

ABB BALDOR RELIANCE III

Customer information packet

GNEM3661T

36M 4P TEFC HOR 182T SUPER E, IE3

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	182T
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 3.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	WEEE UKCA NEMA PREMIUM (OLD LOGO) NEMA PREMIUM IE3 CURUS CE
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	9.000 A @ 208.0 V 8.800 A @ 230.0 V

Part Detail

Revision	K
Type	AC
Mech. spec.	06C101
Base	
Status	PRD/A
Elec. spec.	06WGX848
Layout	06LYC101
Eff. date	08-05-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	12-14-2018

5.100 A @ 380.0 V
 4.400 A @ 460.0 V
 10.200 A @ 190.0 V

Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.4 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	K
Lifting Lugs	Standard 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	0636M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.24 IN
Power Factor	74
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	1460 rpm 1760 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.	GNEM3661T								
SPEC.	06C101X848G1								
HP	3/2.2KW						PH	3	
VOLTS	208-230/460//190/380								
AMPS	9-8.8/4.4//10.2/5.1								
R.P.M. (1/MIN)	1760//1460						WT.	49KG	KG
FRAME	182T	HZ		60//50			I.P.	44	
SER.F.	1.15	CODE	K	DES.	A	CLASS	F		
NOM.EFF.	90.2//87.6		% (100%)						
P.F.	74	IC411, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6206	ODE		6205					
ENCL	TEFC	SN							
	IE3 60HZ 89.8 (75%) 88.0 (50%)								
	IE3 50HZ 89.5 (75%) 88.5 (50%)								

AC Induction Motor Performance Data

Record # 62304

Typical performance - not guaranteed values

Winding: 06WGX848-R001		Type: 0636M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	3	Full Load Torque	8.96 LB-FT
Volts	208-230/460//190/380	Start Configuration	direct on line
Full Load Amps	9-8.8/4.4//10.2/5.1	Breakdown Torque	41.11 LB-FT
R.P.M.	1760//1460	Pull-up Torque	20.45 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	24.25 LB-FT
NEMA Design Code	A KVA Code	Starting Current	36.84 A
Service Factor (S.F.)	1.15	No-load Current	2.69 A
NEMA Nom. Eff.	90.2 Power Factor	Line-line Res. @ 25°C	3.45 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	33°C
S.F. Amps		Temp. Rise @ S.F. Load	39°C
		Locked-rotor Power Factor	41.8
		Rotor inertia	0.335 LB-FT ²

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	50	63	71	77	80	75
Efficiency	80.6	87.9	89.9	90.1	89.9	88.5	90
Speed	1792	1784	1776	1767	1758	1745	1762
Line amperes	2.88	3.22	3.75	4.41	5.11	6.15	4.83

