

ABB BALDOR RELIANCE III

Customer information packet

GNEM2506T

7.5HP//5KW, 1185//985RPM, 3PH, 60//50HZ, 254

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	254T
Frame Material	Steel
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	26.200 A @ 190.0 V 25.600 A @ 208.0 V

Part Detail

Revision	C
Type	AC
Mech. spec.	39K57
Base	
Status	PRD/A
Elec. spec.	39WGY469
Layout	39LYK057
Eff. date	12-12-2025
CD Diagram	CD0180
Poles	06
Leads	9#12
Proprietary	False
Created date	04-19-2024

	25.400 A @ 230.0 V
	13.100 A @ 380.0 V
	12.700 A @ 460.0 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	12.7 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	M
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3956M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	23.19 IN
Power Factor	61
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	No Slinger
Speed	1185 rpm
	985 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.	GNEM2506T								
SPEC.	39K057Y469G1								
HP	7.5HP//5KW					PH	3		
VOLTS	208-230/460//190/380								
AMPS	25.6-25.4/12.7//26.2/13.1								
R.P.M. (1/MIN)	1185//985					WT.	112KG		KG
FRAME	254T		HZ	60//50		I.P.	22		
SER.F.	1.15	CODE	M	DES.	A	CLASS	F		
NOM.EFF.	90.2//89.0		% (100%)						
P.F.	61	IC01, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6309		ODE	6208					
ENCL	OPSB	SN							
	IE3-50HZ-89.6(75%) 87.5(50%)								
	IE3-60HZ-89.6(75%) 87.0(50%)								

AC Induction Motor Performance Data

Record # 107538

Typical performance - not guaranteed values

Winding: 39WGY469-R001				Type: 3956M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		7.5HP//5KW		Full Load Torque		33.37 LB-FT	
Volts		208-230/460//190/380		Start Configuration		direct on line	
Full Load Amps		25.6-25.4/12.7//26.2/13.1		Breakdown Torque		132 LB-FT	
R.P.M.		1185//985		Pull-up Torque		71.2 LB-FT	
Hz		60//50		Phase		3	
NEMA Design Code		A		KVA Code		M	
Service Factor (S.F.)		1.15		No-load Current		8.52 A	
NEMA Nom. Eff.		90.2		Power Factor		61	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		25°C	
S.F. Amps				Temp. Rise @ S.F. Load		28°C	
				Locked-rotor Power Factor		26	
				Rotor inertia		4.5 lb-ft²	

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	25	41	53	61	67	70	65
Efficiency	79	87	89.6	90.6	90.8	90.6	90.7
Speed	1196.4	1193.7	1190.7	1187.7	1185.2	1181.9	1186
Line amperes	8.95	9.82	11.1	12.7	14.5	16.6	13.8

