

ABB BALDOR RELIANCE III

Customer information packet

GNEM3764T-G

3HP//2.2KW, 1165//960RPM, 3PH, 60//50HZ, 213

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	213T
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	3.000 HP @ 60 HZ 2.200 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	9.300 A @ 208.0 V 9.000 A @ 230.0 V 5.200 A @ 380.0 V

Part Detail

Revision	D
Type	AC
Mech. spec.	07L783
Base	
Status	PRD/A
Elec. spec.	07WGX822
Layout	07LYL783
Eff. date	05-02-2025
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	09-14-2023

	4.500 A @ 460.0 V
	10.400 A @ 190.0 V
Design Code	B
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	4.5 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0738M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	18.45 IN
Power Factor	70
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	Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	No Slinger
Speed	1165 rpm 960 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.	GNEM3764T-G								
SPEC.	07L783X822G2								
HP	3HP//2.2KW					PH	3		
VOLTS	208-230/460//190/380								
AMPS	9.3-9/4.5//10.4/5.2								
R.P.M. (1/MIN)	1165//960					WT.	86KG		KG
FRAME	213T		HZ	60//50		I.P.	44		
SER.F.	1.15	CODE	K	DES.	B	CLASS	H		
NOM.EFF.	89.5//84.4		% (100%)						
P.F.	70	IC411, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6307		ODE	6206					
ENCL	TEFC	SN							
	SFA 10.6-10/5//11.8/5.9								
	IE3-50HZ 90.6(75%),89.7(50%)								
	IE3-60HZ 90.7(75%),88.7(50%)								

AC Induction Motor Performance Data

Record # 102700

Typical performance - not guaranteed values

Winding: 07WGX822-R057			Type: 0738M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		3HP//2.2KW		Full Load Torque		13.46 LB-FT	
Volts		208-230/460//190/380		Start Configuration		direct on line	
Full Load Amps		9.3-9/4.5//10.4/5.2		Breakdown Torque		46.79 LB-FT	
R.P.M.		1165//960		Pull-up Torque		30.52 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		34.44 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		32 A
Service Factor (S.F.)		1.15		No-load Current		2.35 A	
NEMA Nom. Eff.		89.5	Power Factor	70	Line-line Res. @ 25°C		2.62 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		31°C	
S.F. Amps		10.6-10/5//11.8/5.9		Temp. Rise @ S.F. Load		37°C	
				Locked-rotor Power Factor		22.7	
				Rotor inertia		0.945 lb-ft²	

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	51	62	69	73	75	72
Efficiency	83.1	88.7	90.7	90.3	89.4	87.7	89.6
Speed	1191	1184	1176	1170	1160	1147	1162
Line amperes	2.62	3.11	3.75	4.51	5.38	6.39	5

