

ABB BALDOR RELIANCE III

Customer information packet

GNEM2276T

7.5HP//5KW, 1175//980RPM, 3PH, 60//50HZ, 254

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	254T
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	7.500 HP @ 60 HZ 5.000 KW @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 190.0 V @ 50 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 CURUSEEV 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	26.000 A @ 190.0 V 23.400 A @ 208.0 V

Part Detail

Revision	A
Type	AC
Mech. spec.	09P11
Base	
Status	PRD/A
Elec. spec.	09WGZ495
Layout	09LYP011
Eff. date	11-14-2023
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	09-19-2023

	22.800 A @ 230.0 V
	13.000 A @ 380.0 V
	11.400 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	11.4 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0952M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	23.36 IN
Power Factor	68
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	1.625 IN
Shaft Ground Indicator	No Shaft Grounding

Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1175 rpm
	980 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.	GNEM2276T								
SPEC.	09P011Z495G1								
HP	7.5HP//5KW					PH	3		
VOLTS	208-230/460//190/380								
AMPS	23.4-22.8/11.4//26/13								
R.P.M. (1/MIN)	1175//980					WT.	116KG		KG
FRAME	254T		HZ	60//50		I.P.	54		
SER.F.	1.15	CODE	K	DES.	A	CLASS	F		
NOM.EFF.	91//88		% (100%)						
P.F.	68	IC411, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6309		ODE	6208					
ENCL	TEFC	SN							
	SFA 26.6-25.4/12.7//29.4/14.7								
	IE3-50HZ 90.9 (75%),90.0 (50%)								
	IE3-60HZ 90.7 (75%),89.0 (50%)								

AC Induction Motor Performance Data

Record # 101023

Typical performance - not guaranteed values

Winding: 09WGZ495-R002		Type: 0952M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	7.5	Full Load Torque	33.6 LB-FT
Volts	208-230/460//190/380	Start Configuration	direct on line
Full Load Amps	23.4-22.8/11.4//26/13	Breakdown Torque	140 LB-FT
R.P.M.	1175//980	Pull-up Torque	44.7 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	67.3 LB-FT
NEMA Design Code	A KVA Code	Starting Current	83.4 A
Service Factor (S.F.)	1.15	No-load Current	6.72 A
NEMA Nom. Eff.	91 Power Factor	Line-line Res. @ 25°C	0.89552 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	35°C
S.F. Amps	26.6-25.4/12.7//29.4/14.7	Temp. Rise @ S.F. Load	41°C
		Locked-rotor Power Factor	26.9
		Rotor inertia	4.18 lb-ft ²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	49	60	68	72	74	70
Efficiency	82.2	89	90.7	91.1	90.8	90.1	90.9
Speed	1193.4	1189.8	1186	1182	1177.7	1173	1179
Line amperes	7.19	8.21	9.69	11.4	13.5	15.8	12.7

