

ABB BALDOR RELIANCE III

Customer information packet

GNEM3714T

10HP//7.5KW, 1770//1460RPM, 3PH, 60//50HZ, 2

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215T
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	7.500 KW @ 50 HZ 10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	190.0 V @ 50 HZ 208.0 V @ 60 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	CE WEEE UKCA CURUSEEV IE3 NEMA PREMIUM
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	30.000 A @ 190.0 V 27.000 A @ 208.0 V 26.000 A @ 230.0 V

Part Detail

Revision	B
Type	AC
Mech. spec.	37H244
Base	
Status	PRD/A
Elec. spec.	37WGZ676
Layout	37LYH244
Eff. date	05-13-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	10-27-2023

	15.000 A @ 380.0 V
	13.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	13.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3756M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.52 IN
Power Factor	78
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	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	No Slinger
Speed	1460 rpm
	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

NP4304L									
CAT.NO.	GNEM3714T								
SPEC.	37H244Z676								
HP	10HP//7.5KW						PH	3	
VOLTS	208-230/460//190/380								
AMPS	27-26/13//30/15								
R.P.M. (1/MIN)	1770//1460						WT.	57KG	KG
FRAME	215T	HZ		60//50		I.P.		44	
SER.F.	1.15	CODE	K	DES.	A	CLASS	F		
NOM.EFF.	91.7//90.4		% (100%)						
P.F.	78	IC411, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6307		ODE	6206					
ENCL	TEFC	SN							
	IE3-60HZ- 92.7(75%)91.9(50%)								
	IE3-50HZ- 91.6(75%)91.9(50%)								
	SFA 31-30/15//34/17								

AC Induction Motor Performance Data

Record # 103134

Typical performance - not guaranteed values

Winding: 37WGZ676-R001			Type: 3756M		Enclosure: TEFC		
Nameplate Data					460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		10HP//7.5KW		Full Load Torque		29.74 LB-FT	
Volts		208-230/460//190/380		Start Configuration		direct on line	
Full Load Amps		26.8-25/12//29.8/14.9		Breakdown Torque		110 LB-FT	
R.P.M.		1770//1465		Pull-up Torque		66.7 LB-FT	
Hz		60//50	Phase	3	Locked-rotor Torque		83.7 LB-FT
NEMA Design Code		A	KVA Code	K	Starting Current		112 A
Service Factor (S.F.)		1.15		No-load Current		6.43 A	
NEMA Nom. Eff.		91.7	Power Factor	85	Line-line Res. @ 25°C		0.81572 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		67°C	
S.F. Amps		30.8-28.4/14.2//34/17		Temp. Rise @ S.F. Load		82°C	
					Locked-rotor Power Factor		35

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	60	72	78	82	84	80
Efficiency	87.7	91.9	92.7	92.5	91.8	90.8	92.1
Speed	1791.8	1784	1775.5	1766.5	1757.1	1746.9	1761
Line amperes	7.06	8.53	10.5	13	15.6	18.5	14.6

