

ABB BALDOR RELIANCE III

Customer information packet

GNEM3664T

2HP//1.5KW, 1170//965RPM, 3PH, 60//50HZ, 184

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184T
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	2.000 HP @ 60 HZ 1.500 KW @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1000 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	7.600 A @ 190.0 V 6.800 A @ 208.0 V 6.600 A @ 230.0 V

Part Detail

Revision	F
Type	AC
Mech. spec.	06C101
Base	
Status	PRD/A
Elec. spec.	06WGX901
Layout	06LYC101
Eff. date	08-05-2024
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	08-17-2023

	3.800 A @ 380.0 V
	3.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.3 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0644M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	15.23 IN
Power Factor	63
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	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	No Slinger
Speed	1170 rpm
	965 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.	GNEM3664T								
SPEC.	06C101X901G1								
HP	2HP//1.5KW					PH	3		
VOLTS	208-230/460//190/380								
AMPS	6.8-6.6/3.3//7.6/3.8								
R.P.M. (1/MIN)	1170//965					WT.	51	KG	
FRAME	184T	HZ		60//50		I.P.		44	
SER.F.	1.15	CODE	K	DES.	B	CLASS		F	
NOM.EFF.	88.5//82.5		% (100%)						
P.F.	63	IC411, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6206		ODE	6205					
ENCL	TEFC	SN							
	SFA 7.6-7.2/3.6//8.4/4.2								
	IE3-50HZ 88.0(75%),87.5(50%)								
	IE3-60HZ 87.9(75%),86.2(50%)								

AC Induction Motor Performance Data

Record # 101092

Typical performance - not guaranteed values

Winding: 06WGX901-R001			Type: 0644M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		2HP//1.5KW		Full Load Torque		9.01 LB-FT	
Volts		208-230/460//190/380		Start Configuration		direct on line	
Full Load Amps		6.8-6.6/3.3//7.6/3.8		Breakdown Torque		33 LB-FT	
R.P.M.		1170//965		Pull-up Torque		16.7 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		21 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		21.9 A
Service Factor (S.F.)		1.15		No-load Current		2.14 A	
NEMA Nom. Eff.		88.5	Power Factor	63	Line-line Res. @ 25°C		4.53 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		32°C	
S.F. Amps		7.6-7.2/3.6//8.4/4.2		Temp. Rise @ S.F. Load		38°C	
				Locked-rotor Power Factor		28.4	
				Rotor inertia		0.413 LB-FT2	

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	44	56	64	69	73	67
Efficiency	78.4	86.2	87.9	88.6	88.2	87	88.4
Speed	1194	1189	1180	1173	1165	1156	1168
Line amperes	2.23	2.49	2.88	3.31	3.84	4.44	3.63

