

ABB BALDOR RELIANCE III

Customer information packet

VEBNM3554T-D

1.5/1.1KWHP, 1770 1/MINRPM, 3PH, 60HZ, 145TC

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	145TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CE CURUSEEV NEMA PREMIUM UKCA WEEE
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	4.600 A @ 230.0 V 2.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	F
Type	AC
Mech. spec.	35X142
Base	
Status	PRD/A
Elec. spec.	35WGG178
Layout	35LYX142
Eff. date	01-12-2026
CD Diagram	CD0005
Poles	04
Leads	9#18 Y
Proprietary	False
Created date	01-10-2022

Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3530M
Mounting Arrangement	F3
Number of Poles	4
Overall Length	16.88 IN
Power Factor	72
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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

Nameplate

NP2934L									
CAT.NO.	VEBNM3554T-D								
SPEC.	35X142G178G1								
HP	1.5/1.1KW								
VOLTS	230/460								
AMP	4.6/2.3 IP44 IC410 27KG								
R.P.M. (1/MIN)	1770								
FRAME	145TC		HZ	60		PH	3		
SER.F.	1.15		CODE	M		DES	B	CL	H
NEMA-NOM-EFF	86.5		PF	72					
RATING	40C AMB-S1 CONT								
CC	010A								
DE	6205		ODE	6203					
ENCL	TENV		SN						
	IE3-60HZ-88.1(75%)86.3(50%)								

AC Induction Motor Performance Data

Record # 87056

Typical performance - not guaranteed values

Winding: 35WGG178-R003			Type: 3530M		Enclosure: TENV		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1.5	Full Load Torque		4.48 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		4.6/2.3	Breakdown Torque		21.02 LB-FT		
R.P.M.		1770	Pull-up Torque		12.29 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		14.9 LB-FT	
NEMA Design Code		B	KVA Code	M	Starting Current		21.32 A
Service Factor (S.F.)		1	No-load Current		1.29 A		
NEMA Nom. Eff.		86.5	Power Factor	72	Line-line Res. @ 25°C		10.1 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		80°C
					Locked-rotor Power Factor		55.5
					Rotor inertia		0.217 lb-ft²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	33	54	68	76	81	84
Efficiency	79.1	86.3	88.1	88.3	87.6	86.6
Speed	1790	1783	1776	1769	1761	1752
Line amperes	1.35	1.52	1.78	2.11	2.47	2.89

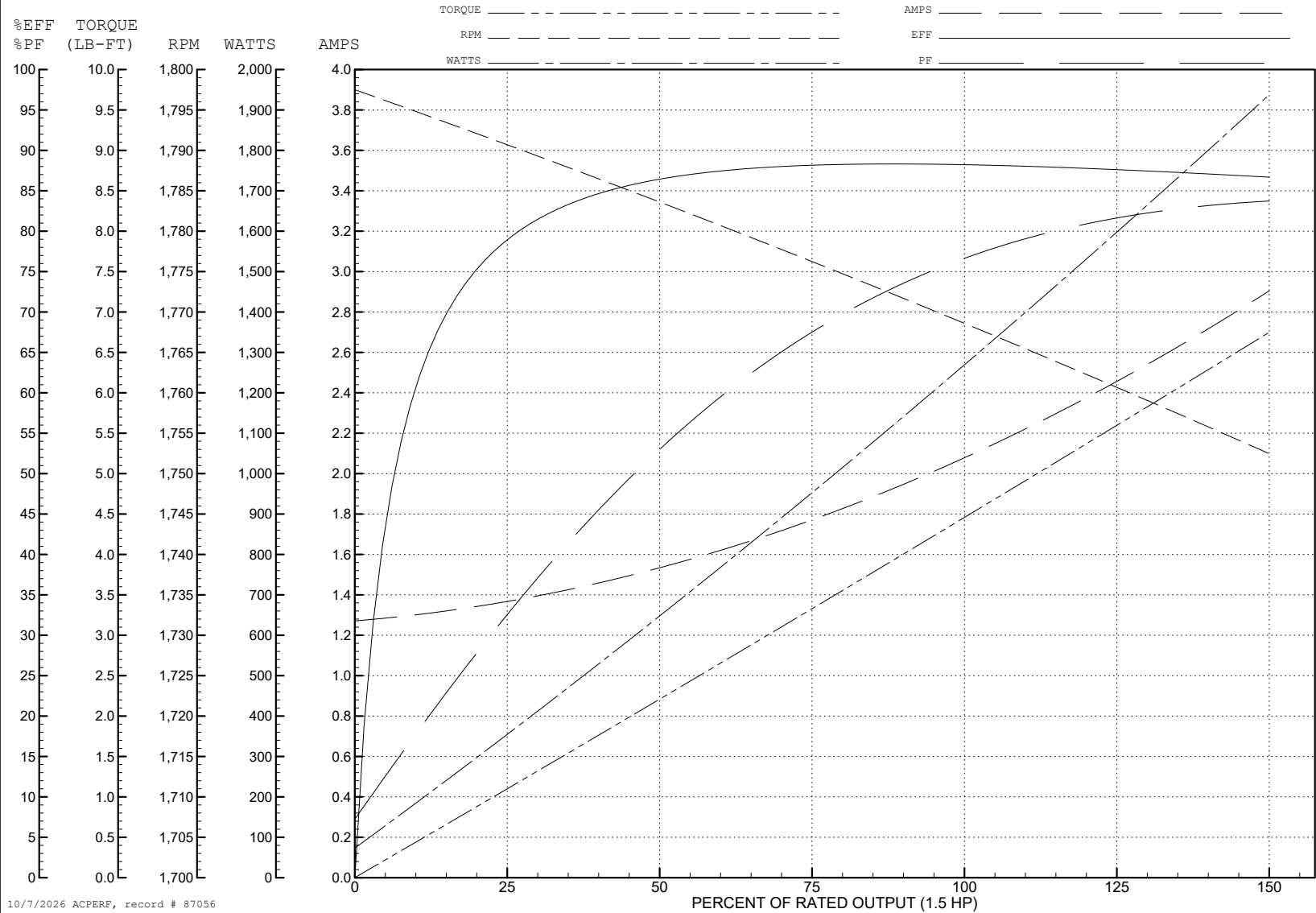
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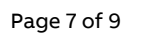
WINDING # 35WGG178

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1770 RPM 460 V 3530M

TORQUES (LB-FT): PO=21.02 PU=12.29 LR=14.9 LRA=21.32







CD2120

WIRING CONNECTIONS (1 PHASE VAC)

	POWER LINE A	POWER LINE B	CAP TOGETHER	CAP ALONE
AC LOW VOLT.	B1	B2	B3 & B5	B4
AC HIGH VOLT.	B1 & B5	B2	---	B3 CAP ALONE B4 CAP ALONE
DC VOLT.	B1	B2	B3 & B5	B4

B1 WHITE
 B2 BLACK
 B3 GRAY
 B4 BLUE
 B5 RED

CD2120

REV. DESC: NEW			BALDOR • DODGE • RELIANCE III
REV. LTR: -	VERSION: 00	TDR: 000000741785	
FILE: \CKA\00037\282		REVISED: 12: 28: 11 04/12/2012	
MTL: -		BY: CKRONSO	

 D-SERIES MOTOR BRAKE 5LD AC\DC
 SH 1 of 1