

ABB BALDOR RELIANCE III

Customer information packet GNEM2524T

15HP//11KW, 1180//980RPM, 3PH, 60//50HZ, 284

Specifications

Enclosure	OPSB
Frame	284T
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	11.000 KW @ 50 HZ 15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 208.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	NEMA PREMIUM (OLD LOGO) UKCA WEEE CURUS CE NEMA PREMIUM IE3
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	48.000 A @ 190.0 V 44.000 A @ 208.0 V 42.000 A @ 230.0 V 24.000 A @ 380.0 V

Part Detail

Revision	C
Type	AC
Mech. spec.	40G48
Base	
Status	PRD/A
Elec. spec.	40WGX502
Layout	40LYG048
Eff. date	09-02-2025
CD Diagram	CD0180
Poles	06
Leads	9#10
Proprietary	False
Created date	08-16-2023

	21.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	21.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4056M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	25.06 IN
Power Factor	73
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	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	No Slinger
Speed	1185 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.	GNEM2524T								
SPEC.	40G048X502G1								
HP	15HP//11KW					PH	3		
VOLTS	208-230/460//190/380								
AMPS	44-42/21//48/24								
R.P.M. (1/MIN)	1185//980					WT.	113		KG
FRAME	284T		HZ	60//50		I.P.	22		
SER.F.	1.15	CODE	J	DES.	A	CLASS	F		
NOM.EFF.	91.7//90.3		% (100%)						
P.F.	73	IC01, 10:1 VT							
RATING	40C AMB-CONT				CC	010A			
DE	6311		ODE	6309					
ENCL	OPSB	SN							
	IE3-50HZ 92.8(75%),92.5(50%)								
	IE3-60HZ 93.4(75%),92.4(50%)								
	SFA 49-46/23//52/26								

AC Induction Motor Performance Data

Record # 105136

Typical performance - not guaranteed values

Winding: 40WGX502-R001			Type: 4056M		Enclosure: OPSB			
Nameplate Data					460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		15HP//11KW		Full Load Torque		66.62 LB-FT		
Volts		208-230/460//190/380		Start Configuration		direct on line		
Full Load Amps		42-40/20//46/23		Breakdown Torque		230 LB-FT		
R.P.M.		1180//980		Pull-up Torque		127 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		139 LB-FT	
NEMA Design Code		A	KVA Code		J	Starting Current		140 A
Service Factor (S.F.)		1.15		No-load Current		11.4 A		
NEMA Nom. Eff.		91.7	Power Factor		75	Line-line Res. @ 25°C		0.47156 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		23°C		
S.F. Amps		48-50/25//52/26		Temp. Rise @ S.F. Load		27°C		
					Locked-rotor Power Factor		31	

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	53	66	73	77	79	75
Efficiency	87.9	92.4	93.4	93.5	93.1	92.4	93.3
Speed	1196.3	1192.5	1189.1	1185.2	1180.7	1175.4	1182
Line amperes	12.3	14.4	17.2	20.7	24.6	28.9	23