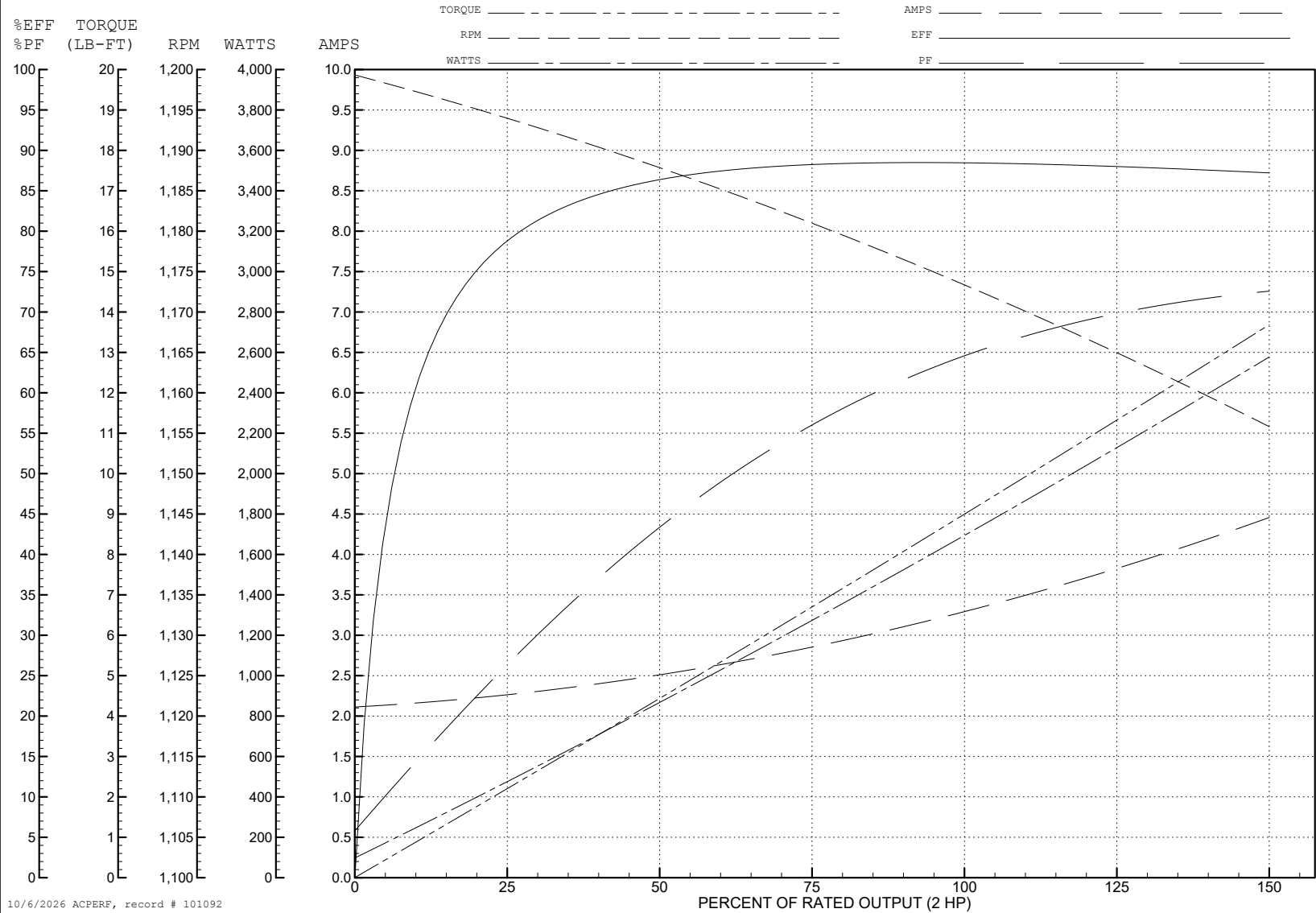
ABB Motors and Mechanical Inc.

WINDING # 06WGX901

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1173 RPM 460 V 0644M

TORQUES (LB-FT): PO=33 PU=16.7 LR=21 LRA=21.9



AC Induction Motor Performance Data

Record # 101093

Typical performance - not guaranteed values

Winding: 06WGX901-R001			Type: 0644M		Enclosure: TEFC		
Nameplate Data			380 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		2HP//1.5KW	Full Load Torque		10.94 LB-FT		
Volts		208-230/460//190/380	Start Configuration		direct on line		
Full Load Amps		6.8-6.6/3.3//7.6/3.8	Breakdown Torque		31.7 LB-FT		
R.P.M.		1170//965	Pull-up Torque		17.6 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque		22.2 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		21.3 A
Service Factor (S.F.)		1.15		No-load Current		2.12 A	
NEMA Nom. Eff.		88.5	Power Factor	63	Line-line Res. @ 25°C		4.53 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		40°C	
S.F. Amps		7.6-7.2/3.6//8.4/4.2		Temp. Rise @ S.F. Load		49°C	
				Locked-rotor Power Factor		32.1	
				Rotor inertia		0.413 lb-ft²	

Load Characteristics 380 V, 50 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	50	62	69	73	75	71
Efficiency	81.4	87.5	88	87.7	86.3	83.8	86.9
Speed	992	986	976	966	956	942	960
Line amperes	2.25	2.61	3.14	3.76	4.53	5.43	4.22

ABB Motors and Mechanical Inc.

WINDING # 06WGX901

Typical performance - not guaranteed values.

2 HP 3 PH 50 HZ 966 RPM 380 V 0644M

TORQUES (LB-FT): PO=31.7 PU=17.6 LR=22.2 LRA=21.3