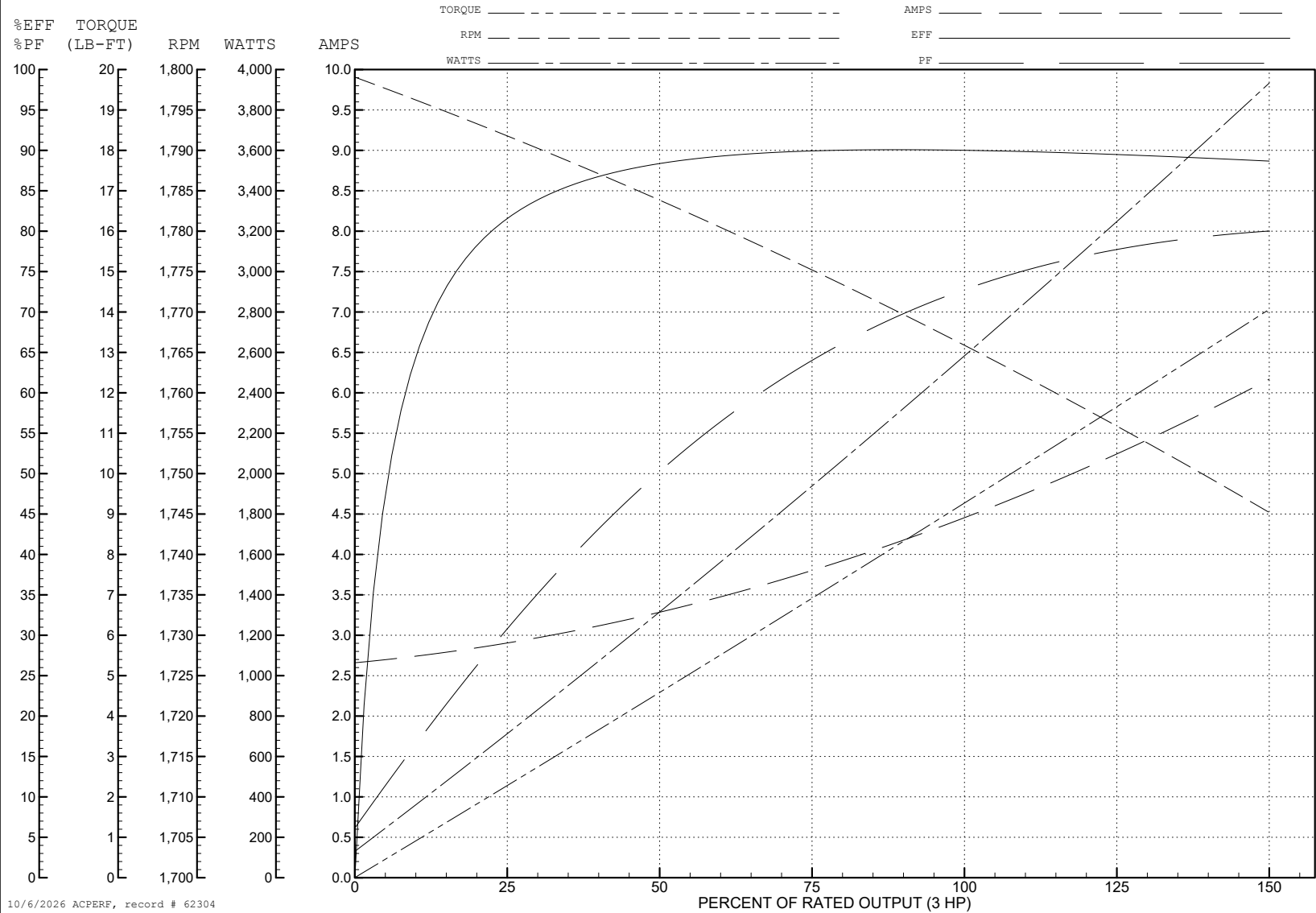
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WINDING # 06WGX848

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1767 RPM 460 V 0636M

TORQUES (LB-FT): PO=41.11 PU=20.45 LR=24.25 LRA=36.84



AC Induction Motor Performance Data

Record # 62305

Typical performance - not guaranteed values

Winding: 06WGX848-R001			Type: 0636M		Enclosure: TEFC	
Nameplate Data			380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		3	Full Load Torque		10.84 LB-FT	
Volts	208-230/460//190/380		Start Configuration		direct on line	
Full Load Amps	9-8.8/4.4//10.2/5.1		Breakdown Torque		38.77 LB-FT	
R.P.M.	1760//1460		Pull-up Torque		20.79 LB-FT	
Hz	60//50	Phase 3	Locked-rotor Torque		24.65 LB-FT	
NEMA Design Code	A	KVA Code K	Starting Current		35.48 A	
Service Factor (S.F.)		1.15	No-load Current		2.65 A	
NEMA Nom. Eff.	90.2	Power Factor 74	Line-line Res. @ 25°C		3.45 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		41°C	
S.F. Amps			Temp. Rise @ S.F. Load		50°C	
			Locked-rotor Power Factor		46.5	
			Rotor inertia		0.335 LB-FT2	

Load Characteristics 380 V, 50 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	37	57	69	76	80	83	78
Efficiency	82.5	88.6	89.5	89.1	88.1	85.9	88.5
Speed	1490	1481	1471	1460	1449	1433	1453
Line amperes	2.91	3.4	4.16	5.06	6.03	7.42	5.64

