

ABB BALDOR RELIANCE III

Customer information packet

GNEM2276T-G

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	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	26.000 A @ 190.0 V 23.400 A @ 208.0 V 22.800 A @ 230.0 V

Part Detail

Revision	E
Type	AC
Mech. spec.	09J359
Base	
Status	PRD/A
Elec. spec.	09WGZ495
Layout	09LYJ359
Eff. date	03-12-2026
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	09-19-2023

	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	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-G								
SPEC.	09J359Z495G1								
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.	127KG		KG
FRAME	254T		HZ	60//50		I.P.	54		
SER.F.	1.15	CODE	K	DES.	A	CLASS	H		
NOM.EFF.	91		% (100%)						
P.F.	68	IC411, 10:1 VT							
RATING	40C AMB-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 # 102706

Typical performance - not guaranteed values

Winding: 09WGZ495-R003				Type: 0952M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		7.5HP//5KW		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	3	Locked-rotor Torque		67.3 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		83.4 A
Service Factor (S.F.)		1.15		No-load Current		6.72 A	
NEMA Nom. Eff.		91	Power Factor	68	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-ft²	

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

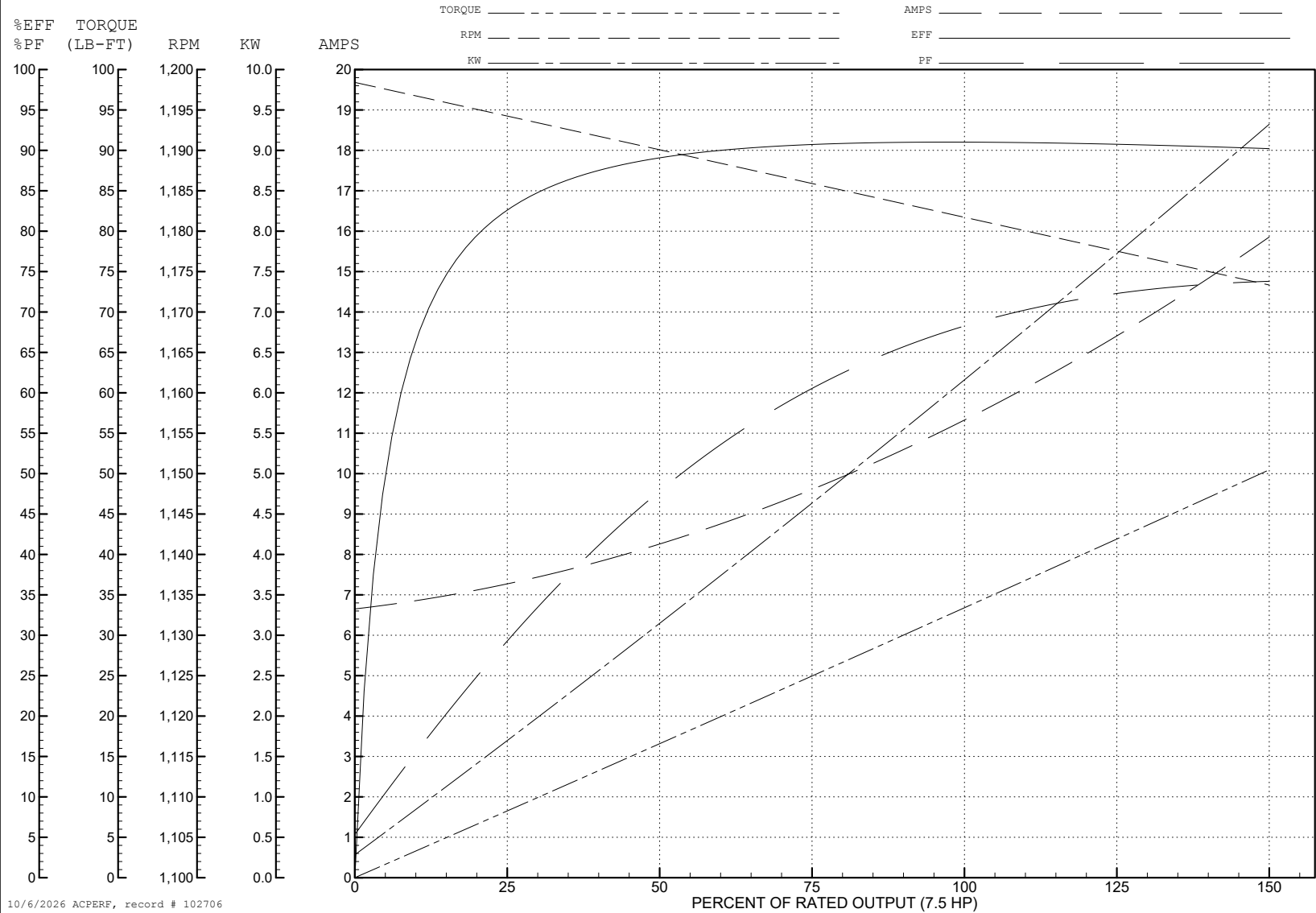
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WINDING # 09WGZ495

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 # 102707

Typical performance - not guaranteed values

Winding: 09WGZ495-R003				Type: 0952M		Enclosure: TEFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		7.5HP//5KW		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	3	Locked-rotor Torque		70.7 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		81.7 A
Service Factor (S.F.)		1.15		No-load Current		6.63 A	
NEMA Nom. Eff.		91	Power Factor	68	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-ft²	

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