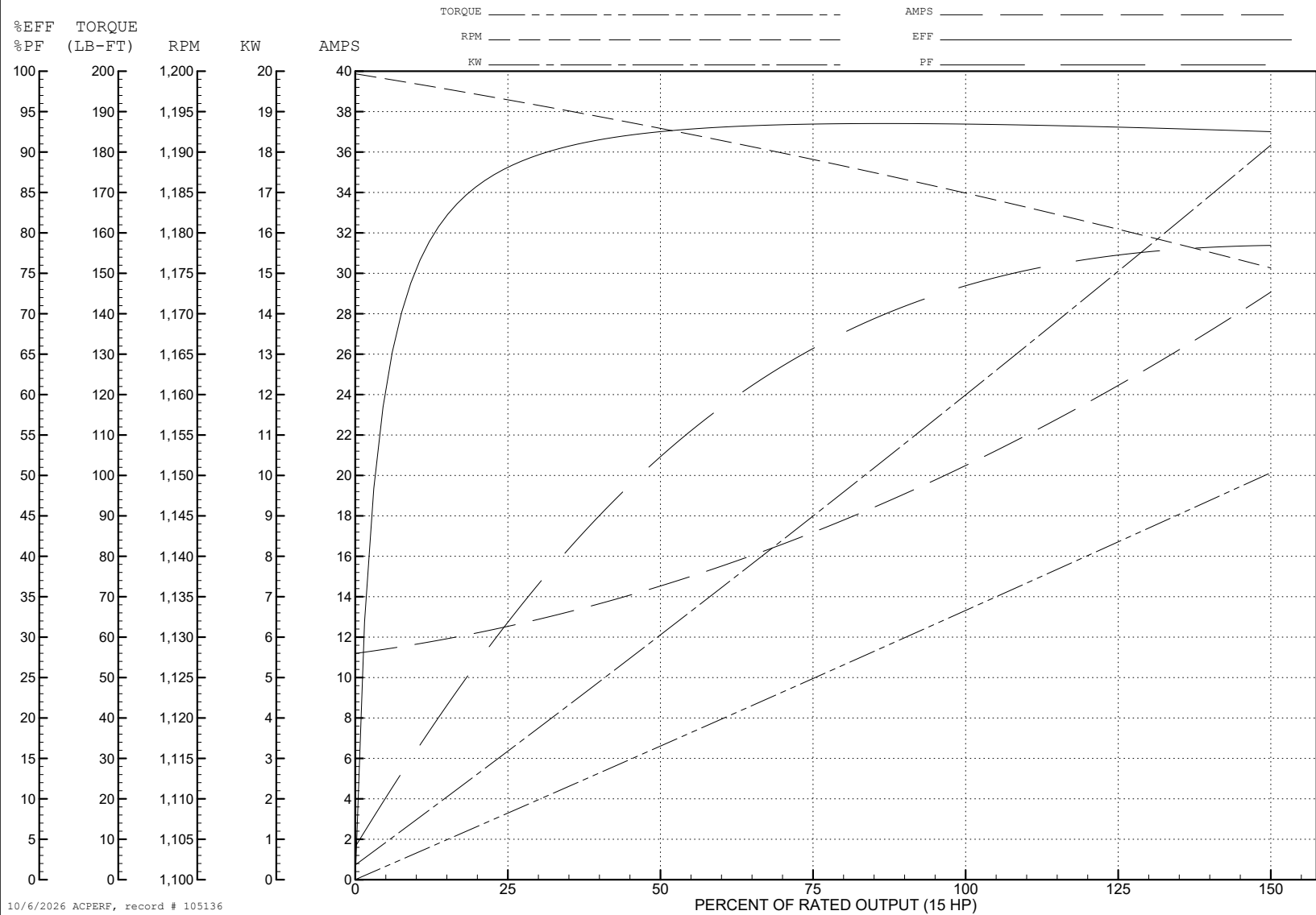
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WINDING # 40WGX502

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1185.2 RPM 460 V 4056M

TORQUES (LB-FT): PO=230 PU=127 LR=139 LRA=140



AC Induction Motor Performance Data

Record # 105138

Typical performance - not guaranteed values

Winding: 40WGX502-R001		Type: 4056M	Enclosure: OPSB
Nameplate Data		380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	15HP//11KW	Full Load Torque	79.1 LB-FT
Volts	208-230/460//190/380	Start Configuration	direct on line
Full Load Amps	44-42/21//48/24	Breakdown Torque	226 LB-FT
R.P.M.	1185//980	Pull-up Torque	124 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	137 LB-FT
NEMA Design Code	A KVA Code	Starting Current	139 A
Service Factor (S.F.)	1.15	No-load Current	11.1 A
NEMA Nom. Eff.	91.7 Power Factor	Line-line Res. @ 25°C	0.47155 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	34°C
S.F. Amps	49-46/23//52/26	Temp. Rise @ S.F. Load	39°C
		Locked-rotor Power Factor	34.4
		Rotor inertia	6.86 lb-ft ²

Load Characteristics 380 V, 50 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	60	71	77	79	79	78
Efficiency	89.2	92.5	92.8	92.2	91.6	91.1	91.8
Speed	995.3	990.6	985.6	979.8	976.3	973.8	978
Line amperes	12.4	15.2	19	23.7	26.7	28.8	25.5