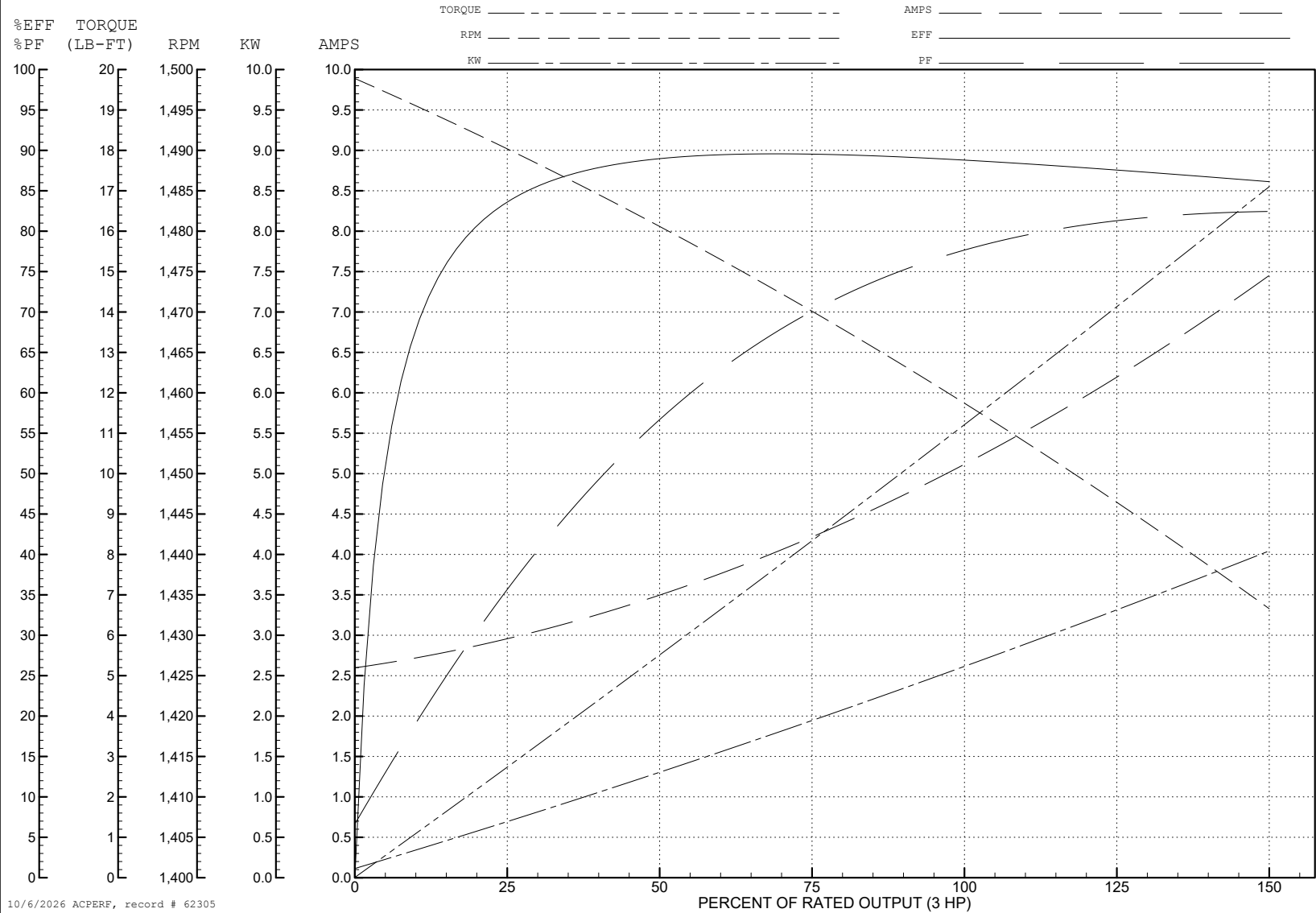
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WINDING # 06WGX848

Typical performance - not guaranteed values.

3 HP 3 PH 50 HZ 1460 RPM 380 V 0636M

TORQUES (LB-FT) : PO=38.77 PU=20.79 LR=24.65 LRA=35.48



AC Induction Motor Performance Data

Record # 104160

Typical performance - not guaranteed values

Winding: 06WGX848-R001		Type: 0636M	Enclosure: TEFC
Nameplate Data		208 V, 60 Hz: Low Voltage Connection	
Rated Output (HP)	3	Full Load Torque	8.99 LB-FT
Volts	208-230/460//190/380	Start Configuration	direct on line
Full Load Amps	9-8.8/4.4//10.2/5.1	Breakdown Torque	33.3 LB-FT
R.P.M.	1760//1460	Pull-up Torque	16.4 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	19.4 LB-FT
NEMA Design Code	A KVA Code	Starting Current	65.9 A
Service Factor (S.F.)	1.15	No-load Current	4.64 A
NEMA Nom. Eff.	90.2 Power Factor	Line-line Res. @ 25°C	0.863 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	33°C
S.F. Amps		Temp. Rise @ S.F. Load	40°C
		Locked-rotor Power Factor	41.8
		Rotor inertia	0.335 lb-ft ²

Load Characteristics 208 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	58	70	76	81	83	79
Efficiency	83.2	89.1	90.3	90.1	89.4	87.6	89.7
Speed	1790	1781	1771	1760	1749	1733	1753
Line amperes	5.13	6.08	7.45	9.09	10.82	13.29	10.1

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WINDING # 06WGX848

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1760 RPM 208 V 0636M

TORQUES (LB-FT): PO=33.3 PU=16.4 LR=19.4 LRA=65.9

