Max Amps		Cs Diagram	CS1127	BEMF	135
HP	1	VFD #	ECIN2A4P3			LD	29.3
RPM	1800	S.F.	1.00			LQ	136
Phase/Hz	3/60	Rating	40C AMB-CONT			Rs	4.8923 Meas L-L

Constant Duty Operating Range



BALDOR • RELIANCE

DR By: R & D
 CK By: USBIBAK
 APP By: USWEQUA1
 Date: 12/07/2024

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 35-0000-1620
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