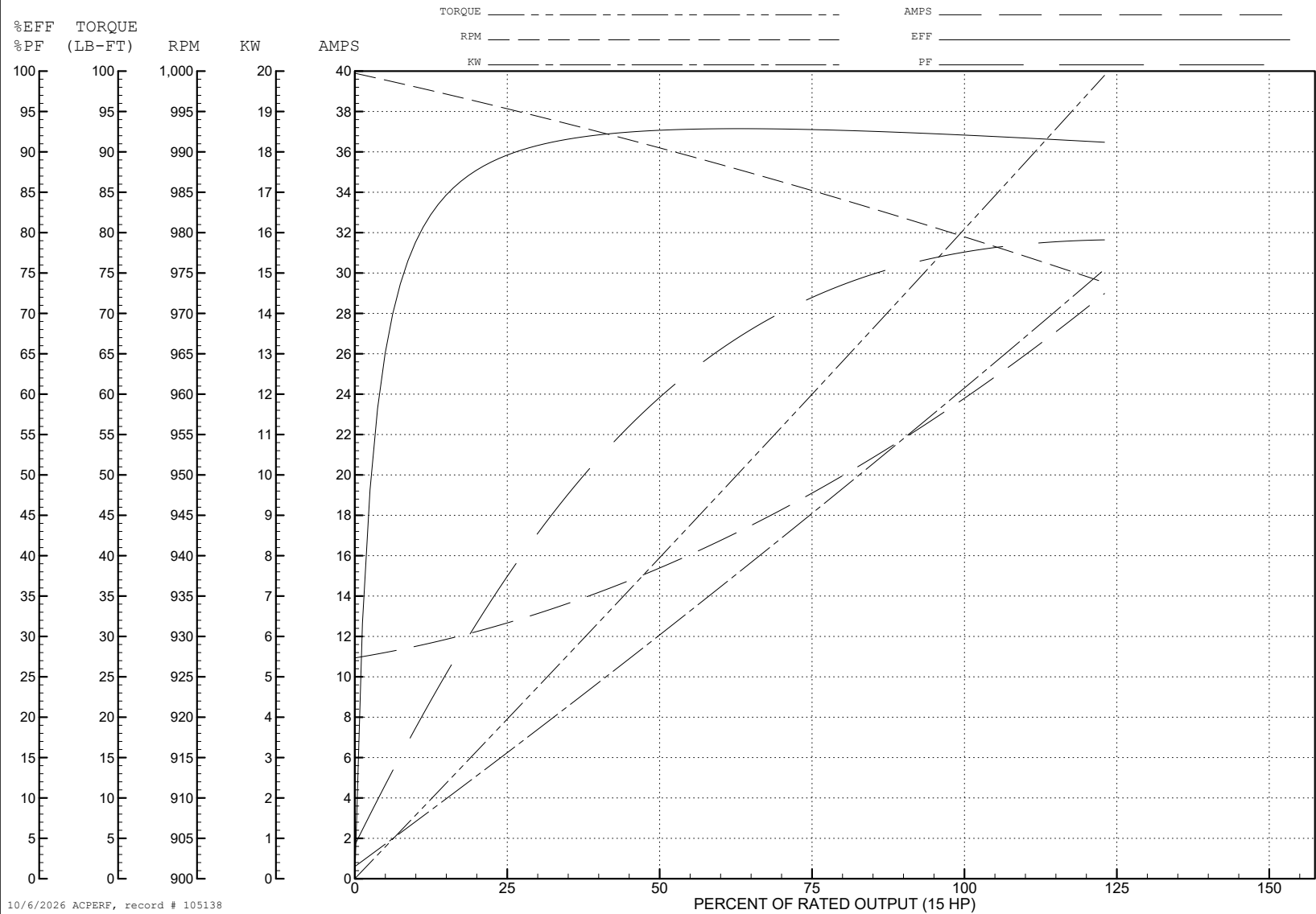
ABB Motors and Mechanical Inc.

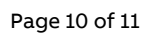
WINDING # 40WGX502

Typical performance - not guaranteed values.

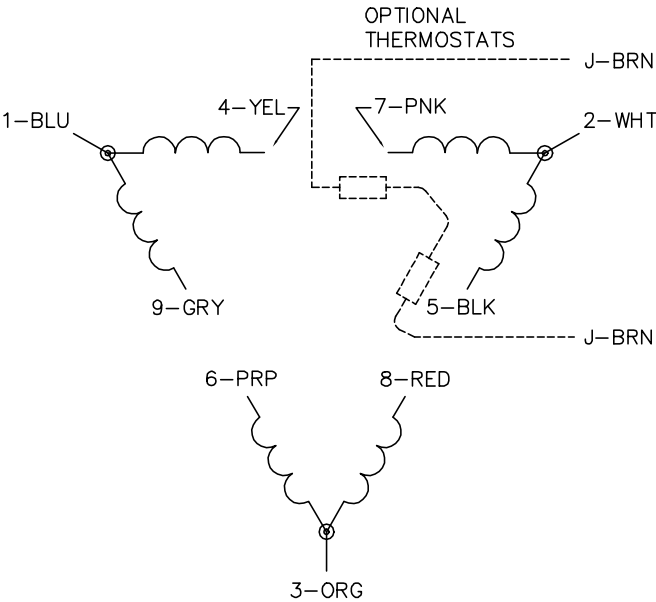
15 HP 3 PH 50 HZ 979.8 RPM 380 V 4056M

TORQUES (LB-FT): PO=226 PU=124 LR=137 LRA=139

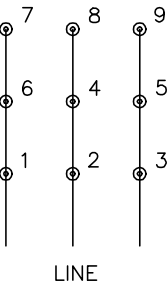




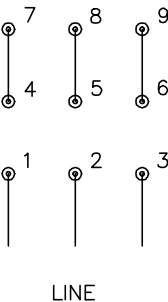
CD0180



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
SH 1 of 1