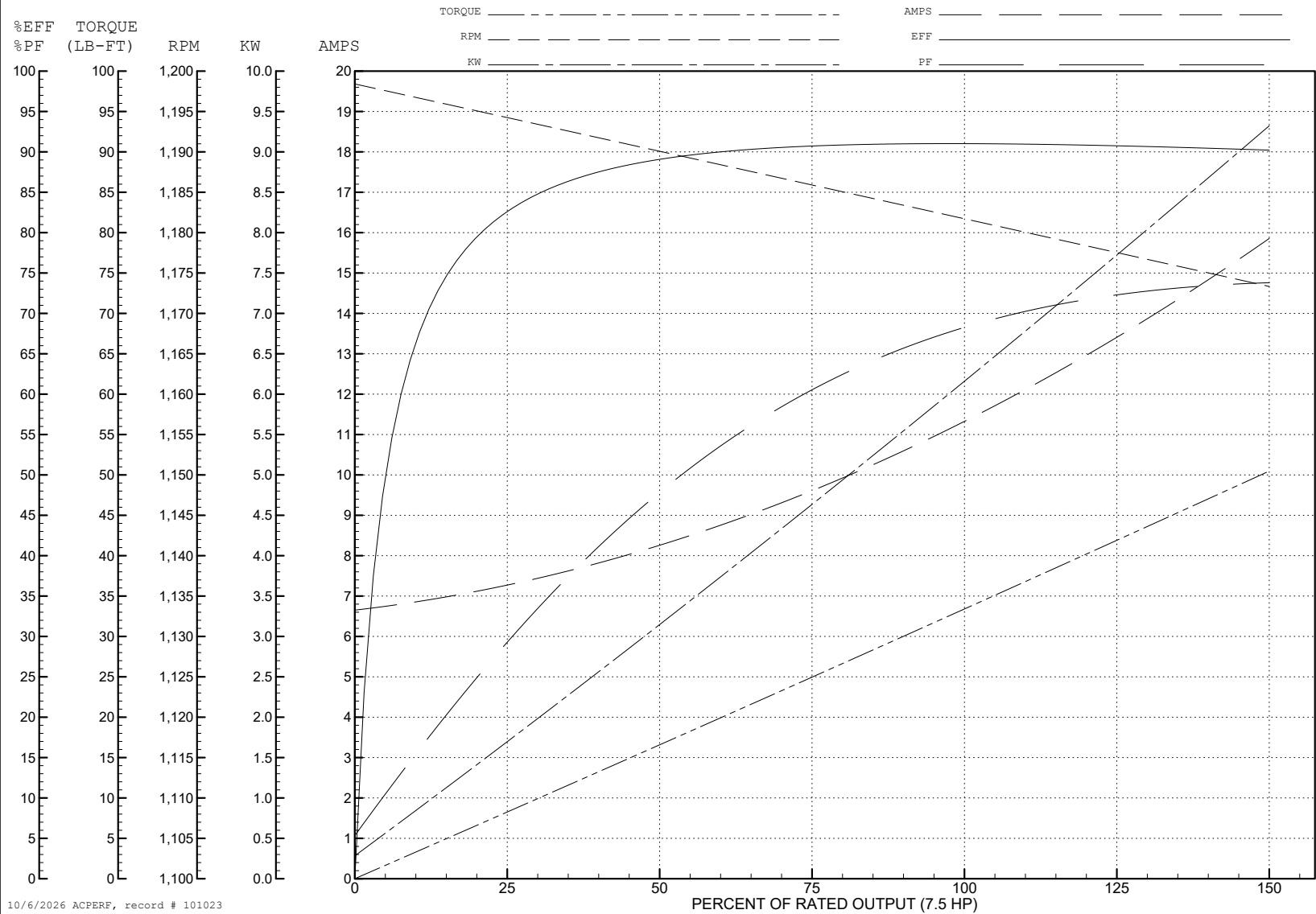
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WINDING # 09WGZ495

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1182 RPM 460 V 0952M

TORQUES (LB-FT): PO=140 PU=44.7 LR=67.3 LRA=83.4



AC Induction Motor Performance Data

Record # 101024

Typical performance - not guaranteed values

Winding: 09WGZ495-R002		Type: 0952M	Enclosure: TEFC
Nameplate Data		380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	7.5	Full Load Torque	40.47 LB-FT
Volts	208-230/460//190/380	Start Configuration	direct on line
Full Load Amps	23.4-22.8/11.4//26/13	Breakdown Torque	135 LB-FT
R.P.M.	1175//980	Pull-up Torque	47 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	70.7 LB-FT
NEMA Design Code	A KVA Code	Starting Current	81.7 A
Service Factor (S.F.)	1.15	No-load Current	6.63 A
NEMA Nom. Eff.	91 Power Factor	Line-line Res. @ 25°C	0.875 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	42°C
S.F. Amps	26.6-25.4/12.7//29.4/14.7	Temp. Rise @ S.F. Load	51°C
		Locked-rotor Power Factor	30.1
		Rotor inertia	4.18 LB-FT ²

Load Characteristics 380 V, 50 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	55	66	73	75	76	74
Efficiency	84.8	90	90.9	90.7	89.8	88.6	90.2
Speed	993	989	984	979	974	968	976
Line amperes	7.24	8.63	10.64	12.95	15.78	18.95	14.6

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WINDING # 09WGZ495

Typical performance - not guaranteed values.

7.5 HP 3 PH 50 HZ 979 RPM 380 V 0952M

TORQUES (LB-FT): PO=135 PU=47 LR=70.7 LRA=81.7

