

ABB BALDOR RELIANCE III

Customer information packet

GNEM3768T

5HP//3.7KW, 1160//950RPM, 3PH, 60//50HZ, 215

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215T
Frame Material	Iron
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	5.000 HP @ 60 HZ 3.700 KW @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 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	8.600 A @ 380.0 V 7.300 A @ 460.0 V 17.200 A @ 190.0 V

Part Detail

Revision	C
Type	AC
Mech. spec.	07H002
Base	
Status	PRD/A
Elec. spec.	07WGX823
Layout	07LYH002
Eff. date	09-30-2024
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	09-14-2023

	15.800 A @ 208.0 V
	14.600 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.3 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard 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	0748M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	18.45 IN
Power Factor	72
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	1160 rpm 950 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.	GNEM3768T								
SPEC.	07H002X823G1								
HP	5HP//3.7KW						PH	3	
VOLTS	208-230/460//190/380								
AMPS	15.8-14.6/7.3//17.2/8.6								
R.P.M. (1/MIN)	1160//950						WT.	86KG	KG
FRAME	215T		HZ	60//50			I.P.	44	
SER.F.	1.15	CODE	K	DES.	A	CLASS	F		
NOM.EFF.	89.5//86.5		% (100%)						
P.F.	72	IC411, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6307		ODE	6206					
ENCL	TEFC	SN							
	SFA 17.8-16.4/8.2//19.8/9.9								
	IE3-50HZ 90.0(75%),89.4(50%)								
	IE3-60HZ 90.6(75%),89.9(50%)								

AC Induction Motor Performance Data

Record # 101073

Typical performance - not guaranteed values

Winding: 07WGX823-R041				Type: 0748M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5HP//3.7KW		Full Load Torque		22.6 LB-FT	
Volts		208-230/460//190/380		Start Configuration		direct on line	
Full Load Amps		15.8-14.6/7.3//17.2/8.6		Breakdown Torque		77.4 LB-FT	
R.P.M.		1160//950		Pull-up Torque		46.7 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		56.1 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		51.9 A
Service Factor (S.F.)		1.15		No-load Current		3.7 A	
NEMA Nom. Eff.		89.5	Power Factor	72	Line-line Res. @ 25°C		1.68 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		50°C	
S.F. Amps		17.8-16.4/8.2//19.8/9.9		Temp. Rise @ S.F. Load		61°C	
				Locked-rotor Power Factor		21.8	
				Rotor inertia		1.19 LB-FT2	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	53	65	72	75	77	76
Efficiency	85.7	89.9	90.6	90.3	89.2	87.7	89.9
Speed	1190	1181	1173	1163	1151	1139	1161
Line amperes	4.01	4.78	5.85	7.25	8.71	10.3	7.82