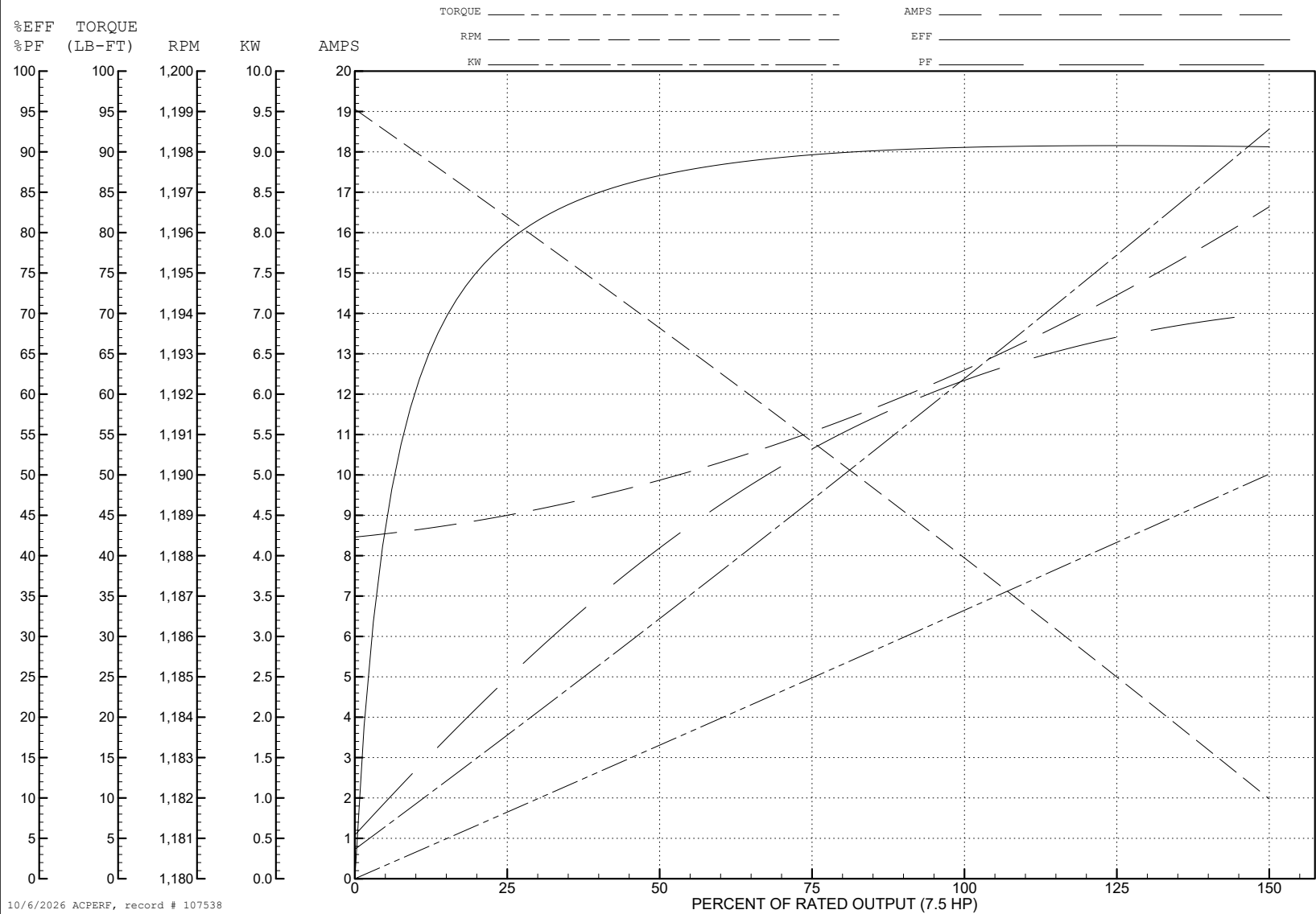
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WINDING # 39WGY469

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1187.7 RPM 460 V 3956M

TORQUES (LB-FT): PO=132 PU=71.2 LR=88 LRA=99.7



AC Induction Motor Performance Data

Record # 107539

Typical performance - not guaranteed values

Winding: 39WGY469-R001				Type: 3956M		Enclosure: OPSB	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (KW)		7.5HP//5KW		Full Load Torque		35.72 LB-FT	
Volts		208-230/460//190/380		Start Configuration		direct on line	
Full Load Amps		25.6-25.4/12.7//26.2/13.1		Breakdown Torque		132 LB-FT	
R.P.M.		1185//985		Pull-up Torque		69.2 LB-FT	
Hz		60//50		Phase		3	
NEMA Design Code		A		KVA Code		M	
Service Factor (S.F.)		1.15		Starting Current		94.6 A	
NEMA Nom. Eff.		90.2		Power Factor		61	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		26°C	
S.F. Amps				Temp. Rise @ S.F. Load		28°C	
				Locked-rotor Power Factor		29.2	
				Rotor inertia		4.5 lb-ft²	

Load Characteristics 380 V, 50 Hz, 5 KW

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	44	56	64	68	69	66
Efficiency	80	87.5	89.6	90.1	90.1	89.9	90.1
Speed	996.4	993.5	990.3	986.9	984.5	983.1	985
Line amperes	8.83	9.86	11.3	13.1	14.4	15.2	13.9