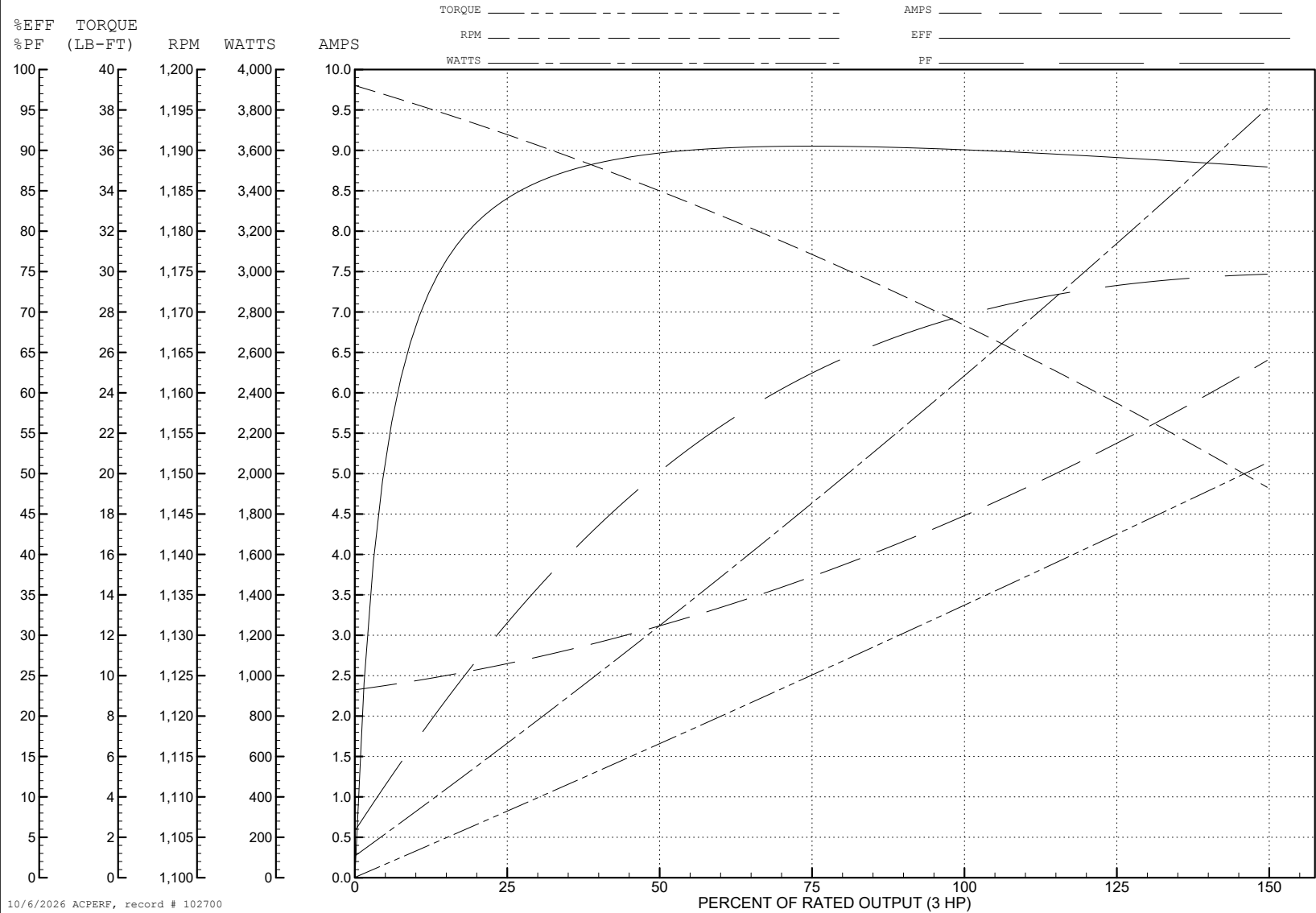
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WINDING # 07WGX822

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1170 RPM 460 V 0738M

TORQUES (LB-FT) : PO=46.79 PU=30.52 LR=34.44 LRA=32



AC Induction Motor Performance Data

Record # 102701

Typical performance - not guaranteed values

Winding: 07WGX822-R057			Type: 0738M		Enclosure: TEFC			
Nameplate Data				380 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		3HP//2.2KW		Full Load Torque		16.37 LB-FT		
Volts		208-230/460//190/380		Start Configuration		direct on line		
Full Load Amps		9.3-9/4.5//10.4/5.2		Breakdown Torque		44.4 LB-FT		
R.P.M.		1165//960		Pull-up Torque		33.2 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		37.4 LB-FT	
NEMA Design Code		B		KVA Code	K	Starting Current		30.8 A
Service Factor (S.F.)		1.15		No-load Current		2.29 A		
NEMA Nom. Eff.		89.5	Power Factor	70	Line-line Res. @ 25°C		2.62 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		40°C		
S.F. Amps		10.6-10/5//11.8/5.9		Temp. Rise @ S.F. Load		50°C		
				Locked-rotor Power Factor		26.3		
				Rotor inertia		0.945 lb-ft²		

Load Characteristics 380 V, 50 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	59	69	74	76	76	72
Efficiency	86.1	89.7	90.6	89.1	87.2	84.2	89.6
Speed	990	981	972	962	949	931	1162
Line amperes	2.62	3.26	4.13	5.18	6.42	7.96	5

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WINDING # 07WGX822

Typical performance - not guaranteed values.

3 HP 3 PH 50 HZ 962 RPM 380 V 0738M

TORQUES (LB-FT): PO=44.4 PU=33.2 LR=37.4 LRA=30.8