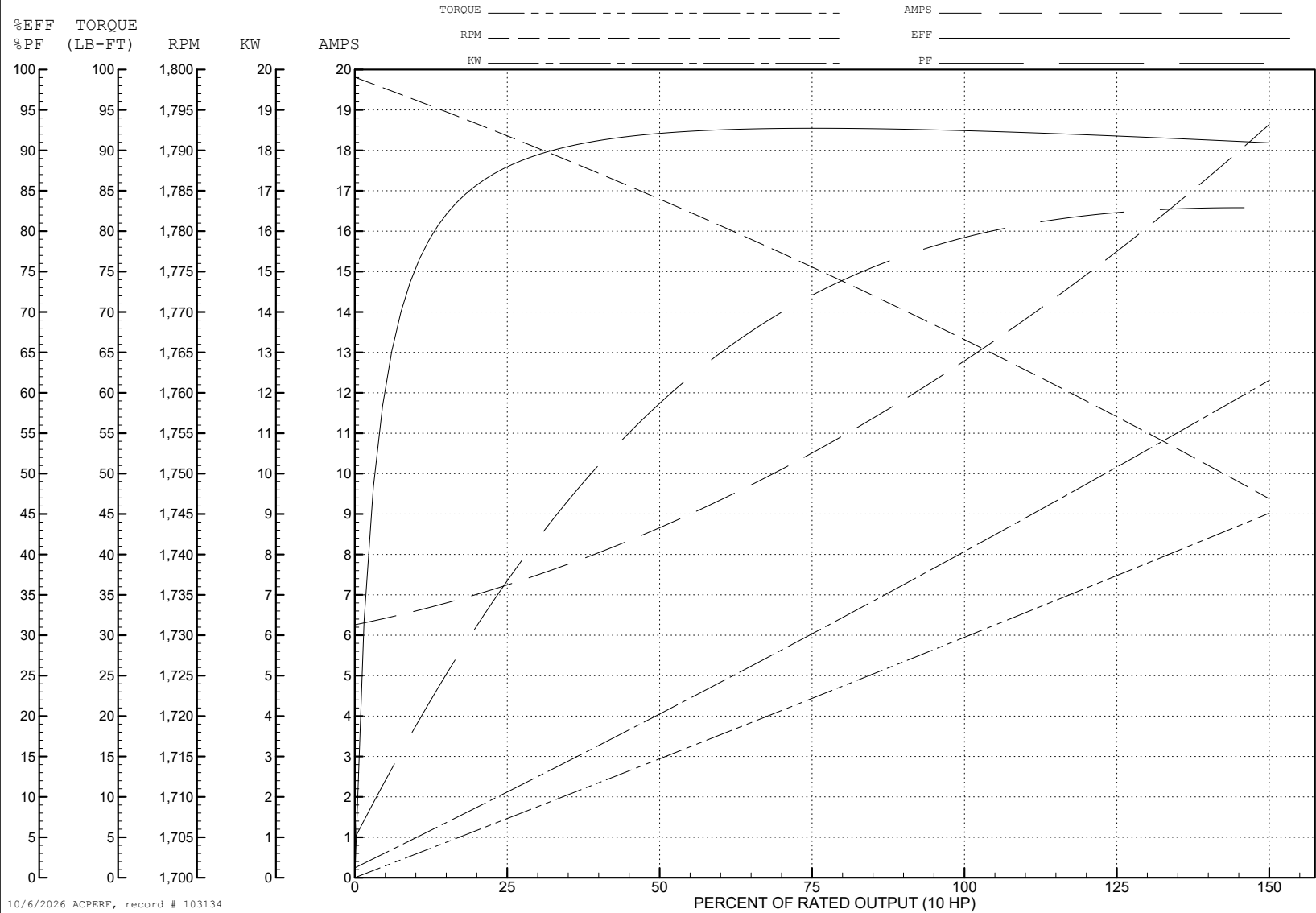
ABB Motors and Mechanical Inc.

WINDING # 37WGZ676

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1766.5 RPM 460 V 3756M

TORQUES (LB-FT): PO=110 PU=66.7 LR=83.7 LRA=112



AC Induction Motor Performance Data

Record # 103135

Typical performance - not guaranteed values

Winding: 37WGZ676-R001				Type: 3756M		Enclosure: TEFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		10HP//7.5KW		Full Load Torque		36.28 LB-FT	
Volts		208-230/460//190/380		Start Configuration		direct on line	
Full Load Amps		26.8-25/12//29.8/14.9		Breakdown Torque		112 LB-FT	
R.P.M.		1770//1465		Pull-up Torque		57.6 LB-FT	
Hz		60//50		Phase		3	
NEMA Design Code		A		KVA Code		K	
Service Factor (S.F.)		1.15		Starting Current		107 A	
NEMA Nom. Eff.		91.7		Power Factor		85	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps		30.8-28.4/14.2//34/17		Temp. Rise @ S.F. Load		99°C	
				Locked-rotor Power Factor		38.9	
				Rotor inertia		1.38 lb-ft²	

Load Characteristics 380 V, 50 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	78	83	84	85	84
Efficiency	89.3	91.9	91.6	90.5	89.5	88.8	89.9
Speed	1489.8	1479.5	1468.1	1456.3	1448.4	1442.5	1452
Line amperes	7.19	9.25	12	15.3	17.4	18.9	16.6

ABB Motors and Mechanical Inc.

WINDING # 37WGZ676

Typical performance - not guaranteed values.

10 HP 3 PH 50 HZ 1456.3 RPM 380 V 3756M

TORQUES (LB-FT): PO=112 PU=57.6 LR=80.9 LRA=107