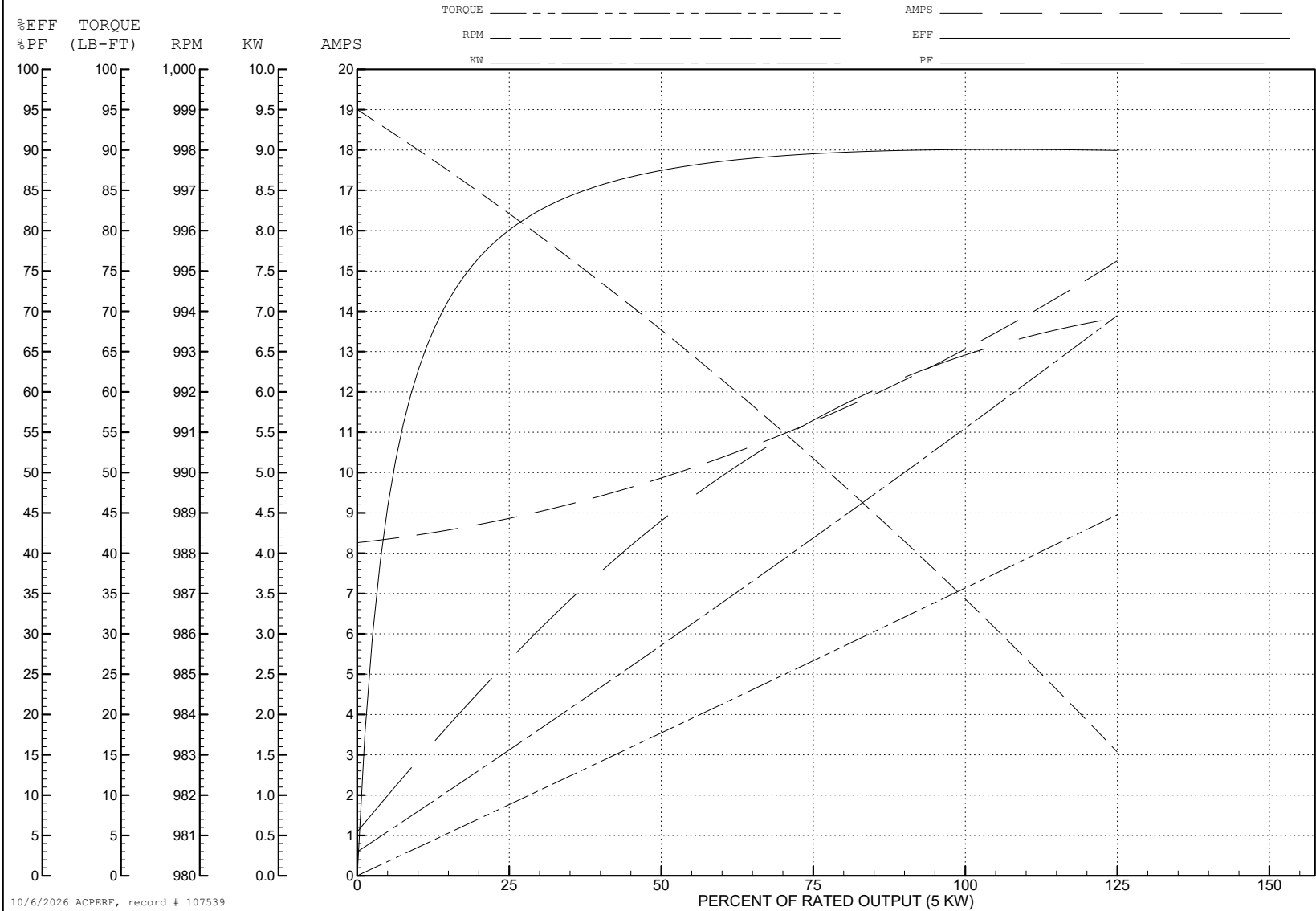
ABB Motors and Mechanical Inc.

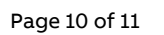
WINDING # 39WGY469

Typical performance - not guaranteed values.

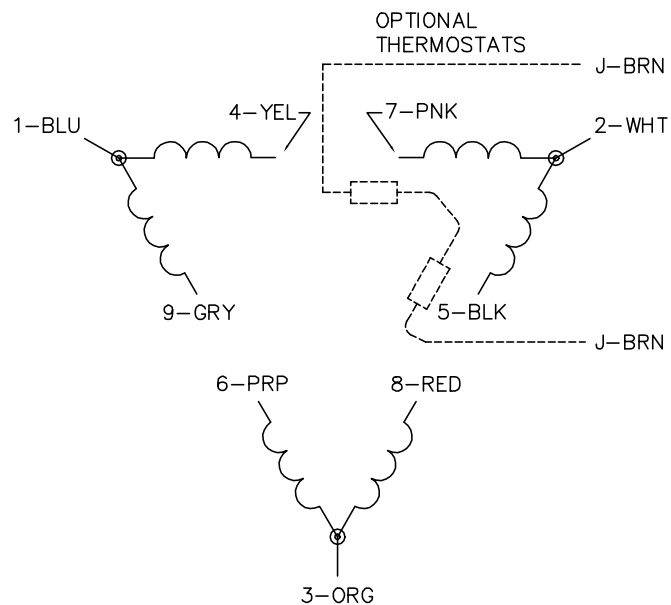
5 KW 3 PH 50 HZ 986.9 RPM 380 V 3956M

TORQUES (LB-FT): PO=132 PU=69.2 LR=80.6 LRA=94.6

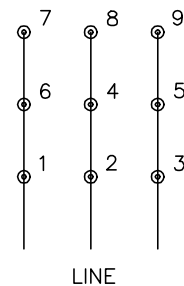




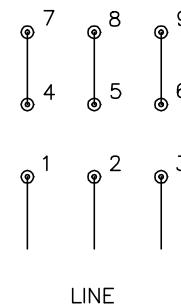
CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: -



BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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