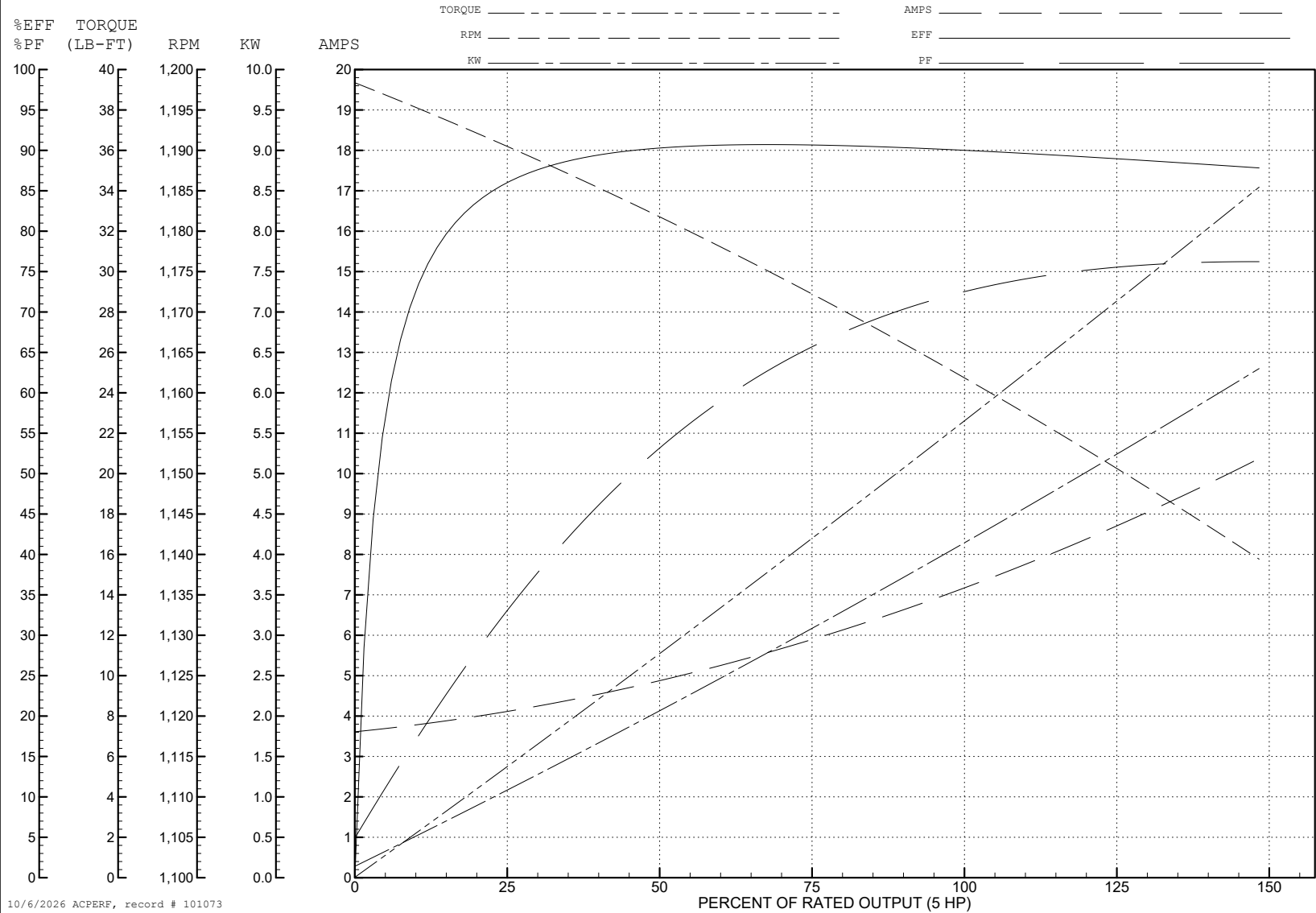
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WINDING # 07WGX823

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1163 RPM 460 V 0748M

TORQUES (LB-FT): PO=77.4 PU=46.7 LR=56.1 LRA=51.9



AC Induction Motor Performance Data

Record # 101074

Typical performance - not guaranteed values

Winding: 07WGX823-R041				Type: 0748M		Enclosure: TEFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		5HP//3.7KW		Full Load Torque		27.78 LB-FT	
Volts		208-230/460//190/380		Start Configuration		direct on line	
Full Load Amps		15.8-14.6/7.3//17.2/8.6		Breakdown Torque		74.8 LB-FT	
R.P.M.		1160//950		Pull-up Torque		51.5 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		61.9 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		50.8 A
Service Factor (S.F.)		1.15		No-load Current		3.64 A	
NEMA Nom. Eff.		89.5	Power Factor	72	Line-line Res. @ 25°C		1.68 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		68°C	
S.F. Amps		17.8-16.4/8.2//19.8/9.9		Temp. Rise @ S.F. Load		90°C	
				Locked-rotor Power Factor		25.2	
				Rotor inertia		1.19 LB-FT2	

Load Characteristics 380 V, 50 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	40	60	71	75	76	75	76
Efficiency	87.7	89.4	90	88.5	86	82.1	87
Speed	989	978	967	954	936	910	943
Line amperes	4.07	5.15	6.65	8.61	10.83	13.85	9.94

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WINDING # 07WGX823

Typical performance - not guaranteed values.

5 HP 3 PH 50 HZ 954 RPM 380 V 0748M

TORQUES (LB-FT): PO=74.8 PU=51.5 LR=61.9 LRA=50